Tooele County

PRE-DISASTER MITIGATION PLAN

2021 UPDATE

TOOELE COUNTY

TOOELE COUNTY TCEM EMERGENCY MANAGEMENT

BRAG Bear River Association of Governments

This Page Intentionally Left Blank

EXECUTIVE SUMMARY

Pre-disaster mitigation or hazard mitigation is the actions taken to reduce or eliminate the cause, impact and consequences of natural hazards on property and people. Mitigation is one of four phases of emergency management, including preparedness, response, and recovery. This plan focuses on mitigation by identify the potential risk and vulnerabilities caused by natural hazards, and by developing long-term strategies to protect people and property from future hazard events.

This is the FEMA-approved Pre-Disaster Mitigation Plan (PDMP) for Tooele County of Utah. By participating and adopting this plan, communities in the region meet the requirements of the 2000 Disaster Mitigation Act and are eligible for federal assistance through the Hazard Mitigation Grant Program (HMGP), HMGP Post Fire Grant, Flood Mitigation Assistance (FMA) Program, and the Building Resilient Infrastructure and Communities (BRIC), program. These grant programs help provide funding for communities to implement their long-term strategies developed in this plan. For more information about hazard mitigation, the Disaster Mitigation Act or changes from the last update see Section 1: Introduction.

Participating Jurisdictions

Tooele County PDMP was first developed, approved and adopted in 2005 with subsequent revisions in 2016 and 2021. Because natural hazards do not follow jurisdictional boundaries, the historic and exposure analyses used to identify risk and vulnerabilities was completed at the County level, as opposed to each jurisdiction duplicating similar efforts. Jurisdictions participating in the process provided information unique to their local geography, capabilities and mitigation strategies.

The following jurisdictions participated in the 2020 PDMP update process:

Tooele County, Grantsville City, Rush Valley City, Stockton City, Tooele City, Vernon City, and Wendover City.

Local Native American tribes and unicorporated communities were invited to participate in all meetings and to give input throughout the entire process. The community of Stansbury was involved in the planning process, but others were generally represented by Tooele County.

Plan Development

The review, revision and update of Tooele County PDMP was coordinated by Tooele County with technical assistance from the Bear River Association of Governments. Together the two entities worked closely with residents, elected officials, administrators, planners, emergency managers, emergency responders, health departments, state and federal agencies, and other stakeholders from across the region to develop this plan.

The 18-month plan update began in the spring of 2020 and included a series of county-level

meetings, public surveys, and data collection and analyses. Following a 30-day public review in September and October of 2021, the plan was delivered to the Utah Department of Emergency Management and FEMA for review and received an *Approved Pending Adoption* status in the fall of 2020. Due to COVID-19, planning efforts stalled during the spring and summer of 2020 as staff and communities responded to the pandemic. As such, the original plan completion date was delayed from July 2020 to September 2020. For more information about how the plan was completed and who participated see Section 2 Planning Process.

Tooele County Natural Hazards

The plan identified the following natural hazards as impacting the region:

- Alluvial Fans
- Avalanche Terrain
- Climate Change
- Dam Innundation
- Debris Flow
- Drought
- Earthquake
- Erosion
- Flood
- Landslide
- Problem Soils
- Radon
- Severe Weather
- Steep Slope
- Wildfire
- Wildlife/Auto

Natural hazards were identified by reviewing existing plans and studies, and consulting natural hazard experts and local authorities. Using historic hazard data and computer models of hazard locations, natural hazard were analyzed for their impacts on community assets, such as hospitals, police stations, roads, power lines, parks, and homes. This data was used to inform the mitigation strategies developed by each jurisdiction. Once analyzed, natural hazards were ranked based on their probability of occurrence, impacts to people, property, economy and future development. See Section 4: County Natural Hazards, Goals and Capabilities for a description of each natural hazard and Community Section 5 for jurisdiction specific natural hazard information, maps and loss tables.

Countywide Natural Hazard Results

Climate change, drought, radon, and severe weather were analyzed using historic data at the county level. All of these hazards had large extents throughout the county, and potentially severe impacts, based on the resource and many different factors. Overall, climate change, drought, and severe weather are closely tied together, and mitigation strategies should address those collectively. Likewise, these hazards could impact the entire count at some poiint in time. Radon, however, is site dependent and can not be accurately modeled or understood without site-specific testing. As such, there is a substantial risk countywide, but an unknown risk to specific structures and communities.

Jurisdiction Natural Hazard Results

Please see individual risk assessment sections in Section 5 of this document for details regarding potential losses for each jurisdiction including the unincorporated county. Risk profiles for each community show relative risk per hazard, and potential loss tables show detailed figures per each infrastructure, natural systems and building type

Mitigation Strategies

Each participating jurisdiction developed mitigation strategies designed to reduce their community's long-term risk to natural hazards. The strategies reflect the county's mitigation strategy goals and local capabilities. For more information about County goals and capabilities see Section 3: County Natural Hazards, Goals and Capabilities. Strategies were developed to protect current and future residents and property through local planning and regulation, education and awareness, structure and infrastructure projects and natural systems protection policies and projects. For more information on each jurisdiction's mitigation strategies see Section 5: Community Sections organized alphabetically by community.

Strategies Implemented Since 2016

No strategies were implemented in Tooele County or local municipalities between 2016 and 2021. However, several entities plan to apply for funds in 2021 and 2022 to implement strategies from this plan.

Strategies from the 2016 plan were not implemented due to several factors, including:

- Lack of staffing (related to applying for the grants).
- Lack of local funding (no local match to put towards projects).
- Lack of community support.
- Elected/appointed official and staff turnover (no institutional knowledge in some communities).

Implementing Future Strategies

Upon approval from FEMA, each participating jurisdiction will adopt the 2021 Tooele County Region Pre-Disaster Mitigation Plan by resolution. Local governments are encouraged to incorporate mitigation strategies into local plans, including General Plans, Capital Improvement Plans, and other documents. Strategies may be implemented at the discretion of the jurisdiction, and opportunities for cross-jurisdictional collaboration are encouraged.

Funding will be the critical factor impacting the implementation of mitigation strategies. Communities with existing funding, local Capital Improvement Program grants or other funding sources will likely make more significant progress towards reducing their risk. Projects requiring significant funding or additional planning, may be accomplished through strong local and County support. The various FEMA hazard mitigation programs along with other funding sources, such as the Community Impact Board (CIB), can be leveraged together to complete any level of mitigation actions. Jurisdictions are encourage to coordinate with Tooele County, Utah Department of Emergency Management, and FEMA to develop grant projects.

Changing Priorities

No priorities changed during this plan update, with the exception of having goals to apply for pre-disaster mitigation projects in the coming years. This is a big step forward for Tooele County Communities.

Maintaining the Plan

The plan is considered a living document, and will be continuously monitored, evaluated and updated throughout the next 5 years on an annual basis by the Emergency Management office at Tooele County. For more information on how the plan will be monitored, evaluated and updated see Section 3: Implementation and Maintenance. If a jurisdiction wants to update their strategies or any other information in their section of the plan they will have to submit changes to Tooele County Emergency Management. Upon their approval, the jurisdiction can then re-adopt the amended plan.

TABLE OF CONTENTS

Part 1: Plan

Section 1: Introduction 1

Background 2
- Plan Purpose 2
- Plan Goals 3

Plan Development 4
- Planning Process 4
- Local Review and Adoption of the Plan 4

Plan Update and Changes 6
- Changes to the Planning Process 6
- Changes to Plan Layout 7
- Incorporation of Existing Plans, Studies, and Reports 7

Plan Use and Organization 8
- Part 1: The Plan 8
- Part 2: Community Results 9
- Part 3: Reference Documents 9

Section 2: Planning Process and Participation 10

Planning Process 11
- Pre-Analysis 11
- Risk Assessment Summary 12
- Plan Development 14
- Implement and Maintain 15
- Participation 15
- Jurisdiction Participation 15

County Working Groups 15
Other Invites 15
Public Participation 16

Section 3: Plan Implementation and Maintenance 17
Introduction 18
Implementation 18
Funding Sources 18
Integration with Existing Documents 18
Plan Maintenance 19
Continued Pubic Involvement 19

Section 4: County Hazards, Goals and Capabilities 21
Introduction 22
County Natural Hazards 22
Alluvial Fans 24
Avalanche 26
Climate Change 28
Dam Innundation 30
Debris Flow 32
Drought 34
Earthquake 36
Erosion 38
Flood 40
Landslide 42
Problem Soils 44
Radon 46
Severe Weather 48
Steep Slope 50
Wildfire 52
Wildlife 54

NFIP, Repetative Losses, and Community Capabilities 56
National Flood Insurance Program (NFIP) Compliance 56
NFIP Participation..... 56
Repetitive Loss Properties..... 56
Community Capabilities..... 56
Mitigation Strategy Goals 59
Regional Mitigation Strategy Goals 59
Prioritization of Mitigation Strategies 59

Part 2: Community Sections

Section 5: Community Sections 60
5.1 Grantsville City 62
5.2 Rush Valley City 97
5.3 Stockton Town 137
5.4 Tooele City..... 157
5.5 Vernon City..... 224
5.6 Wendover City..... 262
5.7 Unincorporated Tooele County 280
5.7.5.1 Stansbury Park I.D. Mitigation Strategies..... 349

Part 3: Reference Documents

Section 6: Appendices 361
Appendix A: Invitations to Participate 362
Appendix B: Mtg Agendas, Attendance, Handouts, and Public Outreach ... 372
Appendix C: Risk Assessment Survey Results 384
Appendix D: GIS Data References..... 385
Appendix E: Detailed GIS Risk Assessment Methodology..... 397
Appendix F: Historical Hazard Events Database..... 398
Appendix G: 2018 Utah Mormon Cricket and Grasshopper Report 420
Appendix H: Repetitive Loss Table, Morgan and Tooele Counties..... 423

This Page Intentionally Left Blank

SECTION 1
INTRODUCTION

BACKGROUND

Natural hazards are naturally occurring events, such as wildfires, floods and earthquakes that can impact humans. When a natural hazard impacts human life and property, it is considered a disaster. Damages from a disaster can range from no impacts to loss of lives, homes and businesses, and other assets a community determines important to their sustained well-being (e.g., hospitals, schools, roads and power lines). The Federal government has acknowledged the risk natural hazards have on our communities and that mitigation—actions taken to reduce the severity of impacts from a natural hazard—can significantly improve the ability of communities to rebound from such events with less loss and injury to human life and property, and at a much lower cost.

To help communities mitigate their risk to natural hazards, the Federal government passed the Stafford Disaster Relief and Emergency Assistance Act of 1988. The act provided the legal authority for the Federal government to provide assistance to states during declared major disaster and emergencies. Included in the act was grant funding for affected governments to implement long-term hazard mitigation measures. The hazard mitigation section was amended by the Disaster Mitigation Act of 2000 (DMA) to include local governments. The DMA established requirements for local governments to follow to be eligible for certain types of non-emergency disaster assistance, including funding for mitigation projects. In order to be eligible, local communities must submit and update a local hazard mitigation plan every 5 years also referred to as a pre-disaster mitigation plan (PDMP) or hazard mitigation plan. PDMPs provide a process for identifying cost-effective mitigation policies and actions based on assessments of hazards, vulnerabilities, and risk, and the participation of a wide range of stakeholders and the public. By adopting the PDMP communities can:

- Increase understanding of hazards;
- Support risk reduction activities;
- Improve resiliency;
- Eliminates the impact of future events;
- Provides a long-term solution to a problem;
- Offers a cost-effective solution;
- Help avoid repetitive damages from disasters; and
- Build relationships between residents, organization and businesses.

Plan Purpose

The purpose of the 2021 Tooele County Region Pre-Disaster Mitigation Plan is to provide an update to Tooele County (Tooele County) Pre-Disaster Mitigation Plan from 2016 in order to remain in compliance with FEMA Regulations (Section 322 of the DMA). The planning activities will result in a FEMA approved plan update per Part 201 of Title 44 of the Code of the Federal Regulations. This multi-jurisdictional plan update will evaluate the potential impacts, risks and vulnerabilities associated with natural hazards for jurisdictions in Tooele County. The plan will support, identify, describe,

and document potential mitigation projects for municipalities and the unincorporated areas in the county. The suggested actions and plan implementation contained in this document are for local governments to reduce the impact severity of future disasters. This plan will promote sound public policies and projects designed to protect citizens, critical facilities and infrastructure, private property and the natural environment from future natural hazard. This plan will encourage the participation by jurisdictions, the public, tribal groups, state and federal agencies and other private institutions to collect feedback, educate and inform.

Plan Goals

The overall goal of this plan was to coordinate with each participating jurisdiction to develop a planning process that fulfills the components identified in the Local Mitigation Plan Review Tool provided by FEMA, meet the expectations set by the State of Utah, and address the concerns and needs of local jurisdictions. The effort was led by Tooele County with technical assistance from the Bear River Association of Governments (BRAG). Future monitoring, evaluating, updating and implementing will take place as new incidents occur and/or every five years. The PDMP and its strategies will also be incorporated into local planning efforts and plans as appropriate.

The following short- and long-term goals were revised from the 2016 Tooele County PDMP and agreed upon to represent the current and future needs of all municipalities and Native American Reservation lands in Tooele County. These goals form the basis for the development of this plan and the mitigation strategies developed by each jurisdiction. They are shown in order of priority.

Short Term Goals:

1. Protect human life before, during and after the occurrence of a natural hazard;
2. Prevent loss of life and reduce the impact of damage where they cannot be eliminated;
3. Protect emergency response capabilities;
4. Improve communication and warning systems;
5. Improve emergency medical services and facilities;
6. Improve mobile resources;
7. Protect critical facilities and infrastructure;
8. Maintain government continuity during natural hazards;
9. Protect homes, businesses, property, industry, and educational facilities by combining hazard loss reduction with the community's social, economic and environmental needs;
10. Protect natural resources and the environment when determining mitigation measures;
11. Promote public awareness through education of community hazards and mitigation measures; and
12. Preserve and/or restore natural features that provide mitigation, such as floodplains, riparian areas and other open spaces.

Long Term Goals:

13. Eliminate or reduce the long-term risk to current and future human life and property from identified natural and technologic hazards;
14. Aid in both the private and public sectors in understanding the risks they may be exposed to and finding mitigation strategies to reduce those risks;
15. Avoid risk of exposure to identified hazards;
16. Minimization of the impacts of those risks when they cannot be avoided;
17. Mitigation of the impacts of damage as a result of identified hazards;
18. Accomplish mitigation strategies in such a way that negative environmental impacts are minimized;
19. Provide a basis for funding of projects outlined as hazard mitigation strategies;
20. Establish a County platform to enable the community to take advantage of shared goals, resources, and the availability of outside resources; and
21. Establish a framework and database for

PLAN DEVELOPMENT

Planning Process

In the spring of 2020 Tooele County staff began the process of updating their 2016 PDMP. They contracted assistance from the Bear River Association of Governments to update the existing PDMP, including gathering all necessary data, GIS layers, natural hazard information, performing GIS analysis, documenting natural hazards per community and unincorporated counties, determining potential losses, documenting mitigation strategies, and other plan elements according to FEMA Region 8 requirements. Tooele County served as the major point of contact and liaison to all local municipalities and local Native American tribes, scheduled meetings, coordinated with BRAG staff and various stakeholder groups, prepared facilities, assisted in gathering data, and helped in getting the plan adopted by local governments and special service districts.

Tooele County and BRAG worked closely together along with various local, tribal, state, federal and private stakeholders and the public to develop the plan over the next 18 months (see Figure on the next page). Meetings and surveys were used to collect feedback and inform participants and natural hazard specialist were consulted throughout the plan development (see Section 2. Planning Process and Participation for a complete review of how the plan was developed).

All municipalities, tribes and unincorporated communities were invited to participate (see Appendix B for detailed meeting invite and attendance lists). Tribal groups elected not to participate in the plan. This could have been largely due to the COVID-19 pandemic and associated risks. All jurisdictions which either participated in the plan, or were invited to do so, include the following:

- Tooele County
- Grantsville City
- Rush Valley City
- Stockton City
- Tooele City
- Vernon City
- Wendover City
- Other unincorporated communities, including Native American tribes, were also invited to particpatate.

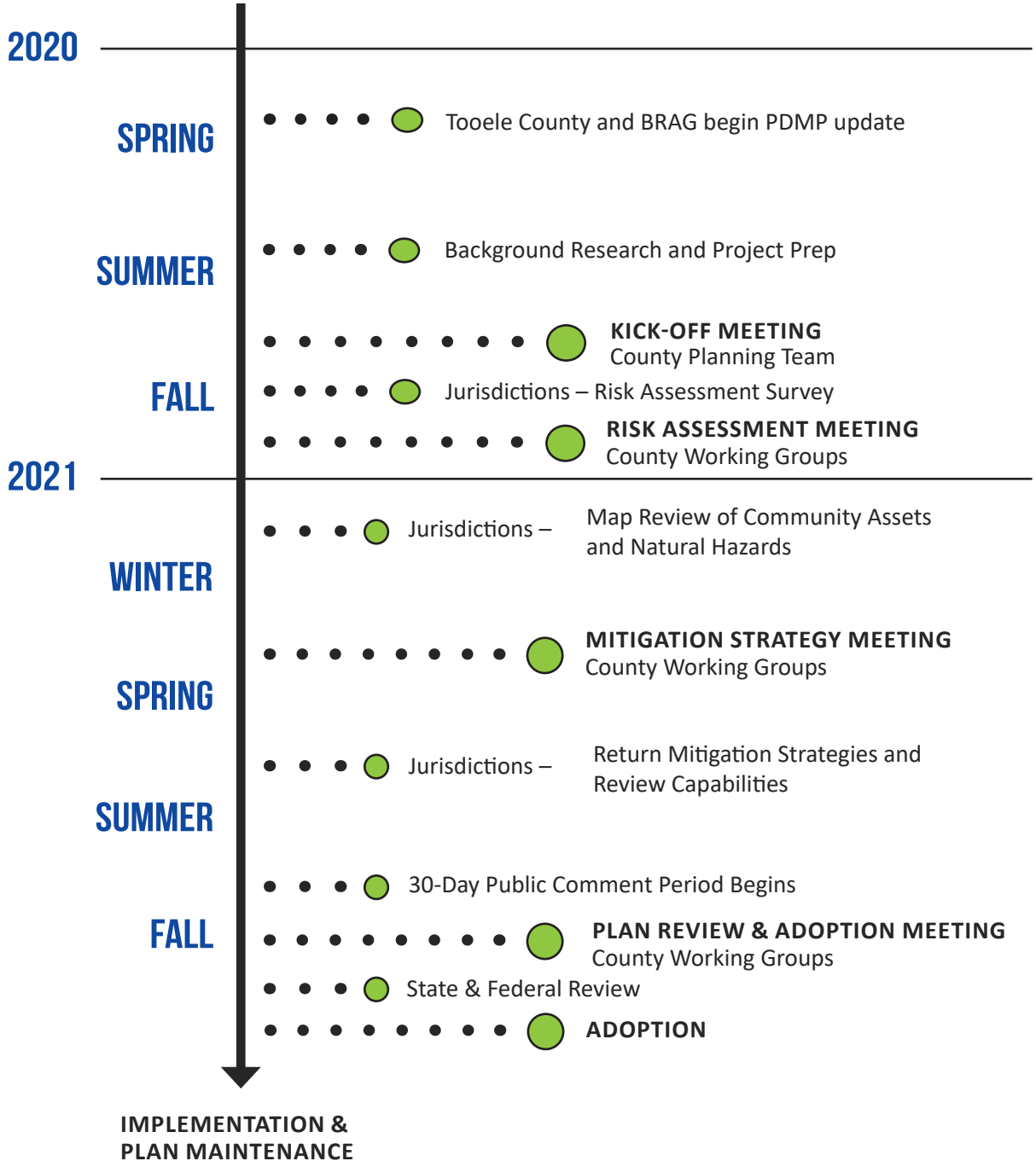
Likewise, outside states, counties, and regional Associations of Governments were invited to participate in the the process, particularly to review the draft plan and provide comments.

Local Review and Adoption of the Plan

On September 17th, 2021, a draft of Tooele County PDMP was put on the Tooele County website, located at https://tcem.org/ and a hard copy was made available at the Tooele County office for viewing. After a 30-day public comment period, feedback from communities, the public, county working groups, as well as the Utah Division of Emergency Management were integrated into the plan.

The draft plan was then sent to FEMA Region 8 for review. After revisions to the draft plan were completed, letters were sent to each jurisdiction explaining the benefits of adopting the FEMA-approved plan and encouraging them to adopt it. Blank promulgation forms were sent to chief elected officials for each jurisdiction asking them to adopt the plan and send the completed forms to Tooele County for inclusion as an appendix in the plan. The final plan was made available on the Tooele County website found at https://tcem.org and a hard copy of it was also made available at the Tooele County office for viewing.

To the right is a generalized timeline for the 2021 update of the Tooele County Pre-Disaster Mitigation Plan.



PLAN UPDATE AND CHANGES

During the 2016 update, the plan and process lacked certain resources, data, maps and staff capabilities. As such the plan had some inconsistencies and lacked a thorough evaluation of the potential impacts, risks and vulnerabilities of natural hazards. Therefore the emphasis of the 2021 PDMP update was not only to improve the resources, data and maps, but to also increase the number of projects in the region. To accomplish this the planning process and plan layout were significantly changed. The risk analysis in particular was improved substantially, provide much more detailed potential loss tables for each participating jurisdiction. Likewise, an online suplimentary online plan was created to compliment this plan document.

Changes to The Planning Process

The planning process was configured to ensure consistent participation throughout the entire process and improved data. To improve the consistency of the process and participation, a timeline was followed, and meeting times and places were set up to be centrally located and at time sensitive to participants' lives. Likewise, with COVID-19 provide challenges for in-person participation, some meetings were held virtually.

Increased Methods of Participation

A variety of formats were used to disseminate information and collect feedback, including: Surveys, web maps, natural hazard experts, and online surveys/workbooks. A risk assessment survey was used to collect community capabilities, and to identify community assets and natural hazards to focus the risk analysis. Google Earth Pro was used to collect feedback about natural hazard and community asset locations. Natural hazard experts from the state were consulted for data and strategies and presented at meetings to educate participants of risk and resources. Risk assessment and mitigation strategy online surveys/workbooks were provided to each jurisdiction to review their community's risk and vulnerabilities and to develop mitigation strategies. The survey's/workbooks made it possible for representatives to discuss risk, vulnerabilities and actions with their community and elected officials.

Improved Data and Analysis

To improve the risk assessment, spatial and historical data was updated, expanded and created. This data was used for redefining the natural hazards in the region and for completing the GIS exposure analysis and historic occurrence analysis. The improved analyses meant that hazard specific maps and loss tables were created for each jurisdiction.

New Hazards

Avalanche, liquefaction, radon, problem soil and wildlife were added to the natural hazards assessed and mitigated. Avalanche, liquefaction, radon and wildlife were all addressed at the county level because there was no data to map their spatial extent. Instead historical analysis was completed for them. Wildlife was added due to the high volume of wildlife-vehicle collisions.

Participants were notified that wildlife was not be eligible for FEMA hazard mitigation grants. Problem soils were added because of their prevalence and availability of spatial data.

Changes to Plan Layout

The primary goal of updating the layout was to improve the consistency, readability and usability of the plan. This was accomplished by putting the methodology or how tasks were completed in the planning process section. The planning process section included details on how the analysis was completed, how strategies were prioritized and who was invited and participated in the plan. The bulk of the plan was then used to present the results of the risk assessment and updated mitigation strategies.

The risk assessment and mitigation strategies sections were combined so a jurisdiction could find all their risk, vulnerabilities, capabilities and strategies in one location. In addition, a risk summary table was provided for each jurisdiction that provided a quick and simple snapshot of the level of risk in the community based on the probability a natural hazard would occur in the future, and the impacts to population, property, economy and future development if it did occur.

A County capability assessment was developed in addition to the jurisdiction specific ones because a lot of the communities are similarly positioned on what and how they can reduce loss.

General County data, including demographics, geographic and physiographic background, climate and geology were removed from the plan. Pieces of that information were included in the natural hazard definitions.

Incorporation of Existing Plans, Studies, and Reports

The following plans, studies and reports were referenced and studied as part of the plan update.

- Tooele County Human Services Coordinated Plan, 2016
- 2019-2050 Regional Transportation Plan (Wasatch Front Regional Council)
- Tooele County Active Transportation Implementation Plan, 2018
- Tooele County General Plan Update, 2016
- Tooele County Transportation Plan, 2015
- Tooele County; County Wildfire Preparedness Plan, 2018
- Wildlife Connectivity Across Utah's Highways - Updated, 2017

These plans and documents were incorporated mostly by reference, and Tooele County would like to integrate hazard mitigation elements in future updates of these plans. Wildlife connectivity documents and data in particular were directly integrated into the risk analysis for variuos jurisdictions.

PLAN USE AND ORGANIZATION

This plan should be used to help local elected and appointed officials plan, design, and implement programs and projects that will help reduce their community's risk and vulnerabilities to natural hazards. This plan should be used to facilitate inter-jurisdictional coordination and collaboration related to natural hazard mitigation planning and implementation. This plan should be used to develop or provide guidance for local emergency planning. Finally, if adopted, the plan will bring communities in compliance with the Disaster Mitigation Act of 2000, qualifying jurisdictions to apply for funding for pre-disaster mitigation projects and for receiving federal aid in the event of a presidentially declared disaster. See Section 4: Implementation and Plan Maintenance for an overview on FEMA hazard mitigation grants.

The plan is broken into 3 parts with accompanying sections. Part 1 is the plan, which includes sections 1-4. Part 2 is the community section, which includes sub-sections for each community with associated risk assessments. Part 3 is reference material and other supplementary documents, which is section 11 and appendix A-D.

Part 1: The Plan

Section 1: Introduction

The Introduction describes the need to plan for natural hazards, why plan for natural hazards, the plan's purpose and goals, and changes since the last update.

Section 2: Planning Process and Participation

The Planning Process and Participation section is a detailed overview of how the plan was developed, including how natural hazard were defined, how the risk analysis was completed, and how risk was ranked. This section also includes who was invited and participated in the plan, and how the public was used throughout the process.

Section 3: County Natural Hazards, Goals and Capabilities

The County Natural Hazards, Goals and Capabilities section describes the location, extent, previous occurrences and probability of future occurrences natural hazards in the region. It also discusses County goals and capabilities.

Section 4: Implementation and Plan Maintenance

The Implementation and Plan Maintenance section includes a description of how the plan will be integrated into other planning mechanisms, how the plan will be implemented, how the plan will be maintained, and how continuos public involvement will be sustained.

Part 2: Community Results

Section 5: Community Sections

Community Sections include each jurisdiction's risk, vulnerabilities, capabilities and mitigation strategies. This includes maps showing natural hazard locations and extents, as well as potential losses for each participating jurisdiction. Mitigation strategies for each community are also included in this section, as well as risk to potential future development.

Part 3: Reference Documents

This part includes all supplementary documents that support the main document.

Section 6: References

Appendix A: Invitations to Participate
Appendix B: Meeting Agendas, Attendance, Handouts, and Public Outreach
Appendix C: Risk Assessment Survey Results
Appendix D: GIS Data References
Appendix E: Detailed GIS Risk Assessment Methodology
Appendix F: Historical Hazard Events Database
Appendix G: 2018 Utah Mormon Cricket and Grasshopper Report
Appendix H: Repetitive Loss Table, Morgan and Tooele Counties

Section 2

PLANING PROCESS AND PARTICIPATION

PLANNING PROCESS

The planning process for Tooele County Pre-Disaster Mitigation Plan (PDMP) was adapted from the *Local Mitigation Planning Handbook* (FEMA, 2013). The planning process followed five major steps: pre-analysis, risk assessment, mitigation strategy creation, plan development, and implementation and maintainenance of the plan. The process was developed to be continuous and iterative to allow new information to be integrated into the process over the next five years. Participation by the public and stakeholders were critical to the entire process and was sought during each step of the process. The following sections describe in detail how each step of the process was completed, and is followed by who and how participation in the planning process occurred.

The plan was developed over an 18-month period beinning in the fall of 2020 and ending in the fall of 2021. Due to COVID-19 the planning process was delayed to a certain extent as communities responded to the pandemic. As such the completion date of the plan was pushed back from August to October.

Pre-Analysis

The pre-analysis step was used to establish the scope of the project, to form an initial understanding of the natural hazards affecting Tooele County, and to understand the issues and opportunities in the region related to natural hazard planning. This was accomplished by reviewing related PDM documents, forming a County Planning Team, and holding the County Kick-Off Meeting.

Document Review

The following PDM related documents were reviewed in order to develop the initial Tooele County Region PDM planning process and to develop an preliminary list of natural hazards and community assets in the region:

- Local Mitigation Planning Handbook (FEMA, 2013
- Pre-Disaster Mitigation 5-Year Plan (Tooele County [Tooele County], 2015)
- Local Mitigation Plan Review Tool (Tooele County, 2015)
- Pre-Disaster Mitigation Plan: Bear River Region, Utah (Bear River Association of Governments [BRAG], 2015)
- 2019 Utah State Hazard Mitigation Plan (Utah Division of Emergency Management [UDEM], 2019)

County Planning Team

Once the project scope was established, Tooele County and BRAG staff identified and invited representatives from each community and partnering organization to form the County Planning Team, including county and local elected officials and planners, state and local emergency managers, and state and federal land managers.

County Kick-Off Meeting

The County planning team met in at the County kick-off meeting on September 15, 2020 to:

- Inform them on pre-disaster mitigation planning by State Hazard Mitigation staff
- Help inform Tooele County PDM planning process
- Receive input on the natural hazards and community assets to analyze
- Understand the issues experienced during the 2016 PDMP update
- Identify people and organizations to invite to participate in the County Working Group

Risk Assessment Summary

The risk assessment step was used to determine the potential impacts of natural hazards to the people, economy, and built and natural environments of Tooele County, and to provide the factual basis for the mitigation strategies. This included collecting input on the risk assessment, natural hazard research and data collection, and conducting the risk analysis.

Risk Assessment Input

The risk assessment input step was used to gather additional information and comments about which natural hazards and community assets to analyze in the risk assessment as well as to further develop Tooele County PDM planning process. This was completed through county working group risk assessment meetings and a risk assessment survey.

County Working Groups

Based on input from the County planning team, a county working group was formed. This group was comprised of county and local elected officials, emergency managers, administrators, planners and GIS personnel, school districts, the public, and state and federal land managers that operated in the county.

Risk Assessment Survey

Once a county working group was formed, a risk assessment survey was sent out to local government officials. The survey was used to gain input on what natural hazards and community assets to include in the risk assessment, and what current capabilities (e.g., general plan, municipal codes, zoning etc.) were in place to protect their community from natural hazards.

Risk Assessment Meetings

A county working group risk assessment meeting was held on November 19, 2020. This meeting was used to inform county working group members and the public about:

- Tooele County PDM planning process
- Natural hazards that exist in and around Tooele County
- A review and discussion of the risk assessment survey results
- Primer on how the need to create good mitigation strategies

Research and Data Collection

After collecting input from the county working group, natural hazards were researched, and natural hazard and community asset data was collected and organized into maps and tables to prepare for the risk analysis.

Natural Hazards Research

Input from the County planning team, the county working group, and the risk assessment surveys were used to create an updated the list of natural hazards. Next state and federal natural hazard experts were consulted to understand those natural hazards, to find out if any other hazard existed in the region, and where to find data to analyze them.

Based on the updated list of natural hazards and the information collected from the natural hazard experts, local and County natural hazard reports, related planning documents, and websites were reviewed to describe each natural hazard, including:

- Community Wildfire Preparedness Plans
- FEMA Flood Insurance Studies
- Local and County General Plans
- Utah Geological Survey Reports on faults, flood, landslides, liquefaction and problem soils
- 2019 State of Utah Hazard Mitigation Plan
- Hazards.utah.gov

The natural hazard research provided the basis for which natural hazards to include and not to include in the plan.

Data Collection and Organization

After finalizing which natural hazards to include in the plan, the best available natural hazard and community asset data were collected from national, state and local data sources for the risk analysis. Spatial data was organized in the software ArcGIS Pro by Esri, and hazard history data was organized into tables in Microsoft Excel.

Community asset data was organized into different categories and mapped. Community asset maps were created in Google Earth Pro and sent out to each jurisdiction for a final review before conducting the risk analysis. Comments were collected and community asset data were updated accordingly. Due to the sensitivity of some community asset data, their locations were kept out of the plan. Contact Tooele County staff or the county emergency manager to request a copy of their locations.

Extent maps were used to display the relative area a natural hazard could impact (see Section 5 to view maps). To provide a robust analysis, some natural hazards had multiple maps to provide additional information. Additionally, some natural hazard event maps were derived from maps that displayed a range of risk or threat. In those cases a range of event criteria were selected to represent the natural hazard event. For example, moderate to high wildfire threat areas were grouped together and considered the wildfire event.

Natural Hazard Descriptions and Evaluations

Before analyzing each jurisdiction's risk, natural hazards were defined for the region. Information collected during the data research and collection step was used to define each natural hazard in terms of its location, timing, occurrence and impact.

Location was determined based on currently available best quality date collected from a variety of sources (see Appendix D for details). Some hazards, such as severe weather, have extents that are regional in nature and cover the entire county.

Timing is the temporal potential for sever events to occur, i.e. how long it takes for ominous clouds to create a microburst in Tooele City once the skys begin to cloud over.

Occurrence was the likelihood of a natural hazard occurring in the next year and was based on its recorded history. It was calculated as a percentage by dividing the number of years the natural hazard has been tracked by the number of times the natural hazard has occurred.

**Note: probability of occurrence was also used in the jurisdictional risk assessment section and was defined differently than the probability of occurrence definition used above.*

Impact was the potential damage as a result of a natural hazard occurring. It is described in terms of severity which is the relative measure of the damage caused by a natural hazard and included the following categories:

Minor/Limited: limited and scattered property damage, limited damage to public infrastructure and essential service not interrupted, limited injuries and/or fatalities.

Serious: scattered major property damage, some minor infrastructure damage, essential services are briefly interrupted, some injuries and/or fatalities.

Severe: widespread major property damage, major public infrastructure damage (up to several days for repair), essential services are interrupted from several hours to several days, many injuries and/or fatalities.

Catastrophic: property and public infrastructure destroyed, essential services stopped, numerous injuries and/or fatalities.

Risk Assessment

After defining the natural hazards, a combination of historical and exposure analyses were completed for each jurisdiction. Due to data limitations the following natural hazards only included a historical analysis: among them were drought, radon, severe weather. The historic analysis was used to predict potential impacts and losses during similar future events by using the historic occurrence databases provided in Appendix F.

Historical and exposure analyses were conducted for all hazards with available GIS data (See Appendix D for details). The exposure analysis involved identifying which community assets were located in identified natural hazard areas. This was completed in ArcGIS Pro—an ESRI GIS analysis software—by overlaying the location of a natural hazard with a jurisdiction's community assets. For jurisdictions that had natural hazards with multiple event maps, the event map with the highest area impacted was used. This way jurisdictions could plan for the worst case scenarios.

The number of community assets that were found in the natural hazard areas were totaled and recorded in various tables for each community. Loss estimates were calculated for housing units and businesses based on local estimates.

Mitigation Strategies

The mitigation strategies step was used to identify and prioritize actions to reduce the risk of natural hazards to a jurisdiction. This was completed by holding a county-level mitigation strategy meeting, and developing risk analysis summaries.

Prioritizing Local Mitigation Strategies

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 resources, staffing, and other constraints. Recurrence intervals, past events, and damage estimates compiled during the risk assessment in this plan were also considered. Overall, each community individually considered their own capabilities and resources as they prioritized each strategy. Strategies were considered a higher priority if there was adequate funding, staff, and elected official support. Moderate-priority strategies may only have two out of three, and low-priority strategies may only have one. Without adequate community staffing and elected official support, for example, projects are not very likely to be implemented.

Mitigation Strategy Meeting

A mitigation strategy meeting was held with the county working group to:

- Learn how to develop mitigation strategies from FEMA and Utah DEM staff
- Review the risk analysis results and discuss the historical analysis only natural hazards
- Learn how to interpret risk analysis results and develop mitigation strategies
- Provide hard and digital copies of the community workbooks to take back to their communities and discuss

Revised Capability Assessments

See Section 4 for updates on community capabilities.

Plan Development

This step was utilized to write, review, approve and adopt the plan. This included creating and reviewing the plan, approval from the Utah DEM and FEMA, and adoption by each participating jurisdiction.

Create and Review Plan

Mitigation strategies were collected, reviewed and revised as a draft of the plan was created. After an internal review, the draft plan was

opened to a 30-day review by the public. The County planning team, county work group and jurisdictions were also given the opportunity to review and submit plan comments.

Comments were collected and an updated draft plan was created before holding a county-level plan adoption meeting. The plan adoption meeting was held to:

- Inform jurisdictions on how to apply for funding
- Establish how the plan will be maintained, including:
- Tracking the progress
- People and agencies responsible for monitoring, evaluating and updating the plan
- Methods for continued public involvement
- Collect any additional comments on the plan

Utah DEM and FEMA APPROVAL

After a final revision based on the plan adoption meetings, the plan was submitted on September 17, 2021 to the Utah DEM for review and approval. Based on Utah DEM comments, the plan was updated and then submitted to FEMA for review and approval. Comments from FEMA were integrated into the final plan.

Plan Adoption

Once the plan was approved by the Utah DEM and FEMA it was sent out to each jurisdiction for official approval. The plan is expected to be adopted by participating jurisdictions in the fall of 2021. A copy of all resolutions for adoption will be maintained on file with the Tooele County staff, and each jurisdiction will maintain its own resolution with its records.

Implement and Maintain

Following the adoption, the plan entered into a 5 year period of implementation, monitoring, evaluating and updating.

Participation

A variety of local, county, tribal, County, state and federal stakeholders were invited to participate in the planning process to collect a wide array of knowledge and opinions as well as to inform and educate. The plan relied on 3 levels of stakeholder group participation: the County planning team, the county working group and the public.

Jurisdiction participation

All jurisdictions were invited to participate in the plan either by attending meetings, responding to surveys or direct communication with the Tooele County Emergency Manager, including:

Tooele County, Grantsville City, Rush Valley City, Stockton City, Tooele City, Vernon City, and Wendover City. Unincorporated communities, such as Stansbury Park, and local Native American tribes were also invited to participate.

County Working Group

A Tooele County working group was formed and included Grantsville, Rush Valley, Stockton, Tooele City, Vernon, and Wendover. Unincorporated communities and Native American tribes were also invited to participate. The group consisted of the participating jurisdiction's representative(s), local government staff, county emergency manager, local responders, federal land managers, and any other group interested or invested in the county. County working groups were used to collect feedback, and present information and results (see Appendix B for each meeting's agenda and sign-in sheet).

Other Invites

To ensure a robust participation in the planning process, county and local emergency managers, emergency responders, planning

staff, zoning and building administrative staff, GIS staff, County health department staff, universities and school district leaders, and federal and state land managers were invited (see Appendix A for details). In addition, County governments from around the state, neighboring counties and states, and other natural agencies involved in natural hazard actives were invited to participate.

Public Participation

The general public was also invited to participate throughout the planning process, and to review the draft through announcements in the newspaper and the Tooele County website. Comments were submitted to Tooele County staff for integration into the planning process and final plan.

Newspaper Announcement

A newspaper anncounement inviting the public to participate in the planning process was posted in late September of 2019. Announcements were posted in the local newspaper (see Appendix A for a copy of the newspaper announcement.).

Website Announcement

An announcement was posted on the main page of the Tooele County website throughout the entire update process as well as the State of Utah public meetings website. The announcement stated the purpose of the plan, invited people to participate, and provided contact information for more information (see Appendix A for a copy of the announcement).

Invitation to Comment on Draft

On September 17, 2021 the draft of Tooele County PDMP was put on the Tooele County website, located at https://tcem.org/ and a hard copy was made available at the Tooele County office for the public to review and comment on the draft. Comments were provided to BRAG staff for inclusion in plan.

After the 30-day public comment period, feedback from communities, the public, county working groups, as well as the Utah Division of Emergency Management were integrated into the plan.

Section 3

IMPLEMENTATION AND PLAN MAINTENANCE

The following section provides a description of how mitigation strategies will be implemented by participating jurisdictions, how the plan will be maintained, including plan monitoring, evaluation and updating, and how the public will continue to be involved in the pre-disaster mitigation planning process over the next 5 years.

Implementation

Strategies developed by participating jurisdictions may be implemented at the discretion of each jurisdiction, and opportunities for cross-jurisdictional collaboration are also encouraged.

Funding will be the critical factor impacting the implementation of mitigation strategies. Low-cost strategies or those with existing funding through local Capital Improvement Programs or other funding sources offer opportunities for jurisdictions to make immediate progress towards reducing their risk. Projects requiring significant funding or additional planning, may be accomplished through strong local and County support. The various FEMA hazard mitigation programs along with other funding sources can be leveraged together to complete any level of mitigation actions (see Integration with Existing Plans below). Jurisdictions are encourage to coordinate with Tooele County, Utah Department of Emergency Management, and FEMA to develop grant projects.

Each action has been assigned to a specific person or local government office that is responsible for implementing that action. Since each jurisdiction has specific mitigation actions that will be implemented, they have adopted their locally specific Community of the plan separately. Jurisdictions may update their specific section of the plan by submitting it to the Planning and Community Development staff at Tooele County. A review will be conducted by the Tooele County staff. Upon their approval, the jurisdiction can then re-adopt the amended plan. Any changes to data, maps, actions, priorities, etc. are welcomed throughout the next 5-years.

Funding Sources

In addition to the various FEMA hazard mitigation grants that communities are eligible to apply for (visit https://www.fema.gov/grants/mitigation for more information) there are other funding sources that communities can use independent of the FEMA grants or in addition to the grants. Communities are encouraged to contact Tooele County staff for additional grant sources and resources. In addition, the Utah Rural Coordinating Council provides an extensive inventory of rural resources and assistance opportunities (visit sites.google.com/utah.gov/rural/resources).

Integration with Existing Plans

It will be the responsibility of each participating jurisdiction to determine additional implementation procedures. This includes integrating the plan into other planning documents where appropriate. It is

encouraged that jurisdictions integrate their mitigation strategies into existing planning documents, including, but not limited to:

- General Plan
- Land Use Ordinances and/or Zoning codes
- Subdivision Ordinances
- Capital Improvement Plans
- Economic Development Plans
- Stormwater Management Plans
- Floodplain Management Plans
- Natural resource protection plans
- Wildfire protection plans
- Emergency Operation Plans
- Parks and Open Space Plans

Plan Maintenance

Plan Monitoring

The implementation of the plan will be tracked annually approximately 2 to 3 months before the hazard mitigation grant applications are due. During this time, Tooele County staff will survey the progress of all jurisdictions towards completion of mitigation actions, including which actions have been completed, any obstacles or impediments to implementing actions, any actions that are no longer feasible, and any other comments from them on the plan and their progress. Staff will provide a summary of completed strategies and community comments to the Tooele County Commissioners for review. The commission will make recommendations based on the review as to changes in monitoring and/or updating the plan.

Plan Evaluation

The plan will be evaluated on an ongoing basis by the Tooele County staff, with a formal review taking place once a year, in conjunction with the annual plan monitoring review. The formal evaluation will include a review of:

- Natural hazard event that has occurred in the past year and if any action is needed in communities impacted
- Mitigation actions that have been implemented
- Identify any mitigation actions to prioritize for the next year
- Identify communities needing assistance in implementing and/or applying for funding
- Update any changes to funding options and planning policies related to the PDMP process and grants
- Any significant new data or maps that affects the accuracy of the analysis or information in the plan
- Any staff or elected official turnover

Plan Update

The plan will be updated by Tooele County staff, contingent upon receiving funding for the planning effort. This effort will take place towards the end of the five year period to ensure that the plan remains compliant with state and federal regulations. In addition, continual data gathering based upon ongoing activities that closely align with other Tooele County programs will take place and be applied to the updated plan.

Tooele County staff will work with individual communities and counties throughout to ensure all hazard mitigation grant applications are pursued based on approved strategies from the plan. If a community needs to change or add mitigation strategies or any other amendment to their community section, they will have to submit changes to Tooele County, County Council for review and approval.

Continued Public Involvement

Throughout the next 5 years the public will be continuously notified of plan updates and be invited to participate in reviews of the plan evaluation, monitoring and updating. In addition, Tooele County will encourage communities to continue to educate and inform residents about natural hazard mitigation.

Annually, a presentation based on the plan monitoring and evaluation will be given to

the public at an appropriate Tooele County commission meeting. Public comments will be solicited through area newspapers and the Tooele County website. The public will be able to submit comments in-person, over the phone, via e-mail or written response.

The public will be encouraged to provide feedback at any time throughout the 5 year period on the Tooele County website, which will also host the most up-to-date version of the plan. Any new updates to the plan will also be announced through their website. A hard copy will also be available at their Tooele City office.

As mitigation actions become implemented, interesting and inspiring projects will be highlighted through various public and elected official notifications, such as the Tooele County website, the Utah Community Development Office newsletter, the American Planning Association Utah Chapter newsletter, local newspapers, and other public interfacing websites and newsletters. In addition, as tools and other resources become available they will also be advertised by Tooele County via newsletters, e-mail and website posting. In particular, a natural hazard viewer is being developed for the State of Utah for public viewing. Residents and officials will be notified once this invaluable tool is released.

Section 4

COUNTY HAZARDS, GOALS AND CAPABILITIES

The county natural hazards, goals and capabilities section provides a definition of each natural hazard analyzed in this plan, a list of shared county goals, and a description of county and local capabilities.

County Natural Hazards

Tooele County contains 16 hazards, identified in this plan, that impact at varying degrees all of cities and town within the area. The following county natural hazard definitions are intended to provide a basic understanding of how they occur, where they occur, when they occur, how often they occur, and their impacts on the people, property and natural environment in the region. Maps of the natural hazards and historic occurrence were also included along with their source, event criteria, and limitations. Due to data limitations, avalanche, severe weather and wildlife have only historic occurrences, and drought and radon have no maps.

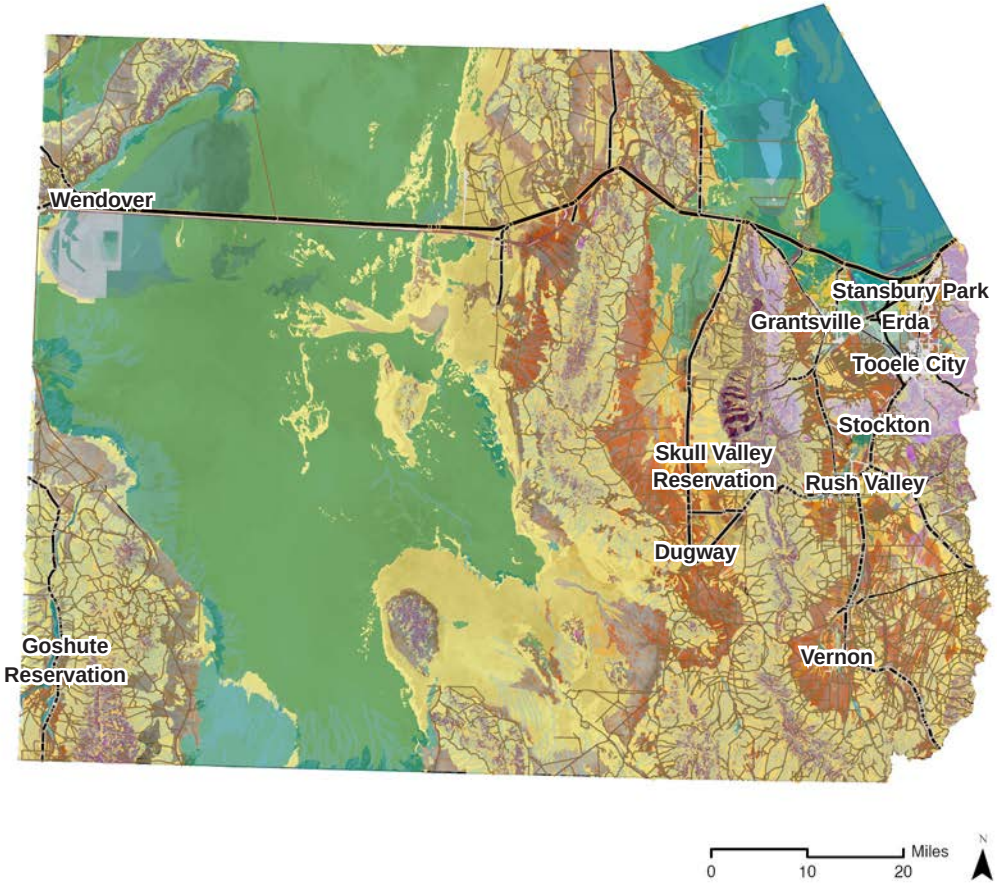
Rating hazard risks for the county and each community

Each hazard was rated for each community as well as the county as a whole. This risk was classified generally as high, medium, or low based on the extent of the hazard area, frequency of past occurences, and the severity of past hazard events, including damages and losses from those hazards. Since data was limited for most hazard events, these ratings were generalized qualitatively, but informed by quantitative data where possible.

Mapping and GIS Data Disclaimer

Maps created for the Tooele County Pre-Disaster Mitigation Plan are provided "as is." The Bear River Association of Governments (BRAG) and the Tooele County assume no responsibility for errors or omissions. Users of these maps and data assume the entire risk associated with their use. BRAG and Tooele County shall not be held liable for any use or misuse of the maps and data described and/or contained herein. These maps and data are provided for informational purposes only and were not prepared for, or may not be suitable for legal, engineering, or surveying purposes. Users of this information should consult the primary data and information sources to ascertain the usability of the information (see Appendix D for GIS data references).

ALLUVIAL FANS
AVALANCHE
CLIMATE CHANGE
DAM INUNDATION
DEBRIS FLOW
DROUGHT
EARTHQUAKE
EROSION
FLOOD
LANDSLIDE
PROBLEM SOILS
RADON
SEVERE WEATHER
STEEP SLOPE
WILDFIRE
WILDLIFE/AUTO



ALLUVIAL FANS

Description

"An alluvial fan is a fan-shaped area where silt, sand, gravel, boulders, and woody debris are deposited by rivers and streams over a long period of time. Alluvial fans are created as flowing water interacts with mountains, hills, or steep canyon walls. Sediment and debris can be deposited over time by powerful rivers or small creeks. The top, or narrow point, of the alluvial fan is called the "apex," and the wider portion is called the "apron" or "cone." Alluvial fans can be small or large, depending on the historical water flows." (https://slco.org/contentassets/908d08705b834358a5261a60a0aab9f2/neffs_sheet2.pdf)

Alluvial Fan Hazard in Tooele County

Mapping of alluvial fans in Tooele County is limited. The majority of identified alluvial fans are present in the foothills of the Oquirrh Range on the eastern side of the county. As this study is being conducted efforts are being made to map alluvial fans south and west of the Granstville area. Initial findings indicate that alluvial fan formation is persistent to the southwest. These formation likely contribute to ground water flooding events within Grantsville City.

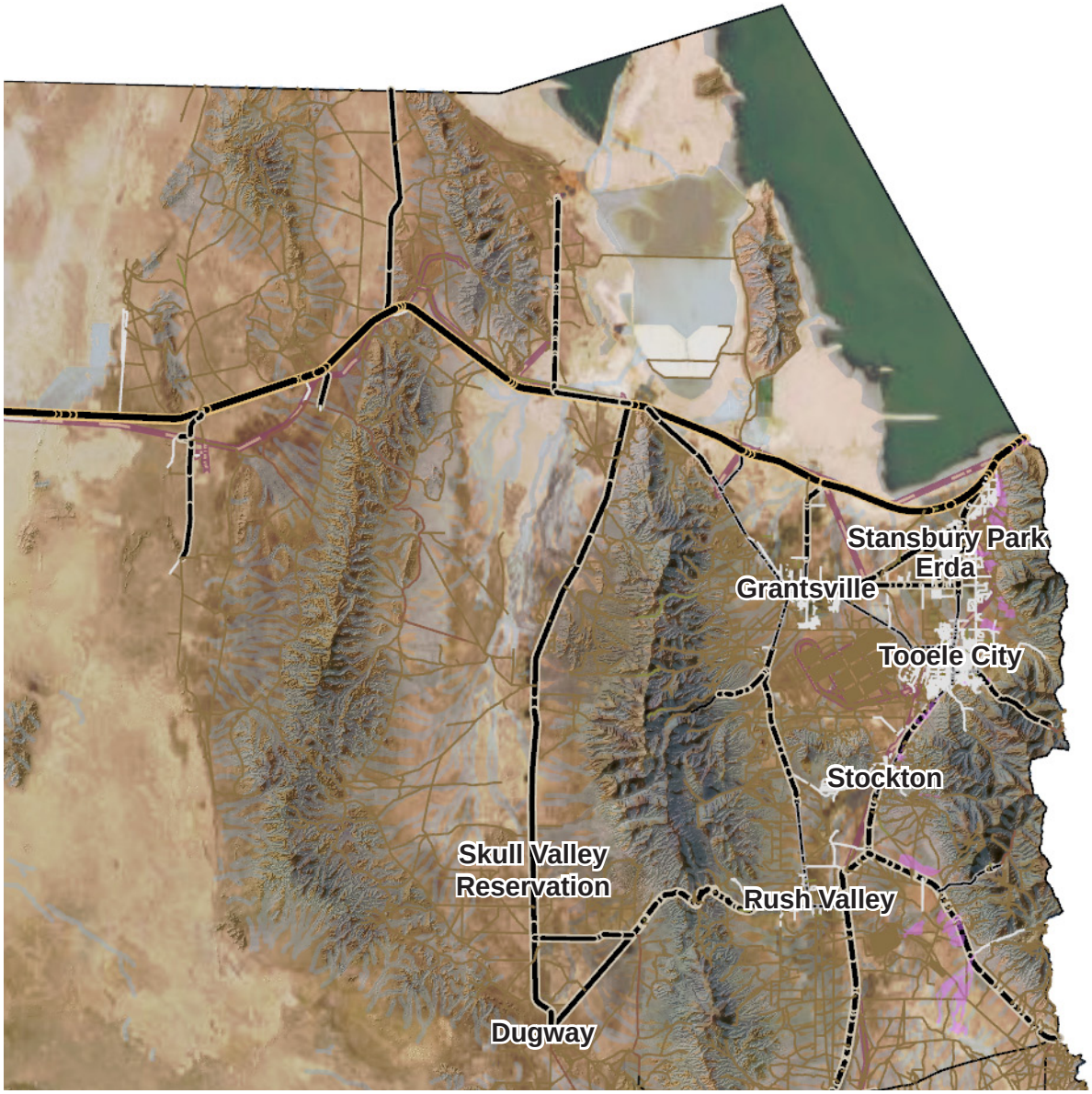
No significant events involving alluvial fans in Tooele County have caused damage in Tooele County to date.

Tooele County Goals

Alluvial fans play an important role in the hydrologic cycle. Watershed functionality within the county rely on alluvial fans to distribute flood water energies during storm events, and distribute water runoff into Aquifers for long term storage.

County Goals for alluvial fans are:

- Avoid residential, commercial and industrial development within identified alluvial fans.
- Seek alternative uses for alluvial fans with reduced negative impact on flood hazard and water quality.



Alluvial Fans - Pink areas represent alluvial fan risk data (courtesy of the Utah Geological Survey).

Hazard Profile

Location

Area of Impact	Drainage Basins and Foothills

Timing

Duration	Single event to long term damage to aquifer system
Speed of Onset	Moderate
Seasonal Pattern	Annual

Occurrence

Frequency	Geologic Formation
Probability of Future Occurrence	High

Impact

Severity	Severe

RELATED HAZARDS

Flood Events

Planning Resources

UTAH GEOSPATIAL RESOURCE CENTER UGRC:
https://gis.utah.gov/data/geoscience/alluvial-fans/

AVALANCHE HAZARD INFORMATION:
https://utahavalanchecenter.org/

AVALANCHE

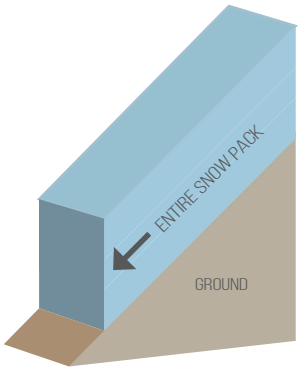
Description

An avalanche is a rapid flow of snow down a hill or mountainside. They can occur when stress from gravity pulling snow downhill exceeds the strength of the snow cover.

Avalanche Types

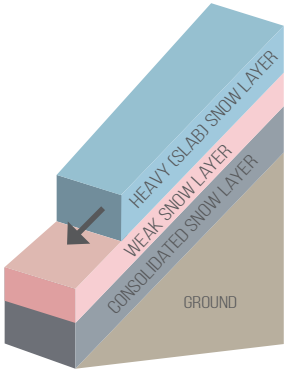
Gliding

Gliding avalanches occurs when the entire snowpack slowly slides as a unit over the ground. This can occur with wet, moist, or almost entirely dry snow usually on steep slopes (around 40° or greater) with relatively smooth ground surface.



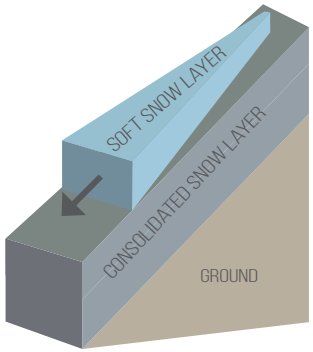
Slab

Slab avalanches occur when a slab of snow on the surface detaches from a weaker snow layer underneath. The slab layer becomes heavier than the weaker under layer of snow either because the slab layer becomes wet and heavy from quickly warming conditions, or hard and heavy over time due to wind drifts or old, hardened layer of snow.



Loose

Loose avalanches occur when dry, uncompacted snow releases from a point, and spreads out downhill collecting more snow, forming a fan shape.



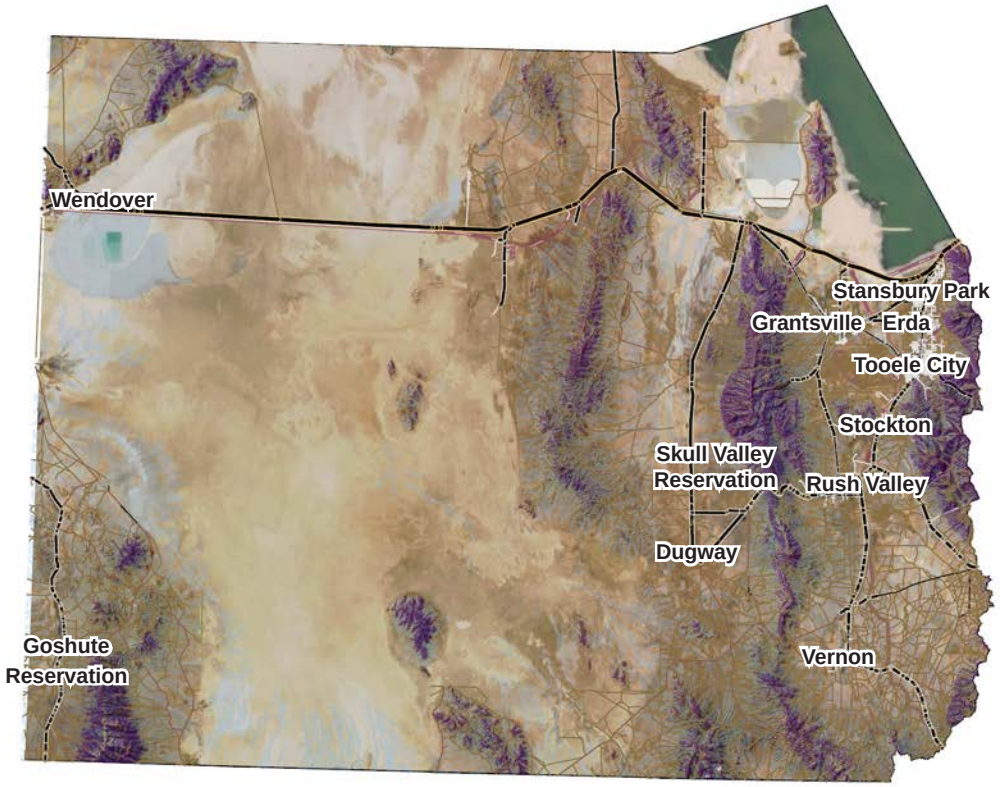
Avalanches in Tooele County

Avalanches generally occur between a slope of 35° and 45°, above timberline, and away from prevailing winds. In the Tooele County Avalanche deaths have been relatively rare. Most deaths are backcountry recreationist between the months of November and April. As the popularity of backcountry recreation increases, so will risk in Tooele County.

No significant avalanches have caused damage in Tooele County to date.

Tooele County Goals

- Coordinate with local and federal organizations to make avalanche safety information and resources available to recreators in the county.



Avalanche Terrain

0 10 20 Miles

N

- Purple areas represent avalanche risk terrain, and includes steep slope and vegetation communities with dispursed shrubs, grasses, and bare ground.

Hazard Profile

Location

Area of Impact	Isolated

Timing

Duration	Seconds to minutes
Speed of Onset	Seconds
Seasonal Pattern	Late fall through spring

Occurrence

Frequency	High
Probability of Future Occurrence	High

Impact

Severity	Minor

RELATED HAZARDS

Earthquakes can trigger an avalanche

Planning Resources

UTAH AVALANCHE CONDITIONS:
https://utahavalanchecenter.org/

AVALANCHE HAZARD INFORMATION:
https://utahavalanchecenter.org/

CLIMATE CHANGE

Description

Climate change is a long-term shift in climate patterns. For the purposes of this plan, climate change refers to the rise in global temperatures which affects local weather variations. Although not considered a natural hazard on its own in this plan, rising temperatures affect and amplify the location, timing, occurrence and impacts of most natural hazards (National Academy of Sciences, Engineering, and Medicine, 2016). Impacts from climate change include:

- Prolonged drought
- Increased flooding and erosion
- More extreme weather events (heat, cold)
- Longer growing season
- Shifts in the water cycle with less winter precipitation falling as snow
- Snowmelt and rainwater runoff occurring earlier
- Larger and more severe wildfires
- Less resilient ecosystems

Climate Change in Tooele County

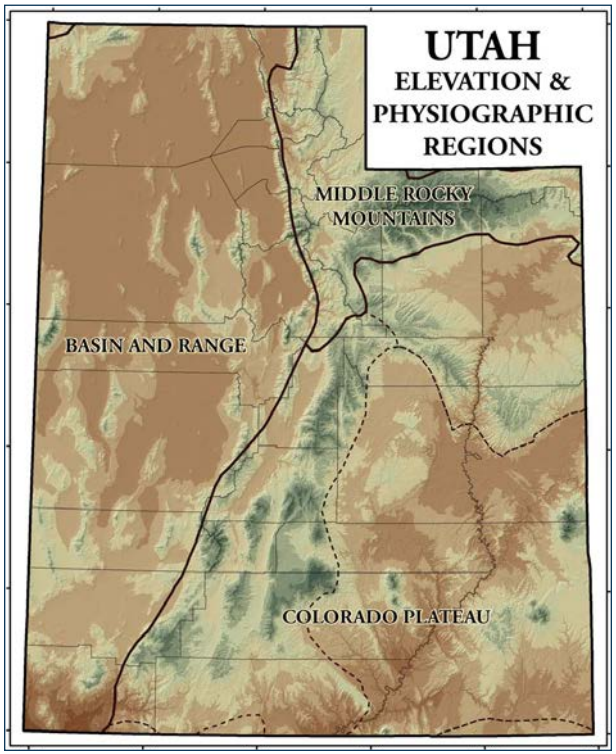
Tooele County is located within the basin and range region. This area is characterized by arid and semi-arid climates. Prolong drought and shifting weather patterns are likely to become an more common occurrence in this region as the effects of climate change become more pronounced. This will put stress on water resources, agriculture, tourism and communities.

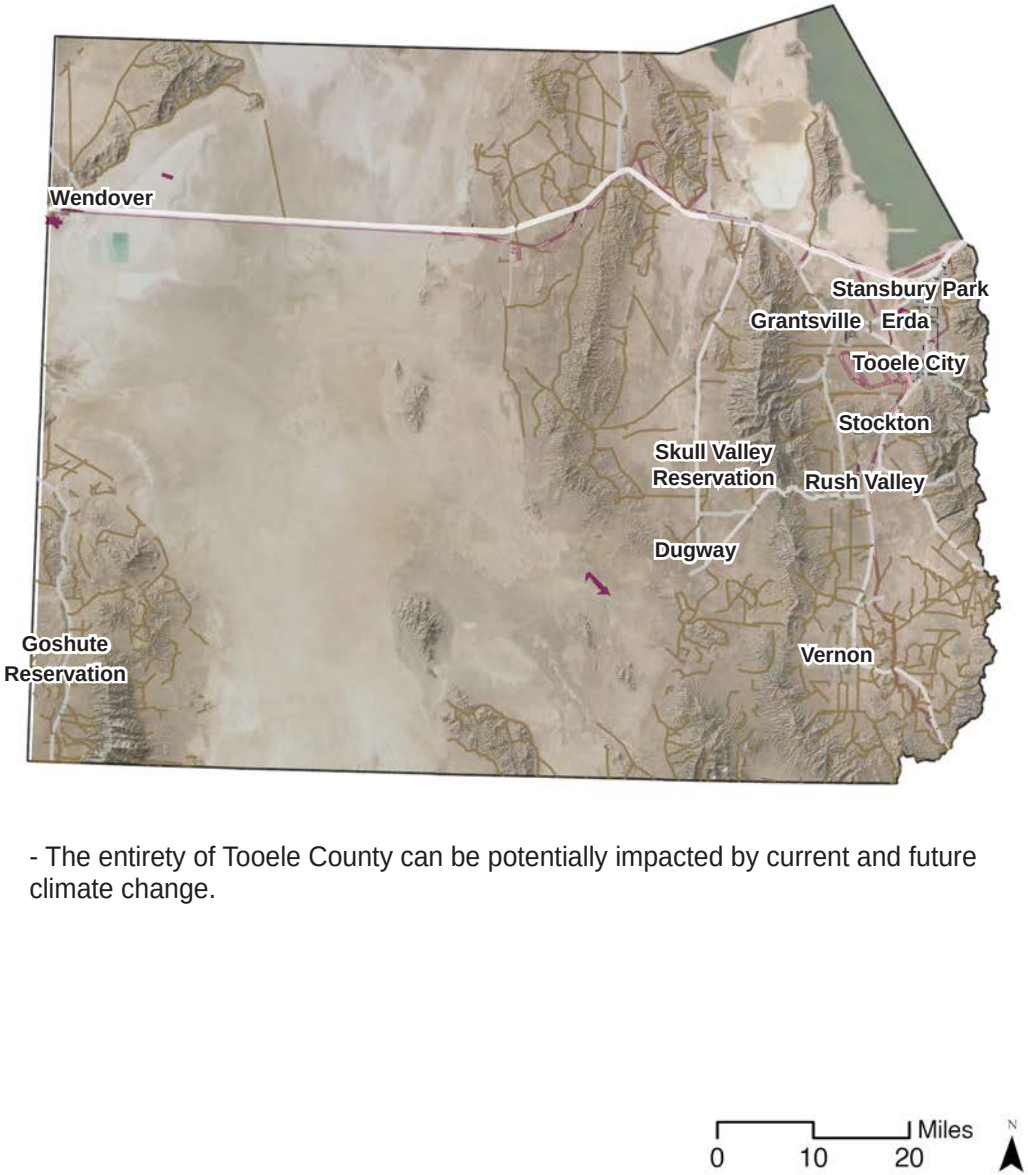
In the basin and range where snow packs are projected to decrease as warmer temperatures occur. According to U.S. Forest Service research (2008) the result for water resources are increased winter flows, reduced and earlier spring peaks, and reduced summer and fall flows. Agriculture will likely grow better due to a longer growing season if water supplies are sufficient.

It is difficult to determine if severe weather events in Tooele County have been caused by climate change or not. As such, it is also difficult to quantify damages to the county specifically from climate change-related events.

Tooele County Goals

- Encourage wise water use practices in residential, commercial and industrial applications.
- Integrate water quality and quantity planning into general plan documentation
- Reduce county emissions by prioritizing transit oriented development patterns





- The entirety of Tooele County can be potentially impacted by current and future climate change.

Hazard Profile

Location

Area of Impact	Widespread

Timing

Duration	Persistent
Speed of Onset	Years
Seasonal Pattern	Year-round

Occurrence

Frequency	High
Probability of Future Occurrence	Highly Likely

Impact

Severity	Minor to catastrophic

Related Hazards

See climate change description

Planning Resources

MEASURING CLIMATE CHANGE:
https://www.noaa.gov/education/resource-collections/climate/climate-data-monitoring

PLANNING FOR CLIMATE CHANGE
https://toolkit.climate.gov/topics/built-environment/planning-and-land-use

DAM INUNDATION

Description

A dam failure is the sudden, rapid and uncontrolled release of impounded water, causing downstream flash flooding. Dams can fail for one or more of the following reasons:

- Overtopping caused by floods that exceed the capacity of the dam
- Deliberate acts of sabotage
- Structural failure of materials used in dam construction
- Movement and/or failure of the foundation supporting the dam
- Settlement and cracking of concrete or embankment dams
- Piping and internal erosion of soil in embankment dams
- Inadequate maintenance and upkeep

Dam Failure in Tooele County

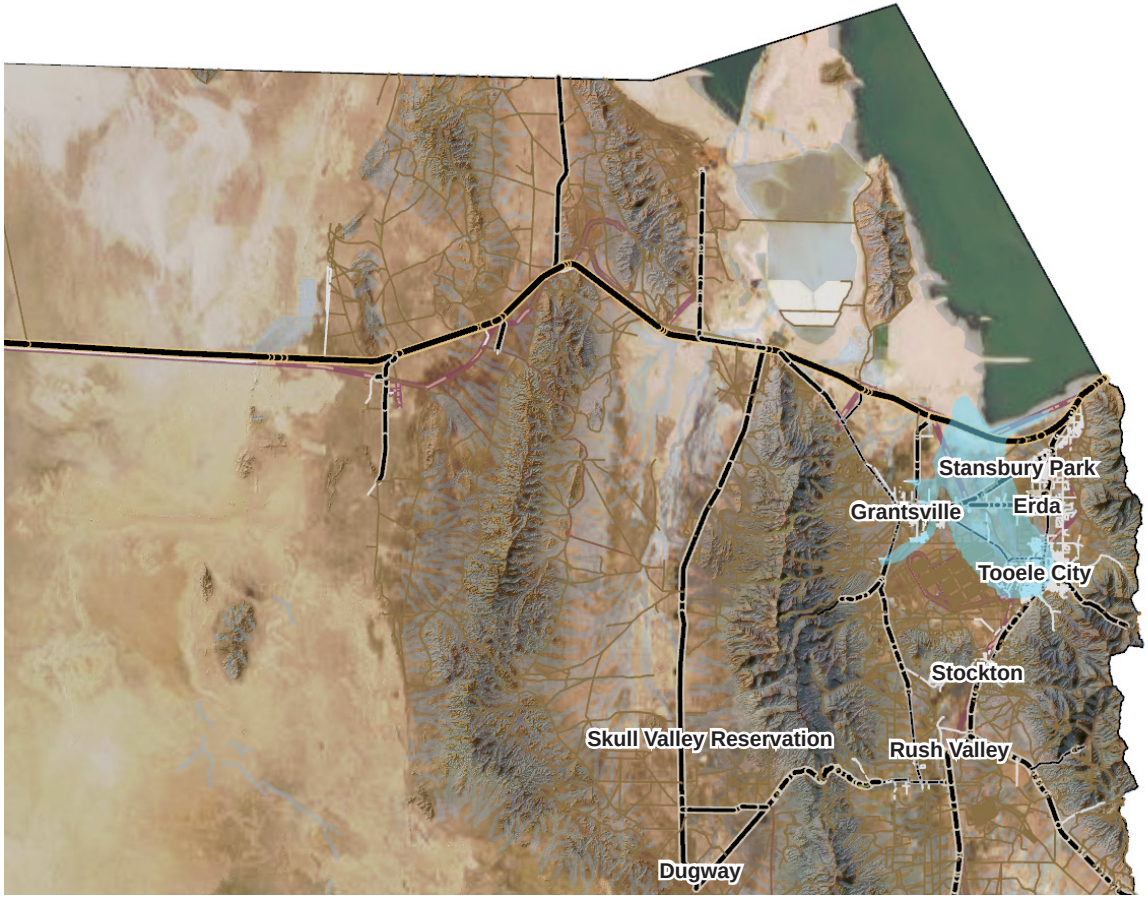
Dam failure is not a common hazard in Tooele County. Currently there are 2 high hazard dams in the County and 5 moderate hazard dams (see the next page). High hazard dams are defined as a dam whose failure will cause loss of human life and significant property destruction.

Most dams in the county are owned and operated by private canal and irrigation companies. Dam owners are responsible for the upkeep and are also primarily responsible when dams fail and cause environmental, economic, and personal damage.

No significant damage has occured to date from dam failure in Tooele County.

Tooele County Goals

- Promote the regular inspection and maintainance of all dams within the region.



Dam Innundation Areas

- Blue areas represent potentially flooded areas if a dam breaks when at full capacity.

Hazard Profile

Location

Area of Impact	Isolated to local

Timing

Duration	Hours to weeks
Speed of Onset	No warning to hours
Seasonal Pattern	Any time of year, but is more likely to occur in spring when the snow melts

Occurrence

Frequency	Low
Probability of Future Occurrence	Low: 1-2% chance per year

Impact

Severity	Minor

Related Hazards

Earthquake can trigger a dam failure
Severe Weather can increase likelihood of a dam failure
Flooding can result from a dam failure

Planning Resources

UTAH DAM CONDITIONS:
https://waterrights.utah.gov/daminfo/

DAM FAILURE HAZARD INFORMATION:
https://www.fema.gov/why-dams-fail

DEBRIS FLOW

Description

"Debris flows and related sediment flows are fast-moving, flow-type landslides composed of a slurry of rock, mud, organic matter, and water that move down drainage-basin channels onto alluvial fans. Debris flows generally initiate on steep slopes or in channels by the addition of water from intense rainfall or rapid snowmelt and often occur after wildland fires." (https://geology.utah.gov/hazards/landslides/debris-flows/)

Debris Flow n Tooele County

Debris flow potential in Tooele County has yet to be extensively mapped. The mapped areas shown on the fallowing page identify drainage areas associated with mountain ranges in the eastern parts of the county. These areas should not be considered a full extent of areas where debris flows might occur.

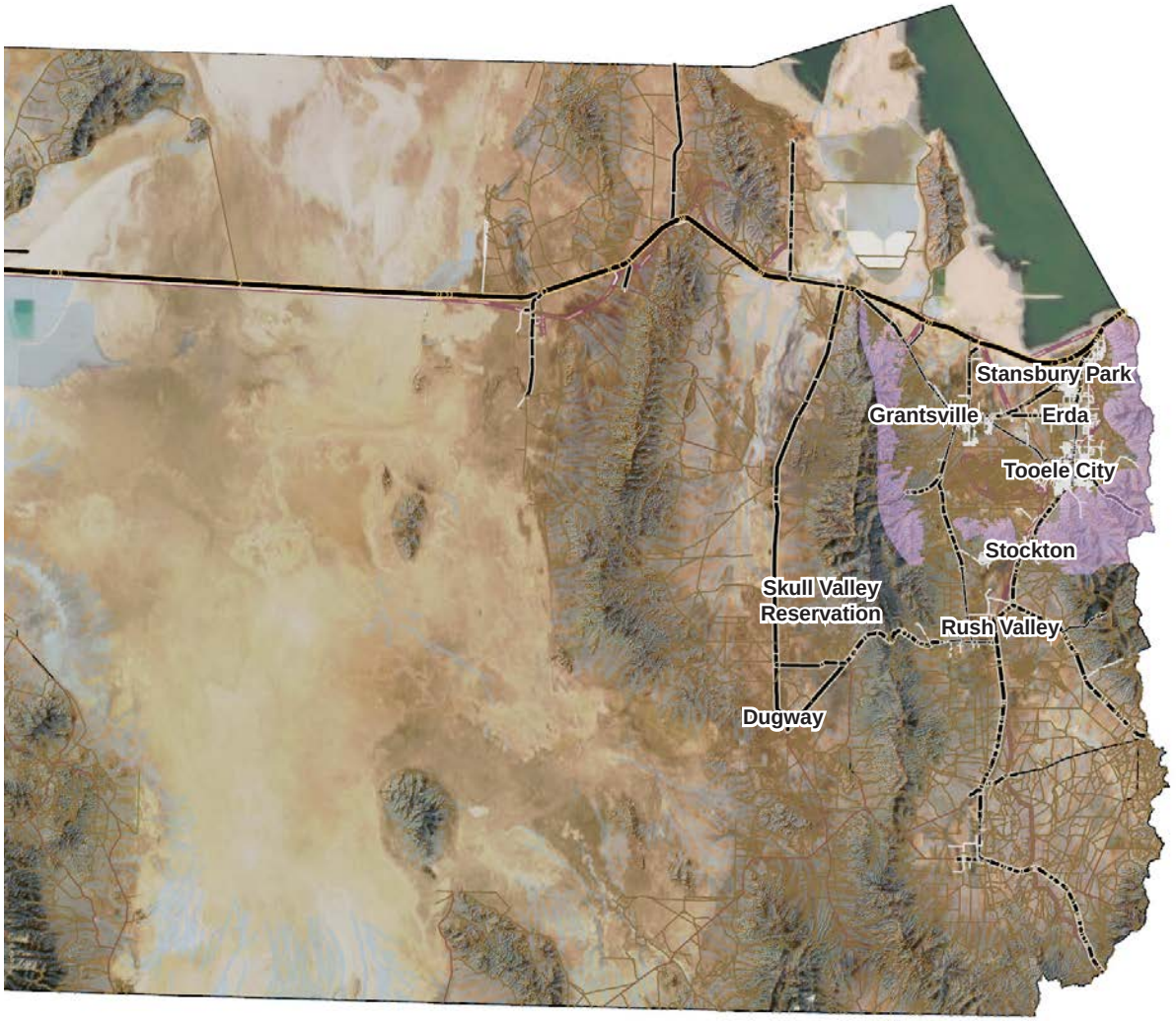
The mapped areas better describe areas from which debris flows might eminate, actual debris flow events would be expected to follow typical flood channels.

Debris flow events are exacerbated by other types of hazard events in the area such as wildfire, landslide, earthquake, and flood. Large scale disturbances to the landscape, especially at higher elevations, can be strong indicators of increased potential for debris flow hazard.

No reported damage has occured in Tooele County to date from debris flow events.

Tooele County Goals

- Work with land owners to stabilize banks of streambeds throughout the county



Debris Flow

- Pink areas represent potential debris flow risk areas in Tooele County (data courtesy of the Utah Geological Survey).

0 10 20 Miles

N

Hazard Profile

Location

Area of Impact	Isolated to local

Timing

Duration	Hours to weeks
Speed of Onset	No warning to hours
Seasonal Pattern	Any time of year, but is more likely to occur in spring when the snow melts

Occurrence

Frequency	Low
Probability of Future Occurrence	Low

Impact

Severity	Minor to Severe

Related Hazards

Earthquake can trigger
Severe Weather can increase likelihood
Flooding can increase likelihood

Planning Resources

DROUGHT

Description

A drought is a prolonged period of unusually dry weather that causes decreased water supply to surface and subsurface sources. While droughts occur naturally, they can be exacerbated by how humans use and managed water. Cause of drought range from natural to human factors, including:

- Fluctuating ocean and land temperature, especially warming temperatures leading to evaporation and severe weather conditions
- Air circulation and weather patterns
- Reduced soil moisture
- Demand and management of water
- Climate change
- Deforestation and soil degradation

The Palmer Drought Severity Index (PDSI) is used to measure drought by three categories: moderate, severe and extreme.

Moderate Drought

- Some damage to crops, pastures;
- Streams, reservoirs, or wells low, some water shortages developing or imminent;
- Voluntary water-use restrictions requested

Severe Drought

- Crop or pasture losses likely;
- Water shortages common;
- Water restrictions imposed

Extreme Drought

- Major crop/pasture losses;
- Widespread water shortages or restrictions

Drought in Tooele County

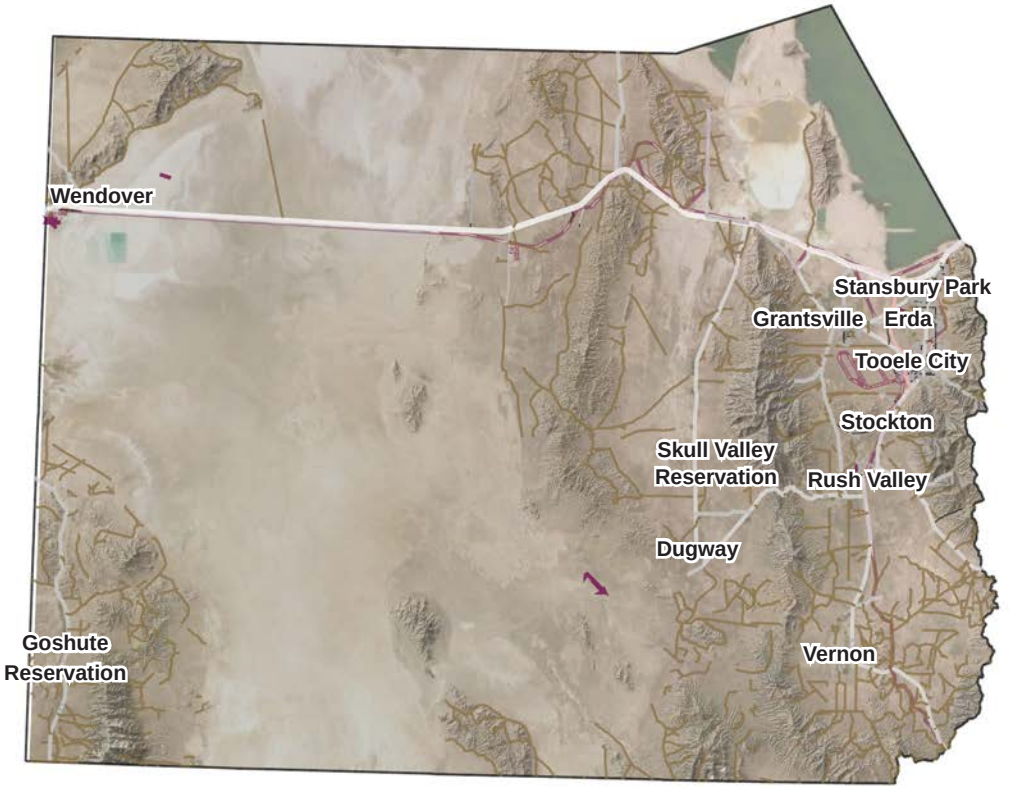
Drought is one of the more common hazards affecting Tooele County. Drought impacts water related sectors, such as agriculture and municipal water supplies, recreation, tourism, vegetation, and wildlife.

Based on the Palmer Drought Severity Index (October 2021), the state is currently experiencing a severe to exceptional drought (drought.gov/current-conditions).

No reported substantial damage has occured to Tooele County communities from drought to date, though it is likely that some damage has occured on some level.

Tooele County Goals

- Encourage wise water use practices in residential, commercial and industrial applications.
- Integrate water quality and quantity planning into general plan documentation



- Drought will impact every community in Tooele County at some point. This can be in the form of severe storms, high winds, tornado's, hail, temperature fluxuations, or other types of severe weather.

Hazard Profile

Location

Area of Impact	Widespread

Timing

Duration	Weeks to years
Speed of Onset	Weeks to months
Seasonal Pattern	Anytime of year, but peaks during the fall around October

Occurrence

Frequency	High
Probability of Future Occurrence	High: 70% chance per year

Impact

Severity	Minor to serious

Related Hazards

Problem Soils can result from drought
Severe Weather can increase the chance of drought
Wildfires can result from drought

Planning Resources

UTAH DROUGHT CONDITIONS:
https://droughtmonitor.unl.edu/

HOW TO PLAN FOR DROUGHT
https://drought.unl.edu/droughtplanning/

DROUGHT HAZARD INFORMATION:
https://drought.unl.edu/

EARTHQUAKE

Description

An earthquake is the vibrations or shaking that occurs after large blocks of the earth's crust move against each other along a fault or by volcanic activity. Earthquakes are described in terms of magnitude and intensity:

Richter Scale (magnitude)

- Measures the total energy released by an earthquake

Modified Mercalli Intensity Scale (intensity)

- Measures the effects of an earthquake at a particular area

Earthquake in Tooele County

Tooele County is located in the Intermountain Seismic Belt; an area stretching from Canada through central Utah that is characterized by frequent earthquake activity. Although earthquakes generally occur in mountainous regions, their impacts can be experienced throughout the entire County. The County has historically experienced over 7 earthquakes ranging from 3.0 to 4.8 magnitude on the Richter Magnitude Scale. However, in March of 2020, the county experienced a much larger earthquake with a magnitude of 5.7.
See Appendix F for more information on historical earthquakes in Tooele County.

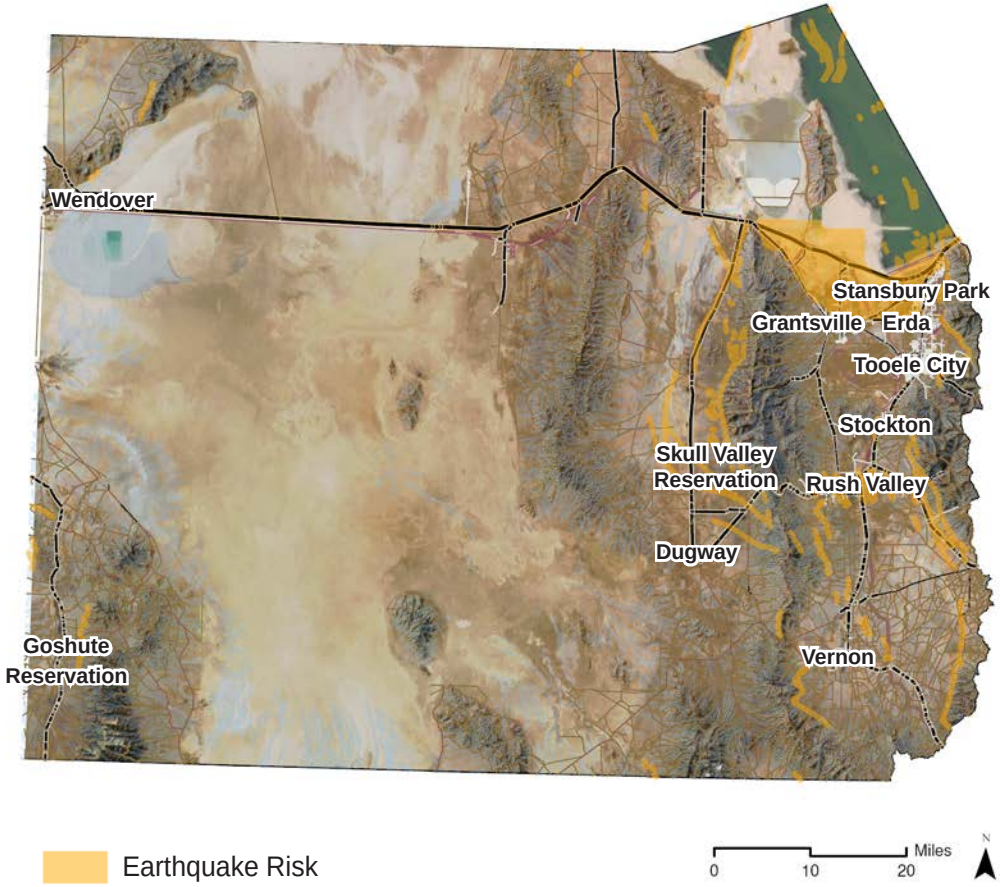
All quaternary faults in the region were mapped and 1,500' buffer was applied to the fault to imply a fault damage zone. Significant faults within the county include:

- Oquirrh fault zone
- Southern Oquirrh Mountains fault zone
- Skull Valley (Mid-valley) faults
- South Mountain Marginal fault

Liquefaction potential was also collected in order to identify further earthquake hazard risk potential. Liquefaction areas have only been mapped in the northeastern section of the county and show significant liquefaction potential in soils approaching the shoreline of the Great Salt Lake.

Tooele County Goals

- Work with Utah DEM to better understand earthquake risk
- Assess structural inventory of county-owned buildings related to earthquake risk



- Orange areas represent quaternary geologic faults with 1,500' buffers to represent potential damage zones, as well as moderate to high liquefaction risk areas (data courtesy of the Utah Geological Survey).

Hazard Profile

Location

Area of Impact	Local to widespread

Timing

Duration	Minutes
Speed of Onset	No warning
Seasonal Pattern	None

Occurrence

Frequency	Moderate
Probability of Future Occurrence	High

Impact

Severity	Limited to catastrophic

Related Hazards

Avalanches can be triggered by an earthquake
Dam Failure and Flooding can result from an earthquake
Landslides can be triggered by an earthquake
Liquefaction can result from an earthquake
Wildfires can result from the damaged caused by an earthquake

Planning Resources

UTAH EARTHQUAKE CONDITIONS:
https://quake.utah.edu

EARTHQUAKE HAZARD INFORMATION:
https://geology.utah.gov/hazards/earthquakes/

EROSION

Description

"Subsurface erosion of soil or rock by groundwater flow that forms narrow voids. Piping can remove support of overlying soil and rock, resulting in collapse. This internal erosion of soil can lead to failure of the structure and to sinkhole formation as voids within the soil cause the progressive development of internal erosion by seepage appear downstream as a hole discharging water. Piping and erosion can cause AC and PCC pavement failure, severe building and infrastructure distress and differential movement and canals and other gravity flow utilities to fail." (https://site.utah.gov/dps-emergency/wp-content/uploads/sites/18/2019/02/8-Geologic-Hazards.pdf)

Erosion in Tooele County

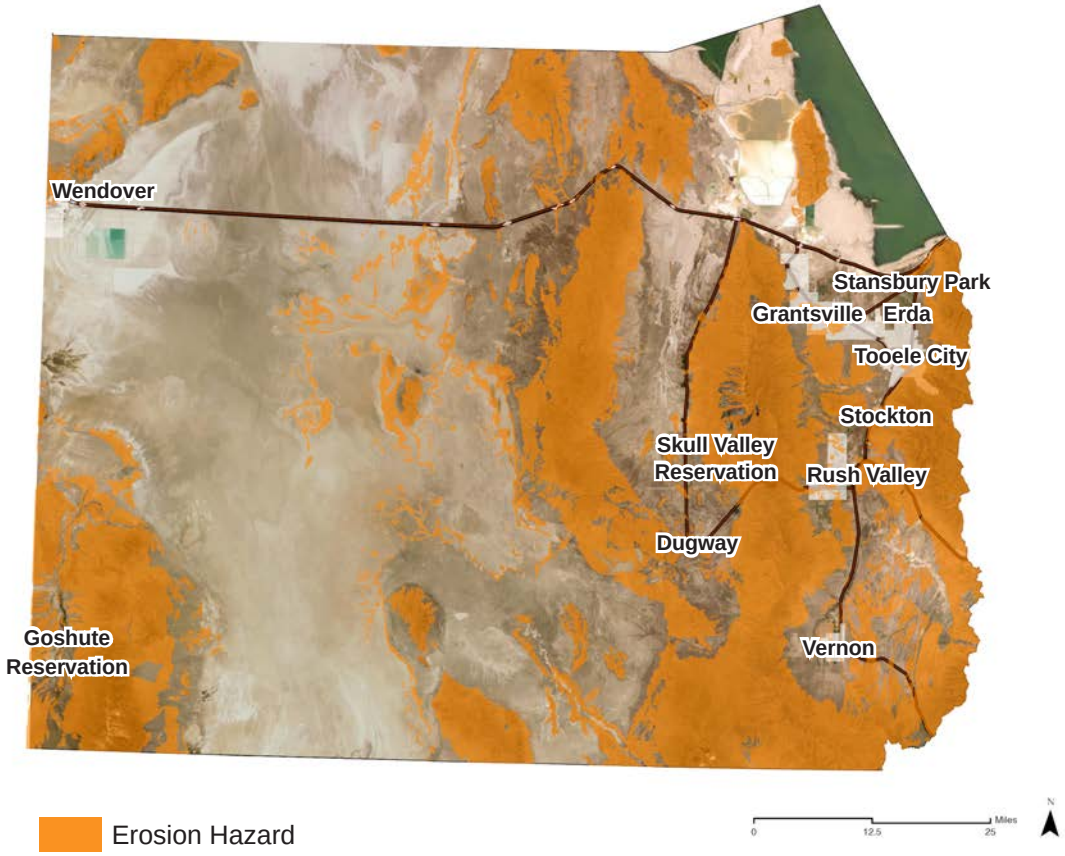
Erosion potential is pervasivive throughout the county. The majority of mapped erosion hazard occures at higher elevation sloped terrain within and arround the counties mountian ranges.

Erosion hazard is multiplied be distrubance events in the landscape. These can be caused by natural events such as wildfires or by construction of roads and development of homes and industrial facilites.

No reported substantial damage has occured in Tooele County from erosion events.

Tooele County Goals

- Coordinate with local and federal entities to revegitate distirbed sites



- Areas in organge depict potential erosion hazard areas, particularly as they relate to roads and trails in Tooele County (data extracted from the USDA NRCS SSURGO soils dataset).

Hazard Profile

Location

Area of Impact	Isolated

Timing

Duration	Seconds to minutes
Speed of Onset	Seconds
Seasonal Pattern	Late fall through spring

Occurrence

Frequency	High
Probability of Future Occurrence	High

Impact

Severity	Minor

RELATED HAZARDS

Wildfire
Landslide

Planning Resources

PROBLEM SOILS INFORMATION:
https://geology.utah.gov/hazards/problem-soils/

FLOOD

Description

A flood is the partial or complete inundation of normally dry land from either:

- Overflow of stream banks;
- The unusual and rapid accumulation of runoff of surface waters from any source; or
- Mudflows or the sudden collapse of shoreline land

Flooding occurs when the flow of water in a stream is above its normal carrying capacity or accumulates faster than the ground can absorb it. The severity of a flood event depends on several factors, including precipitation (rain and/or snow) and weather patterns, stream basin topography and physiography, stormwater conveyance, soil moisture, and the amount of bare earth and/or impervious surfaces.

Types of Floods

Flash Flood

Flash floods occurs when runoff from excessive rainfall causes a rapid rise in the water height (stage) or a stream or normally-dry channel. Causes of flash floods include dam failure, heavy rain, and ice or debris jams.

River Flood

River floods occur when runoff from longer-lasting rainstorms or snow melt cause a slow water-level rise over a large area. Causes of river floods include precipitation and snowmelt.

Floods in Tooele County

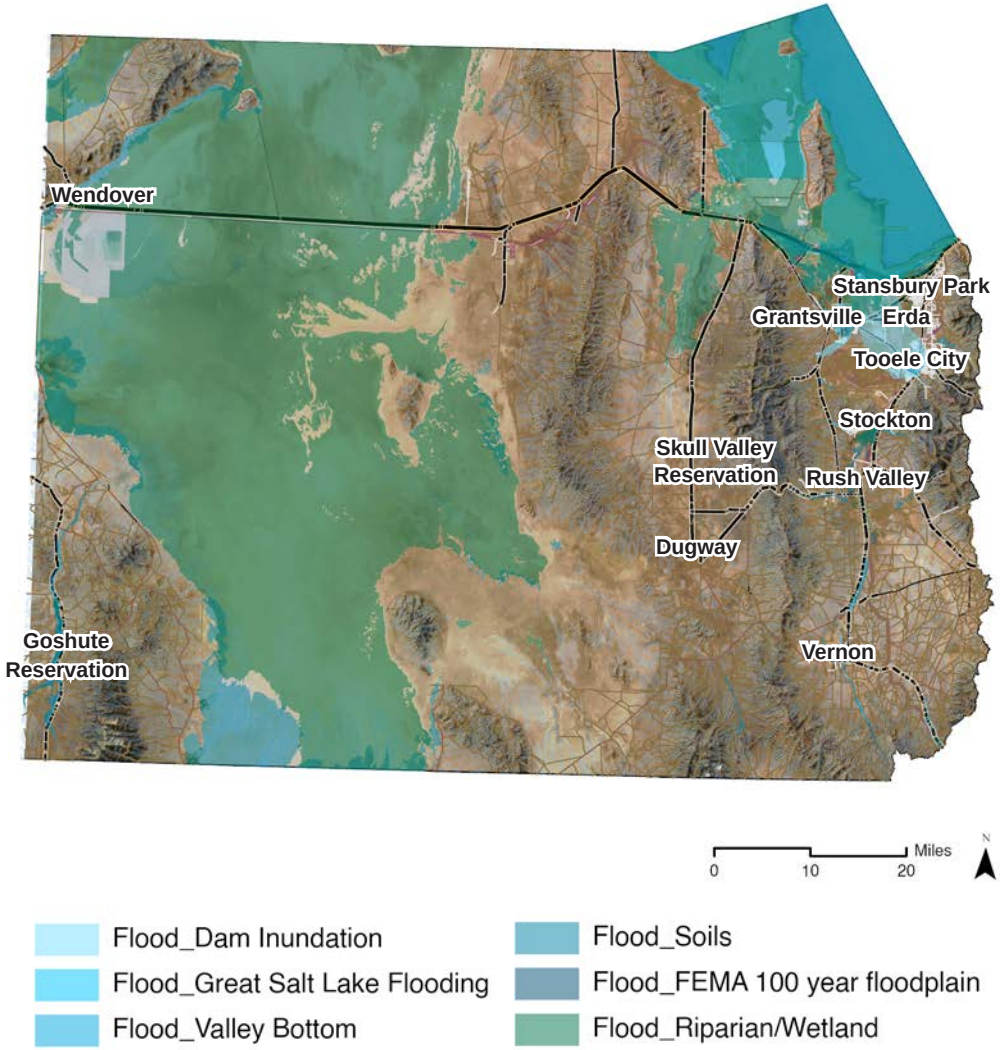
Flooding occurs annually in Tooele County, especially during the spring runoff when snow melts off the mountains. The most prone flood prone areas include valley bottoms along streams (floodplains) and canyons.

Landscape elements with a direct relationship to flooding have been included in the flood areas of this plan. Riparian and Wetland ecosystems are dependent on seasonal and intermittent flooding. Their presence indicates that these ares are likely flooded at some interval allowing the fauna of these ecosystems to persist.

In August of 2021, the county experienced fairly severe flooding. The damages from that flood are still being assessed.

Tooele County Goals

- Work with Federal and local authorities to improve flood mapping in the region.



- Areas in various shades of blue represent flood risk based on various datasets and methodologies (data courtesy of FEMA, NRCS, State of Utah, UGS, USU, and UGRC.

Hazard Profile

Location

Area of Impact	Isolated to widespread

Timing

Duration	Hours to weeks
Speed of Onset	Hours
Seasonal Pattern	Spring during the snowmelt, and summer/ fall from burn scars

Occurrence

Frequency	High
Probability of Future Occurrence	High

Impact

Severity	Minor to extensive

Related Hazards

Earthquakes can cause a dam failure leading to a flood

Severe Weather can increase the chance of a flood

Wildfires can create conditions (burn scars) that increase an areas susceptibility to a flood (debris flow)

Planning Resources

UTAH FLOOD FORECAST:
https://www.cbrfc.noaa.gov/

LAND USE PLANNING FOR FLOODS:
https://floodresilience.net/how-can-land-use-planning-help-to-reduce-flooding

LANDSLIDE

Description

A landslide is the downward and outward movement of slopes composed of rock, soils, and/or debris. Landslides include rock falls mud flows, and debris flows. Landslides occur when the resisting forces that hold the earth decrease or the driving forces that facilitate its movement increase. Conditions that increase landslide susceptibility:

- Strong geologic units overlying weak geologic units
- Orientations of dip slope or bedding planes that dip out of slope.
- Additional weight to the top of a slide, such as rain; snow; adjacent landslides; mine waste piles; buildings; leaks from pipes, sewers, canals; and construction or fill materials
- Ground shaking from earthquakes or mechanical vibrations
- Human activities, such as cut and fill practices, quarries, mine pits, road cuts, and rapid lowering of reservoirs.
- Removal of underlying support, including undercutting of river banks
- Increase in pore water pressure consistent with snow melt, rain, and irrigation

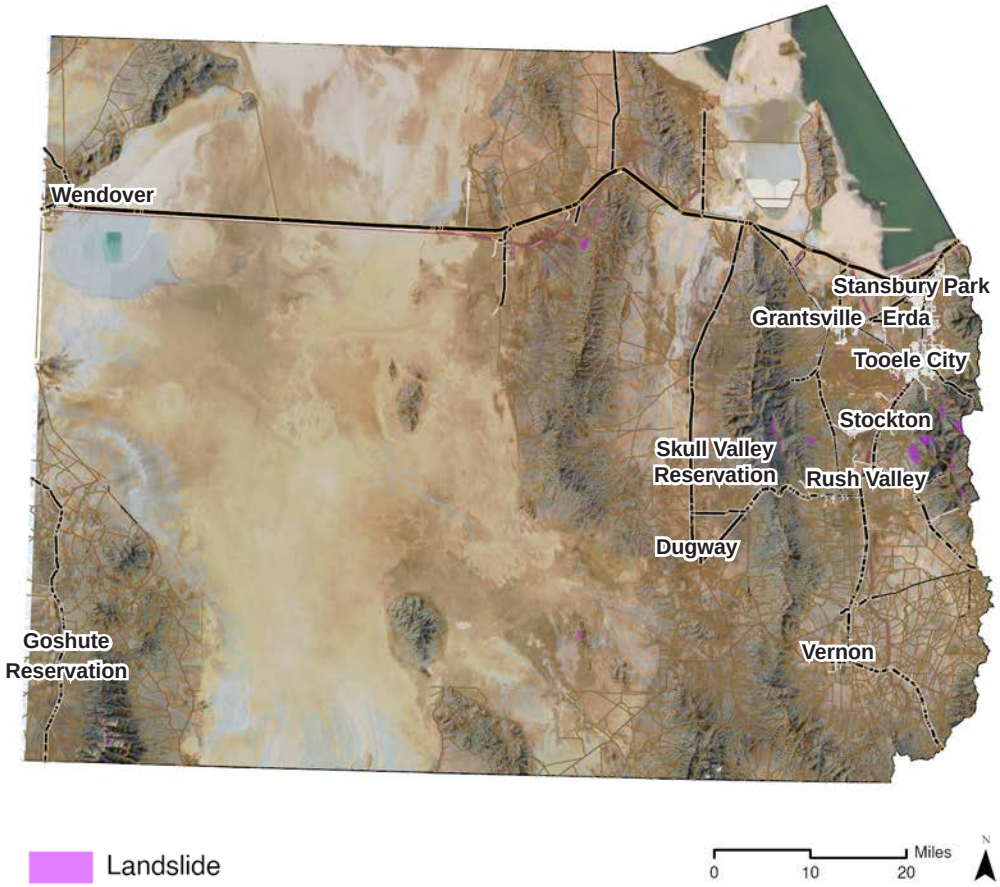
Landslides in Tooele County

Landslides occur naturally across Tooele County on a continuous basis, and can also be triggered by human actions, such as mining and land development. Landslides generally occur in the mountainous parts of the county where there are steep slopes.

No substantial damage has occured in Tooele County from landslides to date.

Tooele County Goals

- Limit development in areas with slop and soil conditions that create landslide risk



- Areas in purple represent generalized landslide risk in Tooele County (data courtesy of the Utah Geological Survey).

Hazard Profile

Location

Area of Impact	Isolated

Timing

Duration	Hours to weeks
Speed of Onset	No warning to hours
Seasonal Pattern	Spring through fall

Occurrence

Frequency	Low
Probability of Future Occurrence	Low

Impact

Severity	Minor to serious

RELATED HAZARDS

Flood/Severe Weather can cause a landslide
Wildfires can create conditions (burn scars) that increase an areas susceptibility to a landslide/ debris flow

Planning Resources

LANDSLIDE PREPAREDNESS INFORMATION:
https://www.ready.gov/landslides-debris-flow

LANDSLIDE HAZARD INFORMATION:
https://geology.utah.gov/hazards/landslides/

PROBLEM SOILS

Description

Problem soils are a group of hazards related to the specific properties of soils, and include:

- Collapsible soil: Soils that have considerable strength when in a day, natural state, but significantly settle due to hydrocompaction (reduction of air space within the soil) when wetted;
- Expansive soil: Soils with high clay content that swell when wet and shrink when dried. They result from seas or lake hundreds of thousands to millions of years ago. Often causes cracked foundations and road surfaces, and failure of wastewater disposal systems;
- Subsidence: The sinking of the ground caused by groundwater depletion and/or underground mine subsidence or collapse; and
- Erosion: Often initiated by water or wind, is the removal and transportation of earth material from one location to another.

Problem soils can cause extensive damage to structures and foundations, and may also damage pavements after construction. They have caused an undetermined, but very significant amount of infrastructure damage and resulting economic impact.

Problem Soils in Tooele County

Problem soils are widespread throughout Tooele County. Weather, topography and hydrology greatly influence the extent and severity. Generally, problem soils can be found in these areas:

Expansive soil: Because most of the Region was submerged by ancient Lake Bonneville, expansive soils can be found throughout the county.

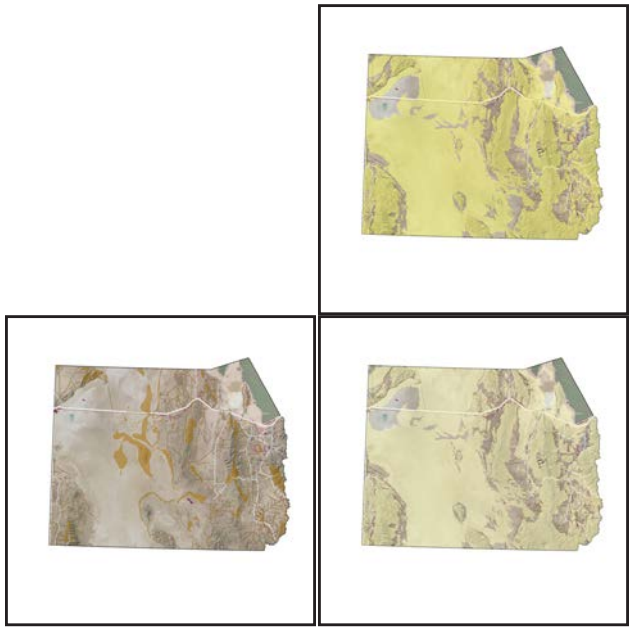
Collapsible soil: Occur where loose, unconsolidated soil are deposited, such as canyon mouths (alluvium), the foot of steeps slopes (colluvium), landslide deposits, or clay-rich bedrock, such as shale or mudstone. Generally collapsible soils can be found near foothills and canyon mouths throughout the Region.

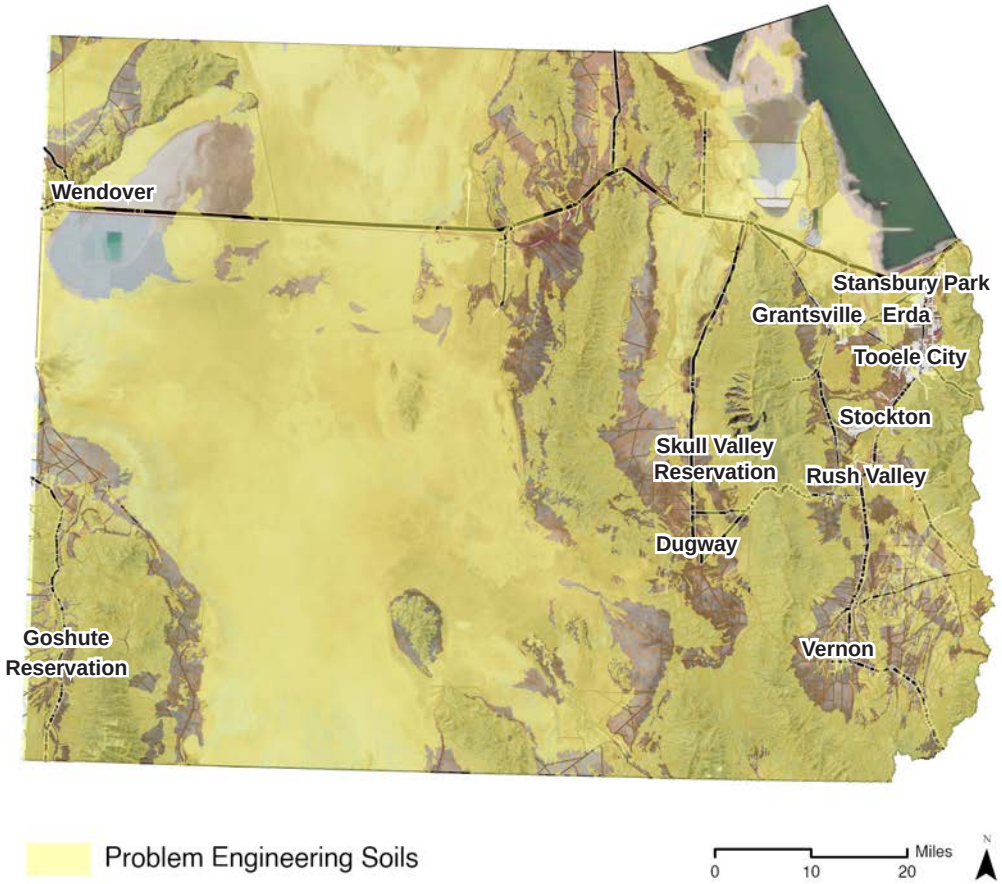
Subsidence: Occurs in areas where groundwater has been depleted and have unconsolidated aquifer systems.

No substantial damage has occured from problem soils in Tooele County to date.

Tooele County Goals

- Discourage development within problem soil areas





- Areas in yellow depict soils that could cause structural problems for various buildings and infrastructure (data extracted from the USDA NRCS SSURGO soils dataset).

HAZARD PROFILE

Location

Area of Impact	Widespread

Timing

Duration	Hours to weeks
Speed of Onset	Hours to days
Seasonal Pattern	Any time of year following wet/dry events

Occurrence

Frequency	Persistent
Probability of Future Occurrence	High

Impact

Severity	Minor to serious

RELATED HAZARDS

Earthquake can trigger liquefaction
Drought can cause soils to shrink or sink
Flood can cause soils to swell or compact

Planning Resources

UTAH PROBLEM SOIL CONDITIONS:
https://geology.utah.gov/hazards/problem-soils/

PROBLEM SOIL HAZARD INFORMATION AND MITIGATION ACTIONS:
https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/16/nrcs143_019308.pdf

RADON

Description

Radon is an orderless, tasteless, and clear radioactive gas resulting from the natural decay of uranium that is found in nearly all rocks and soil. When concentrated in areas, such as buildings, it can lead to lung cancer. It is the most fatal of all Utah's hazards (Utah Division of Emergency Management, 2019). Radon gas is easily dissolved in water and is released into the air during water use and movement. High levels of radon are not common in Utah's public-water supplies, but may be present in well water.

Radon in Tooele County

In Tooele County, outdoor radon levels rarely reach dangerous concentrations because air movement scatters radon into the atmosphere. However, dangerous outdoor radon levels are often encountered near uranium ore processing waste piles, mine openings, and related operations, such as the Tintic Mining District.

Radon is a hazard in buildings because the gas collects in enclosed spaces. Building conditions that can contribute to high indoor radon levels, include:

- Structures built on or near groundwater that contains sufficient uranium;
- Underlying soil that allows easy movement of radon;
- Porous building materials, cracks, and/or other openings below the ground surface that allow radon from soil to enter the building; or
- Lower air pressure inside than in the soil around a building foundation

The best way to identify radon is through short-term or long-term testing administered through the Utah Department of Environmental Quality: *https://deq.utah.gov/waste-management-and-radiation-control/radon/radon-program.*

It is unclear what type of damage has occured in Tooele County from radon, though it is likely that individual impacts have occured.

Tooele County Goals

- Promote Radon testing throughout the county

Hazard Profile

Location

Area of Impact	Isolated

Timing

Duration	Persistent
Speed of Onset	Years
Seasonal Pattern	Year round, higher in winter

Occurrence

Frequency	High
Probability of Future Occurrence	High

Impact

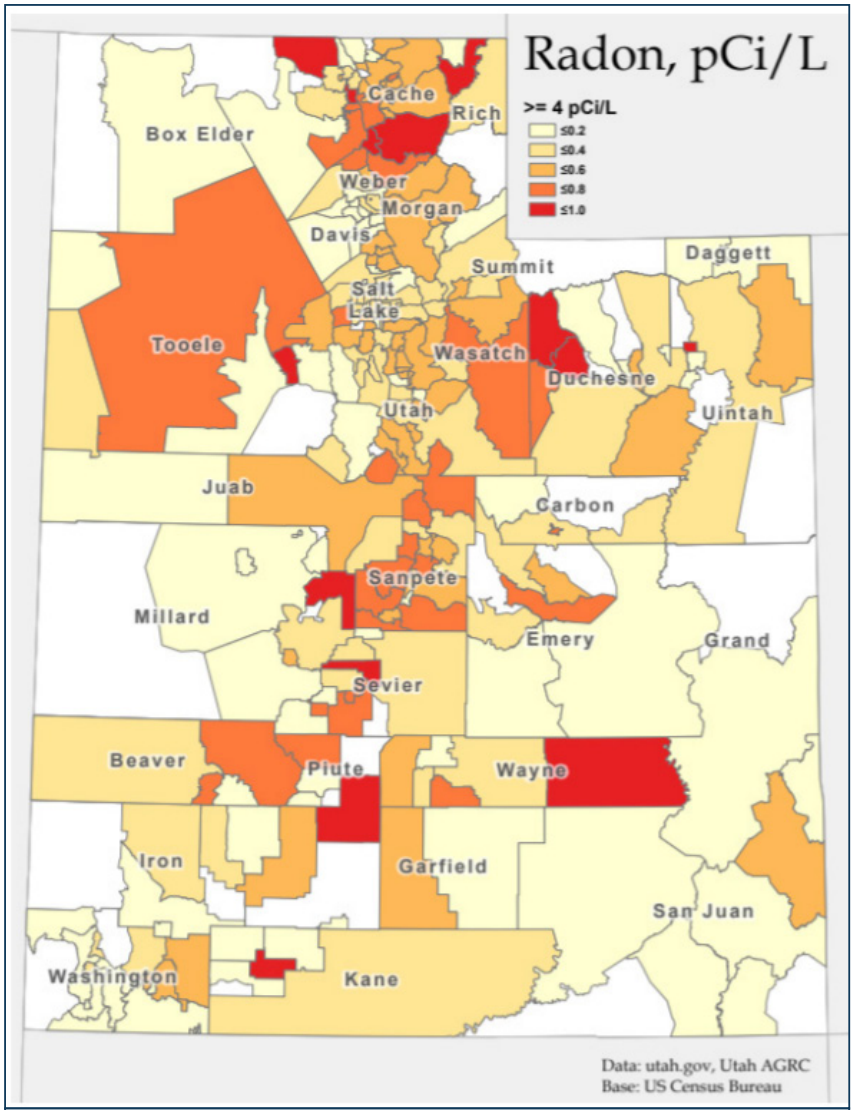
Severity	Minor to serious

Planning Resources

CENTRAL UTAH HEALTH DEPT. RADON INFORMATION:
https://www.centralutahpublichealth.com/radon_testing.html

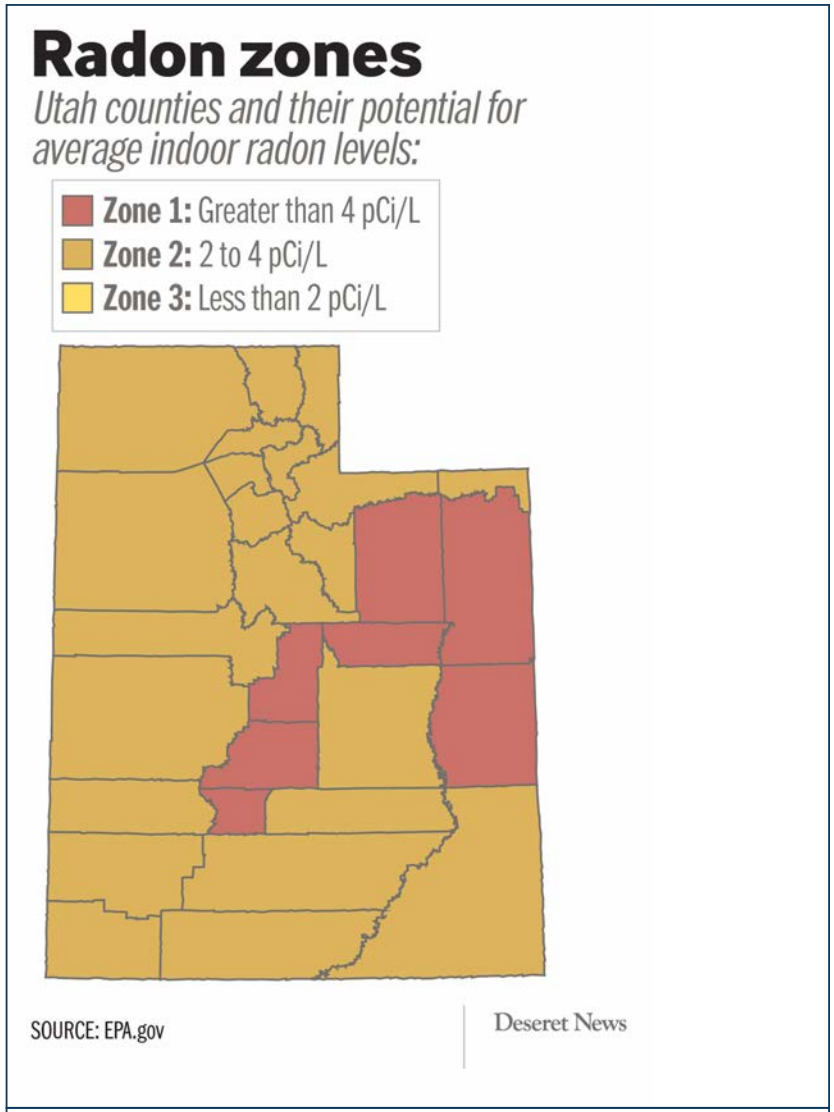
RADON TESTING IN UTAH:
https://deq.utah.gov/waste-management-and-radiation-control/radon/radon-program

RADON HAZARD INFORMATION:
https://geology.utah.gov/hazards/problem-soils/radon/#tab-id-3



Description: This map displays areas by the percentage of it with radon home test results greater than or equal to 4 pCi/L, which is considered unsafe levels (Utah DEQ, 2019).

Limitations: Data does NOT identify areas with high radon levels. Radon can vary site to site.



Description: This map displays area with potential for radon (U.S. EPA, 2019).

Limitations: Data is an approximation and is subject to great variability.

SEVERE WEATHER

Description

Severe weather is considered any weather-caused hazard event, such as extreme cold, extreme heat, hail, lightning, tornado, wind, and winter storms. Because of their relative unpredictably, these events are classified and addressed together.

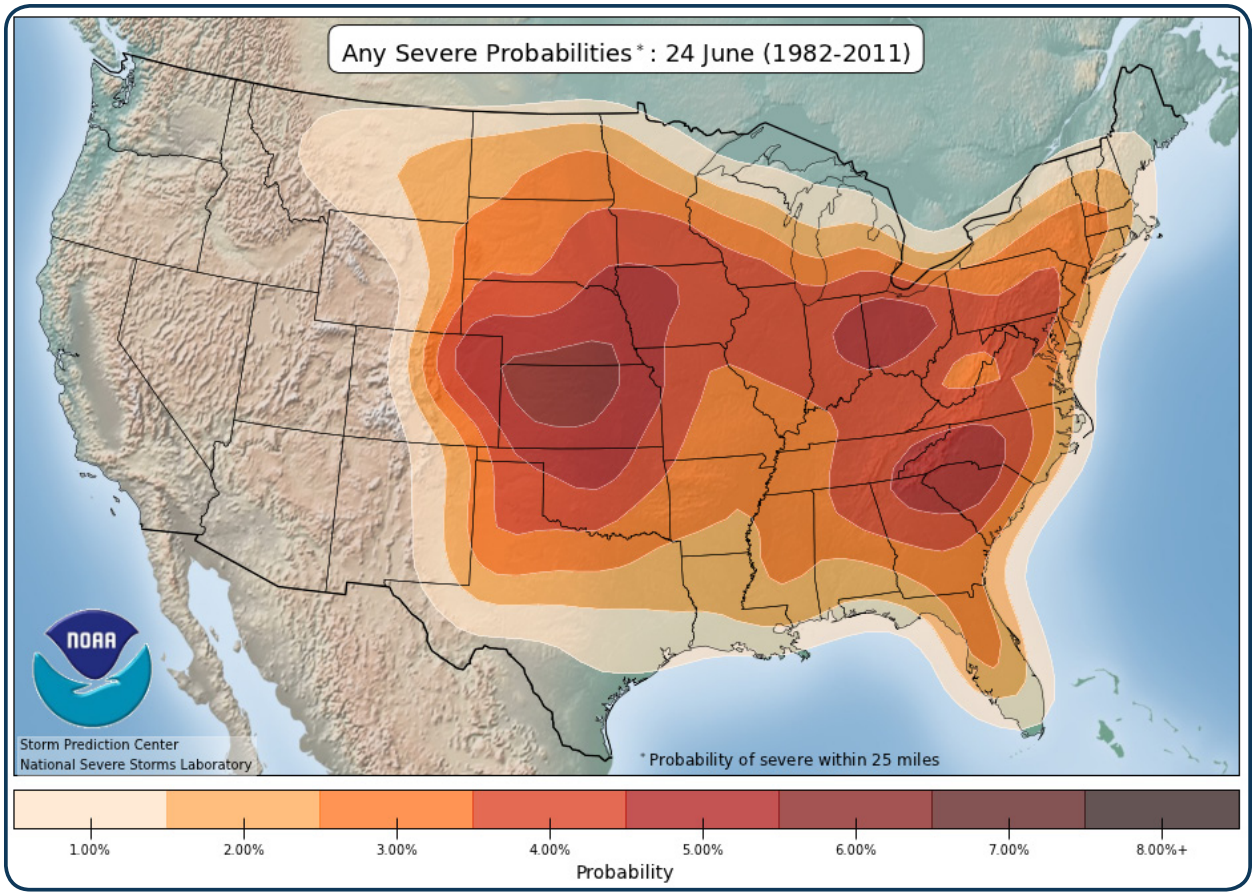
- Extreme cold: An event characterized by temperatures at or below freezing for an extended period of time
-
- Extreme heat: Weather that is substantially hotter and/or more humid than the average for a location at that time of year
-
- Hail: Precipitation in the form of irregular pellet- or ball-size ice which occurs when strong, rising currents of air within a storm carry water droplets to a height where they freeze. As ice particles grown in size, they become too heavy to be supported and fall to the ground
-
- Lightning: A visible electrical discharge produced by a thunderstorm
-
- Wind:
- High winds: Sustained wind speeds of 40 mph or greater and lasting one hour or long, or winds 58 mph or greater for any duration
- Tornados: A funnel-shaped violent rotating column of air generated by thunderstorms
- Thunderstorms: An event characterized by the presence of lightning and thunder that it usually accompanied by strong winds, heavy rain, and hail, or sometimes no precipitation at all
-
- Winter Storm: A prolonged snow or ice event that is classified by the amount of snow or ice, temperature, wind and event duration. It can include:
- Heavy snow: 4 or more inches of snow in 12 hours or less)
- Blizzard: Low temperatures, wind gusts above 35 mph, snow and/or blowing snow that reduces visibility to 1/4-mile or less for 3 or more hours
- Sleet: Ice composed of frozen or mostly frozen raindrops or refrozen partially melted snowflakes
- Ice storms: When damaging accumulations of ice are observed or expected during freezing rain situations
-

Severe Weather in Tooele County

Severe weather can occur anywhere in Tooele County. High winds are prevalent in mountainous areas as downslope wind coming over mountains or gap winds in canyons. The county has observed at least 3 tornado event since 1950 as recorded by NOAA.

No updated/accessible NOAA data exists for Tooele County. However, it can be assumed that some type of severe weather occurs in the county on an annual basis.

Tooele County Goals



Hazard Profile

Location

Area of Impact	Widespread

Timing

Duration	Seconds to days
Speed of Onset	Seconds to days
Seasonal Pattern	Anytime of year, depending on the event

Occurrence

Frequency	High
Probability of Future Occurrence	High

Impact

Severity	Minor to extensive

Related Hazards

Dam failure, Flood and Landslide can result from a precipitation event

Drought can result from extreme heat and wind events

Planning Resources

U.S. STORM PREDICTION CENTER:
https://www.spc.noaa.gov/

SEVERE WEATHER PREPAREDNESS:
https://www.weather.gov/ama/severesafetyplan

STEEP SLOPE

Description

A landslide is the movement of a mass of rock, debris, or earth down a slope by force of gravity. They flow rapidly, striking at avalanche speeds that can travel several miles, growing in size as they pick up trees, boulders, cars and other materials.

Landslides occur when the slope or soil stability changes from stable to unstable, which may be caused by earthquakes, storms, volcanic eruptions, erosion, fire, or additional human-induced activities. Slopes greater than 10 degrees are more likely to slide, as are slopes where the height from the top of the slope to its toe is greater than 40 feet. Slopes are also more likely to fail if vegetative cover is low and/or soil water content is high. However, landslides can occur with very little slope, sometimes classified as earth slumping or earth flow.

Hazard Description: This map displays areas of steep slopes (30 percent slope or greater) and was developed using the U.S. Geologic Survey National Elevation Dataset. For more information visit: https://www.usgs.gov/core-science-systems/national-geospatial-program/national-map

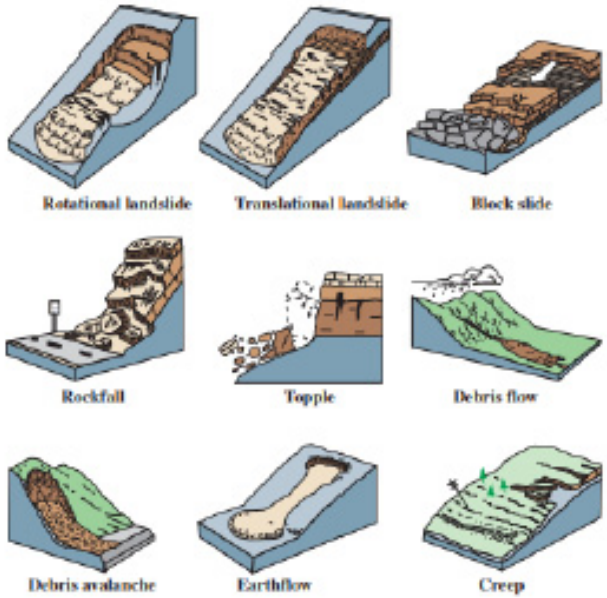
Steep Slope in Tooele County

Severe weather can occur anywhere in Tooele County. High winds are prevalent in mountainous areas as downslope wind coming over mountains or gap winds in canyons. The county has observed at least 4 tornado event since 1950 as recorded by NOAA.

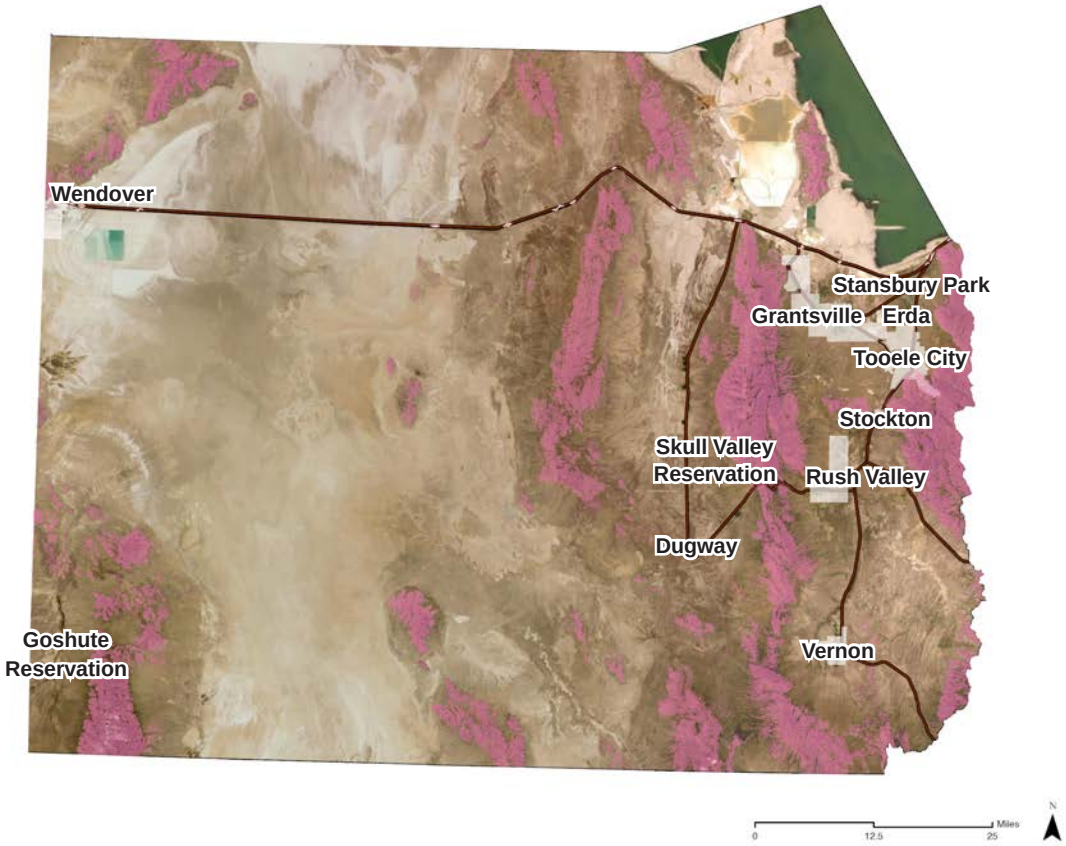
No reported damages have occured directly from steep slopes in Tooele County.

Tooele County Goals

Diagram of an idealized landslide showing commonly used nomenclature for its parts.



Major types of landslides and their physical characteristics (from U.S. Geological Survey Fact Sheet 2004-3072 [http://pubs.usgs.gov/fs/2004/3072/fs-2004-3072.html]).



Steep Slopes >30 Percent

- Areas in pink depict steep slopes in Tooele County (data extracted from a 10-meter digital elevation model courtesy of UGRC).

Hazard Profile

Location

Area of Impact	Isolated

Timing

Duration	Seconds to minutes
Speed of Onset	Seconds
Seasonal Pattern	Late fall through spring

Occurrence

Frequency	High
Probability of Future Occurrence	High

Impact

Severity	Minor

RELATED HAZARDS

Earthquakes can trigger an avalanche on steep stopes

Planning Resources

Visit gis.utah.gov for access to topographic datsets.

Visit geology.utah.gov for more information on unstable slopes and soils.

WILDFIRE

Description

A wildfire is an unwanted fire spreading uncontrolled through primarily wildland vegetation. Wildfire probability depends on fuel, weather and topography. Wildfires can occur in the:

- Wildland: An area where development is almost nonexistent, except for roads, railroads, or power lines, and the
- Wildland Urban Interface (WUI): An area where structures and other human development meet or intermingle with wildland or vegetation fuels

Fuel: Anything that will burn including vegetation and structures

Weather: High temperatures, low humidity and high winds increase the likelihood that a wildfire will spread.

Topography: Affects speed at which a wildfire will spread. A fire will move more quickly uphill which causes hot gases to rise in front of it. These gases in turn, pre-heat and dry vegetation ahead of the wildfire causing it to catch fire more rapidly.

Wildfire in Tooele County

Between 1972 and 2018 there were 292 wildfires, or an average of 5 per year. Most wildfires were naturally occurring and less than 0.1 acres in size. However, the Region also experiences human-caused wildfires, and averages about 2 wildfires that burn 500 acres or more per year.

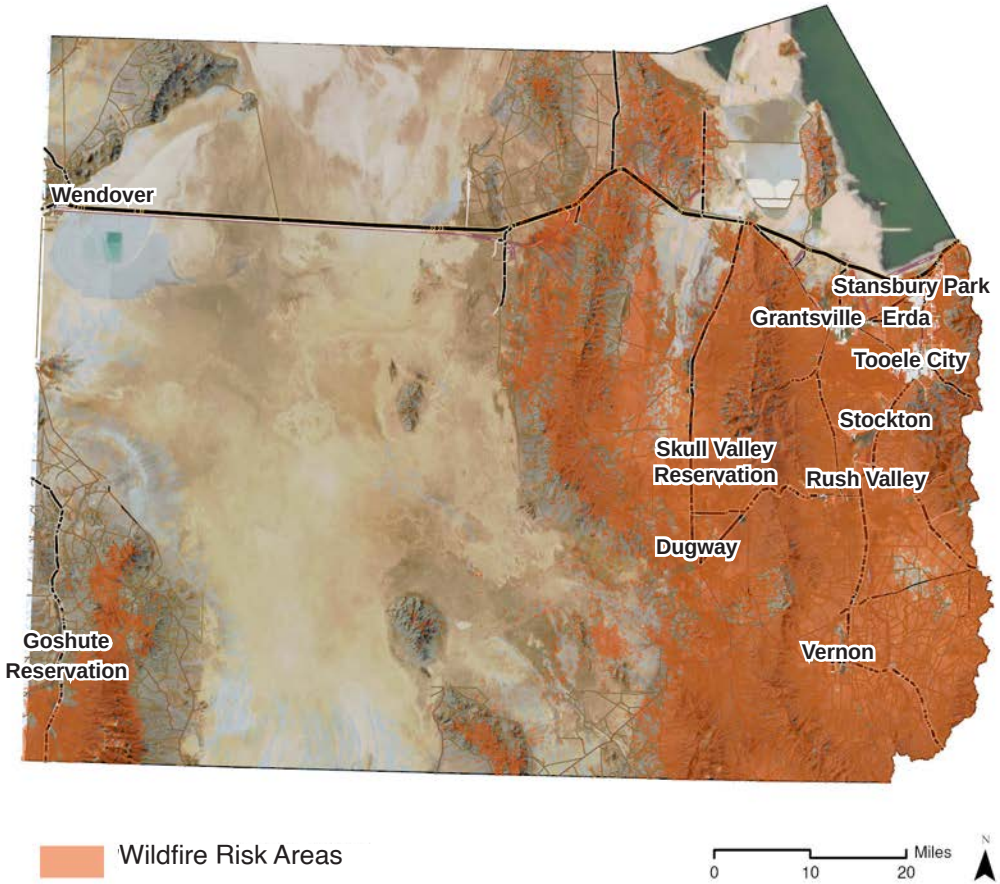
Most recently, the following wildfires threatened communities in Tooele County between 2018 and 2021:

- Middle Canyon Wildland Fire July 2018
- Cedar Mountain Fire July 2018
- Green Ravine Wildland Fire August 2019
- Stansbury Island Fire May 2020
- Puddle Valley Fire May 2021

Wildfires are prevalent in areas of pinyon-juniper woodland, invasive grasses, such as cheat grass, and stands of coniferous and hardwood trees.

Tooele County Goals

- Work with Utah Forestry, Fire and State Lands, the U.S. Forest Service, the BLM, and other land management agencies and private landowners to decrease fuel loads in high risk areas.
- Educate local residents on risk reduction strategies such as defensible space and sprinkler systems in high risk areas.



- Areas in orange represent moderate to high wildfire risk (data from the Wildfire Hazard Potential map courtesy of the US Forest Service, Fire Modeling Institute).

Hazard Profile

Location

Area of Impact	Isolated to widespread

Timing

Duration	Hours to weeks
Speed of Onset	Hours
Seasonal Pattern	Early summer through fall

Occurrence

Frequency	High
Probability of Future Occurrence	High

Impacts

Severity	Minor to extensive

Related Hazards

Drought can increase dry fuels
Earthquake damage could ignite a wildfire
Flood/Landslide can result from a burn scar
High Winds damage could ignite a wildfire and/or increase dry fuels
Lightning can ignite a wildfire

Planning Resources

ACTIVE WILDFIRES IN UTAH:
https://utahfireinfo.gov/active-wildfires/

WILDFIRE OUTLOOK:
https://www.nifc.gov/nicc/predictive/outlooks/outlooks.htm

PLANNING FOR WILDFIRE:
https://www.fs.fed.us/openspace/fote/reports/GTR-299.pdf
https://www.nfpa.org/Public-Education/Fire-causes-and-risks/Wildfire

WILDLIFE

Description

Infrastructure corridors traverse the landscape, including wildlife habitat. The result is an increased likelihood of vehicle-wildlife crashes. Factors that contribute to vehicle-wildlife crashes can include:

- Proximity to suitable wildlife habitat
- Season
- Weather
- Size of road
- Traffic volume of road
- Speed of vehicles
- Road surface type
- Proximity to human development

Wildlife Crashes in Tooele County

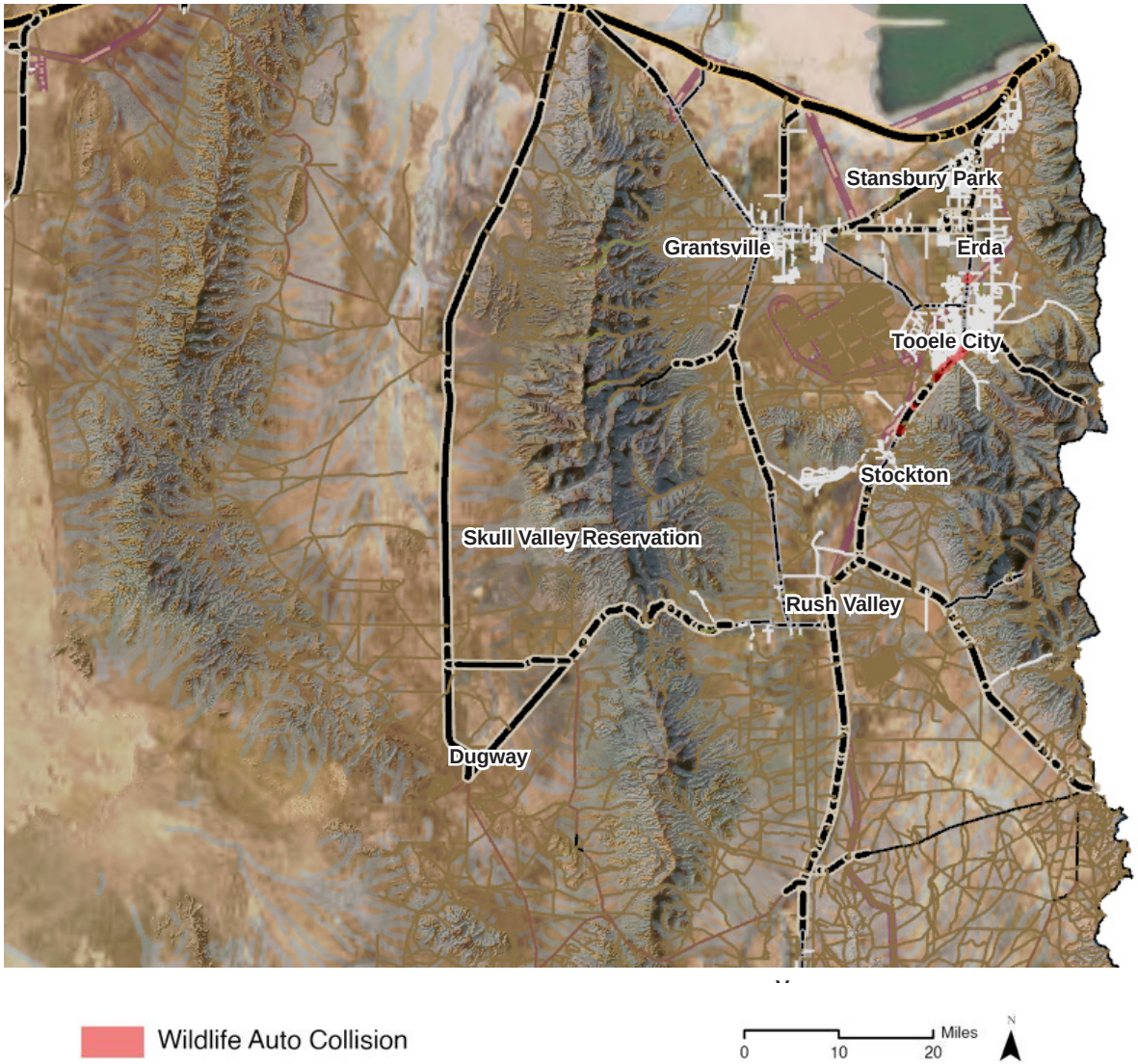
Wildlife crashes can occur on any road in Tooele County. The Utah Department of Transportation collects crash data for state highways in the region. More crashes occur during the winter when deer, elk and moose come down to lower elevations for food.

Areas with historically high rates of vehicle-wildlife crashes are often areas near populated and well travel corridors, including:

- Highway 36 Corridor (south and north of Tooele City)

It is unclear how many fatal accidents have occured from wildlife crashes in Tooele County since 2016.

Tooele County Goals



- Areas in red represent high risk areas for wildlife-auto collisions based on historical data from the Utah Department of Transportation (UDOT).

Hazard Profile

Location

Area of Impact	Isolated

Timing

Duration	Seconds
Speed of Onset	Seconds
Seasonal Pattern	Anytime of year, higher rates of crashes in winter

Occurrence

Frequency	High
Probability of Future Occurrence	High

Impact

Severity	Minor to serious

Related Hazards

Drought, Flood and Wildfire can all cause wildlife to migrate in and out of their home range

Planning Resources

METHODS FOR REDUCING TRAFFIC CRASHES INVOLVING DEER:
https://defenders.org/sites/default/files/publications/methods_to_reduce_traffic_crashes_involving_deer.pdf

NFIP, REPETITIVE LOSSES, AND COMMUNITY CAPABILITIES

National FloodPlain Insurance Program (NFIP) Compliance

The NFIP was created to reduce the impacts of flooding on private and public structures by providing affordable insurance to property owners, renters and businesses. This is accomplished by encouraging communities to adopt and enforce floodplain management regulations to help mitigate the effects of flooding on new and improved structures. Included in the program is the reduction of repetitive loss properties.

During the planning process, Floodplain Administrators (FPA's) were invited via local elected and appointed officials and community staff, many of which are currently serving in that capacity in addition to other duties.

NFIP Participation

The list to the right shows communities that are, and are not, active participants in the NFIP. Any flood related mitigation strategies that these communities created related to continued compliance with NFIP were described in their mitigation action.

National Flood Insurance Program (NFIP) Participation and Flood Data/Status

	Community Name	CID	Initial FIRM Identified	Current Effective Map Date	Online FIRM?	GIS Data Available**
TOOELE COUNTY	*Confederate Tribe of the Goshute Reservation*	***NO INFORMATION AVAILABLE***				
	Erda				Y	Limited
	Grantsville	490141#	11/18/2009	(NSFHA)	N	N
	Lake Point				N	N
	Ophir				N	N
	Pine Canyon				Y	N
	Rush Valley	***NOT PARTICIPATING***			Y	Y
	Skull Valley				N	N
	Stansbury Park				N	N
	Stockton	490144#	8/5/1980	11/18/09(M)	Y	Y
	Tooele	490145#	9/29/1989	11/18/2009	Y	Y
	Tooele County	490140#	11/16/1990	11/18/09(M)	Y	Y
	Vernon	***NOT PARTICIPATING***			Y	Y
	Wendover	490222#	8/19/1980	11/18/09(M)	Y	Y

Source: Federal Emergency Management Agency (FEMA) National Flood Insurance Program, 2021
* Unincorporated areas only
**(GIS) Geographic Information Systems (Mapping and geographic analysis software)
(E) Emergency Program or (R) Regular Program
(NSFHA) No Special Flood Hazard Area

Repetitive Loss Properties

A repetitive loss property is any insurable building that has had two or more claims of more than $1,000 paid by the NFIP within a rolling ten-year period. As of October of 2021, there are no repetitive loss properties in the Tooele County.

Community Capabilities

The following is a description of the planning, regulatory, administrative and technical capabilities for the region. Capabilities were generalized for the region because most jurisdictions have similar resources available to them.

Planning and Regulatory Capabilities

Most incorporated jurisdictions in Tooele County have an adopted General Plan as required by state code. Although some communities have recently updated their General Plan, some are very outdated and have not been revised in years. Generally speaking, if these plans address natural hazards at all, they are addressed generally.

All of the seven municipalities have an adopted zoning ordinance, including Tooele County. For the smaller communities these ordinances can be outdated and may not be as consistent with the jurisdiction's General Plan as would be ideal.

Most zoning ordinances do not address natural hazards even if they are mentioned in the General Plan. A few communities have a "sensitive area" or "hazard area" overlay zone, but they are very basic, often mentioning a brief requirement for geotechnical reports or other studies. All incorporated communities issue building permits and enforce local building codes. This service is usually contracted out to the county.

Many of the smaller communities lack emergency response plans.

Local Organizational and Technical Capabilities

Only a handful of communities in Tooele County have full or part-time professional staff of any kind. In many cases a limited tax base means that hiring professional staff in the smaller cities and towns is financially unobtainable. Often these smaller communities rely on local volunteers or elected and appointed officials to perform many of the tasks normally handled by professional staff.

It's not uncommon to have volunteer city council members or planning commissioners assigned the task of emergency management, grant writing, or long-range planning. Professional staff with Tooele County Emergency Management help provide some technical and natural hazards planning assistance to some of the smaller communities. This assistance is often limited by staffing capacity and funding. As funding allows, some communities are able to contract for professional services from private consultants.

Only Tooele County, Tooele City, Dugway Proving Grounds, and Grantsville have staff that is, for the most part, dedicated full-time to emergency management, planning, public works, or related tasks.

Jurisdictional Capability to Expand Policies and Program

Each incorporated community in Tooele County is authorized by state law to regulate land use activities and plan for future growth in their respective community. By law, cities, towns, and counties are required to address land use, transportation, and affordable housing (for larger communities) in their community General Plan. Especially in recent years, communities have been much more proactive with updating their plans to include more detail and more fully comply with state codes and ordinances, and to protect them from liability should a natural hazard event occur.

However, many of the smaller cities and towns do not have adequate funding, staffing, or financial resources to update their local General Plan every 3-5 years per state and other recommendations. In fact, some communities have not updated their General

Plans since they were first created in the late 1970's and early 1980's. These smaller jurisdictions often do not have the resources to expand on or improve existing policies and programs as professionally, extensively, or as timely, as the larger jurisdictions do. There are some resources which can help, although they are limited. Tooele County, Utah League of Cities and Towns, The State of Utah, and other resources are available, but each has limited funding, staffing, or resources to provide assistance.

Those communities with full-time staff are much more likely to have adequate capacity to apply for funding or update the General Plan and other plans/documents in house. See the table to the right which shows staffing, emergency response capacity, and technical capacity for jurisdictions in Tooele County.

LOCAL COMMUNITY CAPABILITIES - TOOELE COUNTY

	Jurisdiction	Professional Staffing (e.g. Emergency Manager, City Manager, Engineer, Planner)	Emergency Response Capacity	Technical Capacity (In House)
Incorporated Communities	**TOOELE COUNTY**	County Emergency Management, Building and Development Services, Roads Department	Fire, EMS, and Law	Planning and Development, GIS, Engineering
	Grantsville City	Public Works, Planning and Zoning Administrator, Building Official	Local Fire, EMS, and Law	Planning and Development
	Ophir Town	Volunteer\County consultant	County Fire, County Law and Contracted EMS	None
	Rush Valley Town	Volunteer\County consultant	Local Fire, County Law and Contracted EMS	None
	Stockton Town	Volunteer\County consultant	Local Fire and Law and Contracted EMS	None
	Tooele City	Community Development, Public Works, Engineering	Local Fire, EMS, and Law	Planning and Development, GIS, Engineering
	Vernon Town	Volunteer\County consultant	Local Fire, County Law and Contracted EMS	None
	Wendover City	Volunteer\County consultant	Local Fire, County Law and Contracted EMS	None
Unincorporated Communities	Dugway	Military Oversight, Emergency Management, GIS support	Local Fire, EMS, and Law	Planning, Engineering, GIS
	Erda	Volunteer\County consultant	Local Fire, County Law and Contracted EMS	None
	Goshute Reservation	Volunteer\County consultant	Local Fire, County Law and Contracted EMS	None
	Lake Point	Volunteer\County consultant	Local Fire, County Law and Contracted EMS	None
	Pine Canyon	Volunteer\County consultant	Local Fire, County Law and Contracted EMS	None
	Skull Valley	Volunteer\County consultant	Local Fire, County Law and Contracted EMS	None
	Stansbury Park	Stansbury Park Service Agency	Local Fire, County Law and Contracted EMS	None

MITIGATION STRATEGY GOALS

The following goals reflect the collective conditions that jurisdictions in the region would like to meet to mitigate natural hazards. Jurisdictions developed their mitigation strategies based on these goals with a particular emphasis on developing two goals for each hazard. One for protecting current residents and property, and one for protecting future residents and property. Jurisdictions were encourage to develop their own community specific goals. No jurisdictions elected to develop any. In Section 4-9, each jurisdictions mitigation strategy coincides with at least one for the following goals for either current or future residents and property. Goals in that section were denoted with the goal number and whether it applies to "C" current, "F" future or "CF" current and future residents and property. For example: 5C means consider minimize damages and losses to critical facilities, structures and infrastructure for current residents.

Regional Mitigation Strategy Goals

1. Eliminate and/or reduce loss of life from natural hazard events;
2. Protect the health, safety and welfare of residents before, during and after a natural hazard, especially for vulnerable populations;
3. Improve and promote systems that provide early warning communications prior to and during an emergency;
4. Minimize damages and losses to critical facilities, structures and infrastructure;
5. Consider maintaining or improving existing facilities, structure and infrastructure before building new;
6. Incorporate hazard mitigation into building codes, land use ordinances, long-range planning, budgeting and other development related actives;
7. Improve public outreach and access to hazard information, data, and maps to enhance understanding of natural hazards and their risk;
8. Improve public knowledge of natural hazards and protective measures so individuals can prepared for and respond to them;
9. Educate public officials, developers, realtors, contractors, buildings owners and the general public about hazards risks and developing contingency plans;
10. Protect, maintain and restore natural systems, features and other environmentally important lands that provide mitigation, such as floodplains, riparian areas and other open spaces;
11. Form partnerships to leverage and share resources;
12. Increase the coordination and cooperation among local, state and federal governments, and private organizations in carrying out hazard mitigation actions; and
13. Monitor, evaluate and record natural hazard areas and events through mapping and other tracking methods

Prioritization of Mitigation Strategies

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, staffing, and other resource constraints.

Probability of occurrence, impacts to people, property, economy and future development were summarized during the assessment of vulnerability (risk summary tables) and were also considered for priority and time line values. Priorities were also based on community staffing, resources, and elected official support. High priority strategies are supported by elected officials, there is staffing to manage the project, and the community has resources for implemenation. Medium priority projects were based on at least two of those elements, and low priority projects were based on one element.

SECTION 5
TOOELE COUNTY COMMUNITIES SECTION

Table of Contents

5.1 GRANTSVILLE CITY

5.2 RUSH VALLEY CITY

5.3 STOCKTON CITY

5.4 TOOELE CITY

5.5 VERNON CITY

5.6 WENDOVER

5.7 UNINCORPORATED TOOELE COUNTY

5.1 GRANTSVILLE CITY

5.1.2 Grantsville City - Future Development Risk - Critical Infrastructure

5.1.3 Grantsville City -Hazards

1. Avalanche
2. Dam Inundation
3. Earthquake
4. Erosion
5. Flood
6. Problem Soils
7. Wildfire

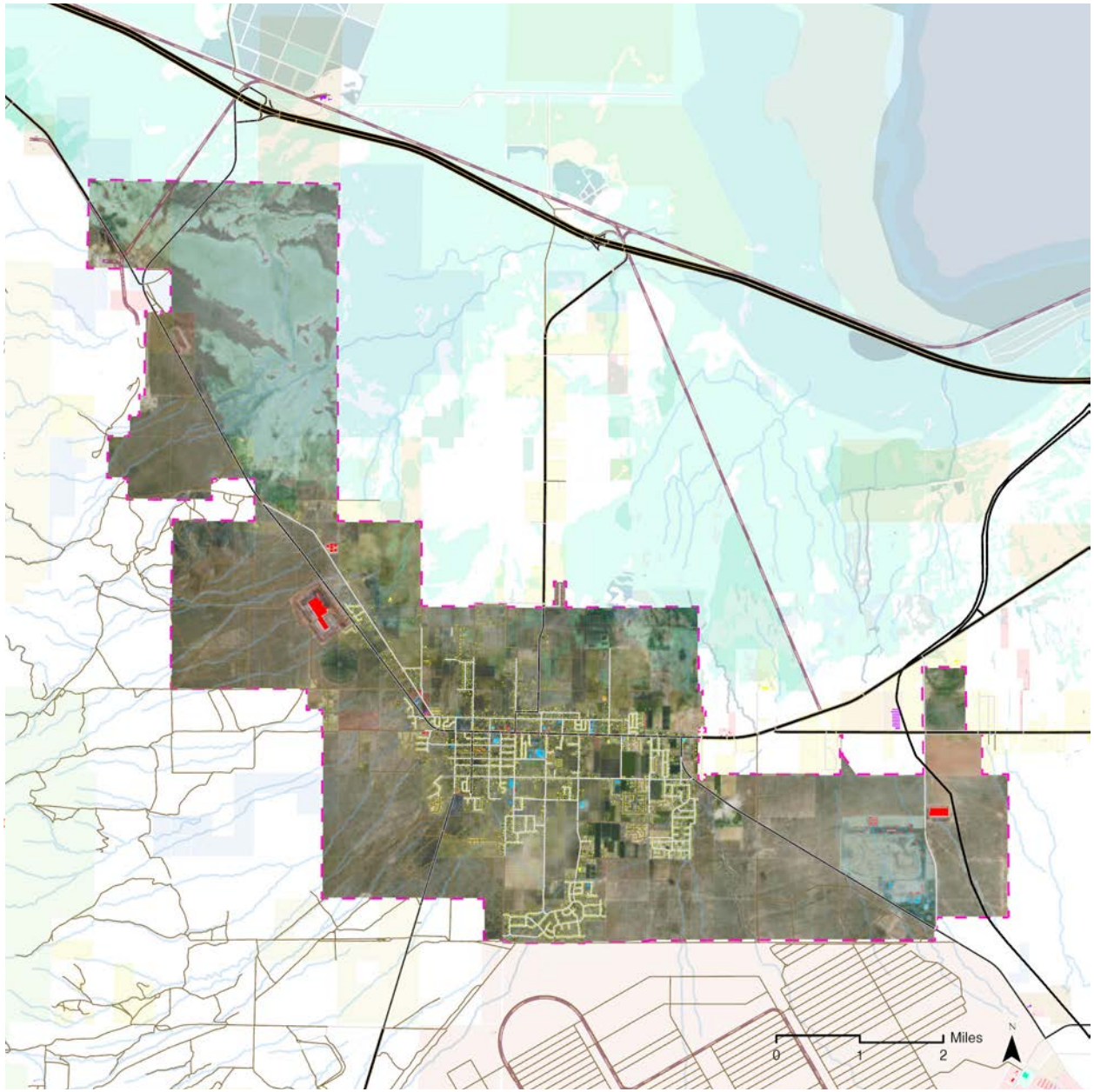
5.1.4 Grantsville City - Risk Assessment Results

1. Building Footprints - Structures
2. Point Data - Features
3. Parcel Data
4. Line Data
5. Area Data

5.1.5 Grantsville City - Mitigation Stratagies

Risk Summary

- Avalanche
- Dam Inundation
- Earthquake
- Erosion
- Flood
- Problem Soils
- Wildfire

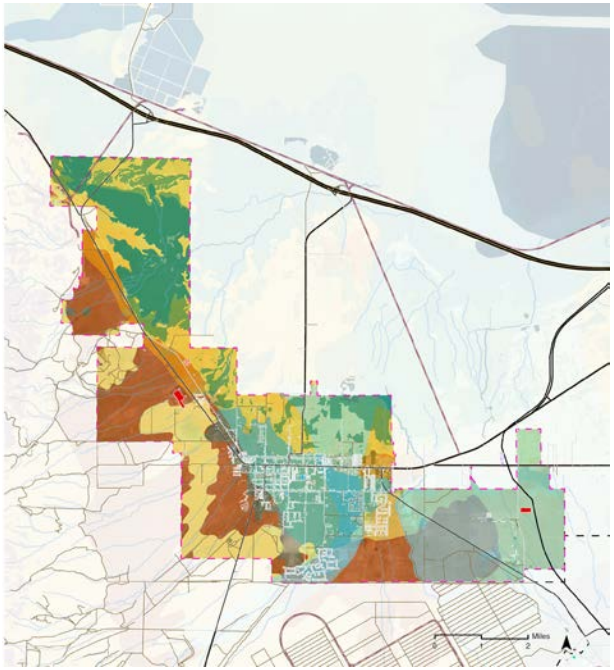


Aerial image of Grantsville City.

5.1.2 GRANTSVIILLE CITY - FUTURE DEVELOPMENT RISK

Risk to Future Development

New development is anticipated in 2 areas of Grantsville. The area just south of Durfee Street in Grantsville City is the first. Potential natural hazards in this area include unsuitable soils for dwellings, dam inundation, liquefaction, and flooding. The second is the areas west of State Road SR138 on the west side of town which are in the Wildland Urban Interface zone and FEMA flood zones.



Risk	Total Acres
AvalancheTerrain	10
Flood_Dam Inundation	7,304
Flood_Wetland/Riparian	4,511
Flood_Soils Purdue	5,437
Flood_USU Valley Bottom	33
SGID_Engineering PS	723
Steep Slope	83
Wildfire	14,420
Dwellings Without Basements	16,849
Dwellings With Basements	16,849
Erosion_Road Trail	5,666
Erosion_Off Road Trail	432
Liquefaction	10,236

Grantsville City - Risk Summary

Hazard Type	*Probability of Occurence*	*Population Impact*	*Property Impact*	*Econmic Impact*	*Future Development Impact*	*Overall Risk*
Avalanche	High	Low	Low	Low	Low	Low
Dam Inundation	Low	High	High	Hgih	Low	Low
Earthquake	Low	High	High	High	Moderate	Moderate
Erosion	High	Low	High	Medium	Moderate	Moderate
Flood	High	Moderate	High	High	Moderate	High
Problem Soils	Moderate	low	Moderate	Moderate	High	Moderate
Wildfire	High	Moderate	High	High	Moderate	High

5.1.3 GRANTSVILLE CITY - HAZARDS

Avalanche Terrain 10 ac

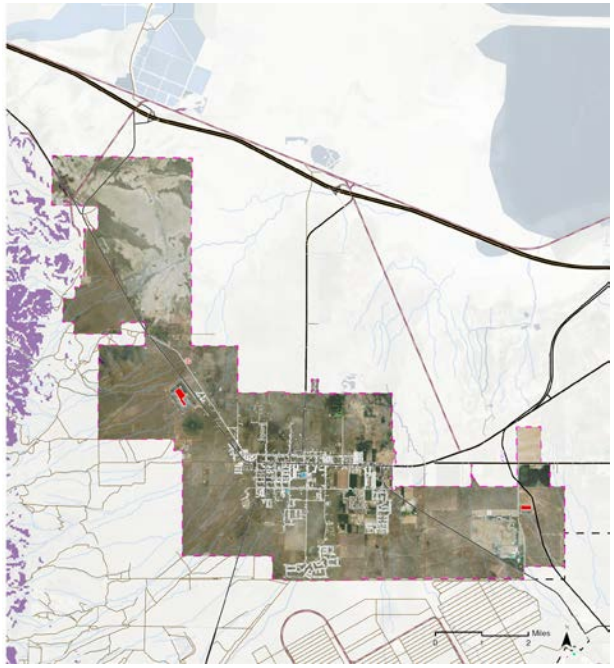
There is very limited avalanche terrain in Grantsville, consisting of small sections in the extreme northwest mountains. No significant losses to current development were discovered.

Earthquake Liquefaction 10,236 ac

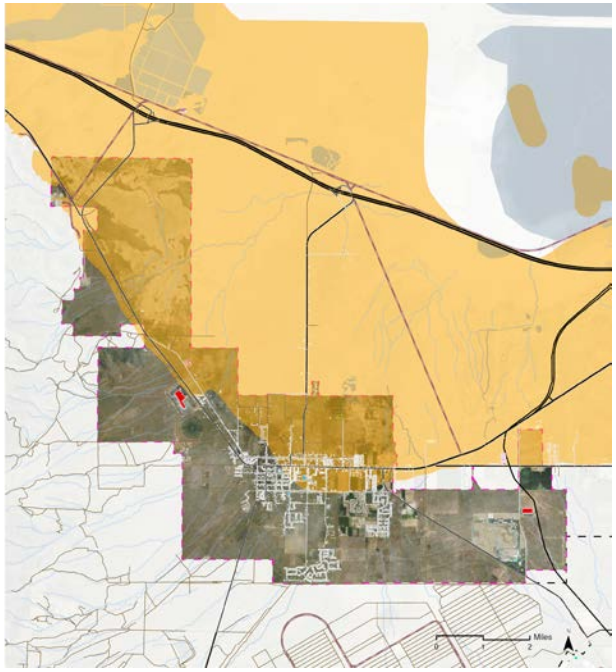
The entire northern half of the developed areas in Grantsville are at potential risk to liquefaction during an earthquake. This includes homes, businesses, roads and other infrastructure, and other amenities. Included in these potential risk areas are: 61 businesses, 5 churches, 21 local government buildlings, and over 1,500 homes, and other facilities, and 30+ miles of roads.

Erosion_Road Trail 5,666 ac
Erosion_Off Road Trail 432 ac

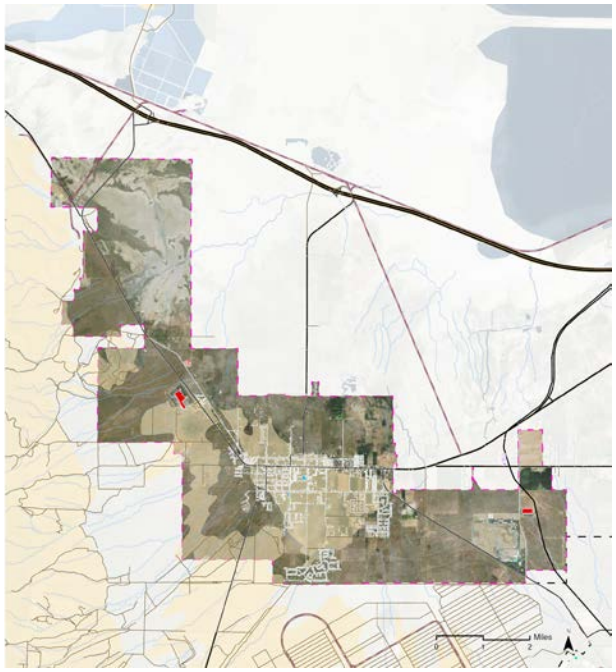
Most of the developed areas in town have soils that are prone to erosion related to trails. However, though the vast majority of homes and infrastructure are constructed on erosive soils for roads and trails, these soils do not pose a direct risk to local residents or infrastructure.



Avalanche Terrain



Liquefaction Risk



Erosive Soils (Roads and Trails)

5.1.3 GRANTSVILLE CITY - HAZARDS

Flood_Wetland/Riparian 4,511 ac
Flood_Soils Purdue 5,437 ac
Flood_USU Valley Bottom 33 ac
Dam Innundation

A significant number of residences, businesses and local infrastructure are at risk from flooding in town and northwest of town. Potential losses include over 40 miles of roads, 7 schools, 14 churches, 1 fire station, 17 local government buildings, 37 commerical buildings, around 2,300 homes and apartments, and other critical facilities.

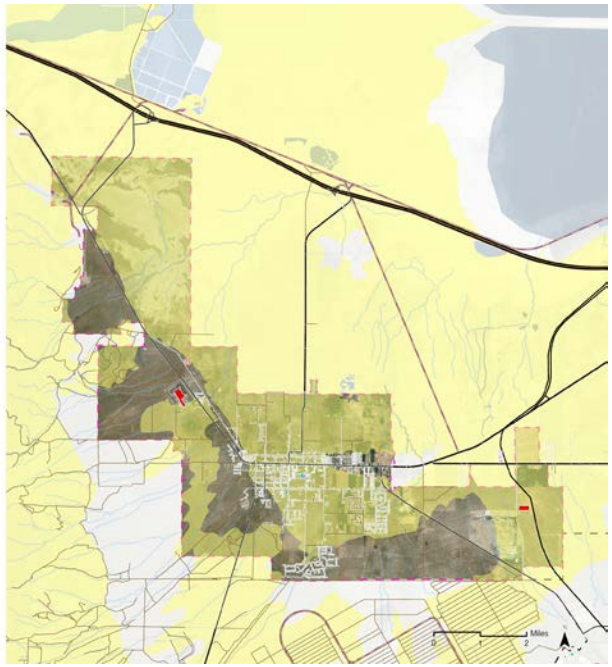
Problem Engineering Soils
Dwellings Without Basements 16,849 ac
Dwellings With Basements 16,849 ac
SGID_Engineering PS 723 ac

Over half of the area within Grantsville's municipal boundary consists of poor soils or those which could compromise structures if not properly engineered. However, modern building codes help to mitigate development in these soil types. As such, potential loss figures may not accurately depict true risk.

Steep Slope 83 ac

Most of Grantsville is fairly flat, and only small sections of land northwest of town are too steep to builid on. As such, potential losses could be considered negligible.

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



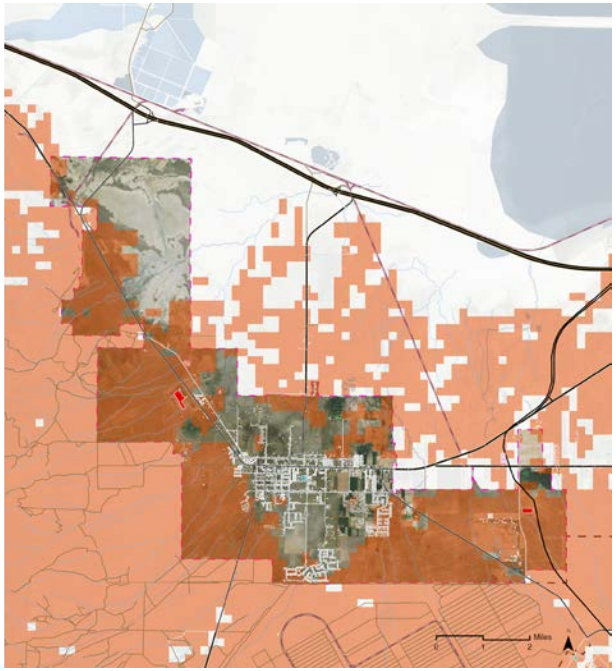
Problem Soils

Steep Slopes >30%

5.1.3 GRANTSVILLE CITY - HAZARDS

WILDFIRE 14,420 AC

Grantsville has significant to wildfire risk from the mountains and benches west and south of town, as well as the grassy fields in town. During dry years, high fuel loads in these areas could cause high wildfire risk. Potential losses include 88 commerical buildings, over 740 homes, 1 museum, 2 heliports, many drainages and wetlands, and other amenities.



Wildflire Hazard

5.1.4.1 GRANTSVILLE CITY | RISK ASSESMENT RESULTS | BUILDING FOOTPRINTS

Grantsville City - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Buildings
DwellingsWithBasements	Commercial	Commercial	92
DwellingsWithBasements	Commercial	Grocery_Store	1
DwellingsWithBasements	Community Resource	Community Center	20
DwellingsWithBasements	Community Resource	Ed_Kto12	5
DwellingsWithBasements	Community Resource	Ed_PreK	1
DwellingsWithBasements	Community Resource	Museum	8
DwellingsWithBasements	Community Resource	PlaceofWorship	14
DwellingsWithBasements	Emergency Facility	FireStation	1
DwellingsWithBasements	Government Facility	LocalGov	22
DwellingsWithBasements	Government Facility	Post_Office	1
DwellingsWithBasements	Industrical	Industrial	5
DwellingsWithBasements	Other	Out	14
DwellingsWithBasements	Residential	Apartment	39
DwellingsWithBasements	Residential	Commercial_ Residential	16
DwellingsWithBasements	Residential	Condominium	6
DwellingsWithBasements	Residential	Duplex	9
DwellingsWithBasements	Residential	Fourplex_Triplex	5
DwellingsWithBasements	Residential	Manufactured	138
DwellingsWithBasements	Residential	Res_LowIncome	15
DwellingsWithBasements	Residential	Res_MobileHome	126
DwellingsWithBasements	Residential	Res_Modular	10
DwellingsWithBasements	Residential	Residential	2535
DwellingsWithoutBasements	Commercial	Commercial	92
DwellingsWithoutBasements	Commercial	Grocery_Store	1

Grantsville City - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Buildings
DwellingsWithoutBasements	Community Resource	Community Center	20
DwellingsWithoutBasements	Community Resource	Ed_Kto12	5
DwellingsWithoutBasements	Community Resource	Ed_PreK	1
DwellingsWithoutBasements	Community Resource	Museum	8
DwellingsWithoutBasements	Community Resource	PlaceofWorship	14
DwellingsWithoutBasements	Emergency Facility	FireStation	1
DwellingsWithoutBasements	Government Facility	LocalGov	22
DwellingsWithoutBasements	Government Facility	Post_Office	1
DwellingsWithoutBasements	Industrical	Industrial	5
DwellingsWithoutBasements	Other	Out	14
DwellingsWithoutBasements	Residential	Apartment	39
DwellingsWithoutBasements	Residential	Commercial_ Residential	16
DwellingsWithoutBasements	Residential	Condominium	6
DwellingsWithoutBasements	Residential	Duplex	9
DwellingsWithoutBasements	Residential	Fourplex_Triplex	5
DwellingsWithoutBasements	Residential	Manufactured	138
DwellingsWithoutBasements	Residential	Res_LowIncome	15
DwellingsWithoutBasements	Residential	Res_MobileHome	126
DwellingsWithoutBasements	Residential	Res_Modular	10
DwellingsWithoutBasements	Residential	Residential	2535
Erosion_OffRoadTrail	Industrical	Industrial	1
Erosion_RoadTrail	Commercial	Commercial	37
Erosion_RoadTrail	Commercial	Grocery_Store	1
Erosion_RoadTrail	Community Resource	Community Center	1

5.1.4.1 GRANTSVIILLE CITY I RISK ASSESMENT RESULTS I BUILDING FOOTPRINTS

Grantsville City - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Buildings
Erosion_RoadTrail	Community Resource	Ed_Kto12	5
Erosion_RoadTrail	Community Resource	Ed_PreK	1
Erosion_RoadTrail	Community Resource	Museum	8
Erosion_RoadTrail	Community Resource	PlaceofWorship	14
Erosion_RoadTrail	Emergency Facility	FireStation	1
Erosion_RoadTrail	Government Facility	LocalGov	17
Erosion_RoadTrail	Government Facility	Post_Office	1
Erosion_RoadTrail	Industrical	Industrial	3
Erosion_RoadTrail	Other	Out	4
Erosion_RoadTrail	Residential	Apartment	39
Erosion_RoadTrail	Residential	Commercial_ Residential	15
Erosion_RoadTrail	Residential	Condominium	6
Erosion_RoadTrail	Residential	Duplex	9
Erosion_RoadTrail	Residential	Fourplex_Triplex	5
Erosion_RoadTrail	Residential	Manufactured	113
Erosion_RoadTrail	Residential	Res_LowIncome	15
Erosion_RoadTrail	Residential	Res_MobileHome	108
Erosion_RoadTrail	Residential	Res_Modular	9
Erosion_RoadTrail	Residential	Residential	2109
Flood_DamInundation	Commercial	Commercial	78
Flood_DamInundation	Commercial	Grocery_Store	1
Flood_DamInundation	Community Resource	Community Center	21
Flood_DamInundation	Community Resource	Library	1

Grantsville City - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Buildings
Flood_DamInundation	Community Resource	Museum	2
Flood_DamInundation	Community Resource	PlaceofWorship	4
Flood_DamInundation	Government Facility	LocalGov	7
Flood_DamInundation	Government Facility	LocalGov_Police	1
Flood_DamInundation	Other	Out	6
Flood_DamInundation	Residential	Apartment	18
Flood_DamInundation	Residential	Commercial_ Residential	1
Flood_DamInundation	Residential	Duplex	2
Flood_DamInundation	Residential	Manufactured	40
Flood_DamInundation	Residential	Res_MobileHome	70
Flood_DamInundation	Residential	Residential	981
Flood_SoilsPurdue	Commercial	Commercial	37
Flood_SoilsPurdue	Commercial	Grocery_Store	1
Flood_SoilsPurdue	Community Resource	Ed_Kto12	5
Flood_SoilsPurdue	Community Resource	Ed_PreK	1
Flood_SoilsPurdue	Community Resource	Museum	8
Flood_SoilsPurdue	Community Resource	PlaceofWorship	14
Flood_SoilsPurdue	Emergency Facility	FireStation	1
Flood_SoilsPurdue	Government Facility	LocalGov	17
Flood_SoilsPurdue	Government Facility	Post_Office	1
Flood_SoilsPurdue	Industrical	Industrial	2
Flood_SoilsPurdue	Residential	Apartment	39

5.1.4.1 GRANTSVILLE CITY | RISK ASSESMENT RESULTS | BUILDING FOOTPRINTS

Grantsville City - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Buildings
Flood_SoilsPurdue	Residential	Commercial_ Residential	15
Flood_SoilsPurdue	Residential	Condominium	6
Flood_SoilsPurdue	Residential	Duplex	9
Flood_SoilsPurdue	Residential	Fourplex_Triplex	5
Flood_SoilsPurdue	Residential	Manufactured	92
Flood_SoilsPurdue	Residential	Res_LowIncome	15
Flood_SoilsPurdue	Residential	Res_MobileHome	115
Flood_SoilsPurdue	Residential	Res_Modular	9
Flood_SoilsPurdue	Residential	Residential	2028
Flood_Wetland/Riparian	Commercial	Commercial	3
Flood_Wetland/Riparian	Residential	Condominium	1
Flood_Wetland/Riparian	Residential	Res_MobileHome	8
Flood_Wetland/Riparian	Residential	Residential	28
Liquefaction	Commercial	Commercial	59
Liquefaction	Commercial	Grocery_Store	2
Liquefaction	Community Resource	Ed_Kto12	1
Liquefaction	Community Resource	Library	1
Liquefaction	Community Resource	PlaceofWorship	5
Liquefaction	Emergency Facility	MedicalFacility	1
Liquefaction	Emergency Facility	MedicalFacility_ PlaceofWorship	1
Liquefaction	Government Facility	LocalGov	20
Liquefaction	Government Facility	LocalGov_Police	1
Liquefaction	Government Facility	Post_Office	1
Liquefaction	Industrical	Industrial	7

Grantsville City - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Buildings
Liquefaction	Other	Out	9
Liquefaction	Residential	Apartment	27
Liquefaction	Residential	Commercial_ Residential	13
Liquefaction	Residential	Condominium	6
Liquefaction	Residential	Duplex	10
Liquefaction	Residential	Fourplex_Triplex	3
Liquefaction	Residential	Manufactured	80
Liquefaction	Residential	Res_MobileHome	110
Liquefaction	Residential	Res_Modular	3
Liquefaction	Residential	Residential	1313
Wildfire	Commercial	Commercial	88
Wildfire	Community Resource	Community Center	17
Wildfire	Community Resource	Museum	1
Wildfire	Government Facility	LocalGov	2
Wildfire	Industrical	Industrial	2
Wildfire	Other	Out	11
Wildfire	Residential	Commercial_ Residential	1
Wildfire	Residential	Manufactured	33
Wildfire	Residential	Res_MobileHome	2
Wildfire	Residential	Residential	714
SGID_EngineeringPS	Industrical	Industrial	2

5.1.4.2 GRANTSVIILLE CITY I RISK ASSESMENT RESULTS I CRITICAL FACILITIES

Grantsville Citty - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
DwellingsWithBasements	Community	Cemetery	1
DwellingsWithBasements	Community	ED_K12	4
DwellingsWithBasements	Community	Ed_PreK	3
DwellingsWithBasements	Community	GroceryStore	2
DwellingsWithBasements	Community	PlaceofWorship	8
DwellingsWithBasements	Emergency	FireStation	1
DwellingsWithBasements	Emergency	HealthCareFacility	1
DwellingsWithBasements	Emergency		3
DwellingsWithBasements	Energy	FuelStation_Gas	3
DwellingsWithBasements	Energy	SubstationRegulator	2
DwellingsWithBasements	Energy	Well_OilGas	1
DwellingsWithBasements	Government	PostOffice	1
DwellingsWithBasements	Natural	SpringSeep	23
DwellingsWithBasements	Other	Tower_	1
DwellingsWithBasements	Other	Tower_	4
DwellingsWithBasements	Other	Tower_ MicrowaveService	1
DwellingsWithBasements	Recreation	Campground	1
DwellingsWithBasements	Recreation	CommunityCenter	2
DwellingsWithBasements	Recreation	HistoricSites	4
DwellingsWithBasements	Recreation	Museum	3
DwellingsWithBasements	Recreation	Park	1
DwellingsWithBasements			19
DwellingsWithBasements	Water	Dam	1
DwellingsWithBasements	Water	Well_Log	543
DwellingsWithBasements	Water	Well_NHD	7
DwellingsWithBasements	Water	Well_	2
DwellingsWithoutBasements	Community	Cemetery	1
DwellingsWithoutBasements	Community	ED_K12	4
DwellingsWithoutBasements	Community	Ed_PreK	3
DwellingsWithoutBasements	Community	GroceryStore	2

Grantsville Citty - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
DwellingsWithoutBasements	Community	PlaceofWorship	8
DwellingsWithoutBasements	Emergency	FireStation	1
DwellingsWithoutBasements	Emergency	HealthCareFacility	1
DwellingsWithoutBasements	Emergency		3
DwellingsWithoutBasements	Energy	FuelStation_Gas	3
DwellingsWithoutBasements	Energy	SubstationRegulator	2
DwellingsWithoutBasements	Energy	Well_OilGas	1
DwellingsWithoutBasements	Government	PostOffice	1
DwellingsWithoutBasements	Natural	SpringSeep	23
DwellingsWithoutBasements	Other	Tower_	1
DwellingsWithoutBasements	Other	Tower_	4
DwellingsWithoutBasements	Other	Tower_ MicrowaveService	1
DwellingsWithoutBasements	Recreation	Campground	1
DwellingsWithoutBasements	Recreation	CommunityCenter	2
DwellingsWithoutBasements	Recreation	HistoricSites	4
DwellingsWithoutBasements	Recreation	Museum	3
DwellingsWithoutBasements	Recreation	Park	1
DwellingsWithoutBasements			19
DwellingsWithoutBasements	Water	Dam	1
DwellingsWithoutBasements	Water	Well_Log	543
DwellingsWithoutBasements	Water	Well_NHD	7
DwellingsWithoutBasements	Water	Well_	2
Erosion_RoadTrail	Community	Cemetery	1
Erosion_RoadTrail	Community	ED_K12	4
Erosion_RoadTrail	Community	Ed_PreK	3
Erosion_RoadTrail	Community	GroceryStore	2
Erosion_RoadTrail	Community	PlaceofWorship	8
Erosion_RoadTrail	Emergency	FireStation	1
Erosion_RoadTrail	Emergency	HealthCareFacility	1
Erosion_RoadTrail	Emergency		2

5.1.4.2 GRANTSVIILLE CITY | RISK ASSESMENT RESULTS | CRITICAL FACILITIES

Grantsville Citty - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Erosion_RoadTrail	Energy	FuelStation_Gas	2
Erosion_RoadTrail	Energy	SubstationRegulator	2
Erosion_RoadTrail	Energy	Well_OilGas	1
Erosion_RoadTrail	Government	PostOffice	1
Erosion_RoadTrail	Other	Tower_	2
Erosion_RoadTrail	Recreation	Campground	1
Erosion_RoadTrail	Recreation	HistoricSites	4
Erosion_RoadTrail	Recreation	Museum	3
Erosion_RoadTrail			19
Erosion_RoadTrail	Water	Dam	1
Erosion_RoadTrail	Water	Well_Log	194
Erosion_RoadTrail	Water	Well_NHD	2
Erosion_RoadTrail	Water	Well_	2
Flood_DamInundation	Community	GroceryStore	1
Flood_DamInundation	Community	Library	1
Flood_DamInundation	Community	PlaceofWorship	2
Flood_DamInundation	Emergency	LawEnforcement	1
Flood_DamInundation	Emergency		2
Flood_DamInundation	Energy	FuelStation_Gas	1
Flood_DamInundation	Government	LocalGovFacility	2
Flood_DamInundation	Other	Tower_	4
Flood_DamInundation	Recreation	CommunityCenter	2
Flood_DamInundation	Recreation	HistoricSites	1
Flood_DamInundation	Recreation	Museum	2
Flood_DamInundation			5
Flood_DamInundation		Heliport	2
Flood_DamInundation	Water	Well_Log	269
Flood_DamInundation	Water	Well_NHD	4
Flood_SoilsPurdue	Community	Cemetery	1
Flood_SoilsPurdue	Community	ED_K12	4
Flood_SoilsPurdue	Community	Ed_PreK	3

Grantsville Citty - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Flood_SoilsPurdue	Community	GroceryStore	2
Flood_SoilsPurdue	Community	PlaceofWorship	8
Flood_SoilsPurdue	Emergency	FireStation	1
Flood_SoilsPurdue	Emergency	HealthCareFacility	1
Flood_SoilsPurdue	Emergency		2
Flood_SoilsPurdue	Energy	FuelStation_Gas	2
Flood_SoilsPurdue	Energy	SubstationRegulator	2
Flood_SoilsPurdue	Energy	Well_OilGas	1
Flood_SoilsPurdue	Government	PostOffice	1
Flood_SoilsPurdue	Natural	SpringSeep	13
Flood_SoilsPurdue	Other	Tower_	1
Flood_SoilsPurdue	Recreation	Campground	1
Flood_SoilsPurdue	Recreation	HistoricSites	4
Flood_SoilsPurdue	Recreation	Museum	3
Flood_SoilsPurdue			19
Flood_SoilsPurdue	Water	Well_Log	141
Flood_SoilsPurdue	Water	Well_NHD	1
Flood_SoilsPurdue	Water	Well_	2
Flood_USUValleyBottom	Water	Well_Log	21
Flood_Wetland/Riparian	Natural	SpringSeep	20
Flood_Wetland/Riparian	Other	Tower_ MicrowaveService	1
Flood_Wetland/Riparian			1
Flood_Wetland/Riparian	Water	Well_Log	203
Flood_Wetland/Riparian	Water	Well_NHD	3
Liquefaction	Community	ED_K12	1
Liquefaction	Community	GroceryStore	3
Liquefaction	Community	Library	1
Liquefaction	Community	PlaceofWorship	3
Liquefaction	Emergency	HealthCareFacility	2
Liquefaction	Emergency	LawEnforcement	1

5.1.4.2 GRANTSVIILLE CITY I RISK ASSESMENT RESULTS I CRITICAL FACILITIES

Grantsville Citty - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Liquefaction	Emergency		2
Liquefaction	Energy	FuelStation_Gas	3
Liquefaction	Energy	Well_OilGas	1
Liquefaction	Government	LocalGovFacility	2
Liquefaction	Government	PostOffice	1
Liquefaction	Natural	SpringSeep	23
Liquefaction	Other	Tower_	1
Liquefaction	Other	Tower_	1
Liquefaction	Other	Tower_ MicrowaveService	1
Liquefaction	Recreation	Campground	1
Liquefaction	Recreation	HistoricSites	1
Liquefaction			16
Liquefaction	Water	Well_Log	423
Liquefaction	Water	Well_NHD	6
Liquefaction	Water	Well_	2
Wildfire	Emergency		1
Wildfire	Energy	FuelStation_Gas	1
Wildfire	Energy	Well_OilGas	1
Wildfire	Natural	SpringSeep	10
Wildfire	Other	Tower_	7
Wildfire	Recreation	CommunityCenter	2
Wildfire	Recreation	Museum	1
Wildfire	Recreation	Park	1
Wildfire		Heliport	2
Wildfire	Water	Dam	1
Wildfire	Water	Well_Log	244
Wildfire	Water	Well_NHD	2

5.1.4.3 GRANTSVIILLE CITY | RISK ASSESMENT RESULTS | PARCEL DATA

Grantsville City - Risk Assessment - Critical Infrastructure Parcel Data					
Hazard	Infrastructure Category	Infrastructure Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
AvalanchTerrain	Other	Manufacture_Industry	1	192.7	$469,239
DwellingsWithBasements	Commercial	Commercial	65	417.4	$87,051,657
DwellingsWithBasements	Community_Resources	Cemetery	4	10.0	$1,000
DwellingsWithBasements	Community_Resources	Comm_Center	1	512.5	$7,031,669
DwellingsWithBasements	Community_Resources	Ed_Kto12	4	41.9	$-
DwellingsWithBasements	Community_Resources	Ed_PreK/Ed_Kto12	3	10.6	$-
DwellingsWithBasements	Community_Resources	Grocery_Store	1	1.1	$1,440,509
DwellingsWithBasements	Community_Resources	Museum	1	0.5	$-
DwellingsWithBasements	Community_Resources	Museum/Comm_Center	1	187.0	$-
DwellingsWithBasements	Community_Resources	PlaceofWorship	8	25.5	$387,345
DwellingsWithBasements	EmergencyServices	Ed_PreK/Museum	2	3.2	$153,800
DwellingsWithBasements	EmergencyServices	Fire_Station/Emergency_Med	1	2.0	$-
DwellingsWithBasements	EmergencyServices	Health_Care	2	5.7	$1,152,836
DwellingsWithBasements	EmergencyServices	Police Department/Local_Gov_Fac	1	8.1	$-
DwellingsWithBasements	Energy	Manufacture_Industry	1	0.6	$253,469
DwellingsWithBasements	LocalGovernment	Local_Gov_Fac	2	4.1	$-
DwellingsWithBasements	LocalGovernment	Post_Office	1	0.8	$339,014
DwellingsWithBasements	Other	Manufacture_Industry	4	850.1	$1,415,983
DwellingsWithBasements	Recreation	Open_Space	8	23.7	$81,500
DwellingsWithBasements	Residential	Res_Munfacture_Mobile_Hookups	135	409.0	$28,227,113
DwellingsWithBasements	Residential	Residential	2469	3,722.1	$554,688,694

5.1.4.3 GRANTSVIILLE CITY | RISK ASSESMENT RESULTS | PARCEL DATA

GRANTSVILLE CITY - RISK ASSESSMENT - CRITICAL INFRASTRUCTURE PARCEL DATA					
Hazard	Infrastructure Category	Infrastructure Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
DwellingsWithBasements	Residential	Residential_Commercial	13	70.5	$4,467,902
DwellingsWithBasements	Residential	Residential_MultiFamily	43	18.1	$11,380,474
DwellingsWithBasements	SITLA	SITLA	4	-	$-
DwellingsWithoutBasements	Commercial	Commercial	65	417.4	$87,051,657
DwellingsWithoutBasements	Community_Resources	Cemetery	4	10.0	$1,000
DwellingsWithoutBasements	Community_Resources	Comm_Center	1	512.5	$7,031,669
DwellingsWithoutBasements	Community_Resources	Ed_Kto12	4	41.9	$-
DwellingsWithoutBasements	Community_Resources	Ed_PreK/Ed_Kto12	3	10.6	$-
DwellingsWithoutBasements	Community_Resources	Grocery_Store	1	1.1	$1,440,509
DwellingsWithoutBasements	Community_Resources	Museum	1	0.5	$-
DwellingsWithoutBasements	Community_Resources	Museum/Comm_Center	1	187.0	$-
DwellingsWithoutBasements	Community_Resources	PlaceofWorship	8	25.5	$387,345
DwellingsWithoutBasements	EmergencyServices	Ed_PreK/Museum	2	3.2	$153,800
DwellingsWithoutBasements	EmergencyServices	Fire_Station/Emergency_Med	1	2.0	$-
DwellingsWithoutBasements	EmergencyServices	Health_Care	2	5.7	$1,152,836
DwellingsWithoutBasements	EmergencyServices	Police Department/Local_Gov_Fac	1	8.1	$-
DwellingsWithoutBasements	Energy	Manufacture_Industry	1	0.6	$253,469
DwellingsWithoutBasements	LocalGovernment	Local_Gov_Fac	2	4.1	$-
DwellingsWithoutBasements	LocalGovernment	Post_Office	1	0.8	$339,014
DwellingsWithoutBasements	Other	Manufacture_Industry	4	850.1	$1,415,983
DwellingsWithoutBasements	Recreation	Open_Space	8	23.7	$81,500

5.1.4.3 GRANTSVIILLE CITY | RISK ASSESMENT RESULTS | PARCEL DATA

GRANTSVILLE CITY - RISK ASSESSMENT - CRITICAL INFRASTRUCTURE PARCEL DATA					
Hazard	Infrastructure Category	Infrastructure Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
DwellingsWithoutBasements	Residential	Res_Munfacture_Mobile_ Hookups	135	409.0	$28,227,113
DwellingsWithoutBasements	Residential	Residential	2469	3,722.1	$554,688,694
DwellingsWithoutBasements	Residential	Residential_Commercial	13	70.5	$4,467,902
DwellingsWithoutBasements	Residential	Residential_MultiFamily	43	18.1	$11,380,474
DwellingsWithoutBasements	SITLA	SITLA	4	-	$-
Erosion_OffRoadTrail	Other	Manufacture_Industry	2	209.9	$1,284,844
Erosion_OffRoadTrail	Residential	Res_Munfacture_Mobile_ Hookups	1	44.9	$728,689
Erosion_RoadTrail	Commercial	Commercial	49	251.2	$52,675,650
Erosion_RoadTrail	Community_Resources	Cemetery	4	10.0	$1,000
Erosion_RoadTrail	Community_Resources	Ed_Kto12	4	41.9	$-
Erosion_RoadTrail	Community_Resources	Ed_PreK/Ed_Kto12	3	10.6	$-
Erosion_RoadTrail	Community_Resources	Grocery_Store	1	1.1	$1,440,509
Erosion_RoadTrail	Community_Resources	Museum	1	0.5	$-
Erosion_RoadTrail	Community_Resources	PlaceofWorship	8	25.5	$387,345
Erosion_RoadTrail	EmergencyServices	Ed_PreK/Museum	2	3.2	$153,800
Erosion_RoadTrail	EmergencyServices	Fire_Station/Emergency_Med	1	2.0	$-
Erosion_RoadTrail	EmergencyServices	Health_Care	2	5.7	$1,152,836
Erosion_RoadTrail	EmergencyServices	Police Department/Local_Gov_ Fac	1	8.1	$-
Erosion_RoadTrail	Energy	Manufacture_Industry	1	0.6	$253,469
Erosion_RoadTrail	LocalGovernment	Local_Gov_Fac	2	4.1	$-

5.1.4.3 GRANTSVIILLE CITY | RISK ASSESMENT RESULTS | PARCEL DATA

Grantsville City - Risk Assessment - Critical Infrastructure Parcel Data					
Hazard	Infrastructure Category	Infrastructure Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
Erosion_RoadTrail	LocalGovernment	Post_Office	1	0.8	$339,014
Erosion_RoadTrail	Other	Manufacture_Industry	3	210.1	$1,415,983
Erosion_RoadTrail	Recreation	Open_Space	8	23.7	$81,500
Erosion_RoadTrail	Residential	Res_Munfacture_Mobile_ Hookups	116	205.3	$21,314,150
Erosion_RoadTrail	Residential	Residential	2044	2,006.5	$439,723,930
Erosion_RoadTrail	Residential	Residential_Commercial	11	8.2	$2,786,783
Erosion_RoadTrail	Residential	Residential_MultiFamily	43	18.1	$11,380,474
Erosion_RoadTrail	SITLA	SITLA	2	-	$-
Flood_DamInundation	Commercial	Commercial	18	74.6	$35,118,235
Flood_DamInundation	Community_Resources	Comm_Center	1	512.5	$7,031,669
Flood_DamInundation	Community_Resources	Grocery_Store	1	0.7	$749,215
Flood_DamInundation	Community_Resources	Library	1	1.0	$-
Flood_DamInundation	Community_Resources	Museum/Comm_Center	1	187.0	$-
Flood_DamInundation	Community_Resources	PlaceofWorship	2	11.1	$45,375
Flood_DamInundation	DOD	DOD	1	-	$-
Flood_DamInundation	EmergencyServices	Police Department/Local_Gov_ Fac	1	8.1	$-
Flood_DamInundation	Residential	Res_Munfacture_Mobile_ Hookups	37	218.1	$9,751,187
Flood_DamInundation	Residential	Residential	1055	1,259.9	$248,626,987
Flood_DamInundation	Residential	Residential_Commercial	2	7.6	$1,269,442
Flood_DamInundation	Residential	Residential_MultiFamily	6	4.5	$2,469,855

5.1.4.3 GRANTSVIILLE CITY | RISK ASSESMENT RESULTS | PARCEL DATA

GRANTSVILLE CITY - RISK ASSESSMENT - CRITICAL INFRASTRUCTURE PARCEL DATA					
Hazard	Infrastructure Category	Infrastructure Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
Flood_SoilsPurdue	Commercial	Commercial	48	119.1	$11,824,806
Flood_SoilsPurdue	Community_Resources	Cemetery	4	10.0	$1,000
Flood_SoilsPurdue	Community_Resources	Ed_Kto12	4	41.9	$-
Flood_SoilsPurdue	Community_Resources	Ed_PreK/Ed_Kto12	3	10.6	$-
Flood_SoilsPurdue	Community_Resources	Grocery_Store	1	1.1	$1,440,509
Flood_SoilsPurdue	Community_Resources	Museum	1	0.5	$-
Flood_SoilsPurdue	Community_Resources	PlaceofWorship	8	25.5	$387,345
Flood_SoilsPurdue	EmergencyServices	Ed_PreK/Museum	2	3.2	$153,800
Flood_SoilsPurdue	EmergencyServices	Fire_Station/Emergency_Med	1	2.0	$-
Flood_SoilsPurdue	EmergencyServices	Health_Care	2	5.7	$1,152,836
Flood_SoilsPurdue	EmergencyServices	Police Department/Local_Gov_Fac	1	8.1	$-
Flood_SoilsPurdue	Energy	Manufacture_Industry	1	0.6	$253,469
Flood_SoilsPurdue	LocalGovernment	Local_Gov_Fac	2	4.1	$-
Flood_SoilsPurdue	LocalGovernment	Post_Office	1	0.8	$339,014
Flood_SoilsPurdue	Other	Manufacture_Industry	2	192.9	$600,378
Flood_SoilsPurdue	Recreation	Open_Space	8	23.7	$81,500
Flood_SoilsPurdue	Residential	Res_Munfacture_Mobile_Hookups	101	118.4	$17,361,714
Flood_SoilsPurdue	Residential	Residential	1958	1,558.1	$415,806,542
Flood_SoilsPurdue	Residential	Residential_Commercial	12	63.1	$3,303,930
Flood_SoilsPurdue	Residential	Residential_MultiFamily	43	18.1	$11,380,474
Flood_SoilsPurdue	SITLA	SITLA	2	-	$-

5.1.4.3 GRANTSVIILLE CITY | RISK ASSESMENT RESULTS | PARCEL DATA

Grantsville City - Risk Assessment - Critical Infrastructure Parcel Data					
Hazard	Infrastructure Category	Infrastructure Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
Flood_Wetland_Riparian	Commercial	Commercial	9	280.7	$74,713,457
Flood_Wetland_Riparian	Community_Resources	Comm_Center	1	512.5	$7,031,669
Flood_Wetland_Riparian	Community_Resources	Museum/Comm_Center	1	187.0	$-
Flood_Wetland_Riparian	DOD	DOD	1	-	$-
Flood_Wetland_Riparian	LocalGovernment	Local_Gov_Fac	2	-	$-
Flood_Wetland_Riparian	Other	Manufacture_Industry	3	872.7	$469,239
Flood_Wetland_Riparian	Residential	Res_Munfacture_Mobile_ Hookups	18	115.7	$4,752,258
Flood_Wetland_Riparian	Residential	Residential	330	1,922.5	$79,898,629
Flood_Wetland_Riparian	Residential	Residential_Commercial	1	54.9	$517,147
Flood_Wetland_Riparian	Residential	Residential_MultiFamily	1	-	$177,416
Flood_Wetland_Riparian	SITLA	SITLA	2	-	$-
Liquefaction	Commercial	Commercial	60	369.8	$56,868,928
Liquefaction	Community_Resources	Ed_Kto12	1	21.5	$-
Liquefaction	Community_Resources	Ed_PreK/Ed_Kto12	1	5.2	$-
Liquefaction	Community_Resources	Grocery_Store	2	1.8	$2,189,724
Liquefaction	Community_Resources	Library	1	1.0	$-
Liquefaction	Community_Resources	PlaceofWorship	3	16.8	$-
Liquefaction	EmergencyServices	Fire_Station/Emergency_Med	1	2.0	$-
Liquefaction	EmergencyServices	Health_Care	1	1.5	$740,766
Liquefaction	EmergencyServices	Health_Care/PlaceofWorship	1	1.0	$902,573
Liquefaction	EmergencyServices	Police Department/Local_Gov_ Fac	1	8.1	$-

5.1.4.3 GRANTSVIILLE CITY | RISK ASSESMENT RESULTS | PARCEL DATA

Grantsville City - Risk Assessment - Critical Infrastructure Parcel Data					
Hazard	Infrastructure Category	Infrastructure Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
Liquefaction	Energy	Manufacture_Industry	1	0.6	$253,469
Liquefaction	LocalGovernment	Post_Office	1	0.8	$339,014
Liquefaction	Other	Manufacture_Industry	3	849.9	$1,284,844
Liquefaction	Recreation	Open_Space	6	19.0	$500
Liquefaction	Residential	Res_Munfacture_Mobile_ Hookups	68	273.5	$15,988,340
Liquefaction	Residential	Residential	1313	2,240.7	$257,556,135
Liquefaction	Residential	Residential_Commercial	10	65.4	$3,520,574
Liquefaction	Residential	Residential_MultiFamily	37	10.7	$7,383,724
Liquefaction	SITLA	SITLA	2	-	$-
RMRS_WildFireHP_2020	Commercial	Commercial	18	380.5	$75,121,328
RMRS_WildFireHP_2020	Community_Resources	Comm_Center	1	512.5	$7,031,669
RMRS_WildFireHP_2020	Community_Resources	Ed_Kto12	1	9.8	$-
RMRS_WildFireHP_2020	Community_Resources	Museum/Comm_Center	1	187.0	$-
RMRS_WildFireHP_2020	Community_Resources	PlaceofWorship	1	3.5	$-
RMRS_WildFireHP_2020	DOD	DOD	1	-	$-
RMRS_WildFireHP_2020	LocalGovernment	Local_Gov_Fac	1	25.0	$-
RMRS_WildFireHP_2020	Other	Manufacture_Industry	3	249.9	$1,284,844
RMRS_WildFireHP_2020	Residential	Res_Munfacture_Mobile_ Hookups	24	197.8	$7,017,286
RMRS_WildFireHP_2020	Residential	Residential	800	2,335.6	$221,937,374
RMRS_WildFireHP_2020	Residential	Residential_Commercial	2	62.3	$1,681,119
RMRS_WildFireHP_2020	Residential	Residential_MultiFamily	2	0.7	$297,554

5.1.4.3 GRANTSVIILLE CITY I RISK ASSESMENT RESULTS I PARCEL DATA

Grantsville City - Risk Assessment - Critical Infrastructure Parcel Data					
Hazard	Infrastructure Category	Infrastructure Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
RMRS_WildFireHP_2020	SITLA	SITLA	3	-	$-
SGID_EngineeringPS	Other	Manufacture_Industry	3	849.9	$1,284,844
SGID_EngineeringPS	SITLA	SITLA	1	-	$-
SGID_EngineeringPS	StateofUtah	StateofUtah	1	-	$-
SteepSlope	Commercial	Commercial	1	208.8	$41,000,000
SteepSlope	Other	Manufacture_Industry	1	192.7	$469,239
SteepSlope	Residential	Res_Munfacture_Mobile_ Hookups	1	44.9	$728,689

5.1.4.4 GRANTSVIILLE CITY I RISK ASSESMENT RESULTS I LINE DATA

Gransville City - Risk Assessment - Critical Infrastructure Line Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum Segment Length (Miles)
DwellingsWithBasements	Energy	ElectricPowerTransmissionLine	6	20.1
DwellingsWithBasements	Energy	Pipeline_NaturalGas	7	15.1
DwellingsWithBasements	Natural	StreamRiver_Ephemeral	54	42.3
DwellingsWithBasements	Natural	StreamRiver_Intermittent	13	8.0
DwellingsWithBasements	Natural	StreamRiver_Perennial	2	0.2
DwellingsWithBasements	Recreation	Trail_RoadConcurrent	3	2.0
DwellingsWithBasements	Transportation	Road	124	21.7
DwellingsWithBasements	Transportation	Road_A	29	14.9
DwellingsWithBasements	Transportation	Road_B	10	2.4
DwellingsWithBasements	Transportation	Road_C	340	49.2
DwellingsWithBasements	Transportation	Road_D	44	9.7
DwellingsWithBasements	Transportation	Road_P	1	0.1
DwellingsWithBasements	Transportation	Road_X	4	1.1
DwellingsWithBasements	Water	Canal_ArtificialPath	2	0.1
DwellingsWithBasements	Water	Canal_Ditch	1	0.6
DwellingsWithBasements	Water	Connector	30	15.3
Erosion_RoadTrail	Energy	ElectricPowerTransmissionLine	4	17.0
Erosion_RoadTrail	Energy	Pipeline_NaturalGas	2	9.9
Erosion_RoadTrail	Natural	StreamRiver_Ephemeral	21	16.9
Erosion_RoadTrail	Natural	StreamRiver_Intermittent	5	3.9
Erosion_RoadTrail	Recreation	Trail_RoadConcurrent	3	2.0

5.1.4.4 GRANTSVIILLE CITY I RISK ASSESMENT RESULTS I LINE DATA

Gransville City - Risk Assessment - Critical Infrastructure Line Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum Segment Length (Miles)
Erosion_RoadTrail	Transportation	Road	107	18.4
Erosion_RoadTrail	Transportation	Road_A	24	4.5
Erosion_RoadTrail	Transportation	Road_B	2	0.4
Erosion_RoadTrail	Transportation	Road_C	266	36.7
Erosion_RoadTrail	Transportation	Road_D	27	5.4
Erosion_RoadTrail	Transportation	Road_P	1	0.1
Erosion_RoadTrail	Transportation	Road_X	3	1.0
Erosion_RoadTrail	Water	Connector	9	7.3
Flood_DamInundation	Energy	ElectricPowerTransmissionLine	2	10.7
Flood_DamInundation	Energy	Pipeline_NaturalGas	4	7.1
Flood_DamInundation	Natural	StreamRiver_Ephemeral	15	13.9
Flood_DamInundation	Natural	StreamRiver_Intermittent	5	3.6
Flood_DamInundation	Natural	StreamRiver_Perennial	2	0.2
Flood_DamInundation	Transportation	Road	50	6.2
Flood_DamInundation	Transportation	Road_A	9	6.5
Flood_DamInundation	Transportation	Road_B	6	2.0
Flood_DamInundation	Transportation	Road_C	135	20.6
Flood_DamInundation	Transportation	Road_D	18	7.3
Flood_DamInundation	Transportation	Road_X	1	0.1
Flood_DamInundation	Water	Canal_ArtificialPath	1	0.0

5.1.4.4 GRANTSVIILLE CITY I RISK ASSESMENT RESULTS I LINE DATA

Gransville City - Risk Assessment - Critical Infrastructure Line Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum Segment Length (Miles)
Flood_DamInundation	Water	Canal_Ditch	1	0.6
Flood_DamInundation	Water	Connector	9	4.3
Flood_SoilsPurdue	Energy	ElectricPowerTransmissionLine	5	19.0
Flood_SoilsPurdue	Energy	Pipeline_NaturalGas	4	13.8
Flood_SoilsPurdue	Natural	StreamRiver_Ephemeral	16	8.4
Flood_SoilsPurdue	Natural	StreamRiver_Intermittent	3	2.1
Flood_SoilsPurdue	Transportation	Road	61	5.8
Flood_SoilsPurdue	Transportation	Road_A	21	4.2
Flood_SoilsPurdue	Transportation	Road_C	242	32.6
Flood_SoilsPurdue	Transportation	Road_D	1	0.4
Flood_SoilsPurdue	Transportation	Road_P	1	0.1
Flood_SoilsPurdue	Transportation	Road_X	3	1.0
Flood_SoilsPurdue	Water	Connector	9	7.8
Flood_USUValleyBottom	Natural	StreamRiver_Ephemeral	1	1.2
Flood_USUValleyBottom	Natural	StreamRiver_Perennial	2	0.2
Flood_USUValleyBottom	Water	Canal_ArtificialPath	1	0.0
Flood_USUValleyBottom	Water	Canal_Ditch	1	0.6
Flood_Wetland_Riparian	Energy	ElectricPowerTransmissionLine	5	20.1
Flood_Wetland_Riparian	Energy	Pipeline_NaturalGas	5	14.8
Flood_Wetland_Riparian	Natural	StreamRiver_Ephemeral	74	51.4

5.1.4.4 GRANTSVIILLE CITY I RISK ASSESMENT RESULTS I LINE DATA

Gransville City - Risk Assessment - Critical Infrastructure Line Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum Segment Length (Miles)
Flood_Wetland_Riparian	Natural	StreamRiver_Intermittent	13	8.0
Flood_Wetland_Riparian	Natural	StreamRiver_Perennial	2	0.2
Flood_Wetland_Riparian	Recreation	Trail_RoadConcurrent	4	3.2
Flood_Wetland_Riparian	Transportation	Road	30	9.6
Flood_Wetland_Riparian	Transportation	Road_A	8	11.8
Flood_Wetland_Riparian	Transportation	Road_B	2	1.2
Flood_Wetland_Riparian	Transportation	Road_C	68	15.8
Flood_Wetland_Riparian	Transportation	Road_D	20	9.1
Flood_Wetland_Riparian	Transportation	Road_X	3	0.2
Flood_Wetland_Riparian	Water	Canal_ArtificialPath	3	0.1
Flood_Wetland_Riparian	Water	Canal_Ditch	1	0.6
Flood_Wetland_Riparian	Water	Connector	40	18.3
Liquefaction	Energy	ElectricPowerTransmissionLine	4	16.3
Liquefaction	Energy	Pipeline_NaturalGas	5	14.8
Liquefaction	Natural	StreamRiver_Ephemeral	25	18.0
Liquefaction	Natural	StreamRiver_Intermittent	6	2.4
Liquefaction	Natural	StreamRiver_Perennial	2	0.2
Liquefaction	Recreation	Trail_RoadConcurrent	1	1.0
Liquefaction	Transportation	Road	18	3.8
Liquefaction	Transportation	Road_A	25	8.6

5.1.4.4 GRANTSVIILLE CITY I RISK ASSESMENT RESULTS I LINE DATA

Gransville City - Risk Assessment - Critical Infrastructure Line Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum Segment Length (Miles)
Liquefaction	Transportation	Road_B	9	2.1
Liquefaction	Transportation	Road_C	160	23.8
Liquefaction	Transportation	Road_D	26	4.8
Liquefaction	Transportation	Road_P	1	0.1
Liquefaction	Transportation	Road_X	5	1.2
Liquefaction	Water	Canal_ArtificialPath	3	0.1
Liquefaction	Water	Canal_Ditch	1	0.6
Liquefaction	Water	Connector	20	11.3
RMRS_WildFireHP_2020	Energy	ElectricPowerTransmissionLine	4	18.1
RMRS_WildFireHP_2020	Energy	Pipeline_NaturalGas	6	14.1
RMRS_WildFireHP_2020	Natural	StreamRiver_Ephemeral	57	45.0
RMRS_WildFireHP_2020	Natural	StreamRiver_Intermittent	9	5.5
RMRS_WildFireHP_2020	Natural	StreamRiver_Perennial	2	0.2
RMRS_WildFireHP_2020	Recreation	Trail_RoadConcurrent	10	4.9
RMRS_WildFireHP_2020	Transportation	Road	116	23.8
RMRS_WildFireHP_2020	Transportation	Road_A	10	12.5
RMRS_WildFireHP_2020	Transportation	Road_B	10	2.4
RMRS_WildFireHP_2020	Transportation	Road_C	143	23.4
RMRS_WildFireHP_2020	Transportation	Road_D	106	22.7
RMRS_WildFireHP_2020	Transportation	Road_X	1	0.1

5.1.4.4 GRANTSVIILLE CITY I RISK ASSESMENT RESULTS I LINE DATA

Gransville City - Risk Assessment - Critical Infrastructure Line Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum Segment Length (Miles)
RMRS_WildFireHP_2020	Water	Canal_ArtificialPath	3	0.1
RMRS_WildFireHP_2020	Water	Canal_Ditch	1	0.6
RMRS_WildFireHP_2020	Water	Connector	33	15.6
SGID_EngineeringPS	Energy	ElectricPowerTransmissionLine	1	2.0
SGID_EngineeringPS	Energy	Pipeline_NaturalGas	1	2.9
SGID_EngineeringPS	Natural	StreamRiver_Ephemeral	1	0.1
SGID_EngineeringPS	Recreation	Trail_RoadConcurrent	4	2.1
SGID_EngineeringPS	Transportation	Road	3	1.2
SGID_EngineeringPS	Transportation	Road_A	1	1.4
SGID_EngineeringPS	Transportation	Road_B	1	0.4
SGID_EngineeringPS	Transportation	Road_D	19	2.4
SGID_EngineeringPS	Water	Connector	5	4.0
SteepSlope	Natural	StreamRiver_Ephemeral	1	2.5
SteepSlope	Transportation	Road	2	0.9
SteepSlope	Transportation	Road_D	1	0.3
SteepSlope	Water	Connector	1	1.9

5.1.4.5 GRANTSVIILLE CITY | RISK ASSESMENT RESULTS | AREA DATA

Grantsville City - Risk Assessment - Critical Infrastructure Areas Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum of Areas (Acres)
AvalanchTerrain	Agricultural	GrazingAllotment	1	3,661.3
AvalanchTerrain	Water	RetailCulinaryWaterServiceArea	2	20,468.1
DwellingsWithBasements	Agricultural	AgricultureWRLA_DryCrop	27	312.8
DwellingsWithBasements	Agricultural	AgricultureWRLA_Food	119	1,024.5
DwellingsWithBasements	Agricultural	AgricultureWRLU_Sprinkler	343	3,847.7
DwellingsWithBasements	Agricultural	AgricultureWRLU_SubIrrigated	13	238.1
DwellingsWithBasements	Agricultural	GrazingAllotment	6	11,411.4
DwellingsWithBasements	Natural	LakePond_Intermittent	7	3.3
DwellingsWithBasements	Natural	LakePond_Perennial	7	22.6
DwellingsWithBasements	Natural	Riparian	4	59.8
DwellingsWithBasements	Natural	Wetland	261	4,484.8
DwellingsWithBasements	Natural	Wetland_SwampMarsh	1	24.0
DwellingsWithBasements	Water	GWPZone_1	2	1.4
DwellingsWithBasements	Water	GWPZone_2	3	56.8
DwellingsWithBasements	Water	GWPZone_3	3	237.1
DwellingsWithBasements	Water	GWPZone_4	3	1,019.6
DwellingsWithBasements	Water	RetailCulinaryWaterServiceArea	4	20,470.5
Erosion_RoadTrail	Agricultural	AgricultureWRLA_DryCrop	10	55.5
Erosion_RoadTrail	Agricultural	AgricultureWRLA_Food	44	174.4
Erosion_RoadTrail	Agricultural	AgricultureWRLU_Sprinkler	200	1,903.9

5.1.4.5 GRANTSVIILLE CITY | RISK ASSESMENT RESULTS | AREA DATA

Grantsville City - Risk Assessment - Critical Infrastructure Areas Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum of Areas (Acres)
Erosion_RoadTrail	Agricultural	GrazingAllotment	4	10,711.7
Erosion_RoadTrail	Natural	LakePond_Perennial	4	2.0
Erosion_RoadTrail	Natural	Wetland	37	118.3
Erosion_RoadTrail	Water	GWPZone_1	2	1.4
Erosion_RoadTrail	Water	GWPZone_2	3	56.8
Erosion_RoadTrail	Water	GWPZone_3	3	237.1
Erosion_RoadTrail	Water	GWPZone_4	3	1,019.6
Erosion_RoadTrail	Water	RetailCulinaryWaterServiceArea	2	20,468.1
Flood_DamInundation	Agricultural	AgricultureWRLA_DryCrop	10	123.1
Flood_DamInundation	Agricultural	AgricultureWRLA_Food	42	570.3
Flood_DamInundation	Agricultural	AgricultureWRLU_Sprinkler	109	1,626.5
Flood_DamInundation	Agricultural	AgricultureWRLU_SubIrrigated	11	211.1
Flood_DamInundation	Agricultural	GrazingAllotment	1	6,971.2
Flood_DamInundation	Natural	LakePond_Perennial	6	22.0
Flood_DamInundation	Natural	Riparian	2	54.9
Flood_DamInundation	Natural	Wetland	116	774.0
Flood_DamInundation	Natural	Wetland_SwampMarsh	1	24.0
Flood_DamInundation	Water	GWPZone_1	1	0.7
Flood_DamInundation	Water	GWPZone_2	1	8.0
Flood_DamInundation	Water	GWPZone_3	1	36.5

5.1.4.5 GRANTSVIILLE CITY | RISK ASSESMENT RESULTS | AREA DATA

Grantsville City - Risk Assessment - Critical Infrastructure Areas Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum of Areas (Acres)
Flood_DamInundation	Water	GWPZone_4	2	975.0
Flood_DamInundation	Water	RetailCulinaryWaterServiceArea	3	20,407.5
Flood_SoilsPurdue	Agricultural	AgricultureWRLA_DryCrop	8	67.7
Flood_SoilsPurdue	Agricultural	AgricultureWRLA_Food	36	204.0
Flood_SoilsPurdue	Agricultural	AgricultureWRLU_Sprinkler	192	1,648.7
Flood_SoilsPurdue	Agricultural	GrazingAllotment	4	11,332.2
Flood_SoilsPurdue	Natural	LakePond_Perennial	4	2.0
Flood_SoilsPurdue	Natural	Wetland	48	3,324.7
Flood_SoilsPurdue	Water	GWPZone_1	1	0.7
Flood_SoilsPurdue	Water	GWPZone_2	1	36.2
Flood_SoilsPurdue	Water	GWPZone_3	1	163.9
Flood_SoilsPurdue	Water	GWPZone_4	1	911.6
Flood_SoilsPurdue	Water	RetailCulinaryWaterServiceArea	1	20,405.1
Flood_USUValleyBottom	Agricultural	AgricultureWRLU_SubIrrigated	3	52.6
Flood_USUValleyBottom	Natural	Riparian	1	51.3
Flood_USUValleyBottom	Natural	Wetland	13	104.0
Flood_USUValleyBottom	Natural	Wetland_SwampMarsh	1	24.0
Flood_USUValleyBottom	Water	RetailCulinaryWaterServiceArea	1	20,405.1
Flood_Wetland_Riparian	Agricultural	AgricultureWRLA_DryCrop	13	240.7
Flood_Wetland_Riparian	Agricultural	AgricultureWRLA_Food	46	858.1

5.1.4.5 GRANTSVIILLE CITY | RISK ASSESMENT RESULTS | AREA DATA

Grantsville City - Risk Assessment - Critical Infrastructure Areas Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum of Areas (Acres)
Flood_Wetland_Riparian	Agricultural	AgricultureWRLU_Sprinkler	118	2,196.2
Flood_Wetland_Riparian	Agricultural	AgricultureWRLU_SubIrrigated	13	238.1
Flood_Wetland_Riparian	Agricultural	GrazingAllotment	4	11,332.2
Flood_Wetland_Riparian	Natural	LakePond_Intermittent	6	3.2
Flood_Wetland_Riparian	Natural	LakePond_Perennial	6	22.0
Flood_Wetland_Riparian	Natural	Riparian	5	61.1
Flood_Wetland_Riparian	Natural	Wetland	275	4,502.7
Flood_Wetland_Riparian	Natural	Wetland_SwampMarsh	1	24.0
Flood_Wetland_Riparian	Water	GWPZone_2	1	8.0
Flood_Wetland_Riparian	Water	GWPZone_3	1	36.5
Flood_Wetland_Riparian	Water	GWPZone_4	1	63.5
Flood_Wetland_Riparian	Water	RetailCulinaryWaterServiceArea	2	20,468.1
Liquefaction	Agricultural	AgricultureWRLA_DryCrop	15	203.6
Liquefaction	Agricultural	AgricultureWRLA_Food	92	869.5
Liquefaction	Agricultural	AgricultureWRLU_Sprinkler	203	2,358.1
Liquefaction	Agricultural	AgricultureWRLU_SubIrrigated	13	238.1
Liquefaction	Agricultural	GrazingAllotment	3	4,361.0
Liquefaction	Natural	LakePond_Intermittent	8	3.6
Liquefaction	Natural	LakePond_Perennial	5	21.1
Liquefaction	Natural	Riparian	4	59.8

5.1.4.5 GRANTSVIILLE CITY | RISK ASSESMENT RESULTS | AREA DATA

Grantsville City - Risk Assessment - Critical Infrastructure Areas Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum of Areas (Acres)
Liquefaction	Natural	Wetland	205	4,400.9
Liquefaction	Natural	Wetland_SwampMarsh	1	24.0
Liquefaction	Water	GWPZone_1	1	0.7
Liquefaction	Water	GWPZone_2	1	36.2
Liquefaction	Water	GWPZone_3	1	163.9
Liquefaction	Water	GWPZone_4	1	911.6
Liquefaction	Water	RetailCulinaryWaterServiceArea	3	20,468.6
RMRS_WildFireHP_2020	Agricultural	AgricultureWRLA_DryCrop	25	364.7
RMRS_WildFireHP_2020	Agricultural	AgricultureWRLA_Food	67	840.3
RMRS_WildFireHP_2020	Agricultural	AgricultureWRLU_Sprinkler	112	2,018.4
RMRS_WildFireHP_2020	Agricultural	AgricultureWRLU_SubIrrigated	6	175.3
RMRS_WildFireHP_2020	Agricultural	GrazingAllotment	5	10,796.2
RMRS_WildFireHP_2020	Natural	LakePond_Intermittent	6	1.6
RMRS_WildFireHP_2020	Natural	LakePond_Perennial	4	21.1
RMRS_WildFireHP_2020	Natural	Riparian	2	54.9
RMRS_WildFireHP_2020	Natural	Wetland	172	4,175.1
RMRS_WildFireHP_2020	Natural	Wetland_SwampMarsh	1	24.0
RMRS_WildFireHP_2020	Water	GWPZone_1	2	1.4
RMRS_WildFireHP_2020	Water	GWPZone_2	2	20.6
RMRS_WildFireHP_2020	Water	GWPZone_3	2	73.3

5.1.4.5 GRANTSVIILLE CITY | RISK ASSESMENT RESULTS | AREA DATA

Grantsville City - Risk Assessment - Critical Infrastructure Areas Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum of Areas (Acres)
RMRS_WildFireHP_2020	Water	GWPZone_4	3	1,019.6
RMRS_WildFireHP_2020	Water	RetailCulinaryWaterServiceArea	4	20,470.5
SGID_EngineeringPS	Agricultural	GrazingAllotment	1	3,661.3
SGID_EngineeringPS	Natural	Wetland	11	2,101.0
SGID_EngineeringPS	Water	RetailCulinaryWaterServiceArea	2	20,468.1
SteepSlope	Agricultural	GrazingAllotment	1	3,661.3
SteepSlope	Natural	Wetland	2	25.0
SteepSlope	Water	RetailCulinaryWaterServiceArea	2	20,468.1

5.1.5 GRANTSVIILLE CITY - MITIGATION STRATAGIES

GRANTSVILLE MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
DAM FAILURE - CURRENT RESIDENTS/PROPERTY	Develop ordinances to prohibit or limit critical facilities and/or structures in dam inundation areas	Priority	Low
DAM FAILURE - CURRENT RESIDENTS/PROPERTY	Ensure new critical facilities and infrastructure are not built in dam inundation areas	Priority	Low
DAM FAILURE - CURRENT RESIDENTS/PROPERTY	Relocate government-owned facilities located near high risk dam failures	Priority	Low
DAM FAILURE - FUTURE RESIDENTS/PROPERTY	Dam is privately owned, failure would impact property north of the flood control ditch.	N/A	N/A
DAM FAILURE - FUTURE RESIDENTS/PROPERTY	Develop ordinances to prohibit or limit critical facilities and/or structures in dam inundation areas	Priority	Low
DAM FAILURE - FUTURE RESIDENTS/PROPERTY	Ensure new critical facilities and infrastructure are not built in dam inundation areas	Priority	Low
DAM FAILURE - FUTURE RESIDENTS/PROPERTY	Relocate government-owned facilities located near high risk dam failures	Priority	Low
DROUGHT - CURRENT RESIDENTS/PROPERTY	Designate and or preserve adequate source water protection zones or groundwater recharge areas	Priority	High
		Responsible Entity	City
DROUGHT - CURRENT RESIDENTS/PROPERTY	Educate Residents on Water Saving Techniques (list event details in "comments")	Priority	Medium
		Estimated Cost	$0 - $25 K
DROUGHT - CURRENT RESIDENTS/PROPERTY	Enforce codes ordinances statues and laws that promote drought resiliency and water conservation practices	Priority	Medium
DROUGHT - CURRENT RESIDENTS/PROPERTY	Expand and Improve Existing Potable Water Systems	Priority	High
		Responsible Entity	City
		Estimated Cost	$1 Mil +
DROUGHT - CURRENT RESIDENTS/PROPERTY	Improve Public Water Infrastructure and Management with Water Provider	Priority	High
		Estimated Cost	$1 Mil +
DROUGHT - CURRENT RESIDENTS/PROPERTY	Monitor Water Supply for leaks system failures inefficiencies etc. via monitoring system and audits	Priority	High
		Estimated Cost	$100 K - $250 K
DROUGHT - CURRENT RESIDENTS/PROPERTY	Plan and Prepare for Drought via emergency planning and warning systems	Priority	Low
		Responsible Entity	County
DROUGHT - CURRENT RESIDENTS/PROPERTY	Retrofit Water Supply Systems to handle current and new growth	Priority	High
		Responsible Entity	City

GRANTSVILLE MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Estimated Cost	$1 Mil +
DROUGHT - CURRENT RESIDENTS/PROPERTY	Update and adopt drought ordinances	Priority	Medium
DROUGHT - FUTURE RESIDENTS/PROPERTY	Designate and or preserve adequate source water protection zones or groundwater recharge areas	Priority	High
DROUGHT - FUTURE RESIDENTS/PROPERTY	Educate Residents on Water Saving Techniques (list event details in "comments")	Priority	Low
DROUGHT - FUTURE RESIDENTS/PROPERTY	Expand and Improve Existing Potable Water Systems	Priority	High
		Estimated Cost	$1 Mil +
DROUGHT - FUTURE RESIDENTS/PROPERTY	Improve Public Water Infrastructure and Management with Water Provider	Priority	High
		Estimated Cost	$1 Mil +
DROUGHT - FUTURE RESIDENTS/PROPERTY	Monitor Water Supply for leaks system failures inefficiencies etc. via monitoring system and audits	Priority	High
		Estimated Cost	$1 Mil +
DROUGHT - FUTURE RESIDENTS/PROPERTY	Retrofit Water Supply Systems to handle current and new growth	Priority	High
		Estimated Cost	$1 Mil +
DROUGHT - FUTURE RESIDENTS/PROPERTY	Update and adopt drought ordinances	Priority	Low
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Building Code Adoption and Enforcement	Priority	Medium
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Conduct Building Safety Inspections	Priority	Low
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Establish a ”green infrastructure” program to link manage and expand existing parks preserves greenways etc	Priority	High
		Estimated Cost	$1 Mil +
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Increase Awareness and Education of Earthquakes through an educational event	Priority	Low
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Local Planning such as critical facilities planning financial incentives creating a safety committee emergency planning etc	Priority	High
		Estimated Cost	$1 Mil +
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Retrofit Critical Facilities and Infrastructure to Withstand Earthquakes (list specifics in "comments" section)	Priority	Low
		Estimated Cost	$0 - $25 K
EARTHQUAKE - FUTURE RESIDENTS/PROPERTY	Conduct Building Safety Inspections	Priority	High

GRANTSVILLE MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
EARTHQUAKE - FUTURE RESIDENTS/PROPERTY	Establish a ”green infrastructure” program to link manage and expand existing parks preserves greenways etc	Priority	High
		Estimated Cost	$1 Mil +
EARTHQUAKE - FUTURE RESIDENTS/PROPERTY	Local Planning such as critical facilities planning financial incentives creating a safety committee emergency planning etc	Priority	High
EARTHQUAKE - FUTURE RESIDENTS/PROPERTY	Retrofit Critical Facilities and Infrastructure to Withstand Earthquakes (list specifics in "comments" section)	Priority	Low
		Estimated Cost	$250 K - $500 K
FLOOD - CURRENT RESIDENTS/PROPERTY	Conduct Regular Maintenance for Drainage Systems and Flood Control Structures	Priority	High
		Estimated Cost	$50 K - $100 K
FLOOD - CURRENT RESIDENTS/PROPERTY	Floodproof At-Risk Residential and Non-Residential Structures	Priority	High
		Estimated Cost	$100 K - $250 K
FLOOD - CURRENT RESIDENTS/PROPERTY	Improve Stormwater Drainage Capacity	Priority	High
		Estimated Cost	$250 K - $500 K
FLOOD - CURRENT RESIDENTS/PROPERTY	Protect and Restore Natural Flood Mitigation Features through natural greenway protection and restoration	Priority	High
		Estimated Cost	$100 K - $250 K
FLOOD - CURRENT RESIDENTS/PROPERTY	Protect Infrastructure such as roads bridges wastewater treatment etc	Priority	High
		Estimated Cost	$1 Mil +
FLOOD - FUTURE RESIDENTS/PROPERTY	Conduct Regular Maintenance for Drainage Systems and Flood Control Structures	Priority	High
		Estimated Cost	$100 K - $250 K
FLOOD - FUTURE RESIDENTS/PROPERTY	Floodproof At-Risk Residential and Non-Residential Structures	Priority	High
		Estimated Cost	$250 K - $500 K
FLOOD - FUTURE RESIDENTS/PROPERTY	Improve Stormwater Drainage Capacity	Priority	High
		Estimated Cost	$100 K - $250 K
FLOOD - FUTURE RESIDENTS/PROPERTY	Protect and Restore Natural Flood Mitigation Features through natural greenway protection and restoration	Priority	High
		Estimated Cost	$100 K - $250 K

GRANTSVILLE MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
FLOOD - FUTURE RESIDENTS/PROPERTY	Protect Infrastructure such as roads bridges wastewater treatment etc	Priority	High
		Estimated Cost	$1 Mil +
SEVERE WEATHER - CURRENT RESIDENTS/PROPERTY	Conduct Outreach Activities Increase and Public Awareness (specify below in comments)	Priority	Low
SEVERE WEATHER - CURRENT RESIDENTS/PROPERTY	Protect Life Safety and Property Damage of Residential Buildings through applicable architecture and retrofits	Priority	High
		Estimated Cost	$1 Mil +
SEVERE WEATHER - CURRENT RESIDENTS/PROPERTY	Reducing Impacts of Wind Hail Lightning through structural projects i.e. windbreaks	Priority	High
		Estimated Cost	$1 Mil +
SEVERE WEATHER - CURRENT RESIDENTS/PROPERTY	Use natural environmental features as wind buffers in site design	Priority	Low
SEVERE WEATHER - FUTURE RESIDENTS/PROPERTY	Conduct Outreach Activities Increase and Public Awareness (specify below in comments)	Priority	Low
SEVERE WEATHER - FUTURE RESIDENTS/PROPERTY	Protect Life Safety and Property Damage of Residential Buildings through applicable architecture and retrofits	Priority	Medium
SEVERE WEATHER - FUTURE RESIDENTS/PROPERTY	Reducing Impacts of Wind Hail Lightning through structural projects i.e. windbreaks	Priority	High
SEVERE WEATHER - FUTURE RESIDENTS/PROPERTY	Retrofit Public Buildings and Critical Facilities/Infrastructure (specify below in comments)	Priority	Medium
SEVERE WEATHER - FUTURE RESIDENTS/PROPERTY	Use natural environmental features as wind buffers in site design	Priority	Low
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Address density and quantity of development as well emergency access landscaping and water supply	Priority	High
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Adopt and Enforce Building Codes and Development Standards	Priority	High
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Develop wildfire and/or Wildland Urban Interface (WUI) codes or regulation prohibiting or limiting structures in known wildfire risk areas	Priority	Medium
		Estimated Cost	$0 - $25 K
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Educate Property Owners about Wildfire Mitigation Techniques (List specifics below in comments)	Priority	Medium
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
		Estimated Cost	$250 K - $500 K
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Include considerations of wildfire hazards in land use public safety and other processes	Priority	Low
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Participate in Firewise Program	Priority	High
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	Low

5.2 RUSH VALLEY CITY

5.2.2 Rush Valley City - Future Development Risk

5.2.3 Rush Valley City - Hazards

1. Earthquake
2. Engineering Problem Soils
3. Erosion
4. Flood
5. Steep Slope

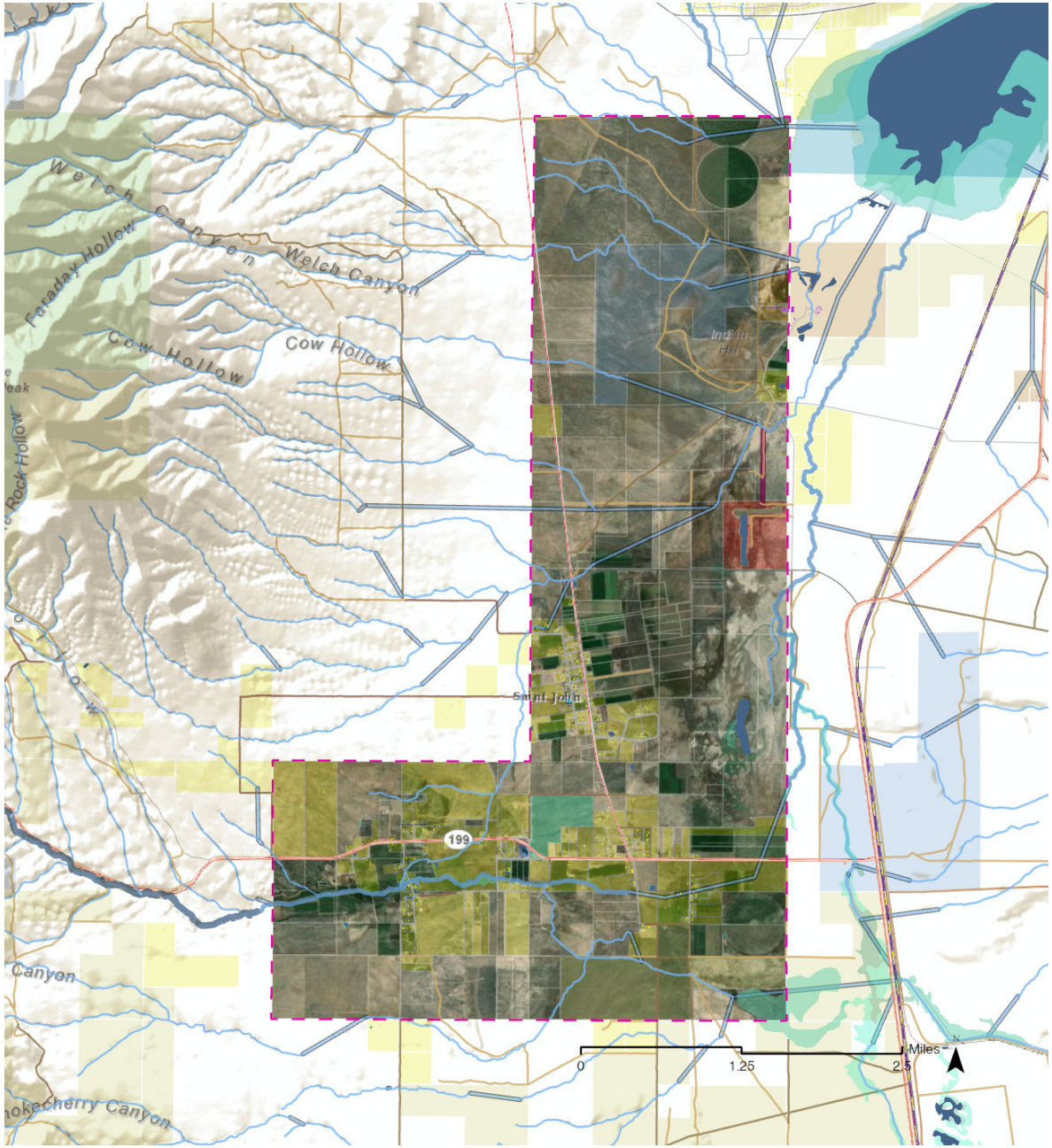
5.2.4 Rush Valley City - Risk Assessment Results

1. Building Footprints - Structures
2. Point Data - Features
3. Parcel Data
4. Line Data
5. Area Data

5.2.5 Rush Valley City - Mitigation Stratagies

Risk Summary

- Earthquake
- Engineering Problem Soils
- Erosion
- Flood
- Steep Slope



Aerial map of Rush Valley.

5.2.2 RUSH VALLEY CITY - FUTURE DEVELOPMENT RISK

Risk to Future Development

Future Residential Development within Rush Valley were reported by community representatives on the north side of Rush Valley between Rush Valley and St. John. Additional growth is expected on the South East side of the town.

HazType / Acres	
Earthquake	2,963
Engineering Problem Soils	5,766
Erosion	2,926
Flood_ FEMA 100 Year	1,241
Flood_Soils	1,404
Flood_Wetland & Riparian	235
Wildfire Hazard Potential	10,393
Steep Slope	25

Rush Valley City - Risk Summary

Hazard Type	*Probability of Occurence*	*Population Impact*	*Property Impact*	*Econmic Impact*	*Future Development Impact*	*Overall Risk*
Earthquake	Low	High	High	High	Low	Moderate
Engineering Problem Soils	High	Low	High	Moderate	High	Moderate
Erosion	High	Low	High	Moderate	Moderate	Moderate
Flood	High	Moderate	High	High	Moderate	High
Steep Slope	Low	low	Low	Low	Moderate	Low

5.2.3 RUSH VALLEY CITY - HAZARDS

Earthquake 2,963 ac

Geologic faults are located in the center of town, and could potentially impact many homes and roads in most of the developed areas of Rush Valley, particularly those in the north end of the valley. Potential losses include 1 church, 1 fire station, around 230 homes, over 19 miles of roads, and 0.1 miles of canals.

Engineering Problem Soils 5,766 ac

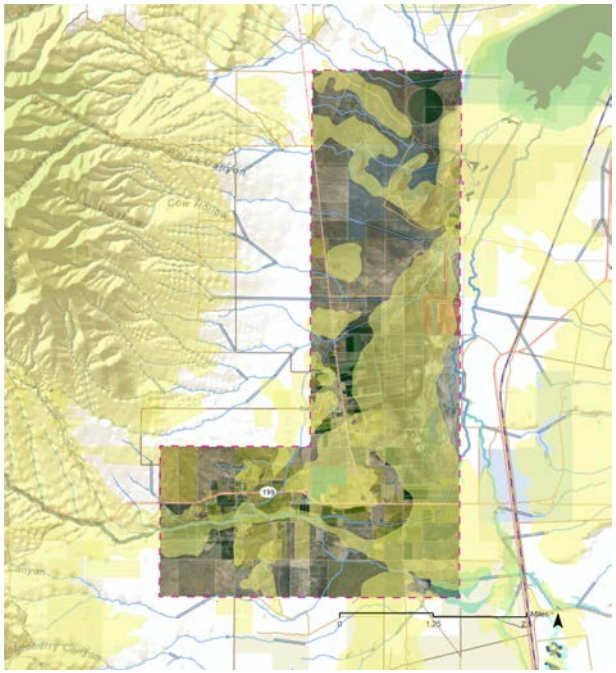
While most of the town is covered by problem soils, modern buildling codes and engineering practices will protect most structures from damage over time, if integrated into future develoment. Older structures may be at risk. Potential losses include almost every home, facility, road, and other amenity in the town.

Erosion 2,926 ac

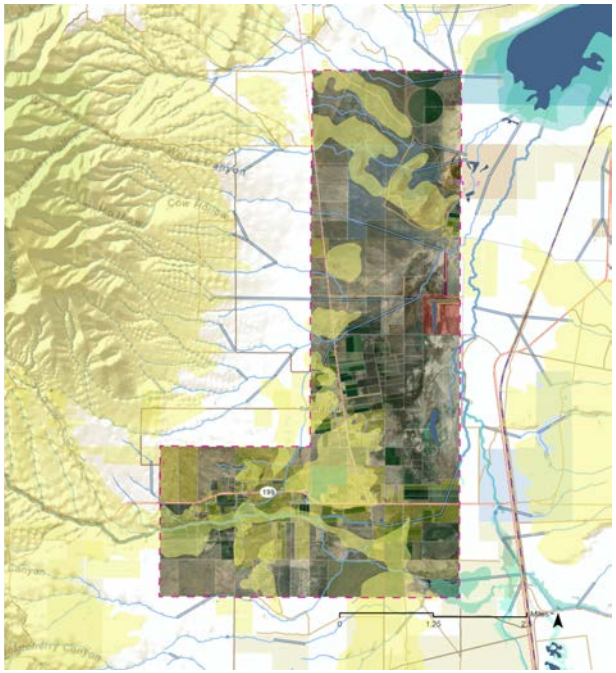
While erosive soils are prevalent in Rush Valley, these particular types of soils will likely only impact trails and natural surface roads. Modern engineering practices and techniques should be used to avoid issues. Potential losses include 1 church, 1 fire station, 1 post office, around 170 homes, the local cemetery, 116 miles of electrical lines, and around 27 miles of roads.

Quaternary Faults

1,500' buffer on Quaternary Faults



Problem Soils



Erosive Soils (Roads and Trails)

5.2.3 RUSH VALLEY CITY - HAZARDS

Flood_ FEMA 100 Year 1,241 ac

Every little drainage in stream corridor in and around Rush Valley is a potential floodplain and could lead to damage to structures in the future. While currently not many homes are at risk, if these stream channels are built on or modified structurally, damage could ensue. Potential losses include 13 businesses, 19 homes, and around 17 miles of roads.

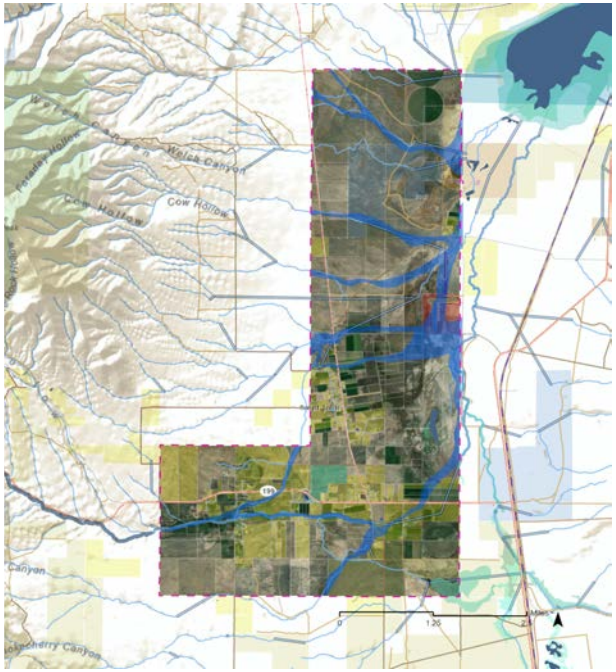
Flood_Soils 1,404 ac

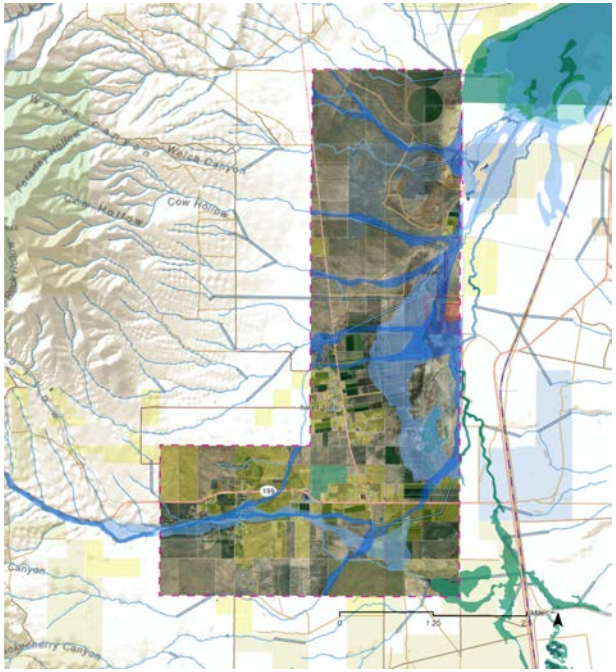
Flood_Wetland & Riparian 235 ac

Every little drainage in stream corridor in and around Rush Valley is a potential floodplain and could lead to damage to structures in the future. While currently not many homes are at risk, if these stream channels are built on or modified structurally, damage could ensue. Low lying areas are also at risk from flood. Potential losses include 28 homes, 2 businesses, around 35 miles of roads, and extensive agricultural fields.

Steep Slope 25 ac

A very small section of land north of town is at risk from steep slopes, though no structures currently exist there.





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

Steep Slopes >30%

5.2.3 RUSH VALLEY CITY - HAZARDS

WILDFIRE 10,393 AC

Most of Rush Valley is at risk from wildfires, particularly the fields and foothills surrounding currently developed areas. Potential losses include 8 businesses, 224 homes, 1 firestation, 2 historic sites, 128 miles of transmission lines, and 9,458 acres of grazing allotment lands.

Wildflire Hazard

5.2.4.1 RUSH VALLEY CITY - RISK ASSESMENT RESULTS - STRUCTURES

Rush Valley City - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Buildings
Earthquake	Community Resource	PlaceofWorship	1
Earthquake	Emergency Facility	FireStation	1
Earthquake	Government Facility	LocalGov	2
Earthquake	Government Facility	Post_Office	1
Earthquake	Industrical	Industrial	1
Earthquake	Other	Out	3
Earthquake	Residential	Manufactured	50
Earthquake	Residential	Res_MobileHome	10
Earthquake	Residential	Residential	169
EngineeringPS	Commercial	Commercial	13
EngineeringPS	Community Resource	PlaceofWorship	1
EngineeringPS	Emergency Facility	FireStation	1
EngineeringPS	Government Facility	LocalGov	2
EngineeringPS	Government Facility	Post_Office	1
EngineeringPS	Industrical	Industrial	17
EngineeringPS	Other	Out	3
EngineeringPS	Residential	Manufactured	48
EngineeringPS	Residential	Res_MobileHome	7
EngineeringPS	Residential	Residential	126
Erosion	Community Resource	PlaceofWorship	1
Erosion	Emergency Facility	FireStation	1
Erosion	Government Facility	LocalGov	2
Erosion	Government Facility	Post_Office	1
Erosion	Industrical	Industrial	1
Erosion	Other	Out	2
Erosion	Residential	Manufactured	48
Erosion	Residential	Res_MobileHome	7
Erosion	Residential	Residential	117
FEMA_FloodZone	Commercial	Commercial	13
FEMA_FloodZone	Residential	Res_MobileHome	2
FEMA_FloodZone	Residential	Residential	17

Rush Valley City - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Buildings
Flood_SoilsPurdue	Residential	Manufactured	2
Flood_SoilsPurdue	Residential	Res_MobileHome	2
Flood_SoilsPurdue	Residential	Residential	24
Flood_Wetland/ Riparian	Commercial	Commercial	2
Flood_Wetland/ Riparian	Residential	Residential	1
Wildfire	Commercial	Commercial	8
Wildfire	Emergency Facility	FireStation	1
Wildfire	Government Facility	LocalGov	2
Wildfire	Industrical	Industrial	4
Wildfire	Other	Out	4
Wildfire	Residential	Manufactured	45
Wildfire	Residential	Res_MobileHome	9
Wildfire	Residential	Residential	170

5.2.4.2 RUSH VALLEY CITY - RISK ASSESMENT RESULTS - FEATURES

Rush Valley City - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Earthquake	Community	Cemetery	1
Earthquake	Community	PlaceofWorship	1
Earthquake	Emergency	FireStation	1
Earthquake	Government	LocalGovFacility	1
Earthquake	Government	PostOffice	1
Earthquake	Other	Tower_ MicrowaveService	2
Earthquake	Recreation	HistoricSites	2
Earthquake	Recreation	Park	1
Earthquake	Water	Well_Log	148
EngineeringPS	Community	Cemetery	1
EngineeringPS	Community	PlaceofWorship	1
EngineeringPS	Emergency	FireStation	1
EngineeringPS	Government	LocalGovFacility	1
EngineeringPS	Government	PostOffice	1
EngineeringPS	Other	Tower_	1
EngineeringPS	Other	Tower_ MicrowaveService	2
EngineeringPS	Recreation	HistoricSites	2
EngineeringPS	Recreation	Park	1
EngineeringPS	Water	Well_Log	124
EngineeringPS	Water	Well_NHD	2
Erosion	Community	Cemetery	1
Erosion	Community	PlaceofWorship	1
Erosion	Emergency	FireStation	1
Erosion	Government	LocalGovFacility	1
Erosion	Government	PostOffice	1
Erosion	Other	Tower_ MicrowaveService	2
Erosion	Recreation	HistoricSites	2
Erosion	Recreation	Park	1
Erosion	Water	Well_Log	109

Rush Valley City - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
FEMA_FloodZone	Other	Tower_	1
FEMA_FloodZone	Water	Well_Log	10
FEMA_FloodZone	Water	Well_NHD	1
Flood_SoilsPurdue	Other	Tower_	1
Flood_SoilsPurdue	Water	Well_Log	16
Flood_Wetland/Riparian	Water	Well_Log	2
Wildfire	Community	Cemetery	1
Wildfire	Emergency	FireStation	1
Wildfire	Government	LocalGovFacility	1
Wildfire	Other	Tower_	1
Wildfire	Other	Tower_ MicrowaveService	2
Wildfire	Recreation	HistoricSites	2
Wildfire	Recreation	Park	1
Wildfire	Water	Well_Log	169
Wildfire	Water	Well_NHD	3

5.2.4.3 RUSH VALLEY CITY | RISK ASSESMENT RESULTS | PARCEL DATA

Rush Valley City - Risk Assessment - Critical Infrastructure Parcel Data					
Hazard	Infrastructure Category	Infrastructure Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
AvalanchTerrain	None	None	1	160.0	$320,000
Earthquake	BLM	BLM	3	-	$-
Earthquake	Community_Resources	PlaceofWorship	1	1.5	$-
Earthquake	EmergencyServices	Fire_Station	1	107.7	$215,460
Earthquake	LocalGovernment	Local_Gov_Fac	1	5.4	$-
Earthquake	LocalGovernment	Post_Office	1	0.3	$28,498
Earthquake	None	None	103	2,706.9	$3,940,898
Earthquake	Other	Manufacture_Industry	1	1.8	$81,622
Earthquake	Residential	Res_Munfacture_Mobile_ Hookups	37	228.3	$5,020,676
Earthquake	Residential	Residential	122	1,275.3	$15,165,599
EngineeringPS	BLM	BLM	5	-	$-
EngineeringPS	Commercial	Commercial	1	160.0	$234,946
EngineeringPS	Community_Resources	Cemetery	1	1.1	$-
EngineeringPS	Community_Resources	PlaceofWorship	1	1.5	$-
EngineeringPS	EmergencyServices	Fire_Station	1	107.7	$215,460
EngineeringPS	LocalGovernment	Local_Gov_Fac	1	5.4	$-
EngineeringPS	LocalGovernment	Post_Office	1	0.3	$28,498
EngineeringPS	None	None	171	6,237.7	$7,876,161
EngineeringPS	Other	Manufacture_Industry	3	141.8	$321,622
EngineeringPS	Residential	Res_Munfacture_Mobile_ Hookups	38	268.2	$5,443,619
EngineeringPS	Residential	Residential	121	1,457.4	$17,479,233

5.2.4.3 RUSH VALLEY CITY | RISK ASSESMENT RESULTS | PARCEL DATA

Rush Valley City - Risk Assessment - Critical Infrastructure Parcel Data					
Hazard	Infrastructure Category	Infrastructure Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
EngineeringPS	SITLA	SITLA	2	-	$-
Erosion	BLM	BLM	3	-	$-
Erosion	Community_Resources	Cemetery	1	1.1	$-
Erosion	Community_Resources	PlaceofWorship	1	1.5	$-
Erosion	EmergencyServices	Fire_Station	1	107.7	$215,460
Erosion	LocalGovernment	Local_Gov_Fac	1	5.4	$-
Erosion	LocalGovernment	Post_Office	1	0.3	$28,498
Erosion	None	None	102	3,903.7	$5,417,411
Erosion	Other	Manufacture_Industry	1	1.8	$81,622
Erosion	Residential	Res_Munfacture_Mobile_ Hookups	37	258.2	$5,328,556
Erosion	Residential	Residential	117	1,292.5	$16,412,044
Erosion	SITLA	SITLA	2	-	$-
FEMA_FloodZone	BLM	BLM	2	-	$-
FEMA_FloodZone	Commercial	Commercial	1	160.0	$234,946
FEMA_FloodZone	None	None	86	3,489.0	$4,015,151
FEMA_FloodZone	Other	Manufacture_Industry	1	40.0	$40,000
FEMA_FloodZone	Residential	Res_Munfacture_Mobile_ Hookups	1	4.4	$73,536
FEMA_FloodZone	Residential	Residential	35	950.0	$6,430,438
FEMA_FloodZone	SITLA	SITLA	3	-	$-
Flood_SoilsPurdue	BLM	BLM	2	-	$-
Flood_SoilsPurdue	Commercial	Commercial	1	160.0	$234,946

5.2.4.3 RUSH VALLEY CITY | RISK ASSESMENT RESULTS | PARCEL DATA

Rush Valley City - Risk Assessment - Critical Infrastructure Parcel Data					
Hazard	Infrastructure Category	Infrastructure Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
Flood_SoilsPurdue	Community_Resources	Cemetery	1	1.1	$-
Flood_SoilsPurdue	None	None	81	2,586.7	$3,346,680
Flood_SoilsPurdue	Other	Manufacture_Industry	1	40.0	$40,000
Flood_SoilsPurdue	Residential	Res_Munfacture_Mobile_ Hookups	4	84.4	$589,869
Flood_SoilsPurdue	Residential	Residential	29	422.8	$5,491,720
Flood_Wetland_Riparian	BLM	BLM	3	-	$-
Flood_Wetland_Riparian	Commercial	Commercial	1	160.0	$234,946
Flood_Wetland_Riparian	None	None	80	5,123.2	$6,121,929
Flood_Wetland_Riparian	Other	Manufacture_Industry	1	40.0	$40,000
Flood_Wetland_Riparian	Residential	Res_Munfacture_Mobile_ Hookups	3	19.4	$278,182
Flood_Wetland_Riparian	Residential	Residential	27	830.6	$4,766,375
Flood_Wetland_Riparian	SITLA	SITLA	3	-	$-
RMRS_WildFireHP_2020	BLM	BLM	5	-	$-
RMRS_WildFireHP_2020	Commercial	Commercial	1	160.0	$234,946
RMRS_WildFireHP_2020	Community_Resources	Cemetery	1	1.1	$-
RMRS_WildFireHP_2020	EmergencyServices	Fire_Station	1	107.7	$215,460
RMRS_WildFireHP_2020	LocalGovernment	Local_Gov_Fac	1	5.4	$-
RMRS_WildFireHP_2020	None	None	199	8,332.1	$10,233,084
RMRS_WildFireHP_2020	Other	Manufacture_Industry	3	141.8	$321,622
RMRS_WildFireHP_2020	Residential	Res_Munfacture_Mobile_ Hookups	41	295.6	$5,772,283

5.2.4.3 RUSH VALLEY CITY | RISK ASSESMENT RESULTS | PARCEL DATA

Rush Valley City - Risk Assessment - Critical Infrastructure Parcel Data					
Hazard	Infrastructure Category	Infrastructure Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
RMRS_WildFireHP_2020	Residential	Residential	123	1,799.5	$19,003,876
RMRS_WildFireHP_2020	SITLA	SITLA	3	-	$-
SteepSlope	None	None	3	261.8	$461,750
SteepSlope	SITLA	SITLA	1	-	$-

5.2.4.4 RUSH VALLEY CITY | RISK ASSESMENT RESULTS | LINE DATA

Rush Valley City - Risk Assessment - Critical Infrastructure Line Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum Segment Length (Miles)
Earthquake	Natural	StreamRiver_Ephemeral	13	11.5
Earthquake	Natural	StreamRiver_Intermittent	3	2.4
Earthquake	Transportation	Road	6	1.4
Earthquake	Transportation	Road_A	9	2.7
Earthquake	Transportation	Road_B	13	4.2
Earthquake	Transportation	Road_C	45	9.0
Earthquake	Transportation	Road_D	5	2.7
Earthquake	Transportation	Road_P	1	0.1
Earthquake	Water	Canal_ArtificialPath	2	0.1
Earthquake	Water	Connector	6	4.6
EngineeringPS	Energy	ElectricPowerTransmissionLine	3	116.4
EngineeringPS	Natural	StreamRiver_Ephemeral	11	11.9
EngineeringPS	Natural	StreamRiver_Intermittent	4	3.1
EngineeringPS	Transportation	Road	14	5.6
EngineeringPS	Transportation	Road_A	8	2.8
EngineeringPS	Transportation	Road_B	16	9.6
EngineeringPS	Transportation	Road_C	54	12.7
EngineeringPS	Transportation	Road_D	13	9.8
EngineeringPS	Transportation	Road_P	1	0.1
EngineeringPS	Transportation	Road_X	1	0.3
EngineeringPS	Water	Canal_ArtificialPath	1	0.0

5.2.4.4 RUSH VALLEY CITY | RISK ASSESMENT RESULTS | LINE DATA

Rush Valley City - Risk Assessment - Critical Infrastructure Line Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum Segment Length (Miles)
EngineeringPS	Water	Connector	11	8.6
Erosion	Energy	ElectricPowerTransmissionLine	3	116.4
Erosion	Natural	StreamRiver_Ephemeral	9	10.3
Erosion	Natural	StreamRiver_Intermittent	4	3.1
Erosion	Transportation	Road	10	3.6
Erosion	Transportation	Road_A	7	2.0
Erosion	Transportation	Road_B	9	4.7
Erosion	Transportation	Road_C	52	12.5
Erosion	Transportation	Road_D	9	6.5
Erosion	Transportation	Road_P	1	0.1
Erosion	Water	Canal_ArtificialPath	1	0.0
Erosion	Water	Connector	5	2.9
FEMA_FloodZone	Energy	ElectricPowerTransmissionLine	3	116.4
FEMA_FloodZone	Natural	StreamRiver_Ephemeral	19	18.7
FEMA_FloodZone	Natural	StreamRiver_Intermittent	6	4.3
FEMA_FloodZone	Transportation	Road	6	2.5
FEMA_FloodZone	Transportation	Road_A	2	1.5
FEMA_FloodZone	Transportation	Road_B	9	6.7
FEMA_FloodZone	Transportation	Road_C	5	2.9
FEMA_FloodZone	Transportation	Road_D	3	3.7

5.2.4.4 RUSH VALLEY CITY | RISK ASSESMENT RESULTS | LINE DATA

Rush Valley City - Risk Assessment - Critical Infrastructure Line Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum Segment Length (Miles)
FEMA_FloodZone	Transportation	Road_X	3	0.6
FEMA_FloodZone	Water	Connector	7	6.0
Flood_SoilsPurdue	Energy	ElectricPowerTransmissionLine	2	102.3
Flood_SoilsPurdue	Natural	StreamRiver_Ephemeral	5	4.0
Flood_SoilsPurdue	Natural	StreamRiver_Intermittent	4	3.1
Flood_SoilsPurdue	Transportation	Road	1	0.2
Flood_SoilsPurdue	Transportation	Road_B	1	1.7
Flood_SoilsPurdue	Transportation	Road_C	11	3.3
Flood_SoilsPurdue	Transportation	Road_D	2	1.1
Flood_SoilsPurdue	Water	Connector	6	4.8
Flood_Wetland_Riparian	Energy	ElectricPowerTransmissionLine	3	116.4
Flood_Wetland_Riparian	Natural	StreamRiver_Ephemeral	24	24.1
Flood_Wetland_Riparian	Natural	StreamRiver_Intermittent	6	4.3
Flood_Wetland_Riparian	Transportation	Road	2	1.2
Flood_Wetland_Riparian	Transportation	Road_A	3	1.5
Flood_Wetland_Riparian	Transportation	Road_B	6	6.2
Flood_Wetland_Riparian	Transportation	Road_C	8	4.0
Flood_Wetland_Riparian	Transportation	Road_D	5	3.6
Flood_Wetland_Riparian	Water	Canal_ArtificialPath	2	0.1
Flood_Wetland_Riparian	Water	Connector	18	13.6

5.2.4.4 RUSH VALLEY CITY | RISK ASSESMENT RESULTS | LINE DATA

Rush Valley City - Risk Assessment - Critical Infrastructure Line Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum Segment Length (Miles)
RMRS_WildFireHP_2020	Energy	ElectricPowerTransmissionLine	4	128.6
RMRS_WildFireHP_2020	Natural	StreamRiver_Ephemeral	24	24.1
RMRS_WildFireHP_2020	Natural	StreamRiver_Intermittent	6	4.3
RMRS_WildFireHP_2020	Transportation	Road	18	6.5
RMRS_WildFireHP_2020	Transportation	Road_A	12	4.1
RMRS_WildFireHP_2020	Transportation	Road_B	20	11.8
RMRS_WildFireHP_2020	Transportation	Road_C	47	12.1
RMRS_WildFireHP_2020	Transportation	Road_D	15	9.9
RMRS_WildFireHP_2020	Transportation	Road_P	1	0.1
RMRS_WildFireHP_2020	Transportation	Road_X	3	0.6
RMRS_WildFireHP_2020	Water	Canal_ArtificialPath	1	0.0
RMRS_WildFireHP_2020	Water	Connector	15	11.8

Grantsville City - Risk Assessment - Critical Infrastructure Areas Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum of Areas (Acres)
AvalanchTerrain	Agricultural	GrazingAllotment	1	4,919.7
Earthquake	Agricultural	Agriculture_Parcel	101	1,688.7
Earthquake	Agricultural	AgricultureWRLA_DryCrop	32	549.0
Earthquake	Agricultural	AgricultureWRLA_Food	14	101.1
Earthquake	Agricultural	AgricultureWRLU_Sprinkler	73	649.1
Earthquake	Agricultural	AgricultureWRLU_SubIrrigated	1	1.5
Earthquake	Agricultural	GrazingAllotment	5	7,954.0
Earthquake	Natural	LakePond_Intermittent	8	4.5
Earthquake	Natural	Riparian	1	47.0
Earthquake	Natural	Wetland	30	38.0
Earthquake	Water	RetailCulinaryWaterServiceArea	1	1.6
Earthquake	Water	TransientNCZone_2	1	22.0
Earthquake	Water	TransientNCZone_4	1	712.3
EngineeringPS	Agricultural	Agriculture_Parcel	159	3,753.6
EngineeringPS	Agricultural	AgricultureWRLA_DryCrop	51	1,043.2
EngineeringPS	Agricultural	AgricultureWRLA_Food	30	718.7
EngineeringPS	Agricultural	AgricultureWRLU_Sprinkler	98	1,245.3
EngineeringPS	Agricultural	AgricultureWRLU_SubIrrigated	9	231.3
EngineeringPS	Agricultural	GrazingAllotment	7	9,458.8
EngineeringPS	Natural	LakePond_Intermittent	12	24.2
EngineeringPS	Natural	LakePond_Perennial	2	12.2

5.2.4.5 RUSH VALLEY CITY | RISK ASSESMENT RESULTS | AREA DATA

Grantsville City - Risk Assessment - Critical Infrastructure Areas Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum of Areas (Acres)
EngineeringPS	Natural	Riparian	5	66.1
EngineeringPS	Natural	Wetland	49	154.9
EngineeringPS	Water	RetailCulinaryWaterServiceArea	2	77.3
EngineeringPS	Water	TransientNCZone_2	1	22.0
EngineeringPS	Water	TransientNCZone_4	1	712.3
Erosion	Agricultural	Agriculture_Parcel	94	2,182.2
Erosion	Agricultural	AgricultureWRLA_DryCrop	36	787.4
Erosion	Agricultural	AgricultureWRLA_Food	11	22.2
Erosion	Agricultural	AgricultureWRLU_Sprinkler	63	603.3
Erosion	Agricultural	AgricultureWRLU_SubIrrigated	6	48.1
Erosion	Agricultural	GrazingAllotment	7	9,458.8
Erosion	Natural	LakePond_Intermittent	11	4.7
Erosion	Natural	Riparian	4	19.0
Erosion	Natural	Wetland	27	37.0
Erosion	Water	RetailCulinaryWaterServiceArea	1	1.6
Erosion	Water	TransientNCZone_2	1	22.0
Erosion	Water	TransientNCZone_4	1	712.3
FEMA_FloodZone	Agricultural	Agriculture_Parcel	77	2,119.7
FEMA_FloodZone	Agricultural	AgricultureWRLA_DryCrop	23	679.0
FEMA_FloodZone	Agricultural	AgricultureWRLA_Food	14	481.1

5.2.4.5 RUSH VALLEY CITY | RISK ASSESMENT RESULTS | AREA DATA

Grantsville City - Risk Assessment - Critical Infrastructure Areas Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum of Areas (Acres)
FEMA_FloodZone	Agricultural	AgricultureWRLU_Sprinkler	47	510.2
FEMA_FloodZone	Agricultural	AgricultureWRLU_SubIrrigated	8	229.8
FEMA_FloodZone	Agricultural	GrazingAllotment	4	9,073.3
FEMA_FloodZone	Natural	LakePond_Intermittent	3	1.3
FEMA_FloodZone	Natural	LakePond_Perennial	2	12.2
FEMA_FloodZone	Natural	Riparian	4	19.0
FEMA_FloodZone	Natural	Wetland	41	96.5
FEMA_FloodZone	Water	RetailCulinaryWaterServiceArea	1	75.7
FEMA_FloodZone	Water	TransientNCZone_4	1	712.3
Flood_SoilsPurdue	Agricultural	Agriculture_Parcel	83	1,738.2
Flood_SoilsPurdue	Agricultural	AgricultureWRLA_DryCrop	14	311.5
Flood_SoilsPurdue	Agricultural	AgricultureWRLA_Food	15	666.8
Flood_SoilsPurdue	Agricultural	AgricultureWRLU_Sprinkler	41	473.2
Flood_SoilsPurdue	Agricultural	AgricultureWRLU_SubIrrigated	8	229.8
Flood_SoilsPurdue	Agricultural	GrazingAllotment	4	7,948.3
Flood_SoilsPurdue	Natural	LakePond_Intermittent	7	21.2
Flood_SoilsPurdue	Natural	LakePond_Perennial	1	11.2
Flood_SoilsPurdue	Natural	Riparian	4	19.0
Flood_SoilsPurdue	Natural	Wetland	33	132.1
Flood_SoilsPurdue	Water	RetailCulinaryWaterServiceArea	1	75.7

5.2.4.5 RUSH VALLEY CITY | RISK ASSESMENT RESULTS | AREA DATA

Grantsville City - Risk Assessment - Critical Infrastructure Areas Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum of Areas (Acres)
Flood_SoilsPurdue	Water	TransientNCZone_4	1	712.3
Flood_Wetland_Riparian	Agricultural	Agriculture_Parcel	61	2,369.8
Flood_Wetland_Riparian	Agricultural	AgricultureWRLA_DryCrop	24	805.2
Flood_Wetland_Riparian	Agricultural	AgricultureWRLA_Food	12	451.2
Flood_Wetland_Riparian	Agricultural	AgricultureWRLU_Sprinkler	35	508.3
Flood_Wetland_Riparian	Agricultural	AgricultureWRLU_SubIrrigated	8	222.1
Flood_Wetland_Riparian	Agricultural	GrazingAllotment	6	9,450.6
Flood_Wetland_Riparian	Natural	LakePond_Intermittent	15	25.5
Flood_Wetland_Riparian	Natural	LakePond_Perennial	1	11.2
Flood_Wetland_Riparian	Natural	Riparian	5	66.1
Flood_Wetland_Riparian	Natural	Wetland	69	172.2
Flood_Wetland_Riparian	Water	RetailCulinaryWaterServiceArea	2	84.9
Flood_Wetland_Riparian	Water	TransientNCZone_4	1	712.3
RMRS_WildFireHP_2020	Agricultural	Agriculture_Parcel	168	4,066.9
RMRS_WildFireHP_2020	Agricultural	AgricultureWRLA_DryCrop	73	1,357.1
RMRS_WildFireHP_2020	Agricultural	AgricultureWRLA_Food	33	754.6
RMRS_WildFireHP_2020	Agricultural	AgricultureWRLU_Sprinkler	105	1,486.3
RMRS_WildFireHP_2020	Agricultural	AgricultureWRLU_SubIrrigated	7	213.4
RMRS_WildFireHP_2020	Agricultural	GrazingAllotment	7	9,458.8
RMRS_WildFireHP_2020	Natural	LakePond_Intermittent	13	25.4

5.2.4.5 RUSH VALLEY CITY | RISK ASSESMENT RESULTS | AREA DATA

Grantsville City - Risk Assessment - Critical Infrastructure Areas Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum of Areas (Acres)
RMRS_WildFireHP_2020	Natural	LakePond_Perennial	2	12.2
RMRS_WildFireHP_2020	Natural	Riparian	5	66.1
RMRS_WildFireHP_2020	Natural	Wetland	63	169.8
RMRS_WildFireHP_2020	Water	RetailCulinaryWaterServiceArea	2	84.9
RMRS_WildFireHP_2020	Water	TransientNCZone_4	1	712.3
SteepSlope	Agricultural	GrazingAllotment	3	7,134.0

5.2.4 RUSH VALLEY CITY - MITIGATION STRATAGIES

RUSH VALLEY 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	NFIP compliant?	N/A
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	NFIP compliant?	N/A
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	NFIP compliant?	N/A
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	NFIP compliant?	N/A
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	NFIP compliant?	N/A
		Pot. Funding Sources	Local

RUSH VALLEY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
DROUGHT - CURRENT RESIDENTS/PROPERTY	Designate and or preserve adequate source water protection zones or groundwater recharge areas	Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$25 K - $50 K
		Timeframe	2023
DROUGHT - CURRENT RESIDENTS/PROPERTY	Educate Decision Makers and Government Employees on Water Saving Techniques (list event details in "comments")	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
DROUGHT - CURRENT RESIDENTS/PROPERTY	Educate Residents on Water Saving Techniques (list event details in "comments")	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
DROUGHT - CURRENT RESIDENTS/PROPERTY	Educate the Agriculture Sector on Soil and Water Saving Practices (list event details in "comments")	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2023
DROUGHT - CURRENT RESIDENTS/PROPERTY	Enforce codes ordinances statues and laws that promote drought resiliency and water conservation practices	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
DROUGHT - CURRENT RESIDENTS/PROPERTY	Expand and Improve Existing Potable Water Systems	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City

RUSH VALLEY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Estimated Cost	$25 K - $50 K
		Timeframe	2022
DROUGHT - CURRENT RESIDENTS/PROPERTY	Improve Public Water Infrastructure and Management with Water Provider	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$25 K - $50 K
		Timeframe	2022
DROUGHT - CURRENT RESIDENTS/PROPERTY	Monitor Water Supply for leaks system failures inefficiencies etc. via monitoring system and audits	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
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	2025
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
		Responsible Entity	State
		Priority	High
		NFIP compliant?	Helps reduce risk
		Estimated Cost	$25 K - $50 K
		Timeframe	2023
DROUGHT - FUTURE RESIDENTS/PROPERTY	Designate and or preserve adequate source water protection zones or groundwater recharge areas	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$0 - $25 K
		Timeframe	2023

RUSH VALLEY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
DROUGHT - FUTURE RESIDENTS/PROPERTY	Educate Decision Makers and Government Employees on Water Saving Techniques (list event details in "comments")	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
DROUGHT - FUTURE RESIDENTS/PROPERTY	Educate Residents on Water Saving Techniques (list event details in "comments")	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
DROUGHT - FUTURE RESIDENTS/PROPERTY	Educate the Agriculture Sector on Soil and Water Saving Practices (list event details in "comments")	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$0 - $25 K
		Timeframe	2022
DROUGHT - FUTURE RESIDENTS/PROPERTY	Enforce codes ordinances statues and laws that promote drought resiliency and water conservation practices	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$0 - $25 K
		Timeframe	2022
DROUGHT - FUTURE RESIDENTS/PROPERTY	Expand and Improve Existing Potable Water Systems	Pot. Funding Sources	State UGS
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$100 K - $250 K
		Timeframe	2023
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
		Priority	High

RUSH VALLEY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
DROUGHT - FUTURE RESIDENTS/PROPERTY	Plan and Prepare for Drought via emergency planning and warning systems	NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$0 - $25 K
		Timeframe	2022
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	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Building Code Adoption and Enforcement	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$25 K - $50 K
		Timeframe	2022
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Conduct Building Safety Inspections	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$25 K - $50 K
		Timeframe	2022
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	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$0 - $25 K
		Timeframe	2022

RUSH VALLEY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Local Planning such as critical facilities planning financial incentives creating a safety committee emergency planning etc	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$0 - $25 K
		Timeframe	2023
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Retrofit Critical Facilities and Infrastructure to Withstand Earthquakes (list specifics in "comments" section)	Pot. Funding Sources	USGS
		Priority	Medium
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$25 K - $50 K
		Timeframe	2023
EARTHQUAKE - FUTURE RESIDENTS/PROPERTY	Building Code Adoption and Enforcement	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$25 K - $50 K
		Timeframe	2022
EARTHQUAKE - FUTURE RESIDENTS/PROPERTY	Conduct Building Safety Inspections	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$0 - $25 K
		Timeframe	2022
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	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$25 K - $50 K
		Timeframe	2022

RUSH VALLEY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
EARTHQUAKE - FUTURE RESIDENTS/PROPERTY	Local Planning such as critical facilities planning financial incentives creating a safety committee emergency planning etc	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$0 - $25 K
		Timeframe	2022
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	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$25 K - $50 K
		Timeframe	2022
FLOOD - CURRENT RESIDENTS/PROPERTY	Coordination and Partnerships i.e. develop stormwater committee regional watershed council local councils etc	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	County
		Estimated Cost	$25 K - $50 K
		Timeframe	2023
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	Pot. Funding Sources	USGS
		Priority	Medium
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$50 K - $100 K
		Timeframe	2025
		Pot. Funding Sources	Local

RUSH VALLEY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
FLOOD - CURRENT RESIDENTS/PROPERTY	Improve Stormwater Drainage Capacity	Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
FLOOD - CURRENT RESIDENTS/PROPERTY	Information and educational events (list details in "comments" section)	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		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	Priority	Medium
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	$25 K - $50 K
		Timeframe	2023
FLOOD - CURRENT RESIDENTS/PROPERTY	Preserve Floodplains and Open Space through ordinances land purchase conservation easements etc	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	Protect and Restore Natural Flood Mitigation Features through natural greenway protection and restoration	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$25 K - $50 K
		Timeframe	2022
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	County

RUSH VALLEY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Estimated Cost	$25 K - $50 K
		Timeframe	2022
FLOOD - CURRENT RESIDENTS/PROPERTY	Remove Existing Structures from Flood Hazard Area	Priority	Low
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$100 K - $250 K
		Timeframe	2025
FLOOD - CURRENT RESIDENTS/PROPERTY	Review and/or Develop Codes Ordinances and Policies	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	Stormwater Management Planning	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
FLOOD - FUTURE 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 - FUTURE RESIDENTS/PROPERTY	Conduct Regular Maintenance for Drainage Systems and Flood Control Structures	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$0 - $25 K
		Timeframe	2022
		Priority	High

RUSH VALLEY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
FLOOD - FUTURE RESIDENTS/PROPERTY	Coordination and Partnerships i.e. develop stormwater committee regional watershed council local councils etc	NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$25 K - $50 K
		Timeframe	2022
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	Pot. Funding Sources	NRCS
		Priority	Medium
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$25 K - $50 K
		Timeframe	2023
FLOOD - FUTURE RESIDENTS/PROPERTY	Improve Stormwater Drainage Capacity	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	County
		Estimated Cost	$0 - $25 K
		Timeframe	2023
FLOOD - FUTURE RESIDENTS/PROPERTY	Information and educational events (list details in "comments" section)	Pot. Funding Sources	Other State
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
FLOOD - FUTURE RESIDENTS/PROPERTY	Other local planning mechanisms such as joining the NFIP creating risk plans establishing green infrastructure plan etc	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
FLOOD - FUTURE RESIDENTS/PROPERTY	Preserve Floodplains and Open Space through ordinances land purchase conservation easements etc	NFIP compliant?	N/A
		Priority	Medium
		NFIP compliant?	Helps reduce risk

RUSH VALLEY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
FLOOD - FUTURE RESIDENTS/PROPERTY	Protect and Restore Natural Flood Mitigation Features through natural greenway protection and restoration	Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$0 - $25 K
		Timeframe	2023
FLOOD - FUTURE RESIDENTS/PROPERTY	Protect Infrastructure such as roads bridges wastewater treatment etc	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$50 K - $100 K
		Timeframe	2022
FLOOD - FUTURE RESIDENTS/PROPERTY	Remove Existing Structures from Flood Hazard Area	Pot. Funding Sources	USGS
		Priority	Medium
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$50 K - $100 K
		Timeframe	2023
FLOOD - FUTURE RESIDENTS/PROPERTY	Review and/or Develop Codes Ordinances and Policies	Pot. Funding Sources	NRCS
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$25 K - $50 K
		Timeframe	2022
FLOOD - FUTURE RESIDENTS/PROPERTY	Stormwater Management Planning	Priority	Medium
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	$25 K - $50 K
		Timeframe	2023
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	NFIP compliant?	N/A
LANDSLIDE/STEEP SLOPES - CURRENT 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 - 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) - NFIP compliant?		N/A

RUSH VALLEY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
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	NFIP compliant?	N/A
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) - NFIP compliant?		N/A
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	NFIP compliant?	N/A
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	NFIP compliant?	N/A
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
PROBLEM SOILS - FUTURE RESIDENTS/PROPERTY	Develop a code or regulation prohibiting or limiting structures in known problem soil areas	NFIP compliant?	N/A
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	NFIP compliant?	N/A
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

RUSH VALLEY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
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
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	Medium
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		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	Pot. Funding Sources	USGS
		Responsible Entity	State
		Priority	Low
		NFIP compliant?	Helps reduce risk
		Estimated Cost	$0 - $25 K
		Timeframe	2023

RUSH VALLEY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
SEVERE WEATHER - CURRENT RESIDENTS/PROPERTY	Retrofit Public Buildings and Critical Facilities/Infrastructure (specify below in comments)	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2024
SEVERE WEATHER - CURRENT RESIDENTS/PROPERTY	Review and/or Develop Codes Ordinances and Policies	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
SEVERE WEATHER - CURRENT RESIDENTS/PROPERTY	Use natural environmental features as wind buffers in site design	NFIP compliant?	N/A
SEVERE WEATHER - FUTURE RESIDENTS/PROPERTY	Conduct Outreach Activities Increase and Public Awareness (specify below in comments)	Pot. Funding Sources	USGS
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	County
		Estimated Cost	$25 K - $50 K
		Timeframe	2022
SEVERE WEATHER - FUTURE RESIDENTS/PROPERTY	Protect Life Safety and Property Damage of Residential Buildings through applicable architecture and retrofits	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	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
		NFIP compliant?	N/A
		Priority	High

RUSH VALLEY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
SEVERE WEATHER - FUTURE RESIDENTS/PROPERTY	Reducing Impacts of Wind Hail Lightning through structural projects i.e. windbreaks	Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$0 - $25 K
		Timeframe	2022
SEVERE WEATHER - FUTURE RESIDENTS/PROPERTY	Review and/or Develop Codes Ordinances and Policies	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	County
		Estimated Cost	$0 - $25 K
		Timeframe	2022
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	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
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	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Adopt and Enforce Building Codes and Development Standards	Priority	Medium
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$0 - $25 K

RUSH VALLEY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		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	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Develop wildfire and/or Wildland Urban Interface (WUI) codes or regulation prohibiting or limiting structures in known wildfire risk areas	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Educate Property Owners about Wildfire Mitigation Techniques (List specifics below in comments)	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
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	$25 K - $50 K
		Timeframe	2022
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
		Timeframe	2022
		Priority	High
		NFIP compliant?	Helps reduce risk

RUSH VALLEY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Include considerations of wildfire hazards in land use public safety and other processes	Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$0 - $25 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	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
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
		Timeframe	2022
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
		Timeframe	2022
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Promote conservation of open space or wildland-urban boundary zones to separate developed areas from high-hazard areas	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Set guidelines for annexation and service extensions in high-risk areas	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	$0 - $25 K

RUSH VALLEY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Timeframe	2022
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	$0 - $25 K
		Timeframe	2022
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	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Address density and quantity of development as well emergency access landscaping and water supply	NFIP compliant?	N/A
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	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Develop a community wildfire preparedness plan	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
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
		Timeframe	2022
		Priority	High

RUSH VALLEY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
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	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
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	County
		Estimated Cost	$0 - $25 K
		Timeframe	2022
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Implement a Fuels Management Program	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
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	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Mandate wildfire planning be incorporated into development and land use planning	Priority	Medium
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
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	City

RUSH VALLEY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Estimated Cost	$0 - $25 K
		Timeframe	2022
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Participate in Firewise Program	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Promote conservation of open space or wildland-urban boundary zones to separate developed areas from high-hazard areas	Priority	Medium
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Set guidelines for annexation and service extensions in high-risk areas	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	$25 K - $50 K
		Timeframe	2022
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Structural and defensible space requirements	Priority	High
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
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	County
		Estimated Cost	$0 - $25 K
		Timeframe	2022

5.3 STOCKTON CITY

5.3.2 Stockton City - Future Development Risk

5.3.3 Stockton City - Hazards

1. Alluvial Fans
2. Debris Flow
3. Earthquake
4. Engineering Problem Soils
5. Erosion
6. Flood
7. Steep Slope
8. Wildfire

5.3.4 Stockton City - Risk Assessment Results

1. Building Footprints - Structures
2. Point Data - Features
3. Parcel Data
4. Line Data
5. Area Data

5.3.5 Stockton City - Mitigation Stratagies

Risk Summary

- Alluvial Fans
- Debris Flow
- Earthquake
- Engineering Problem Soils
- Erosion
- Flood

Aerial image of Stockton City.

5.3.2 STOCKTON CITY - HAZARDS

Risk to Future Development

Future Development is expected on the South East area of Stockton near the area of Solider Canyon. A residential development of 320 homes are expected in the area. This area is susceptible wildfire, flood, soil erosion.

HazType / Acres

Alluvial Fan	32
Debris Flow	0
Engineering Problem Soils	677
Erosion	663
FEMA_Flood Zone	35
Flood_Soils	611
Flood_Wetland & Riparian	148
Liquefaction	165
Steep Slope	21
Wildfire Hazard Potential	1,079

Grantsville City - Risk Summary

Hazard Type	*Probability of Occurence*	*Population Impact*	*Property Impact*	*Econmic Impact*	*Future Development Impact*	*Overall Risk*
Alluvial Fans	Low	Low	Moderate	Moderate	Moderate	Low
Debris Flow	Moderate	low	Moderate	HIgh	Low	Low
Earthquake	Low	Moderate	moderate	moderate	Low	Low
Engineering Problem Soils	Moderate	Low	Moderate	Moderate	High	Moderate
Erosion	High	Low	High	High	High	High
Flood	High	Moderate	High	High	Moderate	High
Steep Slope	Low	low	low	low	Moderate	low
Wildfire	Moderate	Moderate	High	High	Moderate	High

5.3.3 STOCKTON CITY - HAZARDS

Alluvial Fan 32 ac

While no structures are located in alluvial fan areas yet, the city would be wise to prevent development in these areas to avoid future damage to structures and risk to life and property. Potential losses are minimal but include 0.7 miles of roads, 17.5 miles of natural gas lines, and extensive undeveloped agricultural lands and natural areas.

Debris Flow 0 ac

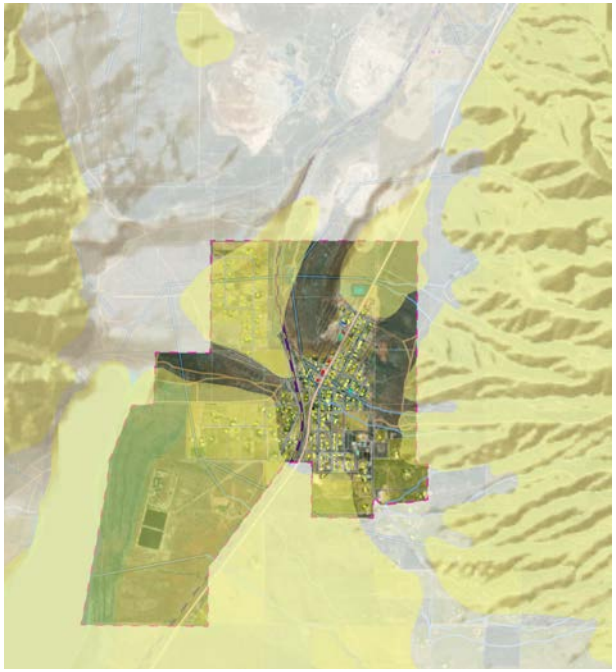
A very minor portion of the eastern side of town is at risk for debris flows. No potential losses exist in this analysis.

Engineering Problem Soils 677 ac

Most of the undeveloped areas in Stockton are covered by problem soils, including most major roads, sewer treatment, and developments west of town. While not an immenent threat, these soils can damage structures and infrastructure over time. Potential losses include 12 homes, 1 church, 1 cemetery, 14 miles of power lines, and around 10 miles of roads.

Alluvial Fans

Debris Flow Risk



Problem Soils

5.3.3 STOCKTON CITY - HAZARDS

Erosion 663 ac

Most of the undeveloped areas in Stockton are covered by erosive soils, including most major roads, sewer treatment, and developments west of town. While not an immenent threat, these soils can damage structures and infrastructure over time. Potential losses include 1 church, 73 homes, 14 miles of electrical lines, and around 4 miles of roads.

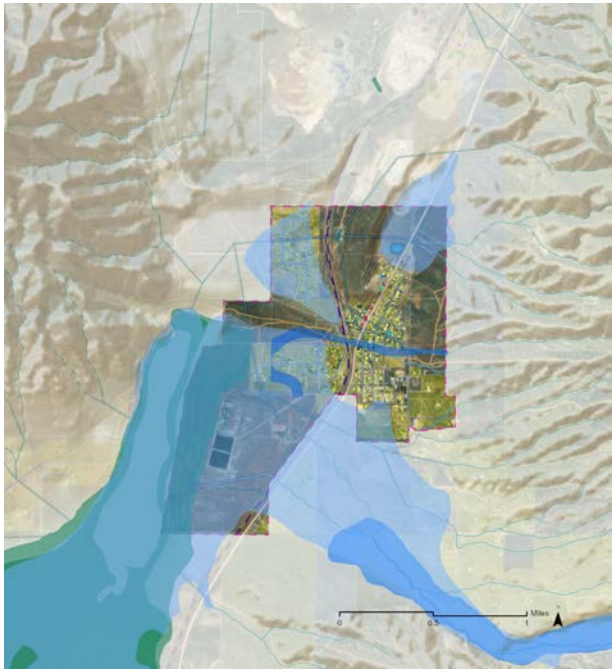
FEMA_Flood Zone 35 ac

A small stream corridor through the center of town is considered flood zone. However, more risks are likely outside of that particular drainage, especially low-lying areas or areas with high water tables. Potential losses include 18 homes, around 3 miles of roads, and extensive areas of agricultural and grazing land.

Flood_Soils 611 ac

Flood_Wetland & Riparian 148 ac

High water tables and stream/ditch corridors pose significant risk to local residents in Stockton. These areas can also be innundated during flood events and overflow into undesirable areas. Potential losses include 74 homes, 1 church, 1 historic site, and over 6 miles of roads.



Erosive Soils (Roads and Trails)

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

5.3.3 STOCKTON CITY - HAZARDS

Liquefaction 165 AC

Mostly undeveloped areas southwest of town are at risk from liquefaction during an earthquake. At risk areas consist of petroleum pipelines (59 miles), and 1 mile or less of both roads and canals.

Steep Slope 21 AC

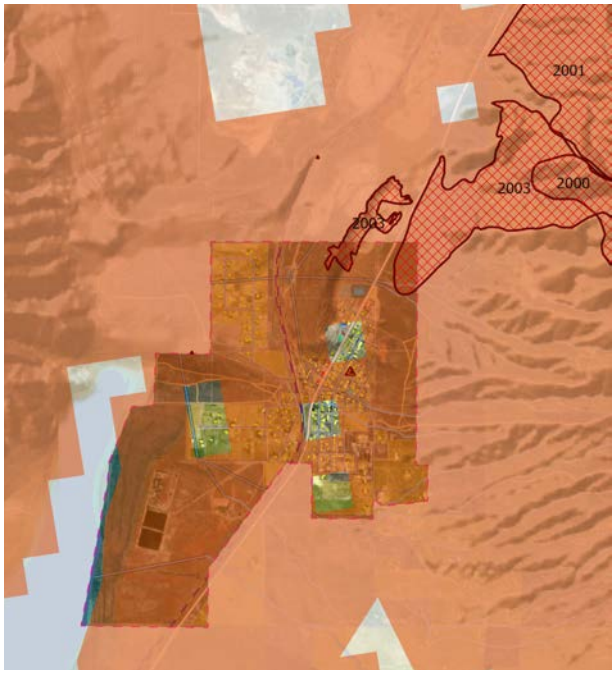
Steep slopes exist around the benches of the mountain north of town, but there are no structures currently located on those slopes. Potential losses include 1 home, 14 miles of power lines, 59 miles of petroleum pipelines, and under 2 miles of roads.

Wildfire Hazard Potential 1,079 AC

Virtually the entire town of Stockton could be at risk from a significant wildfire event. Most of this risk comes from its proximity to nearby fields, benches, and mountains on all sides. Potential losses include 5 businesses, 2 community center buildings, 1 church, 1 post office, over 320 residential units, 1 fire station, many miles of roads and transmission lines, and tens of thousands of acres of local farm and grazing lands.

Liquefaction Risk

Steep Slopes >30%



Wildflire Hazard

5.3.4.1 STOCKTON CITY - RISK ASSESMENT RESULTS - STRUCTURES

Stockton City - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Problem Engineering Soils	Community Resource	PlaceofWorship	1
	Other	Out	3
	Residential	Manufactured	12

Stockton City - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Buildings
Erosion_RoadTrail	Community Resource	PlaceofWorship	1
Erosion_RoadTrail	Other	Out	3
Erosion_RoadTrail	Residential	Manufactured	12
Erosion_RoadTrail	Residential	Residential	61

Stockton City - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Buildings
FEMA_FloodZone	Other	Out	1
FEMA_FloodZone	Residential	Manufactured	6
FEMA_FloodZone	Residential	Res_Modular	1
FEMA_FloodZone	Residential	Residential	11

Stockton City - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Buildings
Flood_SoilsPurdue	Community Resource	PlaceofWorship	1
Flood_SoilsPurdue	Other	Out	3
Flood_SoilsPurdue	Residential	Manufactured	12
Flood_SoilsPurdue	Residential	Residential	58
Flood_Wetland/ Riparian	Residential	Manufactured	1
Flood_Wetland/ Riparian	Residential	Detached Single Family Residential	3

Stockton City - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Buildings
SteepSlope	Residential	Manufactured	1

Stockton City - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Buildings
Wildfire	Commercial	Commercial	5
Wildfire	Community Resource	Community Center	2
Wildfire	Community Resource	PlaceofWorship	1
Wildfire	Emergency Facility	FireStation	1
Wildfire	Government Facility	LocalGov_Police	1
Wildfire	Government Facility	Post_Office	1
Wildfire	Other	Out	4
Wildfire	Residential	Duplex	1
Wildfire	Residential	Manufactured	106
Wildfire	Residential	Res_MobileHome	18
Wildfire	Residential	Res_Modular	1
Wildfire	Residential	Residential	202

5.3.4.2 STOCKTON CITY - RISK ASSESMENT RESULTS - CRITICAL FACILITIES

Stockton City - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
DwellingsWithBasements	Community	Cemetery	1
DwellingsWithBasements	Community	PlaceofWorship	1
DwellingsWithBasements	Recreation	HistoricSites	1
DwellingsWithBasements	Water	Well_Log	3
DwellingsWithoutBasements	Community	Cemetery	1
DwellingsWithoutBasements	Community	PlaceofWorship	1
DwellingsWithoutBasements	Recreation	HistoricSites	1
DwellingsWithoutBasements	Water	Well_Log	3

Stockton City - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Erosion_RoadTrail	Community	Cemetery	1
Erosion_RoadTrail	Community	PlaceofWorship	1
Erosion_RoadTrail	Recreation	HistoricSites	1
Erosion_RoadTrail	Water	Well_Log	3

Stockton City - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Flood_SoilsPurdue	Community	PlaceofWorship	1
Flood_SoilsPurdue	Recreation	HistoricSites	1
Flood_SoilsPurdue	Water	Well_Log	3
Flood_Wetland/Riparian	Water	Well_Log	1

Stockton City - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Wildfire	Community	Cemetery	1
Wildfire	Community	PlaceofWorship	1
Wildfire	Emergency	FireStation	1
Wildfire	Emergency	LawEnforcement	1
Wildfire	Energy	FuelStation_Gas	2
Wildfire	Government	LocalGovFacility	1
Wildfire	Government	PostOffice	1
Wildfire	Recreation	HistoricSites	4
Wildfire	Recreation	Park	1
Wildfire	Water	Well_Log	4

5.3.4.3 STOCKTON CITY | RISK ASSESMENT RESULTS | PARCEL DATA

Stockton City - Risk Assessment - Critical Infrastructure Parcel Data					
Hazard	Infrastructure Category	Infrastructure Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
AlluvialFan	None	None	3086	109.859998	41296
AlluvialFan	Residential	Residential	752	13.76	375438
DebrisFlow	None	None	783	30.299999	10215
DwellingsWithBasements	BLM	BLM	1968	0	0
DwellingsWithBasements	Commercial	Commercial	723	2.54	278376
DwellingsWithBasements	Community_Resources	Cemetery	735	2.6	0
DwellingsWithBasements	Community_Resources	PlaceofWorship	1020	5.04	0
DwellingsWithBasements	None	None	24704	785.798986	797546
DwellingsWithBasements	Residential	Res_Munfacture_Mobile_ Hookups	5369	64.419999	2239745
DwellingsWithBasements	Residential	Residential	16469	136.06	12102980
Erosion_RoadTrail	BLM	BLM	1970	0	0
Erosion_RoadTrail	Commercial	Commercial	725	2.54	278376
Erosion_RoadTrail	Community_Resources	Cemetery	736	2.6	0
Erosion_RoadTrail	Community_Resources	PlaceofWorship	1021	5.04	0
Erosion_RoadTrail	None	None	24740	785.798986	797546
Erosion_RoadTrail	Residential	Res_Munfacture_Mobile_ Hookups	5380	64.419999	2239745
Erosion_RoadTrail	Residential	Residential	16522	136.06	12102980
FEMA_FloodZone	None	None	8418	100.259	42685
FEMA_FloodZone	Residential	Res_Munfacture_Mobile_ Hookups	6201	12.02	1308448
FEMA_FloodZone	Residential	Residential	12706	33.609	3031835
FEMA_FloodZone	Residential	Residential_MultiFamily	1960	0	0

5.3.4.3 STOCKTON CITY | RISK ASSESMENT RESULTS | PARCEL DATA

Stockton City - Risk Assessment - Critical Infrastructure Parcel Data					
Hazard	Infrastructure Category	Infrastructure Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
Flood_SoilsPurdue	BLM	BLM	1962	0	0
Flood_SoilsPurdue	Commercial	Commercial	717	2.54	278376
Flood_SoilsPurdue	Community_Resources	PlaceofWorship	1017	5.04	0
Flood_SoilsPurdue	None	None	21229	731.368987	762910
Flood_SoilsPurdue	Residential	Res_Munfacture_Mobile_ Hookups	4281	34.45	1722678
Flood_SoilsPurdue	Residential	Residential	16310	136.06	12102980
Flood_Wetland_Riparian	BLM	BLM	977	0	0
Flood_Wetland_Riparian	Commercial	Commercial	1567	0.27	76640
Flood_Wetland_Riparian	Community_Resources	Cemetery	732	2.6	0
Flood_Wetland_Riparian	EmergencyServices	Police Department/Local_Gov_ Fac	587	0.22	0
Flood_Wetland_Riparian	None	None	15858	631.889988	609389
Flood_Wetland_Riparian	Residential	Res_Munfacture_Mobile_ Hookups	2308	35.699999	1432444
Flood_Wetland_Riparian	Residential	Residential	13366	43.609	3553418
Liquefaction	BLM	BLM	983	0	0
Liquefaction	None	None	3283	256.379995	106560
RMRS_WildFireHP_2020	BLM	BLM	1964	0	0
RMRS_WildFireHP_2020	Commercial	Commercial	8422	4.58	1724145
RMRS_WildFireHP_2020	Community_Resources	Cemetery	733	2.6	0
RMRS_WildFireHP_2020	Community_Resources	PlaceofWorship	1018	5.04	0
RMRS_WildFireHP_2020	EmergencyServices	Fire_Station/Emergency_Med	471	0.37	0

5.3.4.3 STOCKTON CITY | RISK ASSESMENT RESULTS | PARCEL DATA

Stockton City - Risk Assessment - Critical Infrastructure Parcel Data					
Hazard	Infrastructure Category	Infrastructure Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
RMRS_WildFireHP_2020	EmergencyServices	Police Department/Local_Gov_Fac	588	0.22	0
RMRS_WildFireHP_2020	LocalGovernment	Post_Office	368	0.55	724266
RMRS_WildFireHP_2020	None	None	60397	940.596486	1232675
RMRS_WildFireHP_2020	Residential	Res_Munfacture_Mobile_Hookups	46261	92.511999	10721539
RMRS_WildFireHP_2020	Residential	Residential	129368	189.7645	26578951
RMRS_WildFireHP_2020	Residential	Residential_MultiFamily	2349	0.18	200970
SteepSlope	None	None	9846	230.258994	67973
SteepSlope	Residential	Res_Munfacture_Mobile_Hookups	2155	31.739999	641917
SteepSlope	Residential	Residential	2465	1.61	291546

5.3.4.4 STOCKTON CITY | RISK ASSESMENT RESULTS | LINE DATA

Stockton City - Risk Assessment - Critical Infrastructure Line Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum Segment Length (Miles)
AlluvialFan	Energy	Pipeline_NaturalGas	1	17.5
AlluvialFan	Natural	StreamRiver_Ephemeral	4	2.4
AlluvialFan	Transportation	Road	3	0.3
AlluvialFan	Transportation	Road_A	1	0.4
AlluvialFan	Water	Connector	2	0.2
DwellingsWithBasements	Energy	ElectricPowerTransmissionLine	1	14.0
DwellingsWithBasements	Energy	Pipeline_NaturalGas	1	17.5
DwellingsWithBasements	Energy	Pipeline_Petro	1	58.9
DwellingsWithBasements	Natural	StreamRiver_Ephemeral	7	5.8
DwellingsWithBasements	Natural	StreamRiver_Intermittent	1	0.7
DwellingsWithBasements	Transportation	Road	8	0.9
DwellingsWithBasements	Transportation	Road_A	2	1.1
DwellingsWithBasements	Transportation	Road_C	16	2.6
DwellingsWithBasements	Transportation	Road_D	5	0.7
DwellingsWithBasements	Water	Canal_ArtificialPath	1	0.2
DwellingsWithBasements	Water	Connector	10	4.7
Erosion_RoadTrail	Energy	ElectricPowerTransmissionLine	1	14.0
Erosion_RoadTrail	Energy	Pipeline_NaturalGas	1	17.5
Erosion_RoadTrail	Energy	Pipeline_Petro	1	58.9
Erosion_RoadTrail	Natural	StreamRiver_Ephemeral	7	5.8
Erosion_RoadTrail	Natural	StreamRiver_Intermittent	1	0.7

5.3.4.4 STOCKTON CITY | RISK ASSESMENT RESULTS | LINE DATA

Stockton City - Risk Assessment - Critical Infrastructure Line Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum Segment Length (Miles)
Erosion_RoadTrail	Transportation	Road	8	0.9
Erosion_RoadTrail	Transportation	Road_A	2	1.1
Erosion_RoadTrail	Transportation	Road_C	16	2.6
Erosion_RoadTrail	Transportation	Road_D	5	0.7
Erosion_RoadTrail	Water	Connector	10	4.7
FEMA_FloodZone	Energy	Pipeline_NaturalGas	1	17.5
FEMA_FloodZone	Natural	StreamRiver_Ephemeral	2	2.5
FEMA_FloodZone	Transportation	Road	12	1.5
FEMA_FloodZone	Transportation	Road_A	1	0.3
FEMA_FloodZone	Transportation	Road_C	12	1.2
FEMA_FloodZone	Water	Connector	1	0.2
Flood_SoilsPurdue	Energy	ElectricPowerTransmissionLine	1	14.0
Flood_SoilsPurdue	Energy	Pipeline_NaturalGas	1	17.5
Flood_SoilsPurdue	Energy	Pipeline_Petro	1	58.9
Flood_SoilsPurdue	Natural	StreamRiver_Ephemeral	5	3.3
Flood_SoilsPurdue	Natural	StreamRiver_Intermittent	1	0.7
Flood_SoilsPurdue	Transportation	Road	3	0.4
Flood_SoilsPurdue	Transportation	Road_A	2	1.1
Flood_SoilsPurdue	Transportation	Road_C	15	2.2
Flood_SoilsPurdue	Transportation	Road_D	5	0.7

5.3.4.4 STOCKTON CITY | RISK ASSESMENT RESULTS | LINE DATA

Stockton City - Risk Assessment - Critical Infrastructure Line Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum Segment Length (Miles)
Flood_SoilsPurdue	Water	Canal_ArtificialPath	1	0.2
Flood_SoilsPurdue	Water	Connector	8	3.4
Flood_Wetland_Riparian	Energy	ElectricPowerTransmissionLine	1	14.0
Flood_Wetland_Riparian	Energy	Pipeline_NaturalGas	1	17.5
Flood_Wetland_Riparian	Energy	Pipeline_Petro	1	58.9
Flood_Wetland_Riparian	Natural	StreamRiver_Ephemeral	8	6.6
Flood_Wetland_Riparian	Natural	StreamRiver_Intermittent	1	0.7
Flood_Wetland_Riparian	Transportation	Road	4	0.4
Flood_Wetland_Riparian	Transportation	Road_A	3	0.8
Flood_Wetland_Riparian	Transportation	Road_C	18	2.2
Flood_Wetland_Riparian	Transportation	Road_D	3	0.7
Flood_Wetland_Riparian	Water	Canal_ArtificialPath	1	0.2
Flood_Wetland_Riparian	Water	Connector	12	5.3
Liquefaction	Energy	Pipeline_Petro	1	58.9
Liquefaction	Transportation	Road_D	2	0.5
Liquefaction	Water	Canal_ArtificialPath	1	0.2
Liquefaction	Water	Connector	1	0.5
RMRS_WildFireHP_2020	Energy	ElectricPowerTransmissionLine	1	14.0
RMRS_WildFireHP_2020	Energy	Pipeline_NaturalGas	1	17.5
RMRS_WildFireHP_2020	Energy	Pipeline_Petro	1	58.9

5.3.4.4 STOCKTON CITY | RISK ASSESMENT RESULTS | LINE DATA

Stockton City - Risk Assessment - Critical Infrastructure Line Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum Segment Length (Miles)
RMRS_WildFireHP_2020	Natural	StreamRiver_Ephemeral	8	6.6
RMRS_WildFireHP_2020	Natural	StreamRiver_Intermittent	1	0.7
RMRS_WildFireHP_2020	Transportation	Road	31	3.4
RMRS_WildFireHP_2020	Transportation	Road_A	9	2.3
RMRS_WildFireHP_2020	Transportation	Road_C	88	7.6
RMRS_WildFireHP_2020	Transportation	Road_D	9	1.1
RMRS_WildFireHP_2020	Water	Canal_ArtificialPath	1	0.2
RMRS_WildFireHP_2020	Water	Connector	12	5.3
SteepSlope	Energy	ElectricPowerTransmissionLine	1	14.0
SteepSlope	Energy	Pipeline_Petro	1	58.9
SteepSlope	Water	Connector	3	1.7

5.3.4.5 STOCKTON CITY | RISK ASSESMENT RESULTS | AREA DATA

Stockton City - Risk Assessment - Critical Infrastructure Areas Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum of Areas (Acres)
AlluvialFan	Agricultural	Agriculture_Parcel	1	13.7
AlluvialFan	Agricultural	AgricultureWRLA_DryCrop	2	72.9
AlluvialFan	Agricultural	GrazingAllotment	1	28,630.8
AlluvialFan	Natural	Wetland	1	41.2
AlluvialFan	Water	RetailCulinaryWaterServiceArea	1	1,514.5
DebrisFlow	Water	RetailCulinaryWaterServiceArea	1	1,514.5
DwellingsWithBasements	Agricultural	Agriculture_Parcel	8	133.2
DwellingsWithBasements	Agricultural	AgricultureWRLA_DryCrop	14	230.0
DwellingsWithBasements	Agricultural	AgricultureWRLA_Food	2	1.7
DwellingsWithBasements	Agricultural	AgricultureWRLU_Sprinkler	5	18.2
DwellingsWithBasements	Agricultural	GrazingAllotment	3	64,201.3
DwellingsWithBasements	Natural	LakePond_Intermittent	1	980.1
DwellingsWithBasements	Natural	Riparian	1	535.7
DwellingsWithBasements	Natural	Wetland	4	2,040.1
DwellingsWithBasements	Water	RetailCulinaryWaterServiceArea	1	1,514.5
Erosion_RoadTrail	Agricultural	Agriculture_Parcel	8	133.2
Erosion_RoadTrail	Agricultural	AgricultureWRLA_DryCrop	14	230.0
Erosion_RoadTrail	Agricultural	AgricultureWRLA_Food	2	1.7
Erosion_RoadTrail	Agricultural	AgricultureWRLU_Sprinkler	5	18.2
Erosion_RoadTrail	Agricultural	GrazingAllotment	3	64,201.3

5.3.4.5 STOCKTON CITY | RISK ASSESMENT RESULTS | AREA DATA

Stockton City - Risk Assessment - Critical Infrastructure Areas Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum of Areas (Acres)
Erosion_RoadTrail	Natural	Wetland	4	2,040.1
Erosion_RoadTrail	Water	RetailCulinaryWaterServiceArea	1	1,514.5
FEMA_FloodZone	Agricultural	Agriculture_Parcel	2	9.7
FEMA_FloodZone	Agricultural	AgricultureWRLA_DryCrop	3	7.0
FEMA_FloodZone	Agricultural	AgricultureWRLA_Food	1	0.5
FEMA_FloodZone	Agricultural	AgricultureWRLU_Sprinkler	2	6.1
FEMA_FloodZone	Agricultural	GrazingAllotment	1	17,307.2
FEMA_FloodZone	Natural	Wetland	1	41.2
FEMA_FloodZone	Water	RetailCulinaryWaterServiceArea	1	1,514.5
Flood_SoilsPurdue	Agricultural	Agriculture_Parcel	8	133.2
Flood_SoilsPurdue	Agricultural	AgricultureWRLA_DryCrop	14	230.0
Flood_SoilsPurdue	Agricultural	AgricultureWRLA_Food	2	1.7
Flood_SoilsPurdue	Agricultural	AgricultureWRLU_Sprinkler	5	18.2
Flood_SoilsPurdue	Agricultural	GrazingAllotment	2	45,938.0
Flood_SoilsPurdue	Natural	LakePond_Intermittent	1	980.1
Flood_SoilsPurdue	Natural	Riparian	1	535.7
Flood_SoilsPurdue	Natural	Wetland	4	2,040.1
Flood_SoilsPurdue	Water	RetailCulinaryWaterServiceArea	1	1,514.5
Flood_Wetland_Riparian	Agricultural	Agriculture_Parcel	4	114.5
Flood_Wetland_Riparian	Agricultural	AgricultureWRLA_DryCrop	9	216.4

5.3.4.5 STOCKTON CITY | RISK ASSESMENT RESULTS | AREA DATA

Stockton City - Risk Assessment - Critical Infrastructure Areas Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum of Areas (Acres)
Flood_Wetland_Riparian	Agricultural	AgricultureWRLU_Sprinkler	1	5.9
Flood_Wetland_Riparian	Agricultural	GrazingAllotment	3	64,201.3
Flood_Wetland_Riparian	Natural	LakePond_Intermittent	1	980.1
Flood_Wetland_Riparian	Natural	Riparian	1	535.7
Flood_Wetland_Riparian	Natural	Wetland	4	2,040.1
Flood_Wetland_Riparian	Water	RetailCulinaryWaterServiceArea	1	1,514.5
Liquefaction	Agricultural	AgricultureWRLA_DryCrop	1	8.3
Liquefaction	Agricultural	GrazingAllotment	1	17,307.2
Liquefaction	Natural	LakePond_Intermittent	1	980.1
Liquefaction	Natural	Riparian	1	535.7
Liquefaction	Natural	Wetland	2	1,979.3
Liquefaction	Water	RetailCulinaryWaterServiceArea	1	1,514.5
RMRS_WildFireHP_2020	Agricultural	Agriculture_Parcel	8	133.2
RMRS_WildFireHP_2020	Agricultural	AgricultureWRLA_DryCrop	14	230.0
RMRS_WildFireHP_2020	Agricultural	AgricultureWRLA_Food	2	1.7
RMRS_WildFireHP_2020	Agricultural	AgricultureWRLU_Sprinkler	5	18.2
RMRS_WildFireHP_2020	Agricultural	GrazingAllotment	3	64,201.3
RMRS_WildFireHP_2020	Natural	LakePond_Intermittent	1	980.1
RMRS_WildFireHP_2020	Natural	Riparian	1	535.7
RMRS_WildFireHP_2020	Natural	Wetland	4	2,040.1

5.3.4.5 STOCKTON CITY | RISK ASSESMENT RESULTS | AREA DATA

Stockton City - Risk Assessment - Critical Infrastructure Areas Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum of Areas (Acres)
RMRS_WildFireHP_2020	Water	RetailCulinaryWaterServiceArea	1	1,514.5
SteepSlope	Agricultural	AgricultureWRLA_DryCrop	1	63.4
SteepSlope	Agricultural	GrazingAllotment	1	28,630.8
SteepSlope	Natural	Wetland	1	41.2
SteepSlope	Water	RetailCulinaryWaterServiceArea	1	1,514.5

5.3.5 STOCKTON CITY - MITIGATION STRATAGIES

STOCKTON MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
DROUGHT - CURRENT RESIDENTS/PROPERTY	Expand and Improve Existing Potable Water Systems	Pot. Funding Sources	Other
		Priority	Medium
		Responsible Entity	City
		Estimated Cost	$500 K - $1 Mil
		Timeframe	2023
DROUGHT - CURRENT RESIDENTS/PROPERTY	Improve Public Water Infrastructure and Management with Water Provider	Pot. Funding Sources	Other
		Priority	High
		Responsible Entity	City
		Estimated Cost	$250 K - $500 K
		Timeframe	2023
DROUGHT - CURRENT RESIDENTS/PROPERTY	Update and adopt drought ordinances	Priority	Medium
		Pot. Funding Sources	Local
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
DROUGHT - FUTURE RESIDENTS/PROPERTY	Expand and Improve Existing Potable Water Systems	Pot. Funding Sources	Other
		Priority	High
		Responsible Entity	City
		Estimated Cost	$500 K - $1 Mil
		Timeframe	2023
DROUGHT - FUTURE RESIDENTS/PROPERTY	Update and adopt drought ordinances	Priority	Medium
		Pot. Funding Sources	Local
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2023
		Priority	Medium
		Pot. Funding Sources	Local

STOCKTON MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Conduct Building Safety Inspections	Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2021
FLOOD - CURRENT RESIDENTS/PROPERTY	Review and/or Develop Codes Ordinances and Policies	Pot. Funding Sources	Other
		Priority	High
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022

5.4 TOOELE CITY

5.4.2 Tooele City - Future Development Risk

5.4.3 Tooele City - Hazards

1. Alluvial Fans
2. Avalanche Terrain
3. Debris Flow
4. Earthquake
5. Engineering Problem Soils
6. Erosion
7. Flood
8. Landslide
9. Steep Slope
10. Wildfire
11. Wildlife / Auto

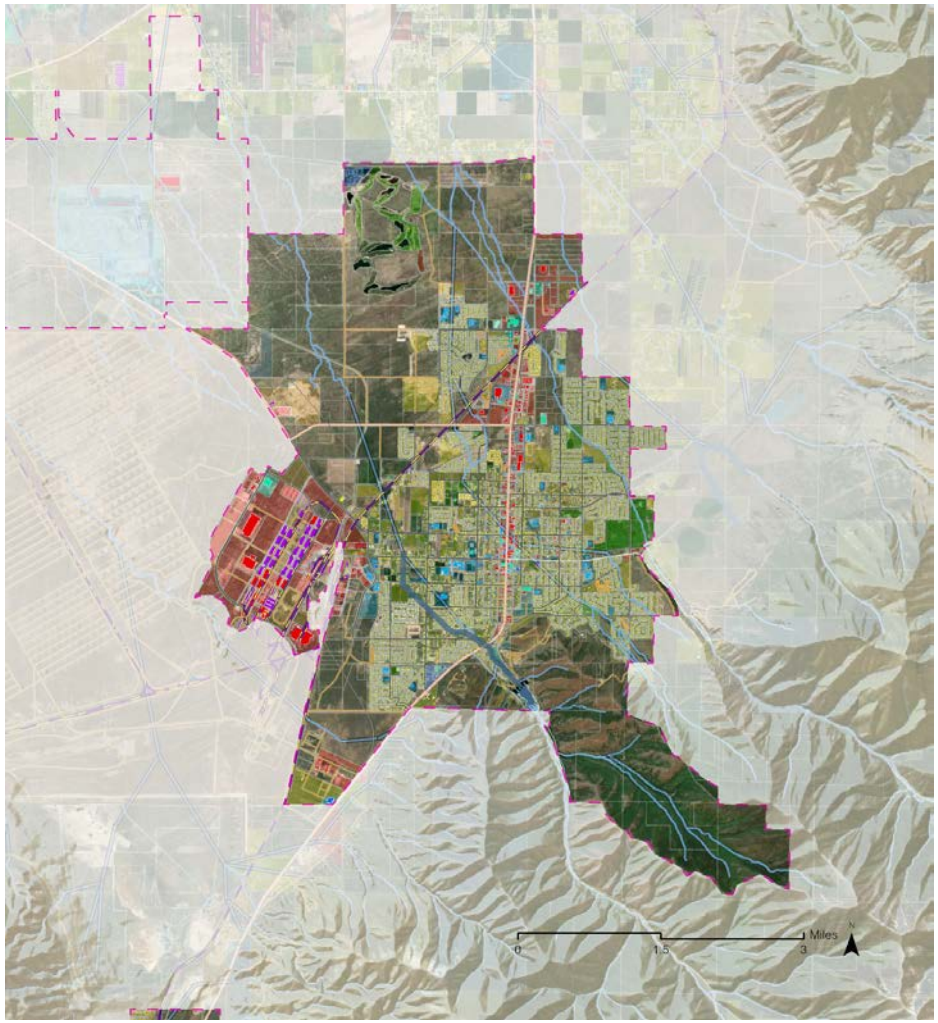
5.4.4 Tooele City - Risk Assessment Results

1. Building Footprints - Structures
2. Point Data - Features
3. Parcel Data
4. Line Data
5. Area Data

5.4.5 Tooele City - Mitigation Stratagies

Risk Summary

- Alluvial Fans
- Avalanche Terrain
- Debris Flow
- Earthquake



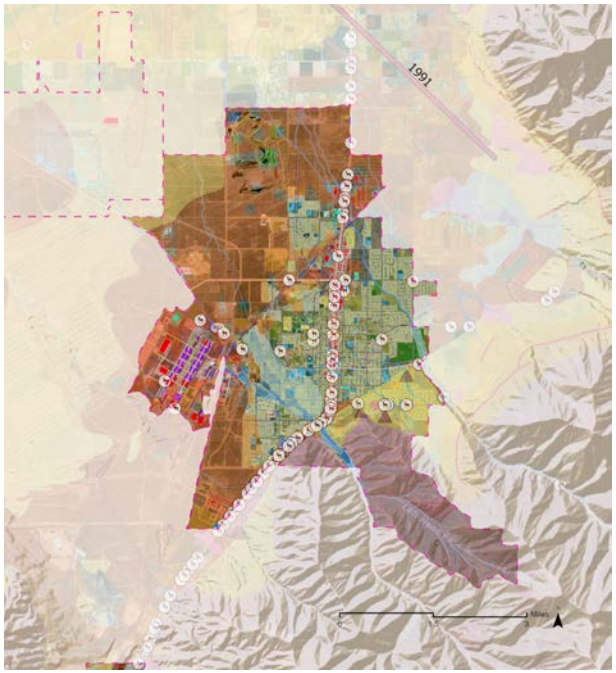
Aerial map of Tooele City.

5.4.2 TOOELE CITY - FUTURE DEVELOPMENT RISK

- Engineering Problem Soils
- Erosion
- Flood
- Landslide
- Steep Slope
- Wildfire
- Wildlife / Auto

Future Development Risk

New development is expected in four areas of Tooele City. Those are: the areas north of State Road 112 (1000 N.), near 400 West continuing 3300 north are anticipated to increase exponentially over the next several years. The areas of north of 1280 north and east of State Road 36 are anticipated to see significant commercial and residential growth. The southwest section of Tooele City to include the areas of South of Vine Street and West of 1000 West. The last area of anticipated growth is the Southwest Bench which is experiencing a large amount of residential growth which sits in high hazard areas for natural disasters. Potential natural hazards which could put residents and property/infrastructure at risk include dam inundation areas and wildfire.



HazType / Acres

Alluvial Fan	58
AvalancheTerrain	619
Debris Flow	2,227
Engineering Problem Soils	4,126
Erosion	3,584
FEMA_Flood Zone	234
Flood_Dam Inundation	9,261
Flood_SoilsPurdue	642
Flood_USU Valley Bottom	49
Flood_Wetland/Riparian	120
Landslide	83
Steep Slope	1,745
Wildfire Hazard Potential	8,384
Wildlife Auto	597

Tooele City - Risk Summary

Hazard Type	*Probability of Occurence*	*Population Impact*	*Property Impact*	*Econmic Impact*	*Future Development Impact*	*Overall Risk*
Alluvial Fans	Low	Low	Moderate	Moderate	High	Moderate
Avalanche Terrain	HIGH	LOW	LOW	LOW	LOW	LOW
Debris Flow	Moderate	LOW	High	Moderate	LOW	LOW
Earthquake	LOW	HIGH	HGH	HIGH	LOW	MODERATE
Engineering Problem Soils	HIGH	LOW	MODERATE	MODEATE	HIGH	LOW
Erosion	HIGH	LOW	HIGH	HIGH	MODEATE	MODERATE
Flood	HIGH	MODERATE	HIGH	HIGH	MODERATE	HIGH
Landslide	LOW	LOW	HIGH	MODERATE	LOW	LOW
Steep Slope	HIGH	LOW	LOW	LOW	LOW	LOW
Wildfire	HIGH	HIGH	HIGH	HIGH	MODERATE	High
Wildlife / Auto	HIGH	LOW	MODERATE	LOW	LOW	LOW

5.4.3 TOOELE CITY - HAZARDS

Alluvial Fans 58 AC

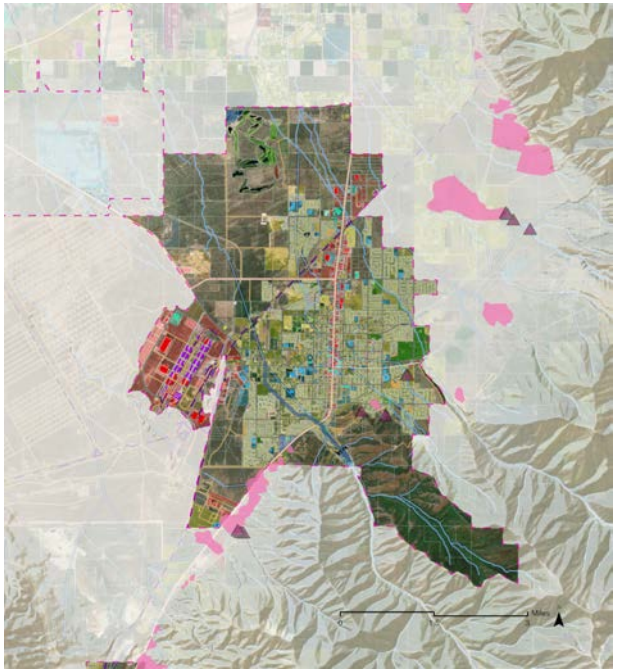
A few smaller alluvial fans exist in Tooele City, but none will likely impact development too substantially, with the exception of one on Skyline Drive and about Fifth Street. There are also several south of town east of Main Street where homes don't yet exist. Homes built in this area in the future could be at high risk. Potential losses include 1 school, 36 homes, 2 miles of roads, and 52 miles of power lines.

Avalanche Terrain 619 AC

While no homes currently exist on the steeper slopes east of town, there are some steep, high elevation areas that could be prone to avalanches if the circumstances were right. Potential losses consist mostly of 10 wells, several miles of roads, fairly extensive power lines, agricultural and natural areas, source water protection zones. However, this dataset is not indicative of actual risk; rather it consists of data which could be conducive to avalanches.

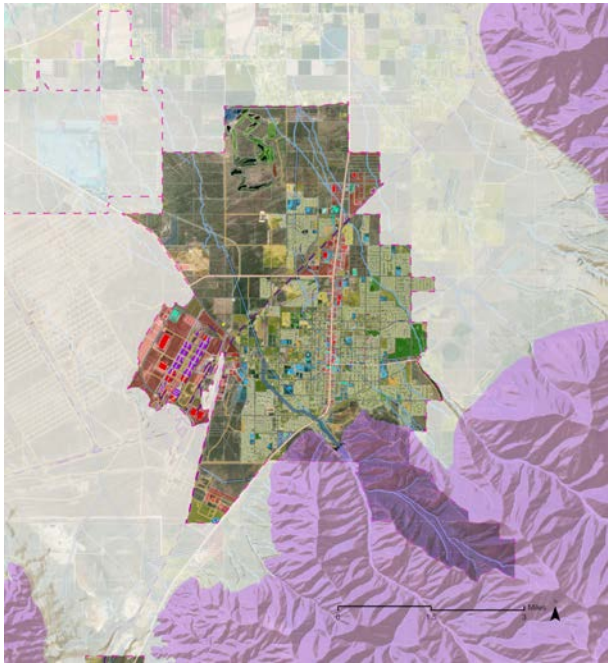
Debris Flow 2,227 AC

Many homes east of Main Street and south of Skyline Drive could be at risk to debris flows in the future, particularly if wildlfires burn in the mountains and high precipitation events follow. Structures, roads, and other amenities could be substantially damaged if they are located at the bottom of key drainages. Potential losses include 5 community centers, 1 government facility, 8 homes, 115 miles of transmission lines, 5 miles of roads, and many acres of agricultural lands.



Alluvial Fans

Avalanche Terrain

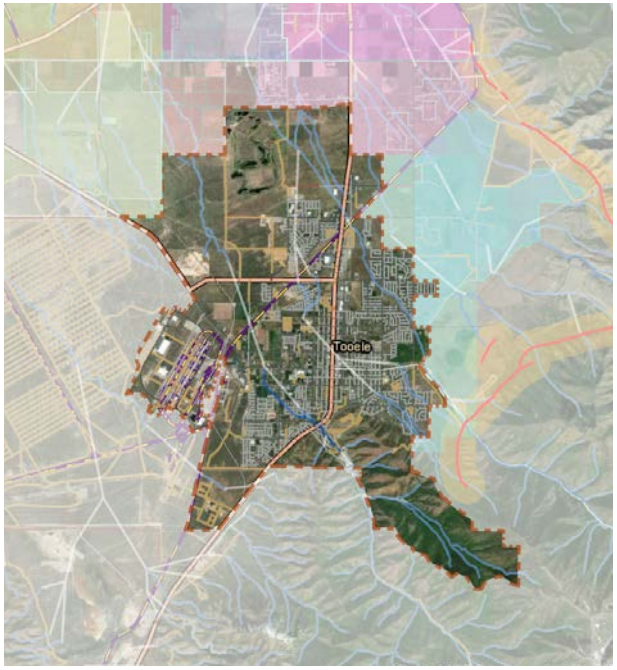


Debris Flow Risk

5.4.3 TOOELE CITY - HAZARDS

Earthquake 0 ac

While there are no quaternary geological faults techincally in Tooele City, Tooele residents and unincorporated areas around the city will still feel the impacts of an earthquake, especially if the epicenter is located east of town. The faults almost touch the muncipial boundary on the south end of town.

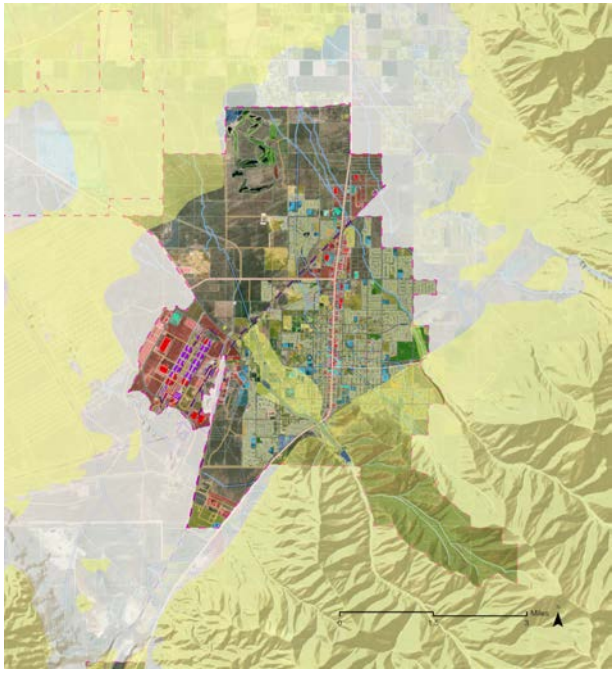


Quaternary Faults

1,500' buffer on Quaternary Faults

Engineering Problem Soils 4,126 ac

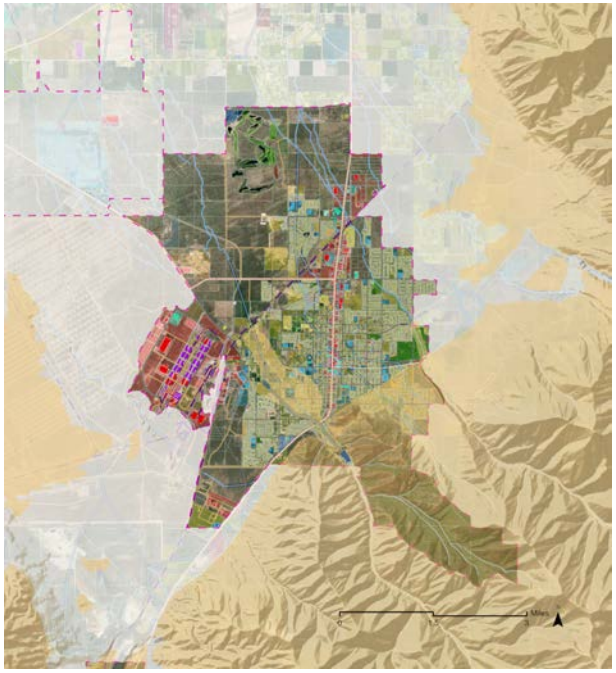
These are located southeast of town and mostly affect the mountains and benches above Main Street and north and south of Sunset Ave, all the way west to the railroad tracks. While not an immediate threat, these soils can cause problems for structures which were not constructed according to modern local building codes. Potential losses include 3 businesses, 18 schools, 7 churches, over 1,800 homes, many miles of roads and power lines, and many acres of agricultural land.



Problem Soils

Erosion 3,584 ac

These are located southeast of town and mostly affect the mountains and benches above Main Street and north and south of Sunset Ave, all the way west to the railroad tracks. While not an immediate threat, these soils can cause problems for structures which were not constructed according to modern local building codes. Potential losses include 3 businesses, 18 schools, 7 churches, over 1,800 homes, 145 miles of transmission lines, around 35 miles of roads, and many miles of agricultural and natural lands.

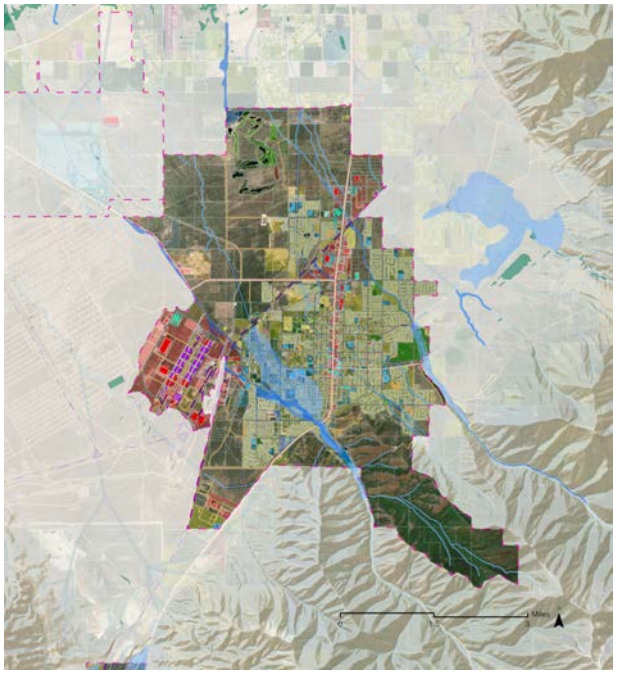


Erosive Soils (Roads and Trails)

5.4.3 TOOELE CITY - HAZARDS

Flood_SoilsPurdue 642 ac
Flood_USU Valley Bottom 49 ac
Flood_Wetland/Riparian 120 ac

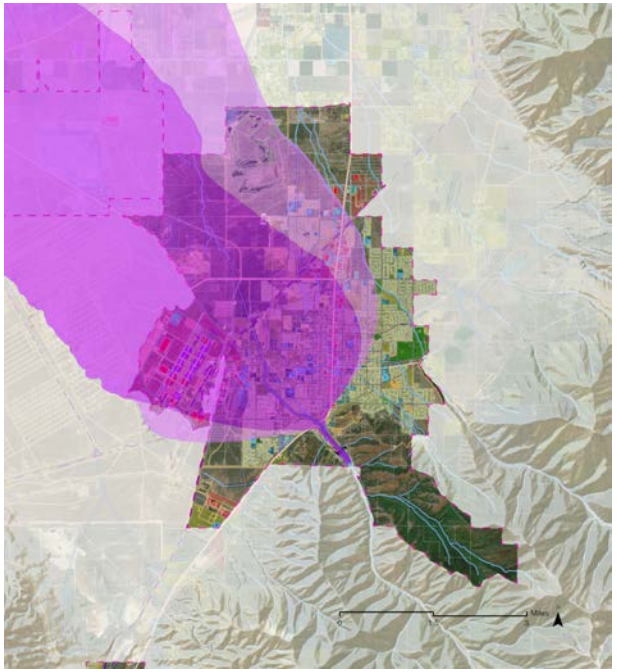
These layers show a much more representative geographic area of potential flood risk along both Settlement and Middle Canyons. These areas, particularly Settlement Canyon, could pose a significant risk to residents from flood events. Potential losses include well over 1,000 homes, 17 schools, 6 churches, many miles of roads and transmission lines, and many acres of agricultural lands.



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

Flood_Dam Inundation 9,261 ac

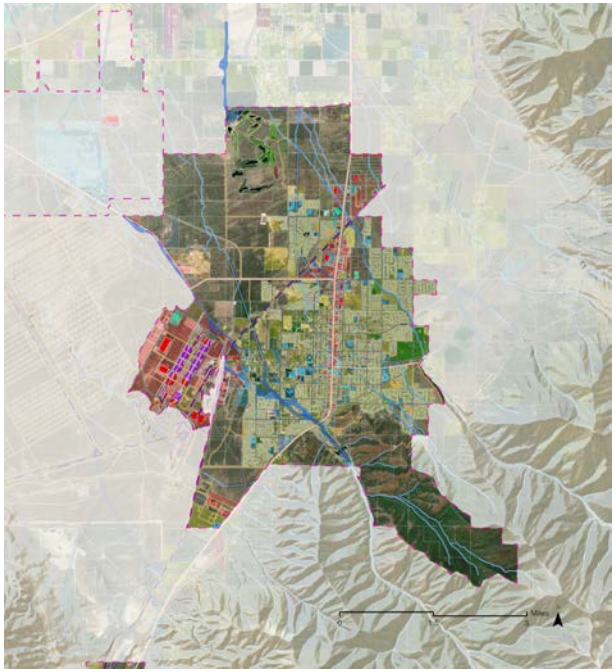
A very large portion of Tooele City could be at risk if Settlement Reservoir Dam is compromised while full. The topography of the city below the dam is fairly flat, so, while this flooding may not be substantially deep further away from the canyon, flooding could cover a very large area. Potential losses include 423 businesses, 6 grocery stores, 34 schools, 1 library, 29 churches, 2 firestations, 25 medical facilities, over 6,000 homes, over 140 miles of roads, and many acres of local farmland.



Dam Innundation Risk

FEMA_Flood Zone 234 ac

Settlement Canyone and Middle Canyon drainages are shown as FEMA floodplain. However, this may not be representative of all flood risk. If these canyons receive high snow runoff or if there are extreme rain events, coupled with high water tables, these areas could flood beyond the “floodplain.” Potential losses include 2 businesses, around 220 homes, 1 school, and around 38 miles of roads.



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

5.4.3 TOOELE CITY - HAZARDS

Steep Slope 1,745 AC

Steep slopes exist east of town in the mountains north and south of Settlement Canyon, as well as Milddle Canyon. Direct risks from steep slopes is minimal, but down hill impacts could be significant in the form of debris flows or landslides given the right conditions. Potential losses include 1 home, 10 wells, 145 miles of transmission lines, 32 miles of natural gas lines, and over 2 miles of local roads.

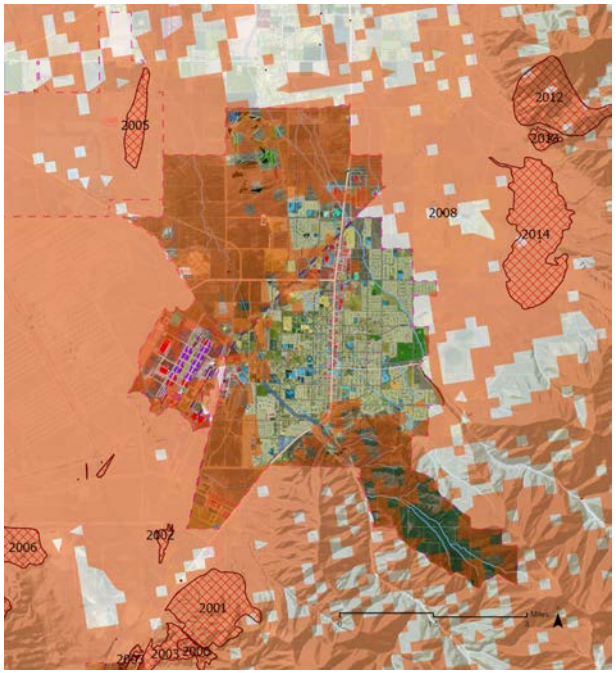
Wildfire Hazard Potential 8,384 AC

Tooele City is flanked on all sides by wildfire hazard areas, mostly in the form of vegetated mountains, benches, and non-irrigated fields. As development creeps higher up the hillsides, more homes could be at risk from future fires. As such, the city should be cognisent of those risks and plan accordingly. Potential losses include 118 businesses, 1 grocery store, 2 schools, 5 churches, 4 emergency services facilities, 147 miles of power lines, and around 33,000 acres of grazing lands.

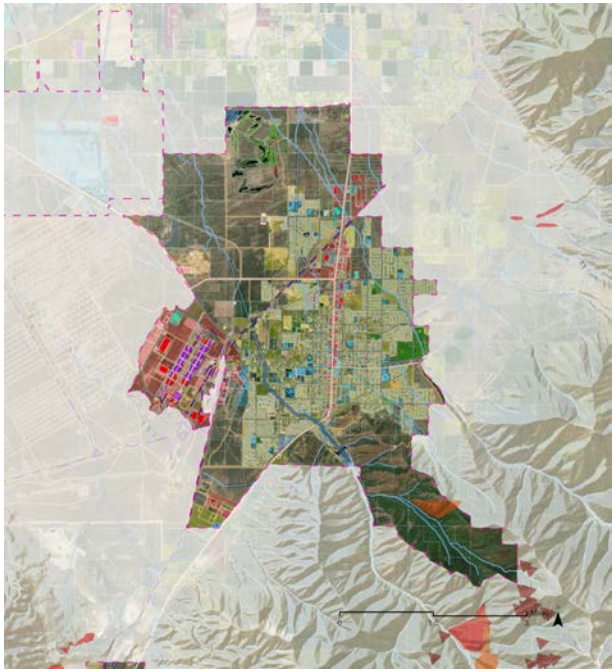
Landslide 83 AC

The only mapped landslide risks for Tooele City is located on the north side of Settlement Canyon, east towards the mountains. No significant damage is expected, but the city should be aware that all steep slopes have the potential to slide given the right conditions. Only around 4.5 miles of local trails are at risk, currently.

Steep Slopes >30%



Wildfire Hazard

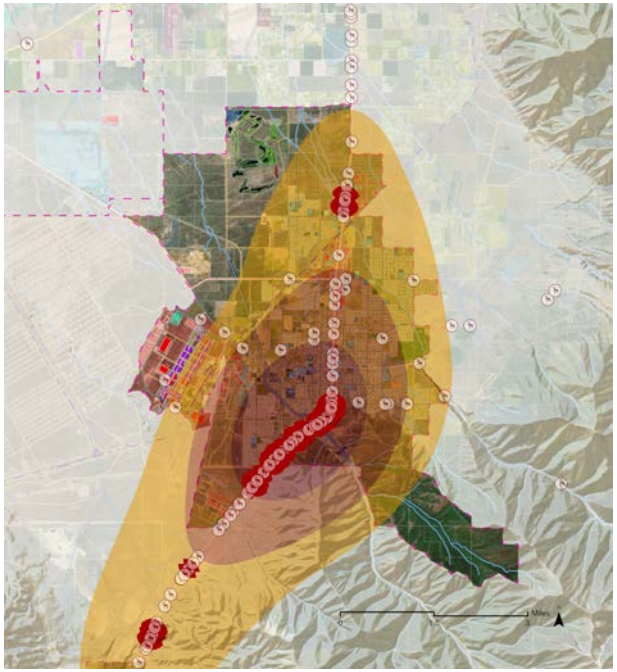


Landslide Hazard

5.4.3 TOOELE CITY - HAZARDS

WILDLIFE AUTO 597 AC

Significant wildlife auto risks exist in the city along Highway 36 between 2000 N and 2400 N, as well as Main Street from about 400 S to Commander Ave south of town. Many accidents have occured historically in these areas, and, as development continues to expand into more Mule Deer habitat, these accidents will likely increase unless the city can mitigate these habitat impacts. Potential losses consist mostly of potential future injuries or deaths from wildlife/auto impacts in areas shown below.



Wildlife-Auto Conflict Risk Area

5.4.4.1 TOOELE CITY - RISK ASSESMENT RESULTS - STRUCTURES

Tooele City - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Alluvial Fan	Community Resource	Ed_PreK	1
	Residential	Detached Single Family Residential	33
	Residential	Manufactured	2
	Residential	MixedUse	1

Tooele City - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Structures
Debris Flow	Community Resource	Community Center	5
	Government Facility	LocalGov	1
	Residential	Detached Single Family Residential	8

Tooele City - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Structures
Engineering Problem Soils	Commercial	Commercial	3
	Community Resource	Community Center	6
	Community Resource	Ed_Kto12	17
	Community Resource	Ed_PreK	1
	Community Resource	PlaceofWorship	7
	Other	Out	2
	Residential	Apartment	1
	Residential	Condominium	34
	Residential	Detached Single Family Residential	1717
	Residential	Duplex	10
	Residential	Fourplex_Triplex	15
	Residential	Manufactured	33
	Residential	Res_MobileHome	11

Tooele City - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Erosion	Commercial	Commercial	3
	Community Resource	Community Center	6
	Community Resource	Ed_Kto12	17
	Community Resource	Ed_PreK	1
	Community Resource	PlaceofWorship	7
	Other	Out	2
	Residential	Apartment	1
	Residential	Condominium	34
	Residential	Detached Single Family Residential	1717
	Residential	Duplex	10
	Residential	Fourplex_Triplex	15
	Residential	Manufactured	33
	Residential	Res_MobileHome	11

Tooele City - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Facilities
FEMA_100 Year Flood Zone	Commercial	Commercial	2
	Community Resource	Community Center	1
	Community Resource	Ed_PostHi	1
	Industrical	Industrial	2
	Residential	Condominium	7
	Residential	Detached Single Family Residential	156
	Residential	Duplex	1
	Residential	Fourplex_Triplex	2
	Residential	Manufactured	37
	Residential	Res_MobileHome	26
	Transportation Facility	Parking	3

5.4.4.1 TOOELE CITY - RISK ASSESMENT RESULTS - STRUCTURES

Tooele City - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Flood_Soils Purdue	Commercial	Commercial	2
	Community Resource	Ed_Kto12	17
	Community Resource	PlaceofWorship	6
	Residential	Apartment	1
	Residential	Detached Single Family Residential	966
	Residential	Duplex	9
	Residential	Fourplex_Triplex	15
	Residential	Manufactured	33
	Residential	Res_MobileHome	11
Flood_USU Valley Bottom	Community Resource	PlaceofWorship	1
	Residential	Detached Single Family Residential	17
Flood_Wetland/Riparian	Commercial	Commercial	2
	Community Resource	Community Center	1
	Residential	Apartment	1
	Residential	Detached Single Family Residential	22
	Residential	Duplex	2
	Residential	Manufactured	1
	Residential	Res_TwinHome	2

Tooele City - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Facilities
SteepSlope	Residential	Detached Single Family Residential	1

Tooele City - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Dam Inundation	Commercial	Commercial	423
	Commercial	Grocery_Store	6
	Community Resource	Community Center	15
	Community Resource	Ed_Kto12	29
	Community Resource	Ed_PostHi	5
	Community Resource	Library	1
	Community Resource	PlaceofWorship	29
	Emergency Facility	FireStation	2
	Emergency Facility	MedicalFacility	25
	Emergency Facility	MedicalFacility/Ed_PreK	1
	Emergency Facility	Police	3
	Emergency Facility	Police_MedicalFacility	1
	Government Facility	LocalGov	20
	Government Facility	LocalGov_Commercial	1
	Government Facility	LocalGov_Police	1
	Government Facility	Post_Office	3
	Government Facility	Well	1
	Industrical	Industrial	115
	Other	Out	5
	Recreation Facility	HistoricSite	2
	Residential	Apartment	60
	Residential	Commercial_Residential	18
	Residential	Condominium	112
	Residential	Detached Single Family Residential	5514
	Residential	Duplex	82
	Residential	Fourplex_Triplex	59
	Residential	HistoricSite_Apartment	1
	Residential	Manufactured	185
	Residential	MixedUse	2
	Residential	Res_LowIncome	63
	Residential	Res_MobileHome	634
	Residential	Res_Modular	1
	Residential	Res_TwinHome	76
	Transportation Facility	Parking	10

5.4.4.1 TOOELE CITY - RISK ASSESMENT RESULTS - STRUCTURES

Tooele City - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Wildfire Hazard Potential	Commercial	Commercial	118
	Commercial	Grocery_Store	1
	Community Resource	Community Center	8
	Community Resource	Ed_Kto12	2
	Community Resource	PlaceofWorship	5
	Emergency Facility	FireStation	1
	Emergency Facility	MedicalFacility	2
	Emergency Facility	MedicalFacility/Ed_PreK	1
	Government Facility	Correctional_Facility	3
	Government Facility	LocalGov	7
	Government Facility	Military	9
	Government Facility	Well	1
	Industrical	Industrial	68
	Other	Out	5
	Residential	Apartment	18
	Residential	Condominium	16
	Residential	Detached Single Family Residential	1087
	Residential	Duplex	5
	Residential	Fourplex_Triplex	1
	Residential	Manufactured	28
	Residential	MixedUse	8
	Residential	Res_LowIncome	26
	Residential	Res_MobileHome	185
	Residential	Res_Modular	1
	Transportation Facility	Parking	4

5.4.4.2 TOOELE CITY - RISK ASSESMENT RESULTS - CRITICAL IFACILITIES

Tooele City - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Alluvial Fan	Community	Ed_PreK	1

Tooele City - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
AvalanchTerrain	Water	Well_Log	10

Tooele City - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Debris Flow	Natural	SpringSeep	3
	Recreation	CommunityCenter	1
	Water	Well_Log	14

Tooele City - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Engineering Problem Soils	Community	Cemetery	1
	Community	ED_K12	2
	Community	Ed_PreK	1
	Community	PlaceofWorship	3
	Emergency		1
	Energy	SubstationRegulator	1
	Natural	SpringSeep	3
	Other	Tower_	3
	Other	Tower_MicrowaveService	4
	Recreation	CommunityCenter	1
	Recreation	Park	1
	Transportation	BusStopsWasatchFront	6
	Water	Dam	2
	Water	Well_Log	199

Tooele City - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Erosion	Community	Cemetery	1
	Community	ED_K12	2
	Community	Ed_PreK	1
	Community	PlaceofWorship	3
	Emergency	National Shelter System Facility	1
	Energy	SubstationRegulator	1
	Natural	SpringSeep	3
	Other	Tower_Land Mobile Private Transmission	3
	Other	Tower_Microwave Service	4
	Recreation	CommunityCenter	1
	Recreation	Park	1
	Transportation	BusStopsWasatchFront	6
	Water	Dam	2
	Water	Well_Log	193

Tooele City - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
FEMA_100 Year Flood Zone	Community	Ed_PostHigh	1
	Transportation	Bus Stops Wasatch Front	3
	Water	Well_Log	44

5.4.4.2 TOOELE CITY - RISK ASSESMENT RESULTS - CRITICAL IFACILITIES

Tooele City - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Flood_Soils Purdue	Community	ED_K12	2
	Community	PlaceofWorship	2
	Emergency	NationalShelterSystemFacility	1
	Natural	SpringSeep	1
	Other	Tower_	2
	Transportation	BusStopsWasatchFront	6
	Water	Dam	1
	Water	Well_Log	91
Flood_USU Valley Bottom	Water	Well_Log	44
Flood_ Wetland/ Riparian	Natural	SpringSeep	2
	Transportation	Bridge_Rail	1
	Transportation	BusStopsWasatchFront	1
	Water	Dam	1
	Water	Well_Log	1

Tooele City - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
SteepSlope	Water	Well_Log	10

Tooele City - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Dam Inundation	Community	ED_K12	10
	Community	Ed_PostHigh	6
	Community	Ed_PreK	1
	Community	GroceryStore	9
	Community	Library	1
	Community	PlaceofWorship	23
	Emergency	EmergencyMedicalServices	1
	Emergency	FireStation	2
	Emergency	HealthCareFacility	54
	Emergency	LawEnforcement	3
	Emergency	NationalShelterSystemFacility	8
	Emergency	PublicSafetyAnsweringPoint	1
	Energy	FuelStation_AlternativeEnergy	1
	Energy	FuelStation_Gas	9
	Energy	PetroleumTerminal	1
	Energy	SubstationRegulator	1
	Government	LocalGovFacility	11
	Government	PostOffice	1
	Other	Tower_AntennaStructureRegistrate	2
	Other	Tower_FMTransmission	1
	Other	Tower_Land Mobile Private Transmission	29
	Other	Tower_MicrowaveService	13
	Other	WaistewaterFacility	2
	Recreation	Campground	1
	Recreation	CommunityCenter	4
	Recreation	GolfCourse	1
	Recreation	HistoricSites	13
	Recreation	Museum	1
	Recreation	Park	10
	Transportation	Bridge_Rail	1
	Transportation	Bridge_Road	2
	Transportation	BusStopsWasatchFront	52
	Water	Dam	1
	Water	Well_Log	327
	Water	Well_NHD	2
	Water	Well_UndergroudInjectionControl	3

5.4.4.2 TOOELE CITY - RISK ASSESMENT RESULTS - CRITICAL IFACILITIES

Tooele City - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Wildfire Hazard Potential	Community	ED_K12	2
	Community	Ed_PostHigh	1
	Community	GroceryStore	1
	Community	PlaceofWorship	3
	Emergency	FireStation	1
	Emergency	HealthCareFacility	10
	Emergency	LawEnforcement	1
	Energy	FuelStation_Gas	1
	Energy	SubstationRegulator	1
	Government	CorrectionalFacility	1
	Natural	SpringSeep	2
	Other	Tower_Land Mobile Private Transmission	4
	Other	Tower_MicrowaveService	2
	Other	WaistewaterFacility	1
	Recreation	Campground	1
	Recreation	CommunityCenter	1
	Recreation	GolfCourse	1
	Recreation	Park	2
	Transportation	Bridge_Rail	1
	Transportation	Bridge_Road	1
	Transportation	BusStopsWasatchFront	2
	Water	Dam	1
	Water	Well_Log	227
	Water	Well_NHD	2
	Water	Well_UndergroudInjectionControl	1

5.4.4.3 TOOELE CITY - RISK ASSESMENT RESULTS - PARCEL DATA

Tooele City - Parcels - Potential Loss Table					
Hazard	Category	Type	# of Parcels	# of Acres	# of Total Market Value
AlluvialFan	Residential	Detached Single Family Residential	23	6.37	$6,194,568

Tooele City - Parcels - Potential Loss Table					
Hazard	Category	Type	# of Parcels	# of Acres	# of Total Market Value
AvalanchTerrain	None	None	1	60.00	$30,000

Tooele City - Parcels - Potential Loss Table					
Hazard	Category	Type	# of Parcels	# of Acres	# of Total Market Value
DebrisFlow	None	None	38	3,143.39	$677,200
DebrisFlow	Residential	Residential	13	13.97	$2,618,480
DebrisFlow	SITLA	SITLA	1	-	$-

Tooele City - Parcels - Potential Loss Table					
Hazard	Category	Type	# of Parcels	# of Acres	# of Total Market Value
DwellingsWithBasements	Commercial	Commercial	1	2.79	$28,028
DwellingsWithBasements	Community_Resources	Ed_Kto12	11	34.37	$-
DwellingsWithBasements	Community_Resources	PlaceofWorship	3	9.62	$45,688
DwellingsWithBasements	Energy	None	1	-	$-
DwellingsWithBasements	None	None	140	4,535.62	$7,061,134
DwellingsWithBasements	Recreation	Open_Space	1	11.31	$-
DwellingsWithBasements	Residential	Res_Munfacture_Mobile_Hookups	28	7.95	$2,312,268
DwellingsWithBasements	Residential	Residential	1,604	605.16	$367,403,762
DwellingsWithBasements	Residential	Residential_MultiFamily	115	4.28	$22,342,893
DwellingsWithBasements	SITLA	SITLA	1	-	$-

5.4.4.3 TOOELE CITY - RISK ASSESMENT RESULTS - PARCEL DATA

Tooele City - Parcels - Potential Loss Table					
Hazard	Category	Type	# of Parcels	# of Acres	# of Total Market Value
Erosion_OffRoadTrail	None	None	26	2,595.83	$587,241
Erosion_OffRoadTrail	Residential	Residential	27	14.29	$6,040,056
Erosion_OffRoadTrail	SITLA	SITLA	1	-	$-
Erosion_RoadTrail	Commercial	Commercial	1	2.79	$28,028
Erosion_RoadTrail	Community_Resources	Ed_Kto12	11	34.37	$-
Erosion_RoadTrail	Community_Resources	PlaceofWorship	3	9.62	$45,688
Erosion_RoadTrail	Energy	None	1	-	$-
Erosion_RoadTrail	None	None	133	3,763.63	$3,118,486
Erosion_RoadTrail	Recreation	Open_Space	1	11.31	$-
Erosion_RoadTrail	Residential	Res_Munfacture_Mobile_ Hookups	28	7.95	$2,312,268
Erosion_RoadTrail	Residential	Residential	1,604	605.16	$367,403,762
Erosion_RoadTrail	Residential	Residential_MultiFamily	115	4.28	$22,342,893
Erosion_RoadTrail	SITLA	SITLA	1	-	$-

Tooele City - Parcels - Potential Loss Table					
Hazard	Category	Type	# of Parcels	# of Acres	# of Total Market Value
FEMA_FloodZone	Commercial	Commercial	1	0.08	$-
FEMA_FloodZone	None	None	9	159.91	$315,520
FEMA_FloodZone	Residential	Res_Munfacture_Mobile_ Hookups	23	6.48	$1,972,341
FEMA_FloodZone	Residential	Residential	116	23.64	$19,390,329
FEMA_FloodZone	Residential	Residential_MultiFamily	26	0.48	$3,282,974

5.4.4.3 TOOELE CITY - RISK ASSESMENT RESULTS - PARCEL DATA

Tooele City - Parcels - Potential Loss Table					
Hazard	Category	Type	# of Parcels	# of Acres	# of Total Market Value
Flood_SoilsPurdue	Community_Resources	Ed_Kto12	11	34.37	$-
Flood_SoilsPurdue	Community_Resources	PlaceofWorship	2	6.52	$45,688
Flood_SoilsPurdue	None	None	41	55.69	$514,080
Flood_SoilsPurdue	Residential	Res_Munfacture_Mobile_Hookups	28	7.95	$2,312,268
Flood_SoilsPurdue	Residential	Residential	773	270.72	$139,686,527
Flood_SoilsPurdue	Residential	Residential_MultiFamily	16	4.10	$3,240,014
Flood_USUValleyBottom	None	None	2	5.52	$500
Flood_USUValleyBottom	Residential	Residential	20	7.22	$4,428,076
Flood_Wetland/Riparian	None	None	2	9.09	$4,750

Tooele City - Parcels - Potential Loss Table					
Hazard	Category	Type	# of Parcels	# of Acres	# of Total Market Value
Flood_DamInundation	Commercial	Commercial	401	1,133.18	$274,485,549
Flood_DamInundation	Community_Resources	Comm_Center	2	11.43	$299,150
Flood_DamInundation	Community_Resources	Ed_Kto12	31	106.16	$7,105,549
Flood_DamInundation	Community_Resources	Ed_Kto12/Comm_Center	1	8.32	$-
Flood_DamInundation	Community_Resources	Ed_PostHigh	9	40.30	$873,397
Flood_DamInundation	Community_Resources	Grocery_Store	6	33.99	$26,355,210
Flood_DamInundation	Community_Resources	Library	1	1.90	$-
Flood_DamInundation	Community_Resources	Museum	1	0.23	$500
Flood_DamInundation	Community_Resources	PlaceofWorship	21	38.35	$1,279,422
Flood_DamInundation	EmergencyServices	Fire_Station	3	21.01	$10,044,039
Flood_DamInundation	EmergencyServices	Health_Care	33	24.83	$29,156,979
Flood_DamInundation	EmergencyServices	Health_Care/Ed_PreK	1	1.10	$1,685,118
Flood_DamInundation	EmergencyServices	Health_Care/Emergency_Med	1	0.22	$-
Flood_DamInundation	EmergencyServices	Police Department	8	2.95	$419,463
Flood_DamInundation	EmergencyServices	Police Department/Health_Care	1	2.45	$3,400,068
Flood_DamInundation	EmergencyServices	Police Department/Local_Gov_Fac	1	1.67	$-

5.4.4.3 TOOELE CITY - RISK ASSESMENT RESULTS - PARCEL DATA

Flood_DamInundation	Energy	Manufacture_Industry	1	20.64	$1,894,172
Flood_DamInundation	LocalGovernment	Emergency_Med/Local_ Gov_Fac	1	0.86	$-
Flood_DamInundation	LocalGovernment	Local_Gov_Fac	19	5.23	$219,548
Flood_DamInundation	LocalGovernment	Local_Gov_Fac/ PlaceofWorship	1	0.20	$470,089
Flood_DamInundation	LocalGovernment	Post_Office	2	0.58	$-
Flood_DamInundation	"LocalGovernment				
"	None	1	-	$-	
Flood_DamInundation	None	None	403	5,943.23	$50,577,419
Flood_DamInundation	Other	Manufacture_Industry	36	408.40	$29,027,915
Flood_DamInundation	Recreation	Open_Space	24	105.51	$194,690
Flood_DamInundation	Residential	Res_Munfacture_Mobile_ Hookups	202	160.57	$31,753,866
Flood_DamInundation	Residential	Residential	5,234	1,690.22	$914,956,843
Flood_DamInundation	Residential	Residential_Commercial	19	22.96	$5,296,639
Flood_DamInundation	Residential	Residential_MultiFamily	671	116.58	$139,422,219
Flood_DamInundation	SITLA	SITLA	1	-	$-

Tooele City - Parcels - Potential Loss Table					
Hazard	Category	Type	# of Parcels	# of Acres	# of Total Market Value
SteepSlope	None	None	3	287.80	$143,900

5.4.4.3 TOOELE CITY - RISK ASSESMENT RESULTS - PARCEL DATA

Tooele City - Parcels - Potential Loss Table					
Hazard	Category	Type	# of Parcels	# of Acres	# of Total Market Value
Wildfire	Commercial	Commercial	45	185.59	$25,903,541
Wildfire	Community_Resources	PlaceofWorship	1	3.10	$-
Wildfire	EmergencyServices	Correctional_Fac	1	0.53	$735,000
Wildfire	EmergencyServices	Health_Care	2	5.84	$5,608,140
Wildfire	EmergencyServices	Police Department/ Correctional_Fac	1	10.51	$-
Wildfire	None	None	204	4,789.33	$45,495,690
Wildfire	Other	Manufacture_Industry	8	186.48	$7,677,229
Wildfire	Residential	Res_Munfacture_Mobile_ Hookups	18	6.29	$2,746,276
Wildfire	Residential	Residential	1,099	466.53	$223,927,267
Wildfire	Residential	Residential_Commercial	2	99.90	$3,356,108
Wildfire	Residential	Residential_MultiFamily	92	7.90	$15,852,921
Wildfire	SITLA	SITLA	1	-	$-

Tooele City - Parcels - Potential Loss Table					
Hazard	Category	Type	# of Parcels	# of Acres	# of Total Market Value
WildlifeAuto	Commercial	Commercial	21	28.58	$13,184,149
WildlifeAuto	Community_Resources	Cemetery	2	9.25	$96,075
WildlifeAuto	Community_Resources	Grocery_Store	2	2.19	$2,541,719
WildlifeAuto	Community_Resources	PlaceofWorship	4	6.46	$85,000
WildlifeAuto	EmergencyServices	Fire_Station/Emergency_ Med	1	1.77	$-
WildlifeAuto	EmergencyServices	Health_Care	3	4.35	$3,340,624
WildlifeAuto	LocalGovernment	Local_Gov_Fac	5	17.21	$500
WildlifeAuto	None	None	32	20.24	$111,900
WildlifeAuto	Residential	Res_Munfacture_Mobile_ Hookups	8	31.96	$1,362,524
WildlifeAuto	Residential	Residential	411	127.12	$83,056,471
WildlifeAuto	Residential	Residential_Commercial	4	2.42	$1,059,057
WildlifeAuto	Residential	Residential_MultiFamily	2	1.47	$366,445

5.1.4.4 TOOELE CITY | RISK ASSESMENT RESULTS | LINE DATA

Tooele City - Risk Assessment - Critical Infrastructure Line Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum Segment Length (Miles)
AlluvialFan	Energy	ElectricPowerTransmissionLine	6	52.1
AlluvialFan	Transportation	Road_C	11	0.8
AlluvialFan	Water	Connector	3	1.1
AvalanchTerrain	Energy	ElectricPowerTransmissionLine	5	93.6
AvalanchTerrain	Energy	Pipeline_NaturalGas	1	17.5
AvalanchTerrain	Natural	StreamRiver_Ephemeral	6	4.0
AvalanchTerrain	Recreation	Trails	1	4.5
AvalanchTerrain	Transportation	Road	3	1.5
AvalanchTerrain	Transportation	Road_C	2	0.8
AvalanchTerrain	Transportation	Road_D	1	0.4
DebrisFlow	Energy	ElectricPowerTransmissionLine	7	114.9
DebrisFlow	Energy	Pipeline_NaturalGas	1	17.5
DebrisFlow	Natural	StreamRiver_Ephemeral	15	9.9
DebrisFlow	Recreation	Trails	1	4.5
DebrisFlow	Transportation	Road	5	1.3
DebrisFlow	Transportation	Road_B	5	1.9
DebrisFlow	Transportation	Road_C	6	1.2
DebrisFlow	Transportation	Road_D	4	0.3
DebrisFlow	Water	Canal_ArtificialPath	3	0.3
DebrisFlow	Water	Connector	7	0.8
DebrisFlow	Water	Dam	1	0.2

5.1.4.4 TOOELE CITY | RISK ASSESMENT RESULTS | LINE DATA

Tooele City - Risk Assessment - Critical Infrastructure Line Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum Segment Length (Miles)
DwellingsWithBasements	Energy	ElectricPowerTransmissionLine	10	144.9
DwellingsWithBasements	Energy	Pipeline_NaturalGas	3	38.5
DwellingsWithBasements	Energy	Pipeline_Petro	1	58.9
DwellingsWithBasements	Natural	StreamRiver_Ephemeral	25	25.9
DwellingsWithBasements	Natural	StreamRiver_Perennial	3	2.0
DwellingsWithBasements	Recreation	Trails	1	4.5
DwellingsWithBasements	Transportation	Road	37	4.5
DwellingsWithBasements	Transportation	Road_A	5	15.3
DwellingsWithBasements	Transportation	Road_B	9	2.6
DwellingsWithBasements	Transportation	Road_C	327	26.7
DwellingsWithBasements	Transportation	Road_D	24	2.6
DwellingsWithBasements	Transportation	Road_X	1	0.1
DwellingsWithBasements	Water	Canal_ArtificialPath	3	0.2
DwellingsWithBasements	Water	Connector	9	3.4
DwellingsWithBasements	Water	Dam	1	0.2
Erosion_RoadTrail	Energy	ElectricPowerTransmissionLine	10	144.9
Erosion_RoadTrail	Energy	Pipeline_NaturalGas	3	38.5
Erosion_RoadTrail	Energy	Pipeline_Petro	1	58.9
Erosion_RoadTrail	Natural	StreamRiver_Ephemeral	22	18.7
Erosion_RoadTrail	Natural	StreamRiver_Perennial	3	2.0

5.1.4.4 TOOELE CITY | RISK ASSESMENT RESULTS | LINE DATA

Tooele City - Risk Assessment - Critical Infrastructure Line Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum Segment Length (Miles)
Erosion_RoadTrail	Recreation	Trails	1	4.5
Erosion_RoadTrail	Transportation	Road	37	4.5
Erosion_RoadTrail	Transportation	Road_A	2	0.2
Erosion_RoadTrail	Transportation	Road_B	9	2.6
Erosion_RoadTrail	Transportation	Road_C	327	26.7
Erosion_RoadTrail	Transportation	Road_D	23	2.2
Erosion_RoadTrail	Transportation	Road_X	1	0.1
Erosion_RoadTrail	Water	Canal_ArtificialPath	3	0.2
Erosion_RoadTrail	Water	Connector	9	3.4
Erosion_RoadTrail	Water	Dam	1	0.2
FEMA_FloodZone	Energy	ElectricPowerTransmissionLine	8	80.3
FEMA_FloodZone	Energy	Pipeline_NaturalGas	3	38.9
FEMA_FloodZone	Energy	Pipeline_Petro	1	58.9
FEMA_FloodZone	Natural	StreamRiver_Ephemeral	14	15.1
FEMA_FloodZone	Natural	StreamRiver_Perennial	3	2.0
FEMA_FloodZone	Transportation	Road	15	3.0
FEMA_FloodZone	Transportation	Road_A	3	15.1
FEMA_FloodZone	Transportation	Road_B	1	1.3
FEMA_FloodZone	Transportation	Road_C	123	13.9
FEMA_FloodZone	Transportation	Road_X	1	0.3

5.1.4.4 TOOELE CITY | RISK ASSESMENT RESULTS | LINE DATA

Tooele City - Risk Assessment - Critical Infrastructure Line Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum Segment Length (Miles)
FEMA_FloodZone	Water	Connector	5	4.4
Flood_DamInundation	Energy	ElectricPowerTransmissionLine	6	60.0
Flood_DamInundation	Energy	Pipeline_NaturalGas	2	23.9
Flood_DamInundation	Energy	Pipeline_Petro	1	58.9
Flood_DamInundation	Natural	StreamRiver_Ephemeral	17	18.2
Flood_DamInundation	Natural	StreamRiver_Perennial	3	2.0
Flood_DamInundation	Transportation	Road	306	33.2
Flood_DamInundation	Transportation	Road_A	34	21.4
Flood_DamInundation	Transportation	Road_B	1	1.3
Flood_DamInundation	Transportation	Road_C	1057	93.2
Flood_DamInundation	Transportation	Road_D	2	0.5
Flood_DamInundation	Transportation	Road_P	1	0.0
Flood_DamInundation	Transportation	Road_X	2	0.4
Flood_DamInundation	Water	Canal_ArtificialPath	4	0.3
Flood_DamInundation	Water	Connector	12	8.3
Flood_DamInundation	Water	Dam	1	0.2
Flood_SoilsPurdue	Energy	ElectricPowerTransmissionLine	8	126.6
Flood_SoilsPurdue	Energy	Pipeline_NaturalGas	2	32.5
Flood_SoilsPurdue	Energy	Pipeline_Petro	1	58.9
Flood_SoilsPurdue	Natural	StreamRiver_Ephemeral	4	3.4

5.1.4.4 TOOELE CITY | RISK ASSESMENT RESULTS | LINE DATA

Tooele City - Risk Assessment - Critical Infrastructure Line Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum Segment Length (Miles)
Flood_SoilsPurdue	Natural	StreamRiver_Perennial	3	2.0
Flood_SoilsPurdue	Transportation	Road	9	1.0
Flood_SoilsPurdue	Transportation	Road_A	2	0.2
Flood_SoilsPurdue	Transportation	Road_B	2	0.6
Flood_SoilsPurdue	Transportation	Road_C	137	12.6
Flood_SoilsPurdue	Transportation	Road_D	2	0.2
Flood_SoilsPurdue	Transportation	Road_X	1	0.1
Flood_SoilsPurdue	Water	Canal_ArtificialPath	3	0.2
Flood_SoilsPurdue	Water	Connector	6	3.1
Flood_SoilsPurdue	Water	Dam	1	0.2
Flood_USUValleyBottom	Energy	ElectricPowerTransmissionLine	4	45.3
Flood_USUValleyBottom	Energy	Pipeline_NaturalGas	1	17.5
Flood_USUValleyBottom	Natural	StreamRiver_Perennial	2	0.7
Flood_USUValleyBottom	Transportation	Road	4	0.4
Flood_USUValleyBottom	Transportation	Road_A	1	0.1
Flood_USUValleyBottom	Transportation	Road_C	9	1.3
Flood_USUValleyBottom	Transportation	Road_D	1	0.2
Flood_USUValleyBottom	Water	Canal_ArtificialPath	3	0.3
Flood_USUValleyBottom	Water	Connector	3	0.3
Flood_Wetland_Riparian	Energy	ElectricPowerTransmissionLine	8	80.3
Flood_Wetland_Riparian	Energy	Pipeline_NaturalGas	3	38.9

5.1.4.4 TOOELE CITY | RISK ASSESMENT RESULTS | LINE DATA

Tooele City - Risk Assessment - Critical Infrastructure Line Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum Segment Length (Miles)
Flood_Wetland_Riparian	Energy	Pipeline_Petro	1	58.9
Flood_Wetland_Riparian	Natural	StreamRiver_Ephemeral	39	38.5
Flood_Wetland_Riparian	Natural	StreamRiver_Perennial	3	2.0
Flood_Wetland_Riparian	Recreation	Trails	1	4.5
Flood_Wetland_Riparian	Transportation	Road	11	3.1
Flood_Wetland_Riparian	Transportation	Road_A	7	15.8
Flood_Wetland_Riparian	Transportation	Road_B	1	0.4
Flood_Wetland_Riparian	Transportation	Road_C	105	13.2
Flood_Wetland_Riparian	Water	Canal_ArtificialPath	4	0.3
Flood_Wetland_Riparian	Water	Connector	21	12.4
Flood_Wetland_Riparian	Water	Dam	1	0.2
Landslide	Recreation	Trails	1	4.5
RMRS_WildFireHP_2020	Energy	ElectricPowerTransmissionLine	11	146.5
RMRS_WildFireHP_2020	Energy	Pipeline_NaturalGas	4	44.9
RMRS_WildFireHP_2020	Energy	Pipeline_Petro	1	58.9
RMRS_WildFireHP_2020	Natural	StreamRiver_Ephemeral	35	36.8
RMRS_WildFireHP_2020	Natural	StreamRiver_Perennial	2	0.7
RMRS_WildFireHP_2020	Recreation	Trails	1	4.5
RMRS_WildFireHP_2020	Transportation	Road	174	27.1
RMRS_WildFireHP_2020	Transportation	Road_A	14	19.6

5.1.4.4 TOOELE CITY | RISK ASSESMENT RESULTS | LINE DATA

Tooele City - Risk Assessment - Critical Infrastructure Line Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum Segment Length (Miles)
RMRS_WildFireHP_2020	Transportation	Road_B	9	3.7
RMRS_WildFireHP_2020	Transportation	Road_C	398	40.3
RMRS_WildFireHP_2020	Transportation	Road_D	9	1.6
RMRS_WildFireHP_2020	Water	Canal_ArtificialPath	3	0.3
RMRS_WildFireHP_2020	Water	Connector	17	9.0
RMRS_WildFireHP_2020	Water	Dam	1	0.2
SteepSlope	Energy	ElectricPowerTransmissionLine	10	144.9
SteepSlope	Energy	Pipeline_NaturalGas	2	32.5
SteepSlope	Natural	StreamRiver_Ephemeral	13	10.4
SteepSlope	Recreation	Trails	1	4.5
SteepSlope	Transportation	Road	5	1.8
SteepSlope	Transportation	Road_B	1	0.4
SteepSlope	Transportation	Road_C	3	1.1
SteepSlope	Transportation	Road_D	5	0.9
SteepSlope	Water	Canal_ArtificialPath	1	0.1
SteepSlope	Water	Connector	2	0.2
SteepSlope	Water	Dam	1	0.2
WildlifeAuto	Energy	ElectricPowerTransmissionLine	6	71.6
WildlifeAuto	Energy	Pipeline_NaturalGas	2	23.9
WildlifeAuto	Energy	Pipeline_Petro	1	58.9

5.1.4.4 TOOELE CITY | RISK ASSESMENT RESULTS | LINE DATA

Tooele City - Risk Assessment - Critical Infrastructure Line Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum Segment Length (Miles)
WildlifeAuto	Natural	StreamRiver_Ephemeral	3	2.6
WildlifeAuto	Natural	StreamRiver_Perennial	2	1.6
WildlifeAuto	Transportation	Road	13	2.0
WildlifeAuto	Transportation	Road_A	20	16.1
WildlifeAuto	Transportation	Road_C	101	9.2
WildlifeAuto	Transportation	Road_D	5	0.8
WildlifeAuto	Transportation	Road_X	1	0.1
WildlifeAuto	Water	Connector	3	1.1

5.1.4.5 TOOELE CITY | RISK ASSESMENT RESULTS | AREA DATA

Tooele City - Risk Assessment - Critical Infrastructure Areas Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum of Areas (Acres)
AlluvialFan	Agricultural	Agriculture_Parcel	1	94.4
AlluvialFan	Agricultural	GrazingAllotment	2	32,682.6
AlluvialFan	Natural	Wetland	1	6.4
AlluvialFan	Water	GWPZone_2	1	120.0
AlluvialFan	Water	GWPZone_3	1	1,277.5
AlluvialFan	Water	GWPZone_4	5	40,026.9
AlluvialFan	Water	RetailCulinaryWaterServiceArea	1	13,682.1
AvalanchTerrain	Agricultural	Agriculture_Parcel	3	82.1
AvalanchTerrain	Agricultural	AgricultureWRLA_DryCrop	2	73.9
AvalanchTerrain	Agricultural	GrazingAllotment	2	32,682.6
AvalanchTerrain	Natural	LakePond_Perennial	1	10.5
AvalanchTerrain	Natural	Wetland	5	36.1
AvalanchTerrain	Water	GWPZone_1	1	0.7
AvalanchTerrain	Water	GWPZone_2	6	1,859.0
AvalanchTerrain	Water	GWPZone_3	7	7,159.0
AvalanchTerrain	Water	GWPZone_4	13	92,556.2
AvalanchTerrain	Water	RetailCulinaryWaterServiceArea	1	13,682.1
DebrisFlow	Agricultural	Agriculture_Parcel	1	39.0
DebrisFlow	Agricultural	GrazingAllotment	2	32,682.6
DebrisFlow	Natural	LakePond_Perennial	1	10.5

5.1.4.5 TOOELE CITY | RISK ASSESMENT RESULTS | AREA DATA

Tooele City - Risk Assessment - Critical Infrastructure Areas Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum of Areas (Acres)
DebrisFlow	Natural	Wetland	22	63.2
DebrisFlow	Water	GWPZone_1	2	3.6
DebrisFlow	Water	GWPZone_2	6	1,859.0
DebrisFlow	Water	GWPZone_3	7	7,159.0
DebrisFlow	Water	GWPZone_4	12	91,446.5
DebrisFlow	Water	RetailCulinaryWaterServiceArea	1	13,682.1
DwellingsWithBasements	Agricultural	Agriculture_Parcel	75	692.4
DwellingsWithBasements	Agricultural	AgricultureWRLA_DryCrop	6	113.9
DwellingsWithBasements	Agricultural	AgricultureWRLA_Food	13	244.6
DwellingsWithBasements	Agricultural	AgricultureWRLU_Sprinkler	51	151.6
DwellingsWithBasements	Agricultural	GrazingAllotment	3	32,987.5
DwellingsWithBasements	Natural	LakePond_Perennial	3	11.2
DwellingsWithBasements	Natural	Wetland	35	104.5
DwellingsWithBasements	Water	GWPZone_1	6	6.5
DwellingsWithBasements	Water	GWPZone_2	7	1,897.2
DwellingsWithBasements	Water	GWPZone_3	12	9,223.1
DwellingsWithBasements	Water	GWPZone_4	13	92,556.2
DwellingsWithBasements	Water	RetailCulinaryWaterServiceArea	2	14,707.5
Erosion_RoadTrail	Agricultural	Agriculture_Parcel	73	371.8
Erosion_RoadTrail	Agricultural	AgricultureWRLA_DryCrop	6	113.9

5.1.4.5 TOOELE CITY | RISK ASSESMENT RESULTS | AREA DATA

Tooele City - Risk Assessment - Critical Infrastructure Areas Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum of Areas (Acres)
Erosion_RoadTrail	Agricultural	AgricultureWRLA_Food	12	30.0
Erosion_RoadTrail	Agricultural	AgricultureWRLU_Sprinkler	51	151.6
Erosion_RoadTrail	Agricultural	GrazingAllotment	2	32,682.6
Erosion_RoadTrail	Natural	LakePond_Perennial	3	11.2
Erosion_RoadTrail	Natural	Wetland	32	86.6
Erosion_RoadTrail	Water	GWPZone_1	6	6.5
Erosion_RoadTrail	Water	GWPZone_2	7	1,897.2
Erosion_RoadTrail	Water	GWPZone_3	12	9,223.1
Erosion_RoadTrail	Water	GWPZone_4	13	92,556.2
Erosion_RoadTrail	Water	RetailCulinaryWaterServiceArea	2	14,707.5
FEMA_FloodZone	Agricultural	Agriculture_Parcel	64	1,112.5
FEMA_FloodZone	Agricultural	AgricultureWRLA_DryCrop	11	650.1
FEMA_FloodZone	Agricultural	AgricultureWRLA_Food	19	457.3
FEMA_FloodZone	Agricultural	AgricultureWRLU_Sprinkler	22	59.8
FEMA_FloodZone	Agricultural	GrazingAllotment	2	32,682.6
FEMA_FloodZone	Natural	Wetland	16	47.7
FEMA_FloodZone	Water	GWPZone_1	2	1.4
FEMA_FloodZone	Water	GWPZone_2	7	774.0
FEMA_FloodZone	Water	GWPZone_3	13	7,487.3
FEMA_FloodZone	Water	GWPZone_4	13	77,568.9

5.1.4.5 TOOELE CITY | RISK ASSESMENT RESULTS | AREA DATA

Tooele City - Risk Assessment - Critical Infrastructure Areas Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum of Areas (Acres)
FEMA_FloodZone	Water	RetailCulinaryWaterServiceArea	3	35,931.7
FEMA_FloodZone	Water	TransientNCZone_4	3	5,883.9
Flood_DamInundation	Agricultural	Agriculture_Parcel	273	2,961.0
Flood_DamInundation	Agricultural	AgricultureWRLA_DryCrop	46	1,533.4
Flood_DamInundation	Agricultural	AgricultureWRLA_Food	64	1,437.8
Flood_DamInundation	Agricultural	AgricultureWRLU_Sprinkler	79	358.6
Flood_DamInundation	Agricultural	GrazingAllotment	3	32,987.5
Flood_DamInundation	Natural	LakePond_Perennial	9	12.7
Flood_DamInundation	Natural	Reservoir_Treatment	1	0.1
Flood_DamInundation	Natural	Wetland	44	99.5
Flood_DamInundation	Water	GWPZone_1	9	6.5
Flood_DamInundation	Water	GWPZone_2	11	750.4
Flood_DamInundation	Water	GWPZone_3	14	7,867.3
Flood_DamInundation	Water	GWPZone_4	14	85,796.0
Flood_DamInundation	Water	RetailCulinaryWaterServiceArea	3	35,931.7
Flood_DamInundation	Water	TransientNCZone_4	2	3,922.6
Flood_SoilsPurdue	Agricultural	Agriculture_Parcel	61	231.1
Flood_SoilsPurdue	Agricultural	AgricultureWRLA_DryCrop	1	1.1
Flood_SoilsPurdue	Agricultural	AgricultureWRLA_Food	11	24.4
Flood_SoilsPurdue	Agricultural	AgricultureWRLU_Sprinkler	51	151.6

5.1.4.5 TOOELE CITY | RISK ASSESMENT RESULTS | AREA DATA

Tooele City - Risk Assessment - Critical Infrastructure Areas Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum of Areas (Acres)
Flood_SoilsPurdue	Agricultural	GrazingAllotment	2	32,682.6
Flood_SoilsPurdue	Natural	LakePond_Perennial	3	11.2
Flood_SoilsPurdue	Natural	Wetland	15	46.4
Flood_SoilsPurdue	Water	GWPZone_1	2	1.4
Flood_SoilsPurdue	Water	GWPZone_2	3	556.6
Flood_SoilsPurdue	Water	GWPZone_3	10	7,590.7
Flood_SoilsPurdue	Water	GWPZone_4	11	85,105.1
Flood_SoilsPurdue	Water	RetailCulinaryWaterServiceArea	2	14,707.5
Flood_USUValleyBottom	Agricultural	GrazingAllotment	2	32,682.6
Flood_USUValleyBottom	Natural	LakePond_Perennial	1	10.5
Flood_USUValleyBottom	Natural	Wetland	7	28.5
Flood_USUValleyBottom	Water	GWPZone_1	1	0.7
Flood_USUValleyBottom	Water	GWPZone_2	2	518.5
Flood_USUValleyBottom	Water	GWPZone_3	5	5,526.5
Flood_USUValleyBottom	Water	GWPZone_4	10	83,995.3
Flood_USUValleyBottom	Water	RetailCulinaryWaterServiceArea	1	13,682.1
Flood_Wetland_Riparian	Agricultural	Agriculture_Parcel	82	1,906.6
Flood_Wetland_Riparian	Agricultural	AgricultureWRLA_DryCrop	22	1,196.5
Flood_Wetland_Riparian	Agricultural	AgricultureWRLA_Food	27	1,149.3
Flood_Wetland_Riparian	Agricultural	AgricultureWRLU_Sprinkler	12	30.7

5.1.4.5 TOOELE CITY | RISK ASSESMENT RESULTS | AREA DATA

Tooele City - Risk Assessment - Critical Infrastructure Areas Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum of Areas (Acres)
Flood_Wetland_Riparian	Agricultural	GrazingAllotment	3	32,987.5
Flood_Wetland_Riparian	Natural	LakePond_Perennial	6	12.0
Flood_Wetland_Riparian	Natural	Reservoir_Treatment	1	0.1
Flood_Wetland_Riparian	Natural	Wetland	69	164.3
Flood_Wetland_Riparian	Water	GWPZone_1	2	3.6
Flood_Wetland_Riparian	Water	GWPZone_2	9	1,943.8
Flood_Wetland_Riparian	Water	GWPZone_3	13	9,398.1
Flood_Wetland_Riparian	Water	GWPZone_4	18	94,851.7
Flood_Wetland_Riparian	Water	RetailCulinaryWaterServiceArea	3	35,931.7
Flood_Wetland_Riparian	Water	TransientNCZone_4	3	5,883.9
Landslide	Agricultural	GrazingAllotment	1	18,263.2
Landslide	Water	GWPZone_2	1	1,069.3
Landslide	Water	GWPZone_3	4	4,869.1
Landslide	Water	GWPZone_4	10	81,962.8
RMRS_WildFireHP_2020	Agricultural	Agriculture_Parcel	230	3,684.7
RMRS_WildFireHP_2020	Agricultural	AgricultureWRLA_DryCrop	57	2,187.9
RMRS_WildFireHP_2020	Agricultural	AgricultureWRLA_Food	43	1,715.7
RMRS_WildFireHP_2020	Agricultural	AgricultureWRLU_Sprinkler	9	34.0
RMRS_WildFireHP_2020	Agricultural	GrazingAllotment	3	32,987.5
RMRS_WildFireHP_2020	Natural	LakePond_Perennial	2	11.1

5.1.4.5 TOOELE CITY | RISK ASSESMENT RESULTS | AREA DATA

Tooele City - Risk Assessment - Critical Infrastructure Areas Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum of Areas (Acres)
RMRS_WildFireHP_2020	Natural	Wetland	50	150.0
RMRS_WildFireHP_2020	Water	GWPZone_1	8	7.9
RMRS_WildFireHP_2020	Water	GWPZone_2	12	2,006.0
RMRS_WildFireHP_2020	Water	GWPZone_3	16	9,616.7
RMRS_WildFireHP_2020	Water	GWPZone_4	19	95,022.6
RMRS_WildFireHP_2020	Water	RetailCulinaryWaterServiceArea	3	35,931.7
RMRS_WildFireHP_2020	Water	TransientNCZone_4	3	5,883.9
SteepSlope	Agricultural	Agriculture_Parcel	4	102.7
SteepSlope	Agricultural	AgricultureWRLA_DryCrop	2	73.9
SteepSlope	Agricultural	GrazingAllotment	2	32,682.6
SteepSlope	Natural	LakePond_Perennial	1	10.5
SteepSlope	Natural	Wetland	16	61.7
SteepSlope	Water	GWPZone_1	3	4.3
SteepSlope	Water	GWPZone_2	6	1,859.0
SteepSlope	Water	GWPZone_3	7	7,159.0
SteepSlope	Water	GWPZone_4	13	92,556.2
SteepSlope	Water	RetailCulinaryWaterServiceArea	1	13,682.1
WildlifeAuto	Agricultural	Agriculture_Parcel	9	70.4
WildlifeAuto	Agricultural	AgricultureWRLA_DryCrop	4	36.3
WildlifeAuto	Agricultural	AgricultureWRLA_Food	2	21.1

5.1.4.5 TOOELE CITY | RISK ASSESMENT RESULTS | AREA DATA

Tooele City - Risk Assessment - Critical Infrastructure Areas Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum of Areas (Acres)
WildlifeAuto	Agricultural	AgricultureWRLU_Sprinkler	2	3.4
WildlifeAuto	Agricultural	GrazingAllotment	2	32,682.6
WildlifeAuto	Natural	Wetland	7	29.6
WildlifeAuto	Water	GWPZone_1	2	1.4
WildlifeAuto	Water	GWPZone_2	4	633.3
WildlifeAuto	Water	GWPZone_3	4	4,249.0
WildlifeAuto	Water	GWPZone_4	9	71,984.1
WildlifeAuto	Water	RetailCulinaryWaterServiceArea	1	13,682.1

5.4.5 TOOELE CITY - MITIGATION STRATAGIES

TOOELE 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
		Priority	Low
		Pot. Funding Sources	Local
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
AVALANCHE - CURRENT RESIDENTS/PROPERTY	Develop an avalanche codes or regulations prohibiting or limiting structures in known avalanche zones	NFIP compliant?	N/A
		Priority	Low
		Pot. Funding Sources	Local
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
AVALANCHE - CURRENT RESIDENTS/PROPERTY	Develop an avalanche warning system	Priority	Low
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
AVALANCHE - CURRENT RESIDENTS/PROPERTY	Increase knowledge for city and county emergency managers	Priority	Low
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
		NFIP compliant?	N/A

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
AVALANCHE - CURRENT RESIDENTS/PROPERTY	Install fencing to support structures arranged to retain snow	Priority	Low
		Pot. Funding Sources	Local
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
AVALANCHE - CURRENT RESIDENTS/PROPERTY	Other strategies and/or comments:		N/A
AVALANCHE - CURRENT RESIDENTS/PROPERTY	Plant trees and other vegetation to reduce impact of avalanches	NFIP compliant?	N/A
		Priority	Low
		Pot. Funding Sources	Local
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
AVALANCHE - CURRENT RESIDENTS/PROPERTY	Purchase avalanche risk area lands or require buffers when developing infrastructure such as roads or buildings	NFIP compliant?	N/A
		Priority	Low
		Pot. Funding Sources	Local
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
AVALANCHE - CURRENT RESIDENTS/PROPERTY	Retrofit critical facilities and infrastructure to withstand avalanches such as reinforced concrete walls	NFIP compliant?	N/A
		Priority	Low
		Pot. Funding Sources	Local
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
		NFIP compliant?	N/A

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
AVALANCHE - FUTURE RESIDENTS/PROPERTY	Conduct training with backcountry winter outdoor users	Priority	Low
		Pot. Funding Sources	Local
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
AVALANCHE - FUTURE RESIDENTS/PROPERTY	Develop an avalanche codes or regulations prohibiting or limiting structures in known avalanche zones	NFIP compliant?	N/A
		Priority	Low
		Pot. Funding Sources	Local
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
AVALANCHE - FUTURE RESIDENTS/PROPERTY	Develop an avalanche warning system	Priority	Low
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
AVALANCHE - FUTURE RESIDENTS/PROPERTY	Increase knowledge for city and county emergency managers	Priority	Low
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
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

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
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
		Priority	Low
		Pot. Funding Sources	Local
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
DAM FAILURE - CURRENT RESIDENTS/PROPERTY	Develop ordinances to prohibit or limit critical facilities and/or structures in dam inundation areas	Priority	Low
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
DAM FAILURE - CURRENT RESIDENTS/PROPERTY	Ensure new critical facilities and infrastructure are not built in dam inundation areas	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
DAM FAILURE - CURRENT RESIDENTS/PROPERTY	Identify areas of encroachment below high hazard dams especially in dam inundation areas	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
DAM FAILURE - CURRENT RESIDENTS/PROPERTY	Promote National Dam Safety Awareness Day	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
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	Pot. Funding Sources	State UGS
		Responsible Entity	State
		Priority	High
		NFIP compliant?	Helps reduce risk
		Estimated Cost	$0 - $25 K
		Timeframe	2025
DAM FAILURE - CURRENT RESIDENTS/PROPERTY	Work with the Utah Division of Water Rights and dam companies to install a dam monitoring system	Pot. Funding Sources	State UGS
		Responsible Entity	State
		Priority	High
		NFIP compliant?	Helps reduce risk
		Estimated Cost	$0 - $25 K
		Timeframe	2025
DAM FAILURE - CURRENT RESIDENTS/PROPERTY	Work with the Utah Division of Water Rights and dam companies to update dam emergency action plans	Pot. Funding Sources	State UGS
		Responsible Entity	State
		Priority	High
		NFIP compliant?	Helps reduce risk
		Estimated Cost	$0 - $25 K
		Timeframe	2025

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
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	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
DAM FAILURE - FUTURE RESIDENTS/PROPERTY	Other strategies and/or comments:		None
DAM FAILURE - FUTURE 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
		Timeframe	2025
DAM FAILURE - FUTURE RESIDENTS/PROPERTY	Relocate government-owned facilities located near high risk dam failures	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
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	Pot. Funding Sources	State UGS
		Responsible Entity	State
		Priority	High
		NFIP compliant?	Helps reduce risk

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Estimated Cost	$0 - $25 K
		Timeframe	2025
DAM FAILURE - FUTURE RESIDENTS/PROPERTY	Work with the Utah Division of Water Rights and dam companies to install a dam monitoring system	Pot. Funding Sources	State UGS
		Responsible Entity	State
		Priority	Low
		NFIP compliant?	Helps reduce risk
		Estimated Cost	$0 - $25 K
		Timeframe	2025
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	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
DROUGHT - CURRENT RESIDENTS/PROPERTY	Designate and or preserve adequate source water protection zones or groundwater recharge areas	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
DROUGHT - CURRENT RESIDENTS/PROPERTY	Educate Decision Makers and Government Employees on Water Saving Techniques (list event details in "comments")	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Timeframe	2022
DROUGHT - CURRENT RESIDENTS/PROPERTY	Educate Residents on Water Saving Techniques (list event details in "comments")	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$25 K - $50 K
		Timeframe	2022
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	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$100 K - $250 K
		Timeframe	2022
DROUGHT - CURRENT RESIDENTS/PROPERTY	Expand and Improve Existing Potable Water Systems	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$1 Mil +
		Timeframe	2022
DROUGHT - CURRENT RESIDENTS/PROPERTY	Improve Public Water Infrastructure and Management with Water Provider	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$1 Mil +

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Timeframe	2022
DROUGHT - CURRENT RESIDENTS/PROPERTY	Monitor Water Supply for leaks system failures inefficiencies etc. via monitoring system and audits	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
DROUGHT - CURRENT RESIDENTS/PROPERTY	Other strategies and/or comments:		none
DROUGHT - CURRENT RESIDENTS/PROPERTY	Plan and Prepare for Drought via emergency planning and warning systems	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
DROUGHT - CURRENT RESIDENTS/PROPERTY	Retrofit Water Supply Systems to handle current and new growth	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$50 K - $100 K
		Timeframe	2022
DROUGHT - CURRENT RESIDENTS/PROPERTY	Update and adopt drought ordinances	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$25 K - $50 K

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Timeframe	2022
DROUGHT - FUTURE RESIDENTS/PROPERTY	Designate and or preserve adequate source water protection zones or groundwater recharge areas	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
DROUGHT - FUTURE RESIDENTS/PROPERTY	Educate Decision Makers and Government Employees on Water Saving Techniques (list event details in "comments")	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
DROUGHT - FUTURE RESIDENTS/PROPERTY	Educate Residents on Water Saving Techniques (list event details in "comments")	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$25 K - $50 K
		Timeframe	2022
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	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$50 K - $100 K

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Timeframe	2022
DROUGHT - FUTURE RESIDENTS/PROPERTY	Expand and Improve Existing Potable Water Systems	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$1 Mil +
		Timeframe	2022
DROUGHT - FUTURE RESIDENTS/PROPERTY	Improve Public Water Infrastructure and Management with Water Provider	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$1 Mil +
		Timeframe	2022
DROUGHT - FUTURE RESIDENTS/PROPERTY	Monitor Water Supply for leaks system failures inefficiencies etc. via monitoring system and audits	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
DROUGHT - FUTURE RESIDENTS/PROPERTY	Plan and Prepare for Drought via emergency planning and warning systems	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
DROUGHT - FUTURE RESIDENTS/PROPERTY	Retrofit Water Supply Systems to handle current and new growth	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$50 K - $100 K
		Timeframe	2022
DROUGHT - FUTURE RESIDENTS/PROPERTY	Update and adopt drought ordinances	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Building Code Adoption and Enforcement	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Conduct Building Safety Inspections	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Conduct Outreach to Builders Architects Engineers and Inspectors	NFIP compliant?	N/A

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
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	Priority	Low
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$100 K - $250 K
		Timeframe	2024
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Increase Awareness and Education of Earthquakes through an educational event	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Improve CRS score
		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	Priority	Low
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Retrofit Critical Facilities and Infrastructure to Withstand Earthquakes (list specifics in "comments" section)	Pot. Funding Sources	State UGS
		Responsible Entity	State
		Priority	High
		NFIP compliant?	Helps reduce risk
		Estimated Cost	$1 Mil +
		Timeframe	2022

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
EARTHQUAKE - FUTURE RESIDENTS/PROPERTY	Building Code Adoption and Enforcement	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
EARTHQUAKE - FUTURE RESIDENTS/PROPERTY	Conduct Building Safety Inspections	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
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	Priority	Low
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$100 K - $250 K
		Timeframe	2024
EARTHQUAKE - FUTURE RESIDENTS/PROPERTY	Increase Awareness and Education of Earthquakes through an educational event	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Improve CRS score
		Responsible Entity	City
		Estimated Cost	$0 - $25 K

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Timeframe	2022
EARTHQUAKE - FUTURE RESIDENTS/PROPERTY	Local Planning such as critical facilities planning financial incentives creating a safety committee emergency planning etc	Priority	Low
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
EARTHQUAKE - FUTURE RESIDENTS/PROPERTY	Retrofit Critical Facilities and Infrastructure to Withstand Earthquakes (list specifics in "comments" section)	Pot. Funding Sources	State UGS
		Responsible Entity	State
		Priority	High
		NFIP compliant?	Helps reduce risk
		Estimated Cost	$1 Mil +
		Timeframe	2022
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	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
FLOOD - CURRENT RESIDENTS/PROPERTY	Coordination and Partnerships i.e. develop stormwater committee regional watershed council local councils etc	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2024
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	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$500 K - $1 Mil
		Timeframe	2022
FLOOD - CURRENT RESIDENTS/PROPERTY	Information and educational events (list details in "comments" section)	NFIP compliant?	N/A
FLOOD - CURRENT RESIDENTS/PROPERTY	Other local planning mechanisms such as joining the NFIP creating risk plans establishing green infrastructure plan etc	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	Preserve Floodplains and Open Space through ordinances land purchase conservation easements etc	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Estimated Cost	$0 - $25 K
		Timeframe	2025
FLOOD - CURRENT RESIDENTS/PROPERTY	Protect and Restore Natural Flood Mitigation Features through natural greenway protection and restoration	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$50 K - $100 K
		Timeframe	2025
FLOOD - CURRENT RESIDENTS/PROPERTY	Protect Infrastructure such as roads bridges wastewater treatment etc	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$250 K - $500 K
		Timeframe	2022
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	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
FLOOD - CURRENT RESIDENTS/PROPERTY	Stormwater Management Planning	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Estimated Cost	$0 - $25 K
		Timeframe	2022
FLOOD - FUTURE 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 - FUTURE RESIDENTS/PROPERTY	Conduct Regular Maintenance for Drainage Systems and Flood Control Structures	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
FLOOD - FUTURE RESIDENTS/PROPERTY	Coordination and Partnerships i.e. develop stormwater committee regional watershed council local councils etc	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
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	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
FLOOD - FUTURE RESIDENTS/PROPERTY	Improve Stormwater Drainage capacity	Responsible Entity	City
		Estimated Cost	$500 K - $1 Mil
		Timeframe	2022
FLOOD - FUTURE RESIDENTS/PROPERTY	Information and educational events (list details in "comments" section)	NFIP compliant?	N/A
FLOOD - FUTURE RESIDENTS/PROPERTY	Other local planning mechanisms such as joining the NFIP creating risk plans establishing green infrastructure plan etc	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
FLOOD - FUTURE RESIDENTS/PROPERTY	Preserve Floodplains and Open Space through ordinances land purchase conservation easements etc	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
FLOOD - FUTURE RESIDENTS/PROPERTY	Protect and Restore Natural Flood Mitigation Features through natural greenway protection and restoration	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
FLOOD - FUTURE RESIDENTS/PROPERTY	Protect Infrastructure such as roads bridges wastewater treatment etc	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
FLOOD - FUTURE RESIDENTS/PROPERTY	Protect infrastructure such as roads bridges wastewater treatment etc	Responsible Entity	City
		Estimated Cost	$250 K - $500 K
		Timeframe	2025
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
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
FLOOD - FUTURE RESIDENTS/PROPERTY	Stormwater Management Planning	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
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	NFIP compliant?	N/A
LANDSLIDE/STEEP SLOPES - CURRENT 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 - 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) - NFIP compliant?		N/A
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

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
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	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
LANDSLIDE/STEEP SLOPES - FUTURE RESIDENTS/PROPERTY	Develop an codes or regulation prohibiting or limiting structures in known landslide/steep slope risk areas	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
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	Local
		Priority	Medium
		Responsible Entity	City
		Timeframe	2025
LANDSLIDE/STEEP SLOPES - FUTURE RESIDENTS/PROPERTY	Install catch-fall nets for rocks at steep slopes near roadways	NFIP compliant?	N/A
		Priority	Medium

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
LANDSLIDE/STEEP SLOPES - FUTURE RESIDENTS/PROPERTY	Locate and/or relocate utilities outside of landslide areas to decrease the risk of service disruption	Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$250 K - $500 K
		Timeframe	2025
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	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
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
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
		Priority	Medium

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
PROBLEM SOILS - CURRENT RESIDENTS/PROPERTY	Restrict development in areas with soil that is considered poor or unsuitable for development	Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
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
PROBLEM SOILS - FUTURE RESIDENTS/PROPERTY	Develop a code or regulation prohibiting or limiting structures in known problem soil areas	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
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	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
PROBLEM SOILS - FUTURE RESIDENTS/PROPERTY	Restrict development in areas with soil that is considered poor or unsuitable for development	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Timeframe	2022
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	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
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
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	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
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)	NFIP compliant?	N/A
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	NFIP compliant?	N/A
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)	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$250 K - $500 K
		Timeframe	2025
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
SEVERE WEATHER - FUTURE RESIDENTS/PROPERTY	Conduct Outreach Activities Increase and Public Awareness (specify below in comments)	NFIP compliant?	N/A
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	NFIP compliant?	N/A
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)	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$250 K - $500 K
		Timeframe	2025

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
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
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
		NFIP compliant?	N/A
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Address density and quantity of development as well emergency access landscaping and water supply	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
WILDFIRE - 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

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Timeframe	2022
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Develop a community wildfire preparedness plan	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	Develop wildfire and/or Wildland Urban Interface (WUI) codes or regulation prohibiting or limiting structures in known wildfire risk areas	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Educate Property Owners about Wildfire Mitigation Techniques (List specifics below in comments)	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
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	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Implement a Fuels Management Program	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Include considerations of wildfire hazards in land use public safety and other processes	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Mandate wildfire planning be incorporated into development and land use planning	NFIP compliant?	N/A
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Mitigate Against Post-Wildfire Flooding via structural projects in drainage areas	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$25 K - $50 K
		Timeframe	2024
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Participate in Firewise Program	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Promote conservation of open space or wildland-urban boundary zones to separate developed areas from high-hazard areas	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Set guidelines for annexation and service extensions in high-risk areas	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Structural and defensible space requirements	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
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
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
		Pot. Funding Sources	Local

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Address density and quantity of development as well emergency access landscaping and water supply	Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
WILDFIRE - FUTURE 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
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Develop a community wildfire preparedness plan	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
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	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
		Priority	Medium
		Pot. Funding Sources	Local

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Educate Property Owners about Wildfire Mitigation Techniques (List specifics below in comments)	NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
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	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Implement a Fuels Management Program	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Include considerations of wildfire hazards in land use public safety and other processes	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Mandate wildfire planning be incorporated into development and land use planning	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Mandate wildfire planning be incorporated into development and land use planning	Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Mitigate Against Post-Wildfire Flooding via structural projects in drainage areas	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$25 K - $50 K
		Timeframe	2024
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Participate in Firewise Program	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Promote conservation of open space or wildland-urban boundary zones to separate developed areas from high-hazard areas	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Set guidelines for annexation and service extensions in high-risk areas	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City

TOOELE CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Estimated Cost	$0 - $25 K
		Timeframe	2022
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Structural and defensible space requirements	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022
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	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2022

5.5 VERNON CITY

5.5.2 Vernon City - Future Development Risk

5.5.3 Vernon City - Hazards

1. Dam Inundation
2. Engineering Problem Soils
3. Erosion
4. Flood
5. Wildfire

5.5.4 Vernon City - Risk Assessment Results

1. Building Footprints - Structures
2. Point Data - Features
3. Parcel Data
4. Line Data
5. Area Data

5.5.5 Vernon City - Mitigation Stratagies

Risk Summary

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

Ariel 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

Hazard Type	*Probability of Occurence*	*Population Impact*	*Property Impact*	*Econmic Impact*	*Future Development Impact*	*Overall Risk*
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.

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.

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.

Problem Soils

Erosive Soils (Roads and Trails)

Flood_Dam Inundation
Flood_Great Salt Lake Flooding
Flood_Valley Bottom
Flood_Soils
Flood_FEMA 100 year floodplain
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 innundation 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.

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

Dam Innundation Risk

Wildfire Hazard

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 | RISK ASSESMENT RESULTS | 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 | RISK ASSESMENT RESULTS | PARCEL DATA

Vernon City - Risk Assessment - 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 | RISK ASSESMENT RESULTS | LINE DATA

Vernon City - Risk Assessment - 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 | RISK ASSESMENT RESULTS | LINE DATA

Vernon City - Risk Assessment - 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 | RISK ASSESMENT RESULTS | LINE DATA

Vernon City - Risk Assessment - 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

Vernon City - Risk Assessment - 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 | RISK ASSESMENT RESULTS | AREA DATA

Vernon City - Risk Assessment - 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 | RISK ASSESMENT RESULTS | AREA DATA

Vernon City - Risk Assessment - 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 | RISK ASSESMENT RESULTS | AREA DATA

Vernon City - Risk Assessment - 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 STRATAGIES

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

VERNON CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

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
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$0 - $25 K
		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
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		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
		Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Estimated Cost	$50 K - $100 K

VERNON CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

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

VERNON CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

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

VERNON CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

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

VERNON CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

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

VERNON CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

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
		Timeframe	2022
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
		Timeframe	2024
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

VERNON CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

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

VERNON CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

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

VERNON CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

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

VERNON CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

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

VERNON CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

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

VERNON CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

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

VERNON CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
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

VERNON CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
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
		Timeframe	2022
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
		Timeframe	2022
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
		Timeframe	2022
		Priority	High

VERNON CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
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
		Timeframe	2022
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
		Timeframe	2022
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
		Timeframe	2022
		Priority	Medium

VERNON CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
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
		Timeframe	2022
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
		Timeframe	2022
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
		Timeframe	2022
		Priority	High

VERNON CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

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
		Timeframe	2022
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
		Timeframe	2022
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
		Timeframe	2022
		Priority	Medium

VERNON CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
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
		Timeframe	2022
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
		Timeframe	2023
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
		Timeframe	2022
		Priority	High

VERNON CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

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

VERNON CITY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

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
		Timeframe	2023
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

5.6 WENDOVER

5.6.2 Wendover City - Future Development Risk

5.6.3 Wendover City - Hazards

1. Avalanche Terrain
2. Engineering Problem Soils
3. Erosion
4. Flood
5. Steep Slope

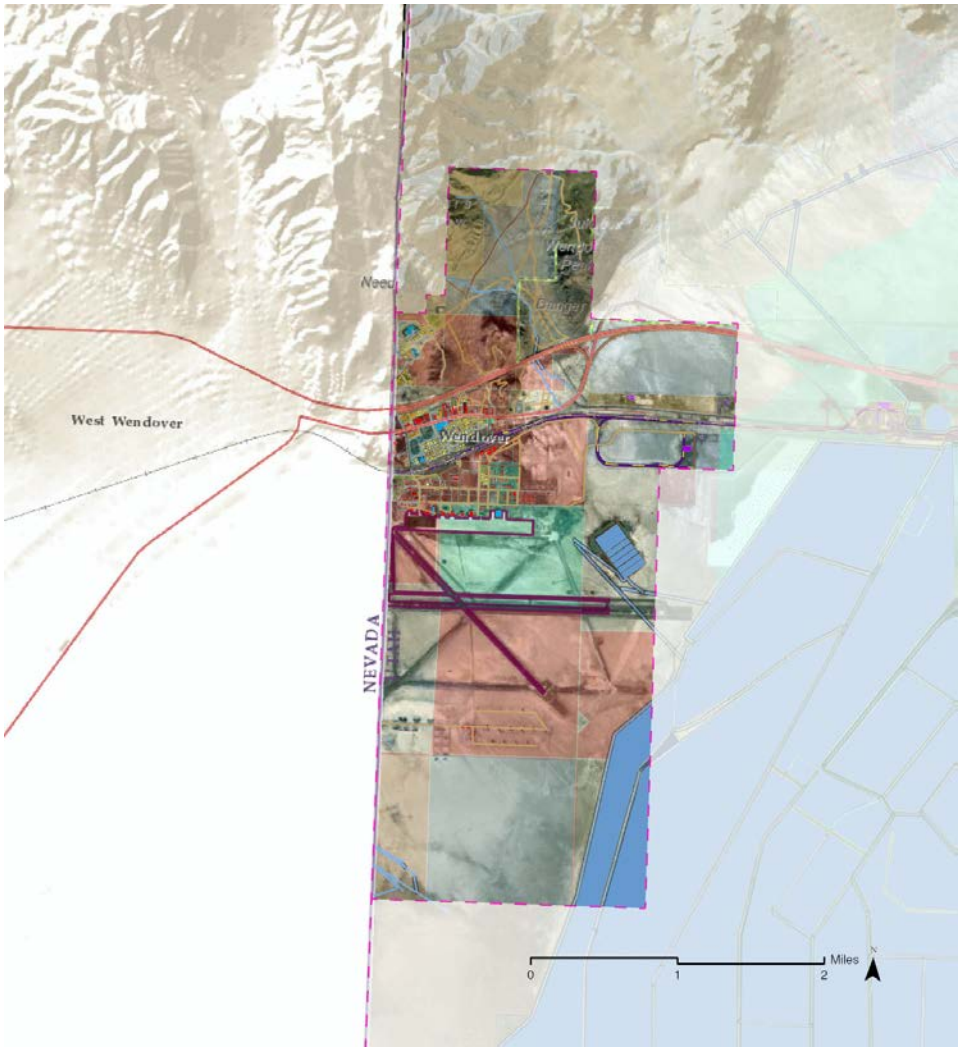
5.6.4 Wendover City - Risk Assessment Results

1. Building Footprints - Structures
2. Point Data - Features
3. Parcel Data
4. Line Data
5. Area Data

5.6.5 Wendover City - Mitigation Stratagies

Risk Summary

- Avalanche Terrain
- Engineering Problem Soils
- Erosion
- Flood
- Steep Slope

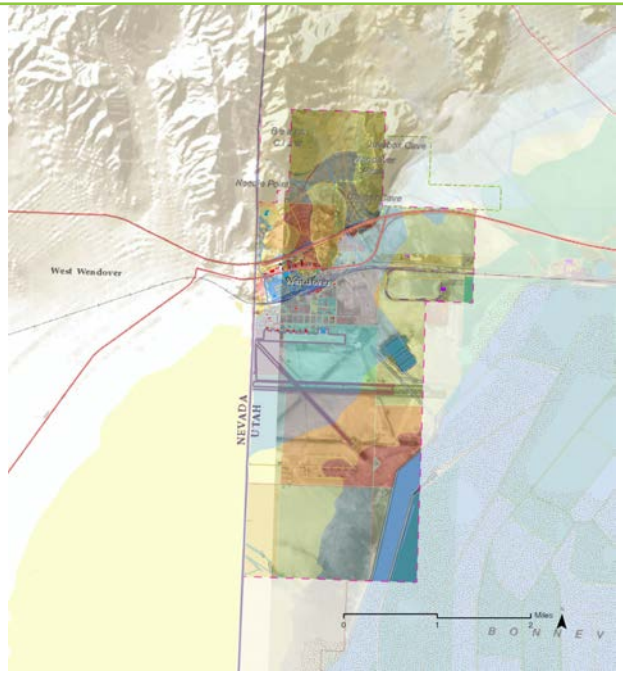


Aerial map of Wendover City

5.6.2 WENDOVER - FUTURE DEVELOPMENT RISK

Future Development Risk

Development on the Utah side is Wendover seems to be slow, and the community has not had significant physical development since the 1990's. However, there is potential risk to new structures from flooding, especially if the city grows south of existing development, or north near the new elementary school.



HazType / Acres

Avalanche Terrain	216
Engineering Problem Soils	4,309
Erosion	778
FEMA_Flood Zone	115
Flood_Wetland & Riparian	161
Flood_Soils Purdue	1,554
Steep Slope	350

Wendover City - Risk Summary

Hazard Type	*Probability of Occurence*	*Population Impact*	*Property Impact*	*Econmic Impact*	*Future Development Impact*	*Overall Risk*
Avalanche Terrain	High	Low	Low	Low	Low	Low
Engineering Problem Soils	Moderate	Low	Moderate	Moderate	Moderate	Moderate
Erosion	High	Low	High	High	Low	High
Flood	High	Moderate	High	Moderate	Moderate	High
Steep Slope	Low	Low	Low	Low	Moderate	Low

5.6.3 WENDOVER - HAZARDS

Avalanche Terrain 216 AC

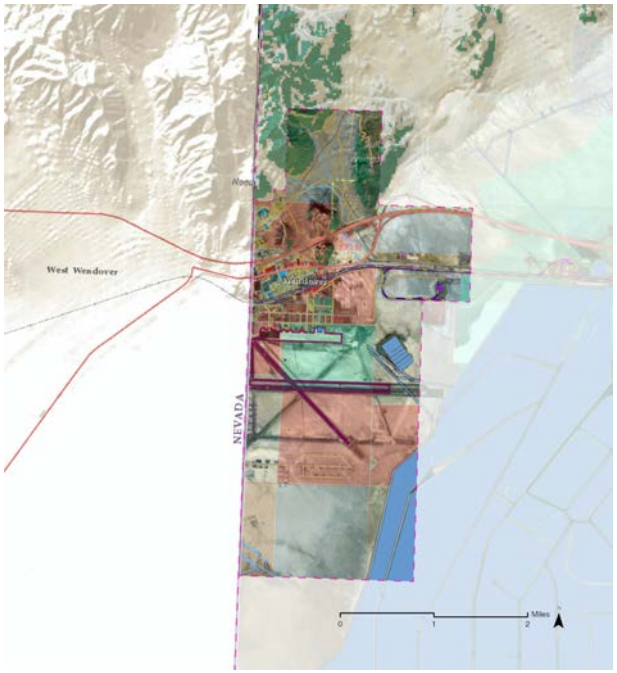
North of town, there are a few areas with potential avalanche terrain. However, the likelihood of Wendover receiving enough snow for an avalanche is extremely low. There could be potential impacts from avalanche to less than a mile of roads, and maybe some sensitive ground water protection areas.

Engineering Problem Soils 4,309 AC

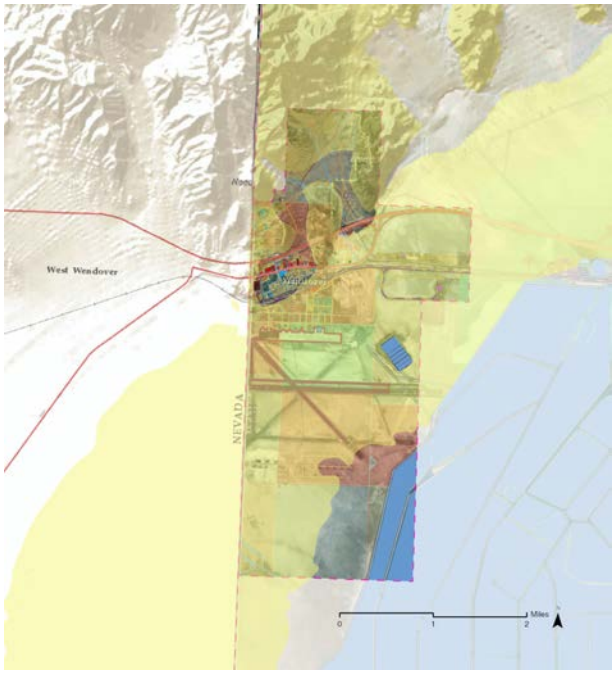
Though virtually covered by problem soils, most of the existing homes and other structures/infrastructure in town are already built in areas with good soils. If the city expands in almost any direction, however, that will not be the case, and the risk could increase. Potential losses include 153 businesses, 1 school, 2 churches, 1 fire station, over 50 homes, around 30 miles of roads,

Erosion 778 AC

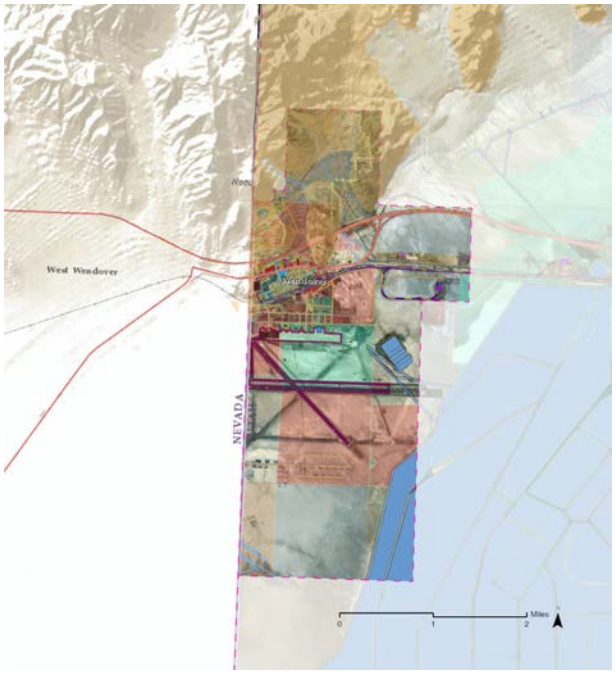
Erosive soils exist mostly north of town in the hills above Interstate 80. While the school and some local roads are located in these areas, risk is likely very low. Other potential losses include 8 commercial buildings, 1 school, 2 churches, 35 homes, and 11 miles of roads.



Avalanche Terrain



Problem Soils



Erosive Soils (Roads and Trails)

5.6.3 WENDOVER - HAZARDS

FEMA_Flood Zone 115 ac

A number of homes are located in the FEMA flood zone, particularly between East Wendover Blvd. and Railroad Drive. Extensive damage could occur during an extreme flood event. Likewise, the roads and other buildings south of the elementary school are also located in a flood zone. Potential losses include 11 businesses, 1 grocery store, 3 schools, 1 church, around 120 homes, and 9 miles of roads.

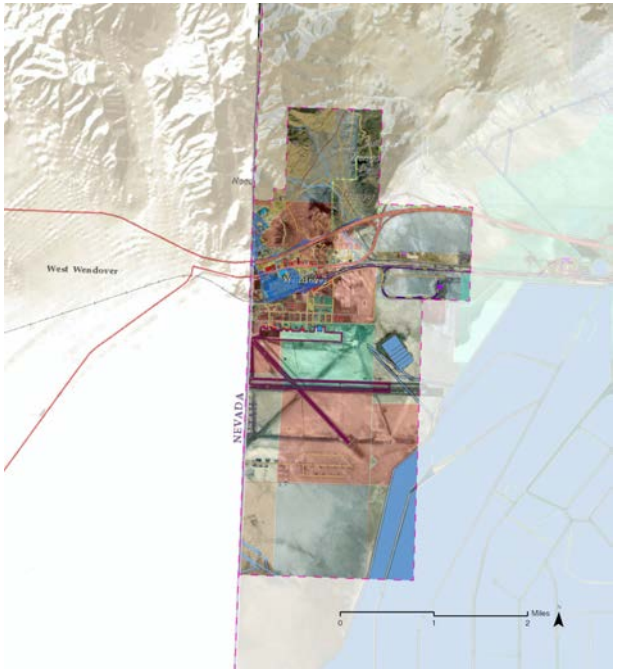
Flood_Wetland & Riparian 161 ac

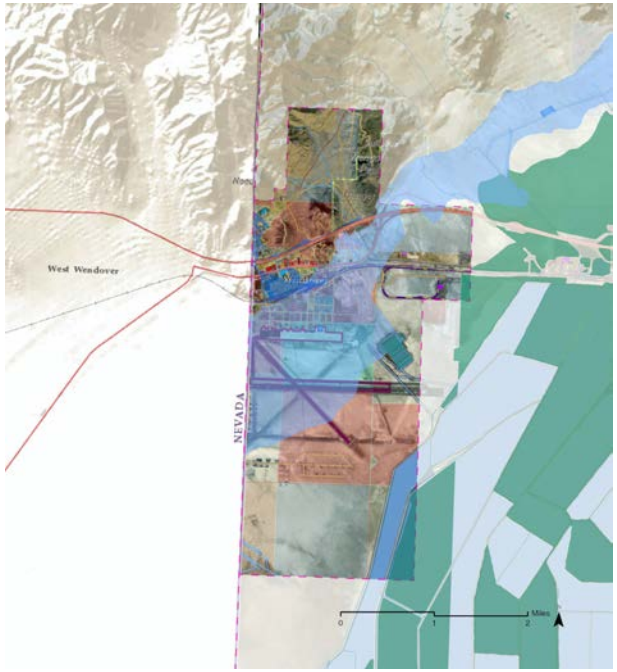
Flood_Soils Purdue 1,554 ac

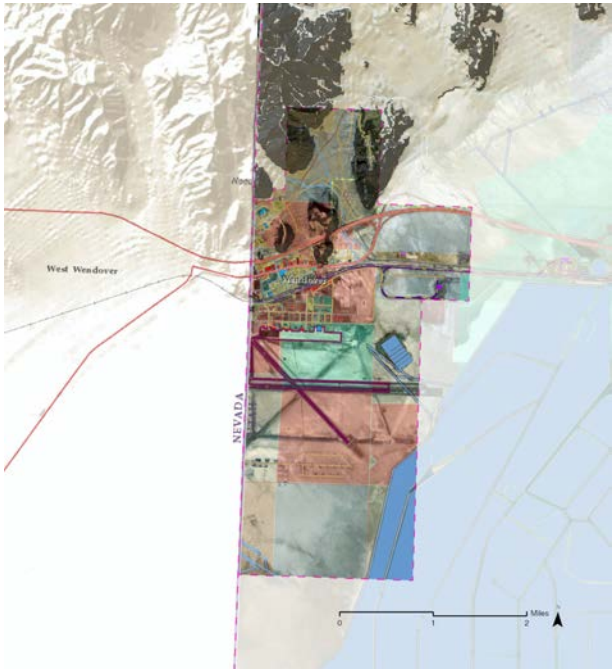
Additional flood prone areas, particularly related to specific soils types in town, are located mostly south and east of town. Parts of residential areas currently exist here, particularly north of, and including, the airport. Potential losses include 137 businesses, 1 firestation, 19 homes, 16 miles of roads, and thousands of acres of grazing allotment lands.

Steep Slope 350 ac

Steep slopes exist north of town in the hills and benches north of I-80. These areas don't pose an immediate threat, but future development should avoid these areas to prevent future losses. Potential losses include 1 cell tower, 5 miles of roads, and 73,000 acreas of grazing allotment lands.







Flood_Soils
Flood_FEMA 100 year floodplain
Flood_Riparian/Wetland

Steep Slopes >30%

5.6.4.1 WENDOVER - RISK ASSESMENT RESULTS - STRUCTURES

Wendover City - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Facilities
DwellingsWithBasements	Commercial	Commercial	153
DwellingsWithBasements	Community Resource	Ed_Kto12	1
DwellingsWithBasements	Community Resource	Museum	5
DwellingsWithBasements	Community Resource	PlaceofWorship	2
DwellingsWithBasements	Emergency Facility	FireStation	1
DwellingsWithBasements	Emergency Facility	MedicalFacility	2
DwellingsWithBasements	Government Facility	LocalGov	3
DwellingsWithBasements	Government Facility	Well	1
DwellingsWithBasements	Industrical	Industrial	22
DwellingsWithBasements	Residential	Apartment	9
DwellingsWithBasements	Residential	Commercial_ Residential	3
DwellingsWithBasements	Residential	Duplex	1
DwellingsWithBasements	Residential	Fourplex_Triplex	9
DwellingsWithBasements	Residential	Manufactured	4
DwellingsWithBasements	Residential	Res_MobileHome	16
DwellingsWithBasements	Residential	Residential	18
DwellingsWithoutBasements	Commercial	Commercial	153
DwellingsWithoutBasements	Community Resource	Ed_Kto12	1
DwellingsWithoutBasements	Community Resource	Museum	5
DwellingsWithoutBasements	Community Resource	PlaceofWorship	2
DwellingsWithoutBasements	Emergency Facility	FireStation	1
DwellingsWithoutBasements	Emergency Facility	MedicalFacility	2
DwellingsWithoutBasements	Government Facility	LocalGov	3
DwellingsWithoutBasements	Government Facility	Well	1
DwellingsWithoutBasements	Industrical	Industrial	22
DwellingsWithoutBasements	Residential	Apartment	9
DwellingsWithoutBasements	Residential	Commercial_ Residential	3
DwellingsWithoutBasements	Residential	Duplex	1
DwellingsWithoutBasements	Residential	Fourplex_Triplex	9

5.6.4.1 WENDOVER - RISK ASSESMENT RESULTS - STRUCTURES

Wendover City - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Facilities
DwellingsWithoutBasements	Residential	Manufactured	4
DwellingsWithoutBasements	Residential	Res_MobileHome	16
DwellingsWithoutBasements	Residential	Residential	18
Erosion_OffRoadTrail	Commercial	Commercial	8
Erosion_OffRoadTrail	Community Resource	Ed_Kto12	1
Erosion_OffRoadTrail	Community Resource	PlaceofWorship	2
Erosion_OffRoadTrail	Emergency Facility	MedicalFacility	2
Erosion_OffRoadTrail	Government Facility	LocalGov	3
Erosion_OffRoadTrail	Government Facility	Well	1
Erosion_OffRoadTrail	Industrical	Industrial	2
Erosion_OffRoadTrail	Residential	Apartment	8
Erosion_OffRoadTrail	Residential	Commercial_ Residential	3
Erosion_OffRoadTrail	Residential	Fourplex_Triplex	9
Erosion_OffRoadTrail	Residential	Manufactured	1
Erosion_OffRoadTrail	Residential	Residential	17
Erosion_RoadTrail	Commercial	Commercial	8
Erosion_RoadTrail	Community Resource	Ed_Kto12	1
Erosion_RoadTrail	Community Resource	PlaceofWorship	2
Erosion_RoadTrail	Emergency Facility	MedicalFacility	2
Erosion_RoadTrail	Government Facility	LocalGov	3
Erosion_RoadTrail	Government Facility	Well	1
Erosion_RoadTrail	Industrical	Industrial	2
Erosion_RoadTrail	Residential	Apartment	8
Erosion_RoadTrail	Residential	Commercial_ Residential	3
Erosion_RoadTrail	Residential	Fourplex_Triplex	9
Erosion_RoadTrail	Residential	Manufactured	1
Erosion_RoadTrail	Residential	Residential	17
FEMA_FloodZone	Commercial	Commercial	11
FEMA_FloodZone	Commercial	Grocery_Store	1

5.6.4.1 WENDOVER - RISK ASSESMENT RESULTS - STRUCTURES

Wendover City - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Facilities
FEMA_FloodZone	Community Resource	Ed_Kto12	2
FEMA_FloodZone	Community Resource	Ed_PreK	1
FEMA_FloodZone	Community Resource	PlaceofWorship	1
FEMA_FloodZone	Emergency Facility	MedicalFacility	2
FEMA_FloodZone	Government Facility	Post_Office	1
FEMA_FloodZone	Government Facility	Well	1
FEMA_FloodZone	Residential	Apartment	14
FEMA_FloodZone	Residential	Duplex	3
FEMA_FloodZone	Residential	Fourplex_Triplex	10
FEMA_FloodZone	Residential	Manufactured	12
FEMA_FloodZone	Residential	Res_MobileHome	27
FEMA_FloodZone	Residential	Residential	79
Flood_SoilsPurdue	Commercial	Commercial	137
Flood_SoilsPurdue	Community Resource	Museum	5
Flood_SoilsPurdue	Emergency Facility	FireStation	1
Flood_SoilsPurdue	Industrical	Industrial	1
Flood_SoilsPurdue	Residential	Apartment	1
Flood_SoilsPurdue	Residential	Duplex	1
Flood_SoilsPurdue	Residential	Manufactured	3
Flood_SoilsPurdue	Residential	Res_MobileHome	16
Flood_SoilsPurdue	Residential	Residential	1

5.6.4.2 WENDOVER - RISK ASSESMENT RESULTS - CRITICAL FACILITIES

Wendover City - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
DwellingsWithBasements	Community	ED_K12	1
DwellingsWithBasements	Community	PlaceofWorship	1
DwellingsWithBasements	Emegency	NationalShelterSystemFacility	1
DwellingsWithBasements	Emergency	FireStation	1
DwellingsWithBasements	Emergency	HealthCareFacility	2
DwellingsWithBasements	Other	Tower_ AntennaStructureRegistrate	6
DwellingsWithBasements	Other	Tower_Cellular	2
DwellingsWithBasements	Other	Tower_FMTransmission	1
DwellingsWithBasements	Other	Tower_ LandMobilePrivateTransmission	16
DwellingsWithBasements	Other	Tower_MicrowaveService	10
DwellingsWithBasements	Other	Tower_TVAnalog	5
DwellingsWithBasements	Recreation	Museum	1
DwellingsWithBasements	Transportation	Airport	2
DwellingsWithBasements	Transportation	Bridge_Road	3
DwellingsWithBasements	Water	Well_Log	18
DwellingsWithBasements	Water	Well_UndergroudInjectionControl	1
DwellingsWithoutBasements	Community	ED_K12	1
DwellingsWithoutBasements	Community	PlaceofWorship	1
DwellingsWithoutBasements	Emegency	NationalShelterSystemFacility	1
DwellingsWithoutBasements	Emergency	FireStation	1
DwellingsWithoutBasements	Emergency	HealthCareFacility	2
DwellingsWithoutBasements	Other	Tower_ AntennaStructureRegistrate	6
DwellingsWithoutBasements	Other	Tower_Cellular	2
DwellingsWithoutBasements	Other	Tower_FMTransmission	1
DwellingsWithoutBasements	Other	Tower_ LandMobilePrivateTransmission	16
DwellingsWithoutBasements	Other	Tower_MicrowaveService	10
DwellingsWithoutBasements	Other	Tower_TVAnalog	5

5.6.4.2 WENDOVER - RISK ASSESMENT RESULTS - CRITICAL FACILITIES

Wendover City - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
DwellingsWithoutBasements	Recreation	Museum	1
DwellingsWithoutBasements	Transportation	Airport	2
DwellingsWithoutBasements	Transportation	Bridge_Road	3
DwellingsWithoutBasements	Water	Well_Log	18
DwellingsWithoutBasements	Water	Well_UndergroudInjectionControl	1
Erosion_OffRoadTrail	Community	ED_K12	1
Erosion_OffRoadTrail	Community	PlaceofWorship	1
Erosion_OffRoadTrail	Emegency	NationalShelterSystemFacility	1
Erosion_OffRoadTrail	Emergency	HealthCareFacility	2
Erosion_OffRoadTrail	Other	Tower_ AntennaStructureRegistrate	4
Erosion_OffRoadTrail	Other	Tower_Cellular	2
Erosion_OffRoadTrail	Other	Tower_FMTransmission	1
Erosion_OffRoadTrail	Other	Tower_ LandMobilePrivateTransmission	11
Erosion_OffRoadTrail	Other	Tower_MicrowaveService	8
Erosion_OffRoadTrail	Other	Tower_TVAnalog	5
Erosion_OffRoadTrail	Transportation	Bridge_Road	2
Erosion_OffRoadTrail	Water	Well_Log	4
Erosion_RoadTrail	Community	ED_K12	1
Erosion_RoadTrail	Community	PlaceofWorship	1
Erosion_RoadTrail	Emegency	NationalShelterSystemFacility	1
Erosion_RoadTrail	Emergency	HealthCareFacility	2
Erosion_RoadTrail	Other	Tower_ AntennaStructureRegistrate	4
Erosion_RoadTrail	Other	Tower_Cellular	2
Erosion_RoadTrail	Other	Tower_FMTransmission	1
Erosion_RoadTrail	Other	Tower_ LandMobilePrivateTransmission	11
Erosion_RoadTrail	Other	Tower_MicrowaveService	8

5.6.4.2 WENDOVER - RISK ASSESMENT RESULTS - CRITICAL FACILITIES

Wendover City - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Erosion_RoadTrail	Other	Tower_TVAnalog	5
Erosion_RoadTrail	Transportation	Bridge_Road	2
Erosion_RoadTrail	Water	Well_Log	4
FEMA_FloodZone	Community	Ed_PreK	1
FEMA_FloodZone	Community	GroceryStore	1
FEMA_FloodZone	Community	PlaceofWorship	2
FEMA_FloodZone	Emergency	HealthCareFacility	2
FEMA_FloodZone	Government	PostOffice	1
FEMA_FloodZone	Transportation	Bridge_Road	2
FEMA_FloodZone	Water	Well_Log	7
Flood_SoilsPurdue	Emergency	FireStation	1
Flood_SoilsPurdue	Other	Tower_ AntennaStructureRegistrate	2
Flood_SoilsPurdue	Other	Tower_ LandMobilePrivateTransmission	3
Flood_SoilsPurdue	Other	Tower_MicrowaveService	2
Flood_SoilsPurdue	Recreation	Museum	1
Flood_SoilsPurdue	Transportation	Airport	2
Flood_SoilsPurdue	Transportation	Bridge_Road	1
Flood_SoilsPurdue	Water	Well_Log	10
Flood_Wetland/Riparian	Other	Tower_ LandMobilePrivateTransmission	1
SteepSlope	Other	Tower_ LandMobilePrivateTransmission	1

Wendover City - Risk Assessment - Critical Infrastructure Parcel Data					
Hazard	Infrastructure Category	Infrastructure Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
AvalanchTerrain	BLM	BLM	3	-	$-
AvalanchTerrain	Commercial	Commercial	6	251.8	$655,554.0
AvalanchTerrain	None	None	5	489.5	$1,000.0
AvalanchTerrain	SITLA	SITLA	1	-	$-
DwellingsWithBasements	BLM	BLM	3	-	$-
DwellingsWithBasements	Commercial	Commercial	87	1,519.3	$12,496,284.0
DwellingsWithBasements	DOD	DOD	1	-	$-
DwellingsWithBasements	Ed_Kto12	Community_Resources	1	0.3	$139,092.0
DwellingsWithBasements	Fire_Station/Emergency_Med	EmergencyServices	1	490.3	$500.0
DwellingsWithBasements	Health_Care	EmergencyServices	2	0.4	$214,272.0
DwellingsWithBasements	Manufacture_Industry	Other	2	63.7	$1,300,628.0
DwellingsWithBasements	None	None	35	973.8	$5,266,107.0
DwellingsWithBasements	PlaceofWorship	Community_Resources	1	2.6	$-
DwellingsWithBasements	Police Department/Local_Gov_Fac	EmergencyServices	1	0.5	$-
DwellingsWithBasements	Res_Munfacture_Mobile_Hookups	Residential	7	7.5	$953,540.0
DwellingsWithBasements	Residential	Residential	44	18.6	$3,857,437.0
DwellingsWithBasements	Residential_Commercial	Residential	3	6.4	$587,380.0
DwellingsWithBasements	Residential_MultiFamily	Residential	64	18.5	$8,082,525.0
DwellingsWithBasements	SITLA	SITLA	4	-	$-
Erosion_RoadTrail	BLM	BLM	3	-	$-
Erosion_RoadTrail	Commercial	Commercial	30	387.1	$9,401,048.0
Erosion_RoadTrail	Ed_Kto12	Community_Resources	1	0.3	$139,092.0
Erosion_RoadTrail	Health_Care	EmergencyServices	2	0.4	$214,272.0

5.6.4.3 WENDOVER | RISK ASSESMENT RESULTS | PARCEL DATA

Wendover City - Risk Assessment - Critical Infrastructure Parcel Data					
Hazard	Infrastructure Category	Infrastructure Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
Erosion_RoadTrail	Manufacture_Industry	Other	1	9.0	$393,955.0
Erosion_RoadTrail	None	None	16	524.3	$112,375.0
Erosion_RoadTrail	PlaceofWorship	Community_Resources	1	2.6	$-
Erosion_RoadTrail	Res_Munfacture_Mobile_Hookups	Residential	3	0.7	$390,871.0
Erosion_RoadTrail	Residential	Residential	43	18.5	$3,824,877.0
Erosion_RoadTrail	Residential_Commercial	Residential	2	4.8	$542,740.0
Erosion_RoadTrail	Residential_MultiFamily	Residential	12	10.8	$7,362,544.0
Erosion_RoadTrail	SITLA	SITLA	1	-	$-
FEMA_FloodZone	Commercial	Commercial	22	282.8	$8,232,297.0
FEMA_FloodZone	Ed_Kto12	Community_Resources	6	16.6	$139,592.0
FEMA_FloodZone	Health_Care	EmergencyServices	2	0.4	$214,272.0
FEMA_FloodZone	None	None	18	103.7	$4,743,856.0
FEMA_FloodZone	PlaceofWorship	Community_Resources	2	4.1	$-
FEMA_FloodZone	Post_Office	LocalGovernment	1	0.3	$205,194.0
FEMA_FloodZone	Res_Munfacture_Mobile_Hookups	Residential	36	6.9	$2,374,016.0
FEMA_FloodZone	Residential	Residential	86	18.9	$4,990,801.0
FEMA_FloodZone	Residential_Commercial	Residential	1	0.5	$417,991.0
FEMA_FloodZone	Residential_MultiFamily	Residential	21	14.5	$9,170,055.0
Flood_SoilsPurdue	Commercial	Commercial	58	1,130.3	$3,422,375.0
Flood_SoilsPurdue	DOD	DOD	1	-	$-
Flood_SoilsPurdue	Fire_Station/Emergency_Med	EmergencyServices	1	490.3	$500.0
Flood_SoilsPurdue	Manufacture_Industry	Other	2	63.7	$1,300,628.0

5.6.4.3 WENDOVER | RISK ASSESMENT RESULTS | PARCEL DATA

Wendover City - Risk Assessment - Critical Infrastructure Parcel Data					
Hazard	Infrastructure Category	Infrastructure Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
Flood_SoilsPurdue	None	None	21	568.8	$5,154,732.0
Flood_SoilsPurdue	Police Department/Local_Gov_Fac	EmergencyServices	1	0.5	$-
Flood_SoilsPurdue	Res_Munfacture_Mobile_Hookups	Residential	4	6.8	$562,669.0
Flood_SoilsPurdue	Residential	Residential	1	0.2	$32,560.0
Flood_SoilsPurdue	Residential_Commercial	Residential	2	5.9	$169,389.0
Flood_SoilsPurdue	Residential_MultiFamily	Residential	52	7.7	$719,981.0
Flood_SoilsPurdue	SITLA	SITLA	2	-	$-
Flood_Wetland_Riparian	BLM	BLM	2	-	$-
Flood_Wetland_Riparian	Commercial	Commercial	2	4.3	$-
Flood_Wetland_Riparian	None	None	9	1,753.9	$100,500.0
Flood_Wetland_Riparian	SITLA	SITLA	2	-	$-
SteepSlope	BLM	BLM	3	-	$-
SteepSlope	Commercial	Commercial	11	323.0	$6,485,210.0
SteepSlope	Manufacture_Industry	Other	1	9.0	$393,955.0
SteepSlope	None	None	6	504.7	$92,817.0
SteepSlope	Residential_Commercial	Residential	1	4.2	$124,749.0
SteepSlope	SITLA	SITLA	1	-	$-

5.6.4.4 WENDOVER | RISK ASSESMENT RESULTS | LINE DATA

Wendover City - Risk Assessment - Critical Infrastructure Line Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum Segment Length (Miles)
AvalanchTerrain	Natural	StreamRiver_Ephemeral	1	0.8
AvalanchTerrain	Transportation	Road	1	0.4
DwellingsWithBasements	Natural	StreamRiver_Ephemeral	25	4.2
DwellingsWithBasements	Transportation	Road	126	19.9
DwellingsWithBasements	Transportation	Road_A	23	8.2
DwellingsWithBasements	Transportation	Road_B	1	0.0
DwellingsWithBasements	Transportation	Road_C	26	3.7
DwellingsWithBasements	Transportation	Road_D	4	0.2
DwellingsWithBasements	Transportation	Road_X	1	0.5
DwellingsWithBasements	Water	Canal_ArtificialPath	2	0.1
DwellingsWithBasements	Water	Canal_Ditch	4	1.6
DwellingsWithBasements	Water	Connector	2	0.2
DwellingsWithBasements	Water	Pipeline_GeneralCase_Underground	2	0.9
Erosion_RoadTrail	Natural	StreamRiver_Ephemeral	4	1.8
Erosion_RoadTrail	Transportation	Road	28	6.9
Erosion_RoadTrail	Transportation	Road_A	9	3.1
Erosion_RoadTrail	Transportation	Road_C	14	1.1
Erosion_RoadTrail	Transportation	Road_D	4	0.2
Erosion_RoadTrail	Water	Connector	1	0.0
Erosion_RoadTrail	Water	Pipeline_GeneralCase_Underground	1	0.0
FEMA_FloodZone	Natural	StreamRiver_Ephemeral	1	0.1
FEMA_FloodZone	Transportation	Road	16	2.1

5.6.4.4 WENDOVER | RISK ASSESMENT RESULTS | LINE DATA

Wendover City - Risk Assessment - Critical Infrastructure Line Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum Segment Length (Miles)
FEMA_FloodZone	Transportation	Road_A	12	2.7
FEMA_FloodZone	Transportation	Road_C	71	4.4
FEMA_FloodZone	Water	Connector	2	0.2
Flood_SoilsPurdue	Natural	StreamRiver_Ephemeral	2	0.6
Flood_SoilsPurdue	Transportation	Road	85	8.2
Flood_SoilsPurdue	Transportation	Road_A	13	6.2
Flood_SoilsPurdue	Transportation	Road_C	12	2.6
Flood_SoilsPurdue	Water	Canal_Ditch	2	1.4
Flood_SoilsPurdue	Water	Connector	1	0.1
Flood_SoilsPurdue	Water	Pipeline_GeneralCase_Underground	1	0.8
Flood_Wetland_Riparian	Natural	StreamRiver_Ephemeral	3	1.7
Flood_Wetland_Riparian	Transportation	Road	5	2.6
Flood_Wetland_Riparian	Water	Canal_ArtificialPath	3	2.6
Flood_Wetland_Riparian	Water	Canal_Pond Ditch	1	0.9
Flood_Wetland_Riparian	Water	Connector	2	0.1
SteepSlope	Natural	StreamRiver_Ephemeral	1	0.8
SteepSlope	Transportation	Road	5	2.7
SteepSlope	Transportation	Road_A	5	2.6

5.6.4.5 WENDOVER | RISK ASSESMENT RESULTS | AREA DATA

Wendover City - Risk Assessment - Critical Infrastructure Areas Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum of Areas (Acres)
AvalanchTerrain	Agricultural	GrazingAllotment	1	73,094.5
AvalanchTerrain	Natural	Wetland	1	6.4
AvalanchTerrain	Water	RetailCulinaryWaterServiceArea	1	4,026.1
DwellingsWithBasements	Agricultural	GrazingAllotment	1	73,094.5
DwellingsWithBasements	Natural	LakePond_Perennial	1	0.1
DwellingsWithBasements	Natural	Reservoir_Treatment	3	22.3
DwellingsWithBasements	Natural	Wetland	8	314.5
DwellingsWithBasements	Transportation	Airport_WRAP	2	1,409.5
DwellingsWithBasements	Water	RetailCulinaryWaterServiceArea	1	4,026.1
Erosion_RoadTrail	Agricultural	GrazingAllotment	1	73,094.5
Erosion_RoadTrail	Natural	Wetland	2	19.3
Erosion_RoadTrail	Water	RetailCulinaryWaterServiceArea	1	4,026.1
FEMA_FloodZone	Agricultural	GrazingAllotment	1	73,094.5
FEMA_FloodZone	Water	RetailCulinaryWaterServiceArea	1	4,026.1
Flood_SoilsPurdue	Agricultural	GrazingAllotment	1	73,094.5
Flood_SoilsPurdue	Natural	LakePond_Perennial	1	0.1
Flood_SoilsPurdue	Natural	Reservoir_Treatment	1	13.3
Flood_SoilsPurdue	Natural	Wetland	3	25.6
Flood_SoilsPurdue	Transportation	Airport_WRAP	2	1,409.5
Flood_SoilsPurdue	Water	RetailCulinaryWaterServiceArea	1	4,026.1
Flood_Wetland_Riparian	Agricultural	GrazingAllotment	1	73,094.5
Flood_Wetland_Riparian	Natural	LakePond_Perennial	1	9.8

5.6.4.5 WENDOVER | RISK ASSESMENT RESULTS | AREA DATA

Wendover City - Risk Assessment - Critical Infrastructure Areas Data				
Hazard	Infrastructure Category	Infrastructure Type	# of Segments	Sum of Areas (Acres)
Flood_Wetland_Riparian	Natural	Reservoir_Evaporator	2	4,678.1
Flood_Wetland_Riparian	Natural	Reservoir_Treatment	6	35.1
Flood_Wetland_Riparian	Natural	Wetland	17	836.1
Flood_Wetland_Riparian	Transportation	Airport_WRAP	1	1,320.7
Flood_Wetland_Riparian	Water	RetailCulinaryWaterServiceArea	1	4,026.1
SteepSlope	Agricultural	GrazingAllotment	1	73,094.5
SteepSlope	Natural	Wetland	2	19.3
SteepSlope	Water	RetailCulinaryWaterServiceArea	1	4,026.1

5.6.5 WENDOVER - MITIGATION STRATAGIES

Wendover City did not create any mitigation strategies for this plan update.

5.7 UNICORPORATED TOOELE COUNTY

5.7.2 Unincorporated Tooele County - Future Development Risk

5.7.3 Unincorporated Tooele County - Hazards

1. Alluvial Fans
2. Avalanche Terrain
3. Debris Flow
4. Earthquake
5. Engineering Problem Soils
6. Erosion
7. Flood
8. Landslide
9. Steep Slope
10. Wildfire
11. Wildlife / Auto

5.7.4 Unincorporated Tooele County- Risk Assessment Results

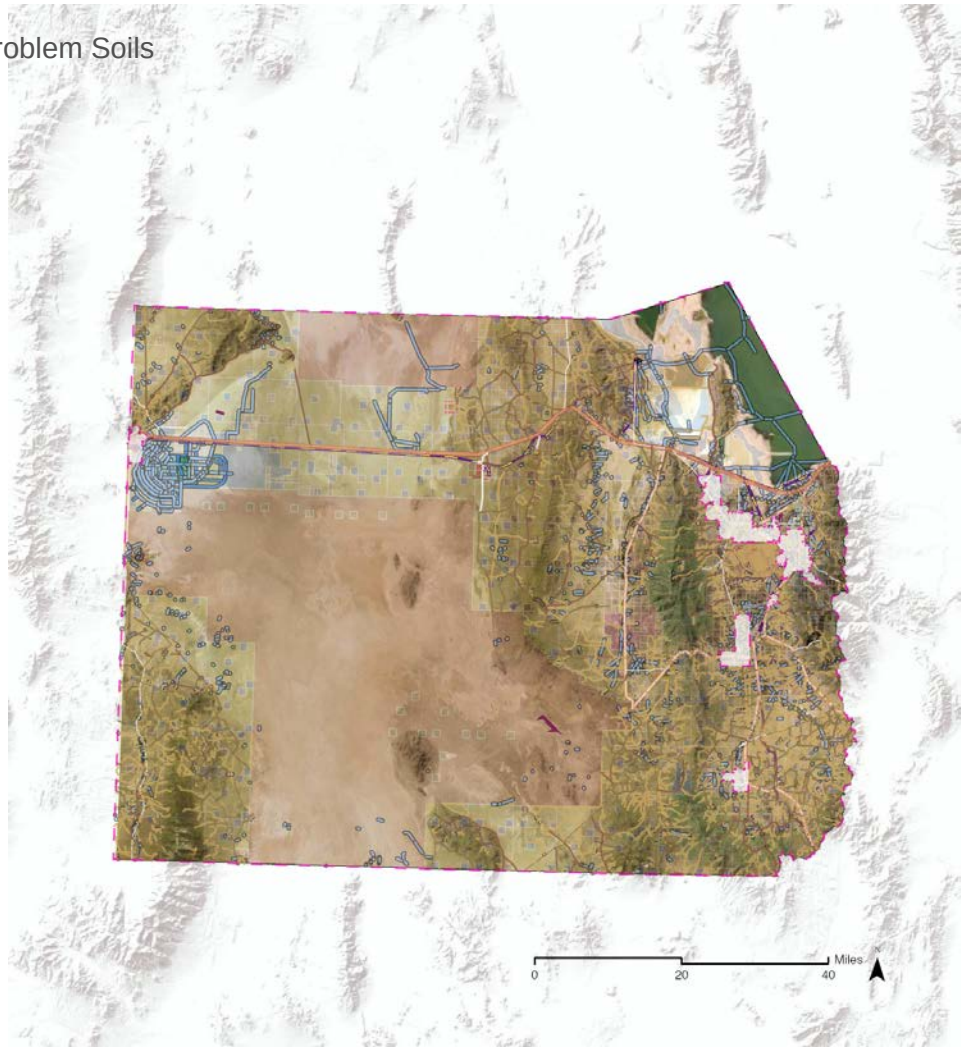
1. Building Footprints - Structures
2. Point Data - Features
3. Parcel Data
4. Line Data
5. Area Data

5.7.5 Unincorporated Tooele County- Mitigation Stratagies

1. **Stansbury Park**

Risk Summary

- Alluvial Fans
- Avalanche Terrain
- Debris Flow
- Earthquake
- Engineering Problem Soils
- Erosion
- Flood
- Landslide
- Steep Slope
- Wildfire
- Wildlife / Auto



Aerial map of Tooele County

5.7.2 UNICORPORATED TOOELE COUNTY - FUTURE DEVELOPMENT RISK

Future Development Risk

Erda
New Development is a proposed for around 1.000 homes on the east side of Erda between Lake Point and Pine Canyon. Additional developments have been proposed in the northwest side of Erda around the Mid Valley Highway. Each of these homes could potentially be affected by wildfire, landslides, and geologic hazards.

Lake Point
Two proposed developments are planned for this area. The east side of Erda between Lake Point and Pine Canyon is the first. The second is the north east side of the area which are in areas which are prone to be affected by flooding wildfire, landslides, and geologic hazards.

Dugway
No concerns involving potential future development within Dugway were reported by community representatives.

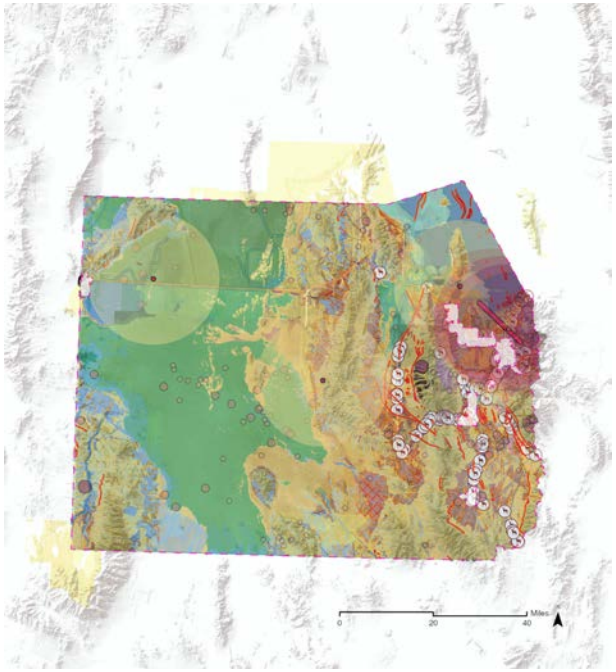
Ophir

Goshute
Future Development No concerns involving potential future development within the Goshute Reservation were reported by community representatives.

Pine Canyon
Currently, there is a proposed development of around 1.000 homes on the east side of Erda between Lake Point and Pine Canyon. These homes could potentially be affected by wildfire, landslides, and geologic hazards.

Skull Valley
No concerns involving potential future development within Skull Valley were reported by community representatives.

Stansbury Park
There is a new development planned in two areas of Stansbury Park. South of Bates Canyon and west of SR 36 in the Stansbury Park area. The second area is the Northwest side of Stansbury, specifically northwest of Village Blvd. This new development could potentially be susceptible to wildfire hazards, soil liquefaction during an earthquake, a high-water table and severe weather events.



HazType / Acres

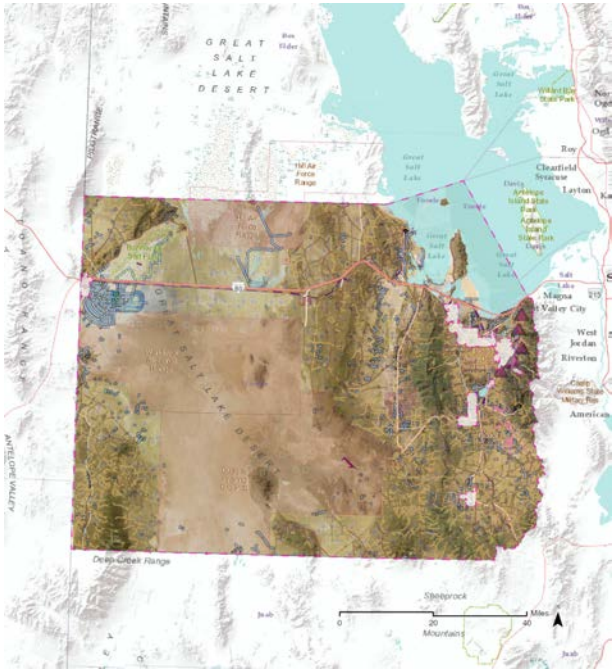
Alluvial Fan	6,685
AvalancheTerrain	233,042
Debris Flow	77,247
Engineering Problem Soils	344,194
DwellingsWithoutBasements	3,493,331
DwellingsWithBasements	3,493,331
Erosion_Off Road Trail	707,548
Erosion_Road Trail	1,513,044
Fault Hazard Zone	121,314
FEMA_Flood Zone	149
Flood_Dam Inundation	26,325
Flood_Great Salt Lake	263,587
Flood_Soils Purdue	164,050
Flood_USU Valley Bottom	10,775
Flood_Wetland & Riparian	1,710,231
Landslide	5,636
Liquefaction	63,246
Steep Slope	491,633
Wildfire Hazard Potential	1,358,999
Wildlife Auto	252

5.7.2 UNICORPORATED TOOELE COUNTY - FUTURE DEVELOPMENT RISK

Unicorportated Tooele County - Risk Summary						
Hazard Type	*Probability of Occurence*	*Population Impact*	*Property Impact*	*Econmic Impact*	*Future Development Impact*	*Overall Risk*
Alluvial Fans	Moderate	Low	Moderate	Low	High	Low
Avalanche Terrain	High	Low	Low	Low	Low	Low
Debris Flow	Moderate	Low	Moderate	Moderate	Moderate	Moderate
Earthquake	Low	High	High	High	Low	High
Engineering Problem Soils	Moderate	Low	Moderate	Moderate	Moderate	Moderate
Erosion	High	Low	High	High	Moderate	High
Flood	High	Moderate	High	High	Moderate	High
Landslide	Moderate	Low	High	Low	Low	Low
Steep Slope	High	Low	Low	Low	Low	Low
Wildfire	High	High	High	High	Moderate	High
Wildlife / Auto	High	Moderate	Moderate	Moderate	Low	Low

Alluvial Fan 6,685

Alluval fans in the county are located mostly in the eastern part of the county in the benches above Tooele City, Stockton, and Tooele Army Depot (South). Potential risks are high, particularly for residential areas east of Stansbury, north and east of Tooele, and north of Stockton. Since data is limited, there may also be other areas at risk not included in this analysis. Potential losses include 3 businesses, 1 church, 220 homes, 7 schools, 1 grocery store, 4 churches, and 80 miles of roads.



Alluvial Fans

5.7.3 UNICORPORATED TOOELE COUNTY - HAZARDS

Avalanche Terrain
233,042 AC

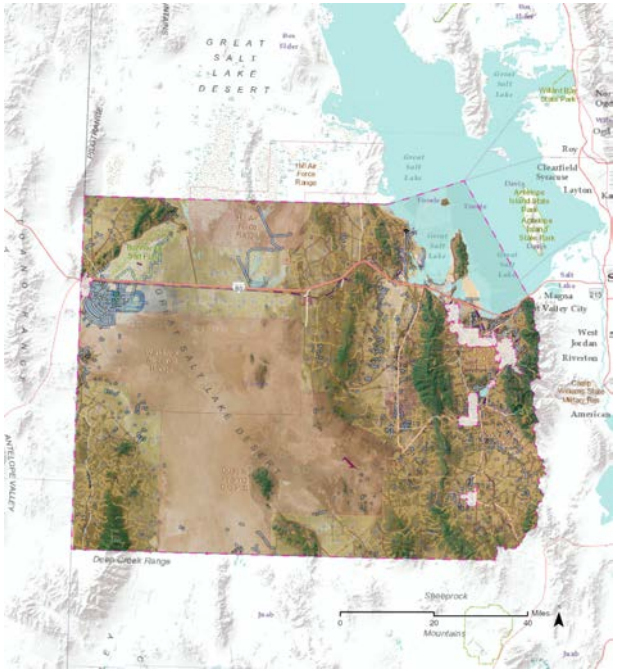
Avalanche terrain exists in most mountainous areas east of most of the developed areas of the county. The most likely risk is to those communities south of the Great Salt Lake, but the likelihood of those communities being directly impacted is low. Potential losses include 1 business, 4 homes, several transmission towers, 1 dam, over 100 miles or transmission lines, and several ground water protection zones.

Debris Flow 77,247 AC

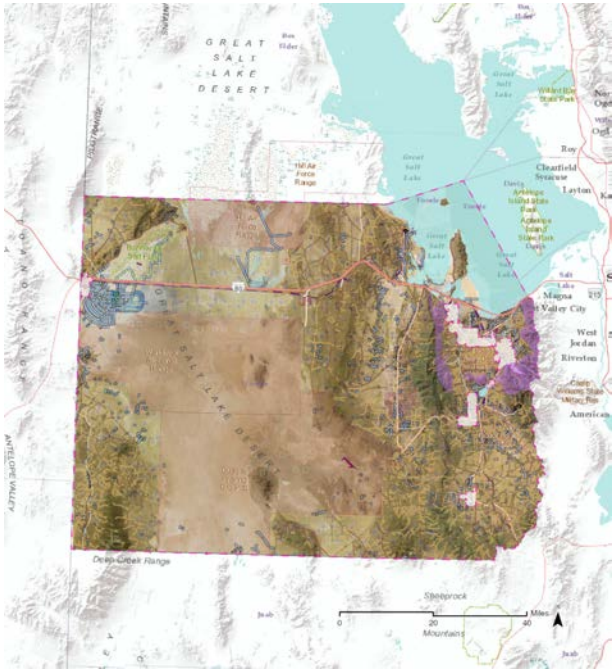
Debris flow data is limited in the county, but the areas that are mapped, primarily those around Tooele Valley, show risk mostly in steep areas above town. Any of these mountain ranges, given the right conditions, could have a high hazard for debris flows, particulary if wildfire occurs followed by high intensity rain events or intense snow melts. Potential losses include 1 busniess, 2 community centers, 17 homes, around 90 transmission towers, 90 miles of natural gas and petroleum lines, and thousands of acres of groundwater protection zones.

Engineering Problem Soils 344,194 AC
Dwellings Without Basements 3,493,331 AC
Dwellings With Basements 3,493,331 AC

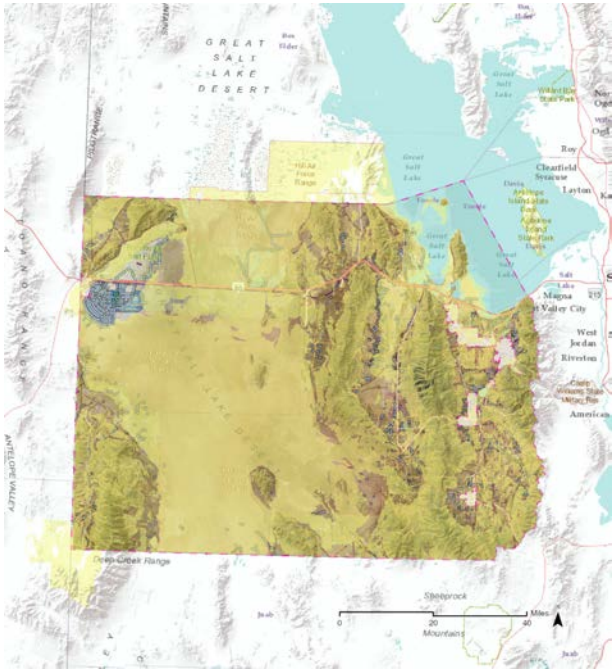
Most of the county is covered in soils that have some type of structural limitation. However, with modern construction and engineering standards, most structures are not at risk. Potential losses include virtually most of the roads, power lines, oil and gas lines, homes, businesses, community critical facilities, etc. However, no substantial damage is expected to these resources with the exception of areas with very steep slopes, landslide areas, or areas with high erosion risk.



Avalanche Terrain



Debris Flow Risk

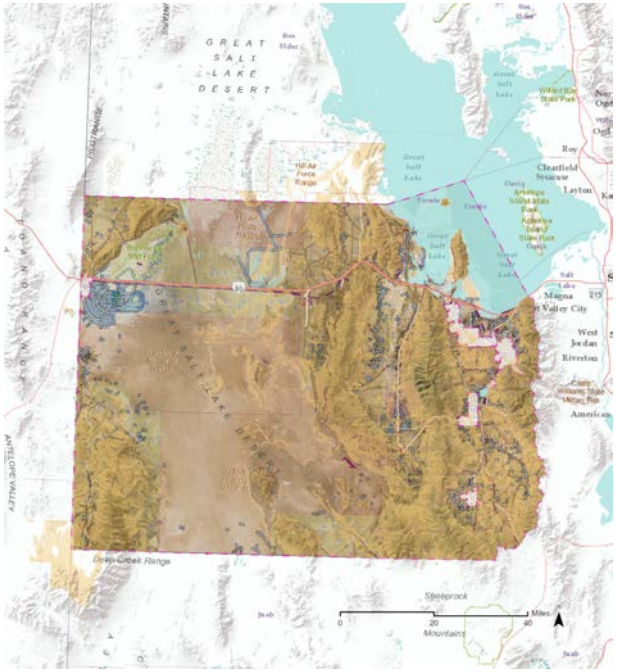


Problem Soils

5.7.3 UNICORPORATED TOOELE COUNTY - HAZARDS

Erosion_Off Road Trail 707,548 ac
Erosion_Road Trail 1,513,044 ac

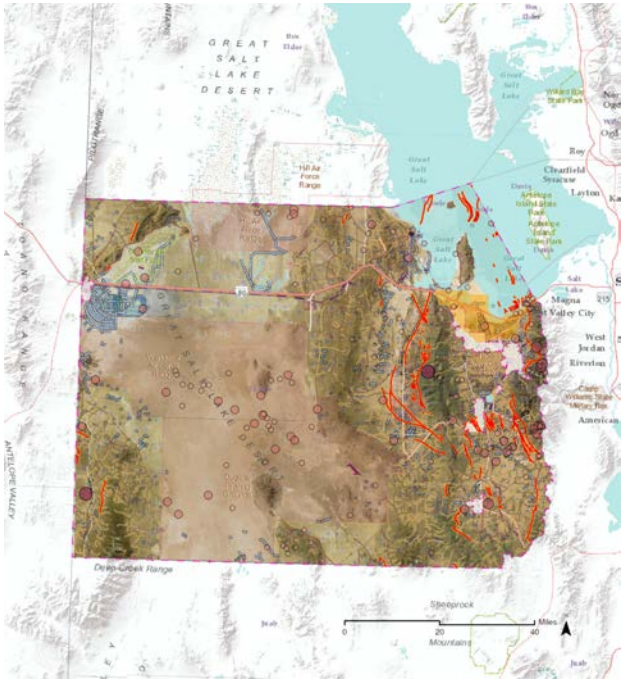
All higher elevation mountains and benches, have some level of limitations for roads or trails. Again, however, this is not an issue if infrastructure is properly designed and constructed according to modern standards. Erosion could impact around 60 businesses, 1 fire station, up to 1,000 homes, 1 church, over 160 transmission towers, 100's of miles of roads and power lines, and hundreds of thousands of acres of agricultural land, ground water protection areas, and natural areas.



Erosive Soils (Roads and Trails)

Fault Hazard Zone 121,314 ac
Liquefaction 63,246 ac

Geologic faults and liquefaction areas are prevelant in the eastern portions of the county. Quaternary faults exist east of Tooele City, Stockton, and Rush Valley, while liquefaction risk exists in and north of Grantsville. Potential losses could be high from each and could include 1,000's of homes, dozens of local businesses, many churces and schools, local parks and roads/bridges, and many, many acres of farmland and natural amenities.

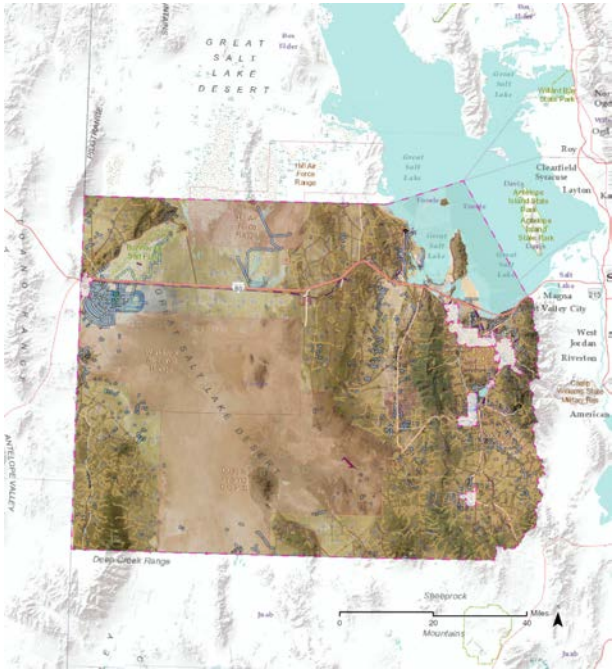


Quaternary Faults

1,500' buffer on Quaternary Faults

FEMA_Flood Zone 149 ac

Most potential losses in the FEMA flood zone are in incorporated areas. While few losses are expected in the county, most of the current risk is near Rush Valley. However, the Utah DEM is leading an effort to update the FEMA flood maps through the RiskMAP program. This will include much better floodplain data for the county. FEMA flood potential losses constist of 6 homes, 5 wells, 115 miles of transmission lines, 10 miles of roads, and tens of thousands of acres of grazing and farmlands, and natural areas.



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

5.7.3 UNICORPORATED TOOELE COUNTY - HAZARDS

Flood_Great Salt Lake	263,587 AC
Flood_Soils Purdue	164,050 AC
Flood_USU Valley Bottom	10,775 AC
Flood_Wetland & Riparian	1,710,231 AC

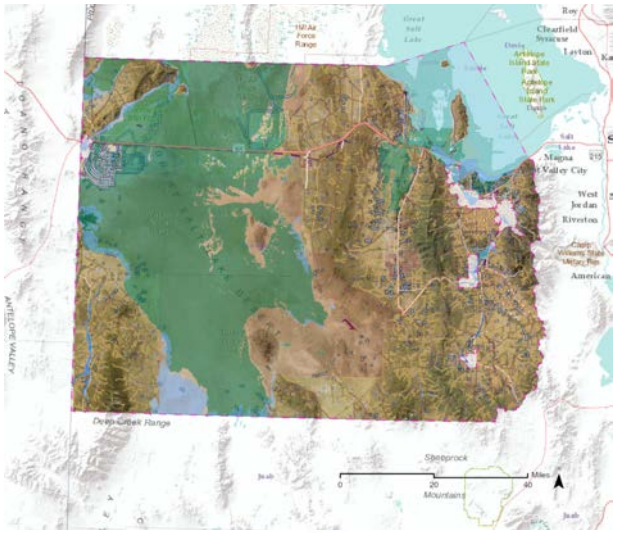
When adding additional flood layers to the risk analysis, risk increases exponentially for the county and local governments. Most low-lying areas, or areas with certain soil types are at risk for flooding. Many of these areas were likely historic Great Salt Lake beds and naturally become saturated when high precipitation events occur. In general, potential losses from all of these layers include dozens of homes, 12 businesses, sevaral churces and schools, several campgrounds, over 200 miles of transmission lines, over 100 miles of roads, and thousands of acreas of agriclutural lands.

Dam Inundation 26,325 AC

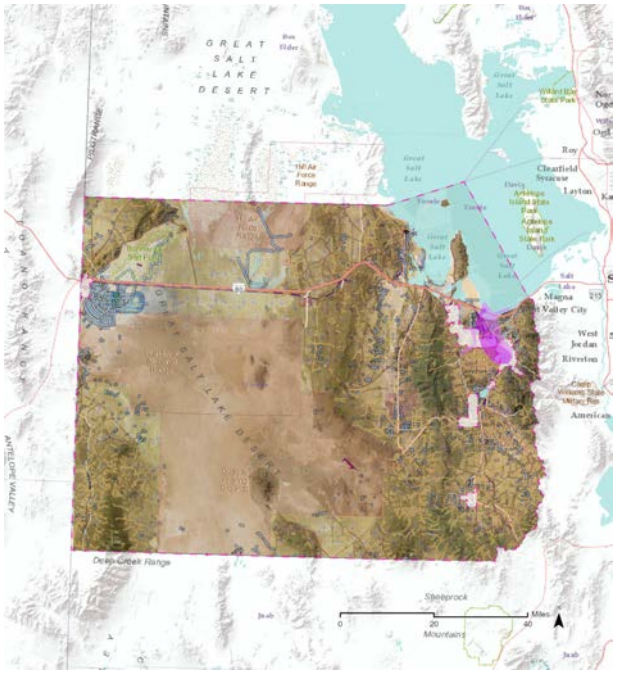
Large dam innundation areas exist in historic Great Salt Lake bottoms north and west of Tooele City, as well in and around Grantsville. Many potential losses could occur if various dams in the area break while at high capacity. Those losses could include 26 businesses, over 400 homes, 47 miles of transmission lines, over 100 miles of roads, and thousands of acres of agricultural lands.

Landslide 5,636 AC

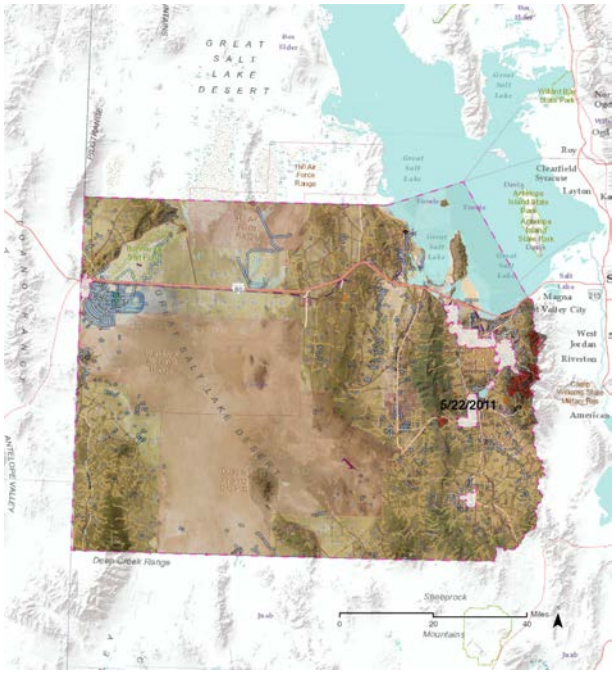
Landslides pose a very low risk for structures and infrastructure in the unincorporated county since they are mostly located in the higher elevations and mountains. However, potential losses could include 8 springs, 13 miles of transmission lines, 59 miles of petroleum lines, 25 miles of roads, and some source water protection areas.



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



Dam Innundation Risk



Landslide Hazard

5.7.3 UNICORPORATED TOOELE COUNTY - HAZARDS

Steep Slope 491,633 AC

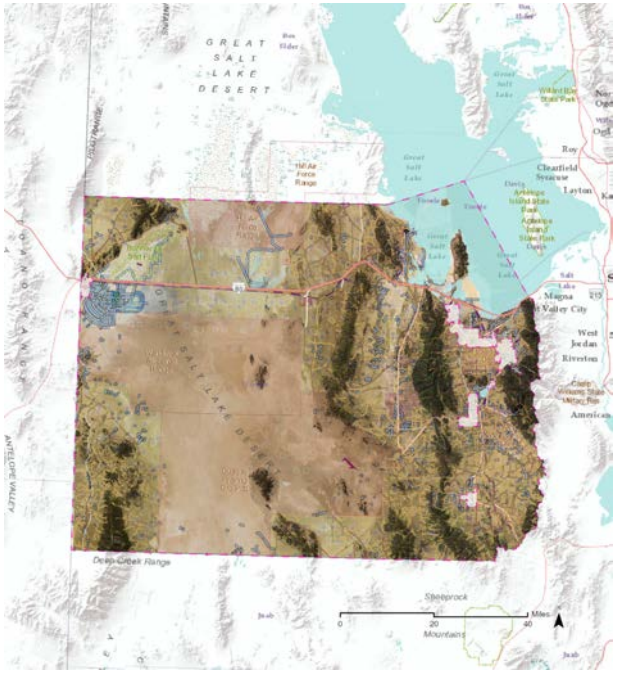
Direct potential losses from steep slopes in the county are negligible, since most development is located in lower elevations. However, pressure to develop higher on benches is likely. As such, it would be wise for the county to consider land use ordinances that prohibit growth in high sloped areas. Potential losses include 2 businesses, 9 homes, several radio towers, 222 miles of transmission lines, over 100 miles of gas/petroleum lines, hundreds of miles of roads, and many acres of natural and agricultural lands.

Wildfire Hazard Potential 1,358,999 AC

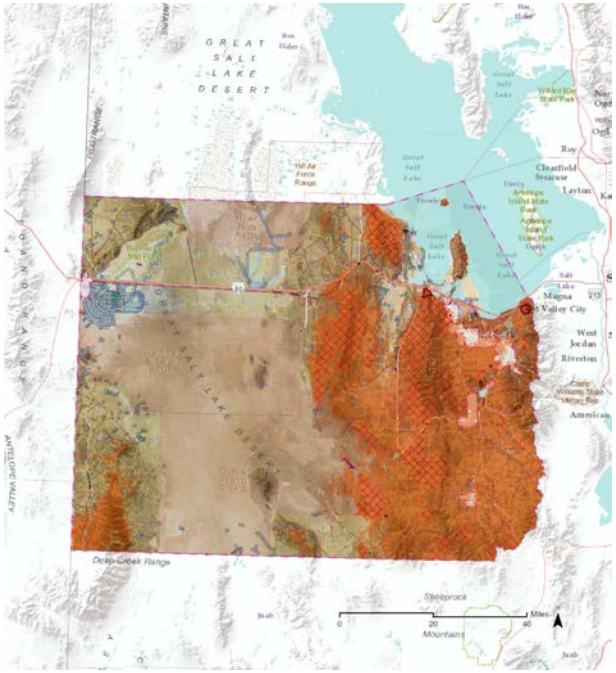
Wildfire is one of the most extensive hazards in Tooele County. With mountains, benches, and dry vegetated valley's, fire can spread quickly and impact local landowners, farmers, military operations, and other facilties. Risk is high during certain years and with certain conditions. Potential losses include 74 businesses, 11 schools 3 libraries, 11 fire stations, around 3,000 homes, hundreds of miles of transmission lines, roads, and other utilities, and hundreds of thousands of acres of grazing, farmland, and natural areas.

Wildlife Auto 252 AC

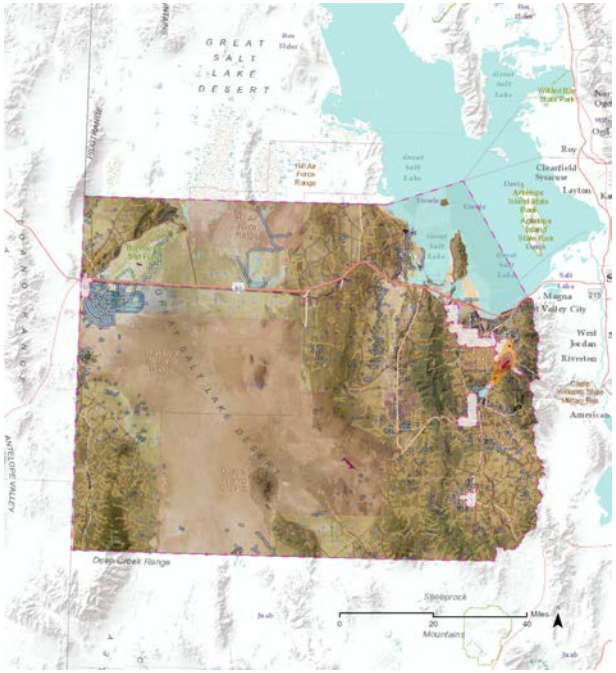
Wildlife-auto conflict areas in Tooele County are mostly located in and around Tooele City, as well as immidiately north and south of town. These areas are prime habitat and migration corridors for mostly mule deer. Risk will only increase with time as more homes and roads are constructed. Potential losses would be in the form of drivers injured, deer killed or injured, and vehicle damage/loss.



Steep Slopes >30%



Wildflire Hazard



Wildlife-Auto Conflict Risk Area

5.7.4.1 UNICORPORATED TOOELE COUNTY - RISK ASSESMENT RESULTS - STRUCTURES

Unicorporated Tooele County - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Structures
AlluvialFan	Commercial	Commercial	3
AlluvialFan	Community Resource	PlaceofWorship	1
AlluvialFan	Government Facility	LocalGov	1
AlluvialFan	Government Facility	Military	2
AlluvialFan	Industrical	Industrial	2
AlluvialFan	Other	Out	1
AlluvialFan	Residential	Duplex	2
AlluvialFan	Residential	Manufactured	9
AlluvialFan	Residential	Res_MobileHome	1
AlluvialFan	Residential	Residential	209
AvalanchTerrain	Commercial	Commercial	1
AvalanchTerrain	Community Resource	Community Center	3
AvalanchTerrain	Other	Out	2
AvalanchTerrain	Residential	Res_MobileHome	2
AvalanchTerrain	Residential	Res_Modular	1
AvalanchTerrain	Residential	Residential	4
DebrisFlow	Commercial	Commercial	1
DebrisFlow	Community Resource	Community Center	2
DebrisFlow	Other	Out	4
DebrisFlow	Residential	Manufactured	1
DebrisFlow	Residential	Res_MobileHome	1
DebrisFlow	Residential	Residential	15
DwellingsWithBasements	Commercial	Commercial	99
DwellingsWithBasements	Commercial	Grocery_Store	2
DwellingsWithBasements	Community Resource	Community Center	21
DwellingsWithBasements	Community Resource	Ed_Kto12	7
DwellingsWithBasements	Community Resource	Ed_PreK	4
DwellingsWithBasements	Community Resource	PlaceofWorship	6
DwellingsWithBasements	Emergency Facility	FireStation	7
DwellingsWithBasements	Government Facility	LocalGov	29
DwellingsWithBasements	Government Facility	Military	207

5.7.4.1 UNICORPORATED TOOELE COUNTY - RISK ASSESMENT RESULTS - STRUCTURES

Unicorporated Tooele County - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Structures
DwellingsWithBasements	Government Facility	Well	2
DwellingsWithBasements	Industrical	Industrial	217
DwellingsWithBasements	Industrical	Rail	9
DwellingsWithBasements	Other	Out	78
DwellingsWithBasements	Recreation Facility	HistoricSite	1
DwellingsWithBasements	Residential	Commercial_ Residential	24
DwellingsWithBasements	Residential	Condominium	14
DwellingsWithBasements	Residential	Duplex	5
DwellingsWithBasements	Residential	Manufactured	139
DwellingsWithBasements	Residential	Res_LowIncome	63
DwellingsWithBasements	Residential	Res_MobileHome	102
DwellingsWithBasements	Residential	Res_Modular	14
DwellingsWithBasements	Residential	Residential	3169
DwellingsWithoutBasements	Commercial	Commercial	99
DwellingsWithoutBasements	Commercial	Grocery_Store	2
DwellingsWithoutBasements	Community Resource	Community Center	21
DwellingsWithoutBasements	Community Resource	Ed_Kto12	7
DwellingsWithoutBasements	Community Resource	Ed_PreK	4
DwellingsWithoutBasements	Community Resource	PlaceofWorship	6
DwellingsWithoutBasements	Emergency Facility	FireStation	7
DwellingsWithoutBasements	Government Facility	LocalGov	29
DwellingsWithoutBasements	Government Facility	Military	207
DwellingsWithoutBasements	Government Facility	Well	2
DwellingsWithoutBasements	Industrical	Industrial	217
DwellingsWithoutBasements	Industrical	Rail	9
DwellingsWithoutBasements	Other	Out	78
DwellingsWithoutBasements	Recreation Facility	HistoricSite	1
DwellingsWithoutBasements	Residential	Commercial_ Residential	24
DwellingsWithoutBasements	Residential	Condominium	14

5.7.4.1 UNICORPORATED TOOELE COUNTY - RISK ASSESMENT RESULTS - STRUCTURES

Unicorporated Tooele County - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Structures
DwellingsWithoutBasements	Residential	Duplex	5
DwellingsWithoutBasements	Residential	Manufactured	139
DwellingsWithoutBasements	Residential	Res_LowIncome	63
DwellingsWithoutBasements	Residential	Res_MobileHome	102
DwellingsWithoutBasements	Residential	Res_Modular	14
DwellingsWithoutBasements	Residential	Residential	3169
Erosion_OffRoadTrail	Commercial	Commercial	5
Erosion_OffRoadTrail	Community Resource	Community Center	9
Erosion_OffRoadTrail	Emergency Facility	FireStation	1
Erosion_OffRoadTrail	Government Facility	LocalGov	3
Erosion_OffRoadTrail	Government Facility	Military	2
Erosion_OffRoadTrail	Government Facility	Well	1
Erosion_OffRoadTrail	Industrical	Industrial	20
Erosion_OffRoadTrail	Other	Out	10
Erosion_OffRoadTrail	Recreation Facility	HistoricSite	1
Erosion_OffRoadTrail	Residential	Commercial_ Residential	1
Erosion_OffRoadTrail	Residential	Res_MobileHome	12
Erosion_OffRoadTrail	Residential	Res_Modular	2
Erosion_OffRoadTrail	Residential	Residential	45
Erosion_RoadTrail	Commercial	Commercial	58
Erosion_RoadTrail	Commercial	Grocery_Store	2
Erosion_RoadTrail	Community Resource	Community Center	17
Erosion_RoadTrail	Community Resource	PlaceofWorship	1
Erosion_RoadTrail	Emergency Facility	FireStation	6
Erosion_RoadTrail	Government Facility	LocalGov	15
Erosion_RoadTrail	Government Facility	Military	174
Erosion_RoadTrail	Government Facility	Well	2
Erosion_RoadTrail	Industrical	Industrial	46
Erosion_RoadTrail	Industrical	Rail	2
Erosion_RoadTrail	Other	Out	38

5.7.4.1 UNICORPORATED TOOELE COUNTY - RISK ASSESMENT RESULTS - STRUCTURES

Unicorporated Tooele County - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Structures
Erosion_RoadTrail	Recreation Facility	HistoricSite	1
Erosion_RoadTrail	Residential	Commercial_ Residential	19
Erosion_RoadTrail	Residential	Condominium	12
Erosion_RoadTrail	Residential	Duplex	2
Erosion_RoadTrail	Residential	Manufactured	67
Erosion_RoadTrail	Residential	Res_LowIncome	29
Erosion_RoadTrail	Residential	Res_MobileHome	67
Erosion_RoadTrail	Residential	Res_Modular	11
Erosion_RoadTrail	Residential	Residential	756
FaultHazardZone	Commercial	Commercial	10
FaultHazardZone	Government Facility	LocalGov	3
FaultHazardZone	Government Facility	Military	8
FaultHazardZone	Government Facility	Well	1
FaultHazardZone	Industrical	Industrial	2
FaultHazardZone	Other	Out	13
FaultHazardZone	Residential	Commercial_ Residential	2
FaultHazardZone	Residential	Manufactured	17
FaultHazardZone	Residential	Res_MobileHome	7
FaultHazardZone	Residential	Residential	123
FEMA_FloodZone	Residential	Residential	6
Flood_DamInundation	Commercial	Commercial	26
Flood_DamInundation	Community Resource	PlaceofWorship	1
Flood_DamInundation	Emergency Facility	FireStation	1
Flood_DamInundation	Government Facility	LocalGov	2
Flood_DamInundation	Government Facility	Military	4
Flood_DamInundation	Industrical	Industrial	12
Flood_DamInundation	Other	Out	9
Flood_DamInundation	Residential	Duplex	2
Flood_DamInundation	Residential	Manufactured	47

5.7.4.1 UNICORPORATED TOOELE COUNTY - RISK ASSESMENT RESULTS - STRUCTURES

Unicorporated Tooele County - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Structures
Flood_DamInundation	Residential	Res_MobileHome	22
Flood_DamInundation	Residential	Residential	347
Flood_GSL	Industrical	Industrial	4
Flood_GSL	Industrical	Rail	1
Flood_SoilsPurdue	Commercial	Grocery_Store	1
Flood_SoilsPurdue	Community Resource	Community Center	1
Flood_SoilsPurdue	Community Resource	PlaceofWorship	1
Flood_SoilsPurdue	Industrical	Industrial	4
Flood_SoilsPurdue	Industrical	Rail	1
Flood_SoilsPurdue	Other	Out	15
Flood_SoilsPurdue	Residential	Commercial_ Residential	9
Flood_SoilsPurdue	Residential	Manufactured	10
Flood_SoilsPurdue	Residential	Residential	95
Flood_USUValleyBottom	Commercial	Grocery_Store	1
Flood_USUValleyBottom	Community Resource	Ed_Kto12	1
Flood_USUValleyBottom	Community Resource	PlaceofWorship	1
Flood_USUValleyBottom	Other	Out	8
Flood_USUValleyBottom	Residential	Commercial_ Residential	9
Flood_USUValleyBottom	Residential	Manufactured	4
Flood_USUValleyBottom	Residential	Res_MobileHome	10
Flood_USUValleyBottom	Residential	Residential	32
Flood_Wetland/Riparian	Commercial	Commercial	12
Flood_Wetland/Riparian	Community Resource	Community Center	1
Flood_Wetland/Riparian	Community Resource	PlaceofWorship	1
Flood_Wetland/Riparian	Government Facility	LocalGov	4
Flood_Wetland/Riparian	Government Facility	Military	3
Flood_Wetland/Riparian	Industrical	Industrial	3
Flood_Wetland/Riparian	Industrical	Rail	4
Flood_Wetland/Riparian	Other	Out	5

5.7.4.1 UNICORPORATED TOOELE COUNTY - RISK ASSESMENT RESULTS - STRUCTURES

Unicorporated Tooele County - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Structures
Flood_Wetland/Riparian	Residential	Commercial_Residential	1
Flood_Wetland/Riparian	Residential	Condominium	5
Flood_Wetland/Riparian	Residential	Duplex	1
Flood_Wetland/Riparian	Residential	Fourplex_Triplex	1
Flood_Wetland/Riparian	Residential	Manufactured	2
Flood_Wetland/Riparian	Residential	Res_LowIncome	2
Flood_Wetland/Riparian	Residential	Res_MobileHome	1
Flood_Wetland/Riparian	Residential	Residential	247
Liquefaction	Commercial	Commercial	84
Liquefaction	Commercial	Grocery_Store	1
Liquefaction	Community Resource	Community Center	3
Liquefaction	Community Resource	Ed_Kto12	9
Liquefaction	Community Resource	Ed_PreK	5
Liquefaction	Community Resource	PlaceofWorship	7
Liquefaction	Emergency Facility	FireStation	1
Liquefaction	Emergency Facility	MedicalFacility_Grocery_Store	1
Liquefaction	Government Facility	LocalGov	23
Liquefaction	Industrical	Industrial	30
Liquefaction	Industrical	Rail	1
Liquefaction	Other	Out	16
Liquefaction	Residential	Commercial_Residential	11
Liquefaction	Residential	Condominium	52
Liquefaction	Residential	Duplex	4
Liquefaction	Residential	Manufactured	70
Liquefaction	Residential	Res_LowIncome	63
Liquefaction	Residential	Res_MobileHome	60
Liquefaction	Residential	Res_Modular	6
Liquefaction	Residential	Residential	3405
Liquefaction	Transportation Facility	Parking	3
Wildfire	Commercial	Commercial	74
Wildfire	Community Resource	Community Center	18
Wildfire	Community Resource	Ed_Kto12	10

5.7.4.1 UNICORPORATED TOOELE COUNTY - RISK ASSESMENT RESULTS - STRUCTURES

Unicorporated Tooele County - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Structures
Wildfire	Community Resource	Ed_PreK	1
Wildfire	Community Resource	Library	3
Wildfire	Community Resource	PlaceofWorship	3
Wildfire	Emergency Facility	FireStation	11
Wildfire	Emergency Facility	Police	1
Wildfire	Government Facility	LocalGov	31
Wildfire	Government Facility	Military	430
Wildfire	Government Facility	Well	3
Wildfire	Industrical	Industrial	118
Wildfire	Industrical	Rail	1
Wildfire	Other	Out	96
Wildfire	Recreation Facility	HistoricSite	1
Wildfire	Residential	Commercial_Residential	20
Wildfire	Residential	Condominium	30
Wildfire	Residential	Duplex	8
Wildfire	Residential	Fourplex_Triplex	9
Wildfire	Residential	Manufactured	166
Wildfire	Residential	Res_LowIncome	40
Wildfire	Residential	Res_MobileHome	54
Wildfire	Residential	Res_Modular	9
Wildfire	Residential	Residential	2708
Wildfire	Transportation Facility	Parking	3
SGID_EngineeringPS	Commercial	Commercial	4
SGID_EngineeringPS	Community Resource	Community Center	8
SGID_EngineeringPS	Emergency Facility	FireStation	5
SGID_EngineeringPS	Government Facility	Military	26
SGID_EngineeringPS	Industrical	Industrial	16
SGID_EngineeringPS	Industrical	Rail	2
SGID_EngineeringPS	Other	Out	4
SGID_EngineeringPS	Recreation Facility	HistoricSite	1
SGID_EngineeringPS	Residential	Commercial_Residential	1
SGID_EngineeringPS	Residential	Manufactured	2
SGID_EngineeringPS	Residential	Res_MobileHome	9
SGID_EngineeringPS	Residential	Residential	90
SteepSlope	Commercial	Commercial	2

Unicorporated Tooele County - Building Footprint - Potential Loss Table			
Hazard	Category	Type	# of Structures
SteepSlope	Community Resource	Community Center	3
SteepSlope	Industrical	Industrial	3
SteepSlope	Other	Out	5
SteepSlope	Residential	Res_MobileHome	1
SteepSlope	Residential	Res_Modular	1
SteepSlope	Residential	Residential	7

5.7.4.2 UNICORPORATED TOOELE COUNTY - RISK ASSESMENT RESULTS - CRITICAL FACILITIES

Unicorporated Tooele County - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
AlluvialFan	Community	PlaceofWorship	1
AlluvialFan	Energy	SubstationRegulator	2
AlluvialFan	Water	Dam	1
AlluvialFan	Water	Well_Log	45
AvalanchTerrain	Natural	SpringSeep	24
AvalanchTerrain	Other	Tower_ AntennaStructureRegistrate	1
AvalanchTerrain	Other	Tower_Cellular	1
AvalanchTerrain	Other	Tower_ LandMobileCommerTrans	1
AvalanchTerrain	Other	Tower_ LandMobilePrivateTransmission	13
AvalanchTerrain	Other	Tower_MicrowaveService	9
AvalanchTerrain	Recreation	Campground	1
AvalanchTerrain	Recreation	HistoricSites	4
AvalanchTerrain	Recreation	StateParks	1
AvalanchTerrain	Water	Dam	1
AvalanchTerrain	Water	Well_Log	17
DebrisFlow	Natural	SpringSeep	34
DebrisFlow	Other	Tower_ AntennaStructureRegistrate	2
DebrisFlow	Other	Tower_Cellular	2
DebrisFlow	Other	Tower_FMTransmission	2
DebrisFlow	Other	Tower_LandMobileBroadcast	3
DebrisFlow	Other	Tower_ LandMobileCommerTrans	1
DebrisFlow	Other	Tower_ LandMobilePrivateTransmission	21
DebrisFlow	Other	Tower_MicrowaveService	56
DebrisFlow	Other	Tower_TVDigital	1
DebrisFlow	Recreation	Campground	5
DebrisFlow	Recreation	HistoricSites	2
DebrisFlow	Recreation	Trailhead	2
DebrisFlow	Water	Well_Log	59
DwellingsWithBasements	Community	Cemetery	6

Unicorporated Tooele County - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
DwellingsWithBasements	Community	ED_K12	3
DwellingsWithBasements	Community	Ed_PreK	4
DwellingsWithBasements	Community	GroceryStore	2
DwellingsWithBasements	Community	PlaceofWorship	4
DwellingsWithBasements	Emergency	FireStation	5
DwellingsWithBasements	Emergency	NationalShelterSystemFacility	2
DwellingsWithBasements	Energy	FuelStation_AlternativeEnergy	4
DwellingsWithBasements	Energy	FuelStation_Gas	7
DwellingsWithBasements	Energy	PowerGeneratingFacilities	1
DwellingsWithBasements	Energy	SubstationRegulator	15
DwellingsWithBasements	Energy	Well_OilGas	24
DwellingsWithBasements	Government	Military	1
DwellingsWithBasements	Natural	SpringSeep	423
DwellingsWithBasements	Other	Mine_CrushedStone	2
DwellingsWithBasements	Other	Mine_Lime	1
DwellingsWithBasements	Other	Mine_Salt	1
DwellingsWithBasements	Other	ProcessingPlant_ NonferrousMetal	1
DwellingsWithBasements	Other	SolidWaisteFacility	3
DwellingsWithBasements	Other	Tower_ AntennaStructureRegistrate	14
DwellingsWithBasements	Other	Tower_Cellular	9
DwellingsWithBasements	Other	Tower_FMTransmission	4
DwellingsWithBasements	Other	Tower_LandMobileBroadcast	3
DwellingsWithBasements	Other	Tower_ LandMobileCommerTrans	1
DwellingsWithBasements	Other	Tower_ LandMobilePrivateTransmission	88
DwellingsWithBasements	Other	Tower_MicrowaveService	138
DwellingsWithBasements	Other	Tower_PagingTrans	3
DwellingsWithBasements	Other	Tower_TVDigital	10
DwellingsWithBasements	Recreation	Campground	16
DwellingsWithBasements	Recreation	CommunityCenter	2
DwellingsWithBasements	Recreation	GolfCourse	1

5.7.4.2 UNICORPORATED TOOELE COUNTY - RISK ASSESMENT RESULTS - CRITICAL FACILITIES

Unicorporated Tooele County - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
DwellingsWithBasements	Recreation	HistoricSites	34
DwellingsWithBasements	Recreation	Park	13
DwellingsWithBasements	Recreation	StateParks	1
DwellingsWithBasements	Recreation	Trailhead	8
DwellingsWithBasements	Transportation	Airport	4
DwellingsWithBasements	Transportation	Bridge_Rail	14
DwellingsWithBasements	Transportation	Bridge_Road	20
DwellingsWithBasements	Transportation	BusStopsWasatchFront	3
DwellingsWithBasements	Transportation	Heliport	2
DwellingsWithBasements	Transportation	PortofEntry	1
DwellingsWithBasements	Water	Dam	12
DwellingsWithBasements	Water	Well_Log	1890
DwellingsWithBasements	Water	Well_NHD	101
DwellingsWithoutBasements	Community	Cemetery	6
DwellingsWithoutBasements	Community	ED_K12	3
DwellingsWithoutBasements	Community	Ed_PreK	4
DwellingsWithoutBasements	Community	GroceryStore	2
DwellingsWithoutBasements	Community	PlaceofWorship	4
DwellingsWithoutBasements	Emergency	FireStation	5
DwellingsWithoutBasements	Emergency	NationalShelterSystemFacility	2
DwellingsWithoutBasements	Energy	FuelStation_AlternativeEnergy	4
DwellingsWithoutBasements	Energy	FuelStation_Gas	7
DwellingsWithoutBasements	Energy	PowerGeneratingFacilities	1
DwellingsWithoutBasements	Energy	SubstationRegulator	15
DwellingsWithoutBasements	Energy	Well_OilGas	24
DwellingsWithoutBasements	Government	Military	1
DwellingsWithoutBasements	Natural	SpringSeep	423
DwellingsWithoutBasements	Other	Mine_CrushedStone	2
DwellingsWithoutBasements	Other	Mine_Lime	1
DwellingsWithoutBasements	Other	Mine_Salt	1
DwellingsWithoutBasements	Other	ProcessingPlant_ NonferrousMetal	1
DwellingsWithoutBasements	Other	SolidWaisteFacility	3

Unicorporated Tooele County - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
DwellingsWithoutBasements	Other	Tower_ AntennaStructureRegistrate	14
DwellingsWithoutBasements	Other	Tower_Cellular	9
DwellingsWithoutBasements	Other	Tower_FMTransmission	4
DwellingsWithoutBasements	Other	Tower_LandMobileBroadcast	3
DwellingsWithoutBasements	Other	Tower_ LandMobileCommerTrans	1
DwellingsWithoutBasements	Other	Tower_ LandMobilePrivateTransmission	88
DwellingsWithoutBasements	Other	Tower_MicrowaveService	138
DwellingsWithoutBasements	Other	Tower_PagingTrans	3
DwellingsWithoutBasements	Other	Tower_TVDigital	10
DwellingsWithoutBasements	Recreation	Campground	16
DwellingsWithoutBasements	Recreation	CommunityCenter	2
DwellingsWithoutBasements	Recreation	GolfCourse	1
DwellingsWithoutBasements	Recreation	HistoricSites	34
DwellingsWithoutBasements	Recreation	Park	13
DwellingsWithoutBasements	Recreation	StateParks	1
DwellingsWithoutBasements	Recreation	Trailhead	8
DwellingsWithoutBasements	Transportation	Airport	4
DwellingsWithoutBasements	Transportation	Bridge_Rail	14
DwellingsWithoutBasements	Transportation	Bridge_Road	20
DwellingsWithoutBasements	Transportation	BusStopsWasatchFront	3
DwellingsWithoutBasements	Transportation	Heliport	2
DwellingsWithoutBasements	Transportation	PortofEntry	1
DwellingsWithoutBasements	Water	Dam	12
DwellingsWithoutBasements	Water	Well_Log	1890
DwellingsWithoutBasements	Water	Well_NHD	101
Erosion_OffRoadTrail	Community	Cemetery	3
Erosion_OffRoadTrail	Emergency	FireStation	1
Erosion_OffRoadTrail	Energy	SubstationRegulator	2
Erosion_OffRoadTrail	Natural	SpringSeep	157
Erosion_OffRoadTrail	Other	SolidWaisteFacility	1
Erosion_OffRoadTrail	Other	Tower_ AntennaStructureRegistrate	5

5.7.4.2 UNICORPORATED TOOELE COUNTY - RISK ASSESMENT RESULTS - CRITICAL FACILITIES

Unicorporated Tooele County - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Erosion_OffRoadTrail	Other	Tower_Cellular	6
Erosion_OffRoadTrail	Other	Tower_FMTransmission	4
Erosion_OffRoadTrail	Other	Tower_LandMobileBroadcast	3
Erosion_OffRoadTrail	Other	Tower_ LandMobileCommerTrans	1
Erosion_OffRoadTrail	Other	Tower_ LandMobilePrivateTransmission	53
Erosion_OffRoadTrail	Other	Tower_MicrowaveService	100
Erosion_OffRoadTrail	Other	Tower_PagingTrans	1
Erosion_OffRoadTrail	Other	Tower_TVDigital	10
Erosion_OffRoadTrail	Recreation	Campground	10
Erosion_OffRoadTrail	Recreation	CommunityCenter	1
Erosion_OffRoadTrail	Recreation	HistoricSites	13
Erosion_OffRoadTrail	Recreation	StateParks	1
Erosion_OffRoadTrail	Recreation	Trailhead	5
Erosion_OffRoadTrail	Transportation	Bridge_Rail	1
Erosion_OffRoadTrail	Transportation	Bridge_Road	1
Erosion_OffRoadTrail	Water	Dam	3
Erosion_OffRoadTrail	Water	Well_Log	163
Erosion_OffRoadTrail	Water	Well_NHD	1
Erosion_RoadTrail	Community	Cemetery	6
Erosion_RoadTrail	Community	GroceryStore	2
Erosion_RoadTrail	Community	PlaceofWorship	1
Erosion_RoadTrail	Emergency	FireStation	3
Erosion_RoadTrail	Energy	FuelStation_AlternativeEnergy	4
Erosion_RoadTrail	Energy	FuelStation_Gas	5
Erosion_RoadTrail	Energy	SubstationRegulator	8
Erosion_RoadTrail	Energy	Well_OilGas	9
Erosion_RoadTrail	Government	Military	1
Erosion_RoadTrail	Natural	SpringSeep	243
Erosion_RoadTrail	Other	Mine_CrushedStone	2
Erosion_RoadTrail	Other	SolidWaisteFacility	1
Erosion_RoadTrail	Other	Tower_ AntennaStructureRegistrate	5

Unicorporated Tooele County - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Erosion_RoadTrail	Other	Tower_Cellular	6
Erosion_RoadTrail	Other	Tower_FMTransmission	4
Erosion_RoadTrail	Other	Tower_LandMobileBroadcast	3
Erosion_RoadTrail	Other	Tower_ LandMobileCommerTrans	1
Erosion_RoadTrail	Other	Tower_ LandMobilePrivateTransmission	64
Erosion_RoadTrail	Other	Tower_MicrowaveService	116
Erosion_RoadTrail	Other	Tower_PagingTrans	2
Erosion_RoadTrail	Other	Tower_TVDigital	10
Erosion_RoadTrail	Recreation	Campground	14
Erosion_RoadTrail	Recreation	CommunityCenter	2
Erosion_RoadTrail	Recreation	HistoricSites	28
Erosion_RoadTrail	Recreation	Park	1
Erosion_RoadTrail	Recreation	StateParks	1
Erosion_RoadTrail	Recreation	Trailhead	8
Erosion_RoadTrail	Transportation	Bridge_Rail	8
Erosion_RoadTrail	Transportation	Bridge_Road	6
Erosion_RoadTrail	Transportation	BusStopsWasatchFront	2
Erosion_RoadTrail	Transportation	Heliport	2
Erosion_RoadTrail	Water	Dam	11
Erosion_RoadTrail	Water	Well_Log	612
Erosion_RoadTrail	Water	Well_NHD	22
FaultHazardZone	Community	Cemetery	2
FaultHazardZone	Energy	SubstationRegulator	3
FaultHazardZone	Energy	Well_OilGas	2
FaultHazardZone	Natural	SpringSeep	39
FaultHazardZone	Other	SolidWaisteFacility	1
FaultHazardZone	Other	Tower_ LandMobilePrivateTransmission	5
FaultHazardZone	Other	Tower_MicrowaveService	6
FaultHazardZone	Recreation	Campground	1
FaultHazardZone	Recreation	HistoricSites	3
FaultHazardZone	Recreation	Trailhead	1

5.7.4.2 UNICORPORATED TOOELE COUNTY - RISK ASSESMENT RESULTS - CRITICAL FACILITIES

Unicorporated Tooele County - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
FaultHazardZone	Transportation	Bridge_Rail	1
FaultHazardZone	Transportation	Bridge_Road	2
FaultHazardZone	Water	Dam	2
FaultHazardZone	Water	Well_Log	186
FaultHazardZone	Water	Well_NHD	12
FEMA_FloodZone	Water	Well_Log	4
FEMA_FloodZone	Water	Well_NHD	1
Flood_DamInundation	Community	PlaceofWorship	1
Flood_DamInundation	Emergency	FireStation	1
Flood_DamInundation	Emergency	NationalShelterSystemFacility	1
Flood_DamInundation	Energy	SubstationRegulator	1
Flood_DamInundation	Energy	Well_OilGas	5
Flood_DamInundation	Other	Mine_Salt	1
Flood_DamInundation	Other	Tower_ AntennaStructureRegistrate	2
Flood_DamInundation	Other	Tower_ LandMobilePrivateTransmission	4
Flood_DamInundation	Other	Tower_MicrowaveService	1
Flood_DamInundation	Transportation	Airport	2
Flood_DamInundation	Water	Dam	2
Flood_DamInundation	Water	Well_Log	611
Flood_DamInundation	Water	Well_NHD	20
Flood_GSL	Energy	Well_OilGas	5
Flood_GSL	Natural	SpringSeep	13
Flood_GSL	Other	Tower_ LandMobilePrivateTransmission	3
Flood_GSL	Other	Tower_MicrowaveService	3
Flood_GSL	Recreation	HistoricSites	2
Flood_GSL	Transportation	Bridge_Rail	1
Flood_GSL	Transportation	Bridge_Road	5
Flood_GSL	Water	Dam	1
Flood_GSL	Water	Well_Log	9
Flood_GSL	Water	Well_NHD	1
Flood_SoilsPurdue	Community	GroceryStore	1

Unicorporated Tooele County - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Flood_SoilsPurdue	Community	PlaceofWorship	1
Flood_SoilsPurdue	Energy	Well_OilGas	1
Flood_SoilsPurdue	Natural	SpringSeep	142
Flood_SoilsPurdue	Other	Mine_Lime	1
Flood_SoilsPurdue	Other	Mine_Salt	1
Flood_SoilsPurdue	Other	Tower_ LandMobilePrivateTransmission	5
Flood_SoilsPurdue	Other	Tower_MicrowaveService	3
Flood_SoilsPurdue	Recreation	Campground	2
Flood_SoilsPurdue	Recreation	HistoricSites	1
Flood_SoilsPurdue	Transportation	Bridge_Rail	4
Flood_SoilsPurdue	Transportation	Bridge_Road	4
Flood_SoilsPurdue	Water	Dam	2
Flood_SoilsPurdue	Water	Well_Log	64
Flood_SoilsPurdue	Water	Well_NHD	42
Flood_USUValleyBottom	Community	Cemetery	1
Flood_USUValleyBottom	Community	ED_K12	1
Flood_USUValleyBottom	Community	GroceryStore	1
Flood_USUValleyBottom	Community	PlaceofWorship	1
Flood_USUValleyBottom	Emergency	FireStation	1
Flood_USUValleyBottom	Energy	Well_OilGas	1
Flood_USUValleyBottom	Natural	SpringSeep	81
Flood_USUValleyBottom	Other	SolidWaisteFacility	1
Flood_USUValleyBottom	Recreation	Campground	3
Flood_USUValleyBottom	Recreation	HistoricSites	1
Flood_USUValleyBottom	Water	Dam	1
Flood_USUValleyBottom	Water	Well_Log	33
Flood_USUValleyBottom	Water	Well_NHD	6
Flood_Wetland/Riparian	Emergency	NationalShelterSystemFacility	1
Flood_Wetland/Riparian	Energy	FuelStation_AlternativeEnergy	2
Flood_Wetland/Riparian	Energy	SubstationRegulator	2
Flood_Wetland/Riparian	Energy	Well_OilGas	7
Flood_Wetland/Riparian	Natural	SpringSeep	322

5.7.4.2 UNICORPORATED TOOELE COUNTY - RISK ASSESMENT RESULTS - CRITICAL FACILITIES

Unicorporated Tooele County - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Flood_Wetland/Riparian	Other	Mine_Lime	1
Flood_Wetland/Riparian	Other	Mine_Salt	1
Flood_Wetland/Riparian	Other	Tower_ AntennaStructureRegistrate	2
Flood_Wetland/Riparian	Other	Tower_Cellular	2
Flood_Wetland/Riparian	Other	Tower_ LandMobilePrivateTransmission	6
Flood_Wetland/Riparian	Other	Tower_MicrowaveService	6
Flood_Wetland/Riparian	Recreation	Campground	1
Flood_Wetland/Riparian	Recreation	HistoricSites	5
Flood_Wetland/Riparian	Recreation	Park	3
Flood_Wetland/Riparian	Recreation	StateParks	1
Flood_Wetland/Riparian	Transportation	Bridge_Rail	25
Flood_Wetland/Riparian	Transportation	Bridge_Road	2
Flood_Wetland/Riparian	Water	Dam	5
Flood_Wetland/Riparian	Water	Well_Log	156
Flood_Wetland/Riparian	Water	Well_NHD	59
Landslide	Natural	SpringSeep	8
Liquefaction	Community	ED_K12	4
Liquefaction	Community	Ed_PreK	5
Liquefaction	Community	GroceryStore	3
Liquefaction	Community	PlaceofWorship	4
Liquefaction	Emergency	FireStation	1
Liquefaction	Emergency	HealthCareFacility	1
Liquefaction	Emergency	NationalShelterSystemFacility	1
Liquefaction	Energy	FuelStation_AlternativeEnergy	2
Liquefaction	Energy	FuelStation_Gas	5
Liquefaction	Energy	SubstationRegulator	3
Liquefaction	Energy	Well_OilGas	6
Liquefaction	Natural	SpringSeep	6
Liquefaction	Other	Mine_Lime	1
Liquefaction	Other	Mine_Salt	1
Liquefaction	Other	Tower_ AntennaStructureRegistrate	2

Unicorporated Tooele County - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Liquefaction	Other	Tower_ LandMobilePrivateTransmission	10
Liquefaction	Other	Tower_MicrowaveService	10
Liquefaction	Recreation	GolfCourse	1
Liquefaction	Recreation	HistoricSites	4
Liquefaction	Recreation	Park	18
Liquefaction	Transportation	Airport	2
Liquefaction	Transportation	Bridge_Rail	1
Liquefaction	Transportation	Bridge_Road	8
Liquefaction	Transportation	BusStopsWasatchFront	7
Liquefaction	Water	Dam	1
Liquefaction	Water	Well_Log	734
Liquefaction	Water	Well_NHD	38
Wildfire	Community	Cemetery	6
Wildfire	Community	ED_K12	4
Wildfire	Community	Ed_PreK	1
Wildfire	Community	Library	2
Wildfire	Community	PlaceofWorship	2
Wildfire	Emergency	FireStation	6
Wildfire	Emergency	LawEnforcement	1
Wildfire	Emergency	NationalShelterSystemFacility	2
Wildfire	Energy	FuelStation_AlternativeEnergy	4
Wildfire	Energy	FuelStation_Gas	2
Wildfire	Energy	PowerGeneratingFacilities	1
Wildfire	Energy	SubstationRegulator	22
Wildfire	Energy	Well_OilGas	24
Wildfire	Government	Military	4
Wildfire	Natural	SpringSeep	248
Wildfire	Other	Mine_CrushedStone	2
Wildfire	Other	Mine_Salt	1
Wildfire	Other	Mine_SandandGravel	2
Wildfire	Other	ProcessingPlant_ NonferrousMetal	1

5.7.4.2 UNICORPORATED TOOELE COUNTY - RISK ASSESMENT RESULTS - CRITICAL FACILITIES

Unicorporated Tooele County - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
Wildfire	Other	SolidWaisteFacility	4
Wildfire	Other	Tower_ AntennaStructureRegistrate	4
Wildfire	Other	Tower_Cellular	4
Wildfire	Other	Tower_FMTransmission	4
Wildfire	Other	Tower_ LandMobileCommerTrans	1
Wildfire	Other	Tower_ LandMobilePrivateTransmission	60
Wildfire	Other	Tower_MicrowaveService	105
Wildfire	Other	Tower_PagingTrans	2
Wildfire	Other	Tower_TVDigital	10
Wildfire	Recreation	Campground	13
Wildfire	Recreation	CommunityCenter	2
Wildfire	Recreation	GolfCourse	1
Wildfire	Recreation	HistoricSites	25
Wildfire	Recreation	Park	5
Wildfire	Recreation	Trailhead	7
Wildfire	Transportation	Airport	2
Wildfire	Transportation	Bridge_Rail	26
Wildfire	Transportation	BusStopsWasatchFront	3
Wildfire	Transportation	Heliport	4
Wildfire	Water	Dam	9
Wildfire	Water	Well_Log	2252
Wildfire	Water	Well_NHD	62
Wildfire	Water	Well_ UndergroudInjectionControl	2
SGID_EngineeringPS	Emergency	FireStation	2
SGID_EngineeringPS	Energy	SubstationRegulator	2
SGID_EngineeringPS	Natural	SpringSeep	36
SGID_EngineeringPS	Other	Tower_ AntennaStructureRegistrate	2
SGID_EngineeringPS	Other	Tower_FMTransmission	1
SGID_EngineeringPS	Other	Tower_ LandMobilePrivateTransmission	10

Unicorporated Tooele County - Critical Facilities - Potential Loss Table			
Hazard	Category	Type	# of Facilities
SGID_EngineeringPS	Other	Tower_MicrowaveService	15
SGID_EngineeringPS	Recreation	Campground	3
SGID_EngineeringPS	Recreation	CommunityCenter	1
SGID_EngineeringPS	Recreation	HistoricSites	7
SGID_EngineeringPS	Recreation	Trailhead	2
SGID_EngineeringPS	Transportation	Bridge_Road	1
SGID_EngineeringPS	Water	Dam	2
SGID_EngineeringPS	Water	Well_Log	76
SGID_EngineeringPS	Water	Well_NHD	1
SteepSlope	Natural	SpringSeep	63
SteepSlope	Other	Tower_ AntennaStructureRegistrate	3
SteepSlope	Other	Tower_Cellular	5
SteepSlope	Other	Tower_FMTransmission	1
SteepSlope	Other	Tower_LandMobileBroadcast	3
SteepSlope	Other	Tower_ LandMobileCommerTrans	1
SteepSlope	Other	Tower_ LandMobilePrivateTransmission	42
SteepSlope	Other	Tower_MicrowaveService	54
SteepSlope	Other	Tower_PagingTrans	1
SteepSlope	Other	Tower_TVDigital	1
SteepSlope	Recreation	Campground	4
SteepSlope	Recreation	HistoricSites	2
SteepSlope	Recreation	StateParks	1
SteepSlope	Transportation	Bridge_Rail	1
SteepSlope	Water	Dam	1
SteepSlope	Water	Well_Log	95
WildlifeAuto	Energy	SubstationRegulator	1
WildlifeAuto	Other	Tower_ LandMobilePrivateTransmission	2
WildlifeAuto	Water	Well_Log	2

5.7.4.3 UNICORPORATED TOOELE COUNTY - RISK ASSESMENT RESULTS - PARCEL DATA

Unicorporated Tooele County - Critical Infrastructure Parcel Data - Potential Loss Table					
Hazard	Category	Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
AlluvialFan	BLM	BLM	13	0.0	$-
AlluvialFan	Commercial	Commercial	5	209.1	$1,100,090.00
AlluvialFan	Manufacture_Industry	Other	5	382.8	$1,053,203.00
AlluvialFan	PlaceofWorship	Community_Resources	1	3.0	$-
AlluvialFan	Police Department/Correctional_Fac	EmergencyServices	1	10.5	$-
AlluvialFan	Res_Munfacture_Mobile_Hookups	Residential	18	61.7	$3,539,334.00
AlluvialFan	Residential	Residential	145	935.6	$37,555,556.00
AlluvialFan	Residential_Commercial	Residential	1	97.4	$2,309,307.00
AlluvialFan	Residential_MultiFamily	Residential	1	1.0	$139,985.00
AlluvialFan	SITLA	SITLA	1	0.0	$-
AlluvialFan	StateofUtah	StateofUtah	3	0.0	$-
AvalanchTerrain	BLM	BLM	287	0.0	$-
AvalanchTerrain	Comm_Center	Community_Resources	1	2.6	$-
AvalanchTerrain	Commercial	Commercial	6	342.3	$935,863.00
AvalanchTerrain	DOD	DOD	3	0.0	$-
AvalanchTerrain	Manufacture_Industry	Other	8	2,069.9	$5,081,713.00
AvalanchTerrain	Res_Munfacture_Mobile_Hookups	Residential	2	65.0	$707,790.00
AvalanchTerrain	Residential	Residential	69	1,485.3	$4,625,149.00
AvalanchTerrain	SITLA	SITLA	92	0.0	$-
AvalanchTerrain	StateofUtah	StateofUtah	4	0.0	$-
AvalanchTerrain	Tribal	Tribal	1	0.0	$-
AvalanchTerrain	USFS	USFS	15	0.0	$-
DebrisFlow	BLM	BLM	49	0.0	$-
DebrisFlow	Commercial	Commercial	5	342.2	$829,421.00

5.7.4.3 UNICORPORATED TOOELE COUNTY - RISK ASSESMENT RESULTS - PARCEL DATA

Unicorporated Tooele County - Critical Infrastructure Parcel Data - Potential Loss Table					
Hazard	Category	Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
DebrisFlow	Manufacture_Industry	Other	8	2,069.9	$5,081,713.00
DebrisFlow	Res_Munfacture_Mobile_Hookups	Residential	2	65.0	$707,790.00
DebrisFlow	Residential	Residential	27	1,874.7	$4,471,195.00
DebrisFlow	SITLA	SITLA	13	0.0	$-
DebrisFlow	StateofUtah	StateofUtah	4	0.0	$-
DebrisFlow	USFS	USFS	3	0.0	$-
DwellingsWithBasements	BLM	BLM	643	0.0	$-
DwellingsWithBasements	Cemetery	Community_Resources	1	5.0	$-
DwellingsWithBasements	Comm_Center	Community_Resources	1	2.6	$-
DwellingsWithBasements	Commercial	Commercial	105	6,234.6	$55,279,717.00
DwellingsWithBasements	DOD	DOD	9	0.0	$-
DwellingsWithBasements	Ed_Kto12	Community_Resources	4	56.3	$820,539.00
DwellingsWithBasements	Fire_Station	EmergencyServices	2	3.5	$-
DwellingsWithBasements	Fire_Station/Emergency_Med	EmergencyServices	1	1.1	$500.00
DwellingsWithBasements	Grocery_Store	Community_Resources	1	1.8	$673,963.00
DwellingsWithBasements	Health_Care	EmergencyServices	2	0.2	$311,247.00
DwellingsWithBasements	Infrastructure_Mining	Other	3	269.1	$930,210.00
DwellingsWithBasements	Manufacture_Industry	Energy	1	473.8	$-
DwellingsWithBasements	Manufacture_Industry	Other	37	9,042.4	$157,030,295.00
DwellingsWithBasements	Open_Space	Recreation	27	292.8	$1,321,753.00
DwellingsWithBasements	PlaceofWorship	Community_Resources	7	99.1	$568,673.00
DwellingsWithBasements	Res_Munfacture_Mobile_Hookups	Residential	149	3,264.1	$30,989,680.00
DwellingsWithBasements	Residential	Energy	1	632.8	$534,163.00
DwellingsWithBasements	Residential	Residential	3384	22,382.6	$872,109,953.00

5.7.4.3 UNICORPORATED TOOELE COUNTY - RISK ASSESMENT RESULTS - PARCEL DATA

Unicorporated Tooele County - Critical Infrastructure Parcel Data - Potential Loss Table					
Hazard	Category	Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
DwellingsWithBasements	Residential_Commercial	Residential	8	792.0	$2,003,969.00
DwellingsWithBasements	Residential_MultiFamily	Residential	171	43.7	$28,023,408.00
DwellingsWithBasements	SITLA	SITLA	291	0.0	$-
DwellingsWithBasements	StateofUtah	StateofUtah	14	0.0	$-
DwellingsWithBasements	Tribal	Tribal	5	0.0	$-
DwellingsWithBasements	USFS	USFS	39	0.0	$-
DwellingsWithoutBasements	BLM	BLM	643	0.0	$-
DwellingsWithoutBasements	Cemetery	Community_Resources	1	5.0	$-
DwellingsWithoutBasements	Comm_Center	Community_Resources	1	2.6	$-
DwellingsWithoutBasements	Commercial	Commercial	105	6,234.6	$55,279,717.00
DwellingsWithoutBasements	DOD	DOD	9	0.0	$-
DwellingsWithoutBasements	Ed_Kto12	Community_Resources	4	56.3	$820,539.00
DwellingsWithoutBasements	Fire_Station	EmergencyServices	2	3.5	$-
DwellingsWithoutBasements	Fire_Station/Emergency_Med	EmergencyServices	1	1.1	$500.00
DwellingsWithoutBasements	Grocery_Store	Community_Resources	1	1.8	$673,963.00
DwellingsWithoutBasements	Health_Care	EmergencyServices	2	0.2	$311,247.00
DwellingsWithoutBasements	Manufacture_Industry	Energy	1	473.8	$-
DwellingsWithoutBasements	PlaceofWorship	Community_Resources	7	99.1	$568,673.00
DwellingsWithoutBasements	Residential	Energy	1	632.8	$534,163.00
DwellingsWithoutBasements	Infrastructure_Mining	Other	3	269.1	$930,210.00
DwellingsWithoutBasements	Manufacture_Industry	Other	37	9,042.4	$157,030,295.00
DwellingsWithoutBasements	Open_Space	Recreation	27	292.8	$1,321,753.00
DwellingsWithoutBasements	Res_Munfacture_Mobile_Hookups	Residential	149	3,264.1	$30,989,680.00
DwellingsWithoutBasements	Residential	Residential	3384	22,382.6	$872,109,953.00

5.7.4.3 UNICORPORATED TOOELE COUNTY - RISK ASSESMENT RESULTS - PARCEL DATA

Unicorporated Tooele County - Critical Infrastructure Parcel Data - Potential Loss Table					
Hazard	Category	Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
DwellingsWithoutBasements	Residential_Commercial	Residential	8	792.0	$2,003,969.00
DwellingsWithoutBasements	Residential_MultiFamily	Residential	171	43.7	$28,023,408.00
DwellingsWithoutBasements	SITLA	SITLA	291	0.0	$-
DwellingsWithoutBasements	StateofUtah	StateofUtah	14	0.0	$-
DwellingsWithoutBasements	Tribal	Tribal	5	0.0	$-
DwellingsWithoutBasements	USFS	USFS	39	0.0	$-
Erosion_OffRoadTrail	BLM	BLM	366	0.0	$-
Erosion_OffRoadTrail	Comm_Center	Community_Resources	1	2.6	$-
Erosion_OffRoadTrail	Commercial	Commercial	13	371.9	$1,348,053.00
Erosion_OffRoadTrail	DOD	DOD	2	0.0	$-
Erosion_OffRoadTrail	Health_Care	EmergencyServices	2	0.2	$311,247.00
Erosion_RoadTrail	BLM	BLM	553	0.0	$-
Erosion_RoadTrail	Cemetery	Community_Resources	1	5.0	$-
Erosion_RoadTrail	Comm_Center	Community_Resources	1	2.6	$-
Erosion_RoadTrail	Commercial	Commercial	66	3,086.6	$42,843,008.00
Erosion_RoadTrail	DOD	DOD	9	0.0	$-
Erosion_RoadTrail	Ed_Kto12	Community_Resources	1	7.4	$712,989.00
Erosion_RoadTrail	Fire_Station	EmergencyServices	1	2.5	$-
Erosion_RoadTrail	Fire_Station/Emergency_Med	EmergencyServices	1	1.1	$500.00
Erosion_RoadTrail	Grocery_Store	Community_Resources	1	1.8	$673,963.00
Erosion_RoadTrail	Health_Care	EmergencyServices	2	0.2	$311,247.00
Erosion_RoadTrail	Manufacture_Industry	Energy	1	473.8	$-
Erosion_RoadTrail	PlaceofWorship	Community_Resources	2	6.1	$187,863.00
FaultHazardZone	BLM	BLM	135	0.0	$-

5.7.4.3 UNICORPORATED TOOELE COUNTY - RISK ASSESMENT RESULTS - PARCEL DATA

Unicorporated Tooele County - Critical Infrastructure Parcel Data - Potential Loss Table					
Hazard	Category	Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
FaultHazardZone	Commercial	Commercial	6	160.9	$3,488,251.00
FEMA_FloodZone	BLM	BLM	1	0.0	$-
FEMA_FloodZone	Commercial	Commercial	2	162.0	$503,238.00
FEMA_FloodZone	DOD	DOD	1	0.0	$-
Flood_DamInundation	BLM	BLM	3	0.0	$-
Flood_DamInundation	Commercial	Commercial	20	236.3	$29,556,109.00
Flood_DamInundation	DOD	DOD	3	0.0	$-
Flood_DamInundation	Fire_Station	EmergencyServices	1	1.0	$-
Flood_DamInundation	PlaceofWorship	Community_Resources	1	4.7	$159,000.00
Flood_DamInundation	Residential	Energy	1	632.8	$534,163.00
Flood_GSL	BLM	BLM	17	0.0	$-
Flood_GSL	Manufacture_Industry	Energy	1	473.8	$-
Flood_GSL	Residential	Energy	1	632.8	$534,163.00
Flood_SoilsPurdue	BLM	BLM	58	0.0	$-
Flood_SoilsPurdue	Commercial	Commercial	1	52.1	$1,222,317.00
Flood_SoilsPurdue	DOD	DOD	1	0.0	$-
Flood_SoilsPurdue	PlaceofWorship	Community_Resources	1	3.0	$-
Flood_SoilsPurdue	Residential	Energy	1	632.8	$534,163.00
Flood_USUValleyBottom	BLM	BLM	26	0.0	$-
Flood_USUValleyBottom	Commercial	Commercial	1	15.0	$200,720.00
Flood_USUValleyBottom	Ed_Kto12	Community_Resources	1	10.5	$-
Flood_USUValleyBottom	Fire_Station	EmergencyServices	1	36.0	$1,660.00
Flood_USUValleyBottom	Residential	Energy	1	632.8	$534,163.00
Flood_Wetland_Riparian	BLM	BLM	545	0.0	$-

5.7.4.3 UNICORPORATED TOOELE COUNTY - RISK ASSESMENT RESULTS - PARCEL DATA

Unicorporated Tooele County - Critical Infrastructure Parcel Data - Potential Loss Table					
Hazard	Category	Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
Flood_Wetland_Riparian	Comm_Center	Community_Resources	1	2.6	$-
Flood_Wetland_Riparian	Commercial	Commercial	47	2,621.2	$34,729,056.00
Flood_Wetland_Riparian	DOD	DOD	6	0.0	$-
Flood_Wetland_Riparian	Ed_Kto12	Community_Resources	1	33.3	$-
Flood_Wetland_Riparian	Grocery_Store	Community_Resources	1	1.8	$673,963.00
Flood_Wetland_Riparian	Manufacture_Industry	Energy	1	473.8	$-
Flood_Wetland_Riparian	PlaceofWorship	Community_Resources	5	133.4	$333,863.00
Flood_Wetland_Riparian	Residential	Energy	1	632.8	$534,163.00
Landslide	BLM	BLM	29	0.0	$-
Landslide	DOD	DOD	1	0.0	$-
Liquefaction	BLM	BLM	7	0.0	$-
Liquefaction	Commercial	Commercial	68	855.3	$45,719,607.00
Liquefaction	Ed_Kto12	Community_Resources	4	56.3	$820,539.00
Liquefaction	Ed_PreK	Community_Resources	2	0.9	$938,397.00
Liquefaction	Fire_Station/Emergency_Med	EmergencyServices	1	1.1	$500.00
Liquefaction	Grocery_Store	Community_Resources	1	1.8	$673,963.00
Liquefaction	Health_Care	EmergencyServices	1	2.5	$3,322,604.00
Liquefaction	Health_Care/Grocery_Store	EmergencyServices	1	4.1	$4,227,979.00
Liquefaction	PlaceofWorship	Community_Resources	7	100.1	$409,673.00
Liquefaction	Police Department	EmergencyServices	1	1.7	$1,738,331.00
Liquefaction	Residential	Energy	1	632.8	$534,163.00
RMRS_WildFireHP_2020	BLM	BLM	560	0.0	$-
RMRS_WildFireHP_2020	Cemetery	Community_Resources	1	5.0	$-
RMRS_WildFireHP_2020	Comm_Center	Community_Resources	1	2.6	$-

5.7.4.3 UNICORPORATED TOOELE COUNTY - RISK ASSESMENT RESULTS - PARCEL DATA

Unicorporated Tooele County - Critical Infrastructure Parcel Data - Potential Loss Table					
Hazard	Category	Type	# of Parcels	Sum Parcel Acres	Sum Total Market Value
RMRS_WildFireHP_2020	Commercial	Commercial	112	2,009.0	$91,189,502.00
RMRS_WildFireHP_2020	DOD	DOD	8	0.0	$-
RMRS_WildFireHP_2020	Ed_Kto12	Community_Resources	10	56.6	$4,743,082.00
RMRS_WildFireHP_2020	Ed_PreK	Community_Resources	1	0.3	$45,870.00
RMRS_WildFireHP_2020	Fire_Station	EmergencyServices	3	39.5	$1,660.00
RMRS_WildFireHP_2020	Fire_Station/Emergency_Med	EmergencyServices	3	3.5	$500.00
RMRS_WildFireHP_2020	Health_Care	EmergencyServices	2	0.2	$311,247.00
RMRS_WildFireHP_2020	Health_Care/Grocery_Store	EmergencyServices	1	4.1	$4,227,979.00
RMRS_WildFireHP_2020	Manufacture_Industry	Energy	1	473.8	$-
RMRS_WildFireHP_2020	PlaceofWorship	Community_Resources	6	53.5	$584,463.00
RMRS_WildFireHP_2020	Police Department/Correctional_Fac	EmergencyServices	1	10.5	$-
RMRS_WildFireHP_2020	Residential	Energy	1	632.8	$534,163.00
SGID_EngineeringPS	BLM	BLM	191	0.0	$-
SGID_EngineeringPS	Comm_Center	Community_Resources	1	2.6	$-
SGID_EngineeringPS	Commercial	Commercial	17	2,011.6	$2,216,343.00
SGID_EngineeringPS	DOD	DOD	3	0.0	$-
SGID_EngineeringPS	Fire_Station	EmergencyServices	1	2.5	$-
SGID_EngineeringPS	Health_Care	EmergencyServices	2	0.2	$311,247.00
SGID_EngineeringPS	Residential	Energy	1	632.8	$534,163.00
SteepSlope	BLM	BLM	395	0.0	$-
SteepSlope	Comm_Center	Community_Resources	1	2.6	$-
SteepSlope	Commercial	Commercial	13	635.9	$1,652,782.00
SteepSlope	DOD	DOD	4	0.0	$-
WildlifeAuto	BLM	BLM	1	0.0	$-

5.7.4.4 UNICORPORATED TOOELE COUNTY - RISK ASSESMENT RESULTS - LINE DATA

Unicorp. Tooele County - Critical Infrastructure Line Data - Potential Loss Table			
Hazard	Category	Type	Miles
AlluvialFan	Energy	ElectricPowerTransmissionLine	177.6
AlluvialFan	Energy	Pipeline_NaturalGas	32.5
AlluvialFan	Energy	Pipeline_Petro	58.9
AlluvialFan	Natural	StreamRiver_Ephemeral	88.6
AlluvialFan	Natural	StreamRiver_Intermittent	2.1
AlluvialFan	Natural	StreamRiver_Perennial	2.0
AlluvialFan	Recreation	Trail_RoadConcurrent	4.7
AlluvialFan	Recreation	Trails	33.1
AlluvialFan	Transportation	Road	18.6
AlluvialFan	Transportation	Road_A	7.1
AlluvialFan	Transportation	Road_B	12.7
AlluvialFan	Transportation	Road_D	43.3
AlluvialFan	Transportation	Road_X	0.2
AlluvialFan	Water	Canal_ArtificialPath	0.0
AlluvialFan	Water	Canal_Ditch	0.5
AlluvialFan	Water	Connector	19.0
AvalanchTerrain	Energy	ElectricPowerTransmissionLine	119.0
AvalanchTerrain	Energy	Pipeline_NaturalGas	56.2
AvalanchTerrain	Energy	Pipeline_Petro	58.9
AvalanchTerrain	Natural	StreamRiver_Ephemeral	2,010.3
AvalanchTerrain	Natural	StreamRiver_Intermittent	54.8
AvalanchTerrain	Natural	StreamRiver_Perennial	117.4

Unicorp. Tooele County - Critical Infrastructure Line Data - Potential Loss Table			
Hazard	Category	Type	Miles
AvalanchTerrain	Recreation	Trail_RoadConcurrent	62.1
AvalanchTerrain	Recreation	Trails	177.7
AvalanchTerrain	Recreation	Trails_Hiking	36.0
AvalanchTerrain	Recreation	Trails_HikingandBiking	17.1
AvalanchTerrain	Transportation	Road	58.7
AvalanchTerrain	Transportation	Road_A	1.0
AvalanchTerrain	Transportation	Road_B	55.1
AvalanchTerrain	Transportation	Road_D	155.9
AvalanchTerrain	Water	Canal_ArtificialPath	0.1
AvalanchTerrain	Water	Canal_Ditch	2.5
AvalanchTerrain	Water	Connector	4.5
AvalanchTerrain	Water	Pipeline_AqueductUnderground	1.2
AvalanchTerrain	Water	Pipeline_GeneralCase_Underground	7.0
DebrisFlow	Energy	ElectricPowerTransmissionLine	115.8
DebrisFlow	Energy	Pipeline_NaturalGas	38.5
DebrisFlow	Energy	Pipeline_Petro	58.9
DebrisFlow	Natural	StreamRiver_Ephemeral	365.6
DebrisFlow	Natural	StreamRiver_Intermittent	21.5
DebrisFlow	Natural	StreamRiver_Perennial	12.1
DebrisFlow	Recreation	Trail_RoadConcurrent	15.9
DebrisFlow	Recreation	Trails	79.4
DebrisFlow	Recreation	Trails_Hiking	12.2
DebrisFlow	Recreation	Trails_HikingandBiking	7.5
DebrisFlow	Transportation	Road	9.6

5.7.4.4 UNICORPORATED TOOELE COUNTY | RISK ASSESMENT RESULTS | LINE DATA

Unicorp. Tooele County - Critical Infrastructure Line Data - Potential Loss Table			
Hazard	Category	Type	Miles
DebrisFlow	Transportation	Road_B	23.8
DebrisFlow	Transportation	Road_C	0.3
DebrisFlow	Transportation	Road_D	59.6
DebrisFlow	Water	Canal_ArtificialPath	0.1
DebrisFlow	Water	Connector	3.0
DebrisFlow	Water	Pipeline_AqueductUnderground	1.2
DebrisFlow	Water	Pipeline_GeneralCase_Underground	14.6
DwellingsWithBasements	Energy	ElectricPowerTransmissionLine	380.0
DwellingsWithBasements	Energy	Pipeline_NaturalGas	105.9
DwellingsWithBasements	Energy	Pipeline_Petro	58.9
DwellingsWithBasements	Natural	StreamRiver_Ephemeral	7,473.2
DwellingsWithBasements	Natural	StreamRiver_Intermittent	277.4
DwellingsWithBasements	Natural	StreamRiver_Perennial	545.4
DwellingsWithBasements	Recreation	Trail_RoadConcurrent	710.2
DwellingsWithBasements	Recreation	Trails	311.5
DwellingsWithBasements	Recreation	Trails_Hiking	40.4
DwellingsWithBasements	Recreation	Trails_HikingandBiking	17.6
DwellingsWithBasements	Transportation	Road	476.7
DwellingsWithBasements	Transportation	Road_A	340.3
DwellingsWithBasements	Transportation	Road_B	1,037.7
DwellingsWithBasements	Transportation	Road_C	7.6
DwellingsWithBasements	Transportation	Road_D	2,841.9
DwellingsWithBasements	Transportation	Road_F	5.1

Unicorp. Tooele County - Critical Infrastructure Line Data - Potential Loss Table			
Hazard	Category	Type	Miles
DwellingsWithBasements	Transportation	Road_P	1.7
DwellingsWithBasements	Transportation	Road_X	1.3
DwellingsWithBasements	Water	Canal_ArtificialPath	120.3
DwellingsWithBasements	Water	Canal_Brackish Ditch	7.7
DwellingsWithBasements	Water	Canal_Ditch	188.3
DwellingsWithBasements	Water	Canal_Pond Ditch	35.4
DwellingsWithBasements	Water	Connector	345.8
DwellingsWithBasements	Water	Dam	2.0
DwellingsWithBasements	Water	Pipeline_Aqueduct	11.6
DwellingsWithBasements	Water	Pipeline_AqueductUnderground	1.2
DwellingsWithBasements	Water	Pipeline_GeneralCase_Underground	44.3
DwellingsWithBasements	Water	Pipeline_Siphon	0.3
DwellingsWithoutBasements	Energy	ElectricPowerTransmissionLine	380.0
DwellingsWithoutBasements	Energy	Pipeline_NaturalGas	105.9
DwellingsWithoutBasements	Energy	Pipeline_Petro	58.9
DwellingsWithoutBasements	Natural	StreamRiver_Ephemeral	7,473.2
DwellingsWithoutBasements	Natural	StreamRiver_Intermittent	277.4
DwellingsWithoutBasements	Natural	StreamRiver_Perennial	545.4
DwellingsWithoutBasements	Recreation	Trail_RoadConcurrent	710.2
DwellingsWithoutBasements	Recreation	Trails	311.5
DwellingsWithoutBasements	Recreation	Trails_Hiking	40.4
DwellingsWithoutBasements	Recreation	Trails_HikingandBiking	17.6
DwellingsWithoutBasements	Transportation	Road	476.7

5.7.4.4 UNICORPORATED TOOELE COUNTY | RISK ASSESMENT RESULTS | LINE DATA

Unicorp. Tooele County - Critical Infrastructure Line Data - Potential Loss Table			
Hazard	Category	Type	Miles
DwellingsWithoutBasements	Transportation	Road_A	340.3
DwellingsWithoutBasements	Transportation	Road_B	1,037.7
DwellingsWithoutBasements	Transportation	Road_C	7.6
DwellingsWithoutBasements	Transportation	Road_D	2,841.9
DwellingsWithoutBasements	Transportation	Road_F	5.1
DwellingsWithoutBasements	Transportation	Road_P	1.7
DwellingsWithoutBasements	Transportation	Road_X	1.3
DwellingsWithoutBasements	Water	Canal_ArtificialPath	120.3
DwellingsWithoutBasements	Water	Canal_Brackish Ditch	7.7
DwellingsWithoutBasements	Water	Canal_Ditch	188.3
DwellingsWithoutBasements	Water	Canal_Pond Ditch	35.4
DwellingsWithoutBasements	Water	Connector	345.8
DwellingsWithoutBasements	Water	Dam	2.0
DwellingsWithoutBasements	Water	Pipeline_Aqueduct	11.6
DwellingsWithoutBasements	Water	Pipeline_AqueductUnderground	1.2
DwellingsWithoutBasements	Water	Pipeline_GeneralCase_Underground	44.3
DwellingsWithoutBasements	Water	Pipeline_Siphon	0.3
Erosion_OffRoadTrail	Energy	ElectricPowerTransmissionLine	229.6
Erosion_OffRoadTrail	Energy	Pipeline_NaturalGas	65.7
Erosion_OffRoadTrail	Energy	Pipeline_Petro	58.9
Erosion_OffRoadTrail	Natural	StreamRiver_Ephemeral	3,625.5
Erosion_OffRoadTrail	Natural	StreamRiver_Intermittent	106.8
Erosion_OffRoadTrail	Natural	StreamRiver_Perennial	173.7

Unicorp. Tooele County - Critical Infrastructure Line Data - Potential Loss Table			
Hazard	Category	Type	Miles
Erosion_OffRoadTrail	Recreation	Trail_RoadConcurrent	253.5
Erosion_OffRoadTrail	Recreation	Trails	302.9
Erosion_OffRoadTrail	Recreation	Trails_Hiking	40.4
Erosion_OffRoadTrail	Recreation	Trails_HikingandBiking	17.3
Erosion_OffRoadTrail	Transportation	Road	97.3
Erosion_OffRoadTrail	Transportation	Road_A	8.8
Erosion_OffRoadTrail	Transportation	Road_B	204.7
Erosion_OffRoadTrail	Transportation	Road_D	935.0
Erosion_OffRoadTrail	Transportation	Road_X	0.5
Erosion_OffRoadTrail	Water	Canal_ArtificialPath	2.8
Erosion_OffRoadTrail	Water	Canal_Ditch	7.1
Erosion_OffRoadTrail	Water	Connector	29.0
Erosion_OffRoadTrail	Water	Pipeline_AqueductUnderground	1.2
Erosion_OffRoadTrail	Water	Pipeline_GeneralCase_Underground	21.0
Erosion_RoadTrail	Energy	ElectricPowerTransmissionLine	305.9
Erosion_RoadTrail	Energy	Pipeline_NaturalGas	66.7
Erosion_RoadTrail	Energy	Pipeline_Petro	58.9
Erosion_RoadTrail	Natural	StreamRiver_Ephemeral	6,022.2
Erosion_RoadTrail	Natural	StreamRiver_Intermittent	220.9
Erosion_RoadTrail	Natural	StreamRiver_Perennial	431.4
Erosion_RoadTrail	Recreation	Trail_RoadConcurrent	698.6
Erosion_RoadTrail	Recreation	Trails	310.8
Erosion_RoadTrail	Recreation	Trails_Hiking	40.4
Erosion_RoadTrail	Recreation	Trails_HikingandBiking	17.6

5.7.4.4 UNICORPORATED TOOELE COUNTY | RISK ASSESMENT RESULTS | LINE DATA

Unicorp. Tooele County - Critical Infrastructure Line Data - Potential Loss Table			
Hazard	Category	Type	Miles
Erosion_RoadTrail	Transportation	Road	374.0
Erosion_RoadTrail	Transportation	Road_A	159.5
Erosion_RoadTrail	Transportation	Road_B	795.6
Erosion_RoadTrail	Transportation	Road_C	2.1
Erosion_RoadTrail	Transportation	Road_D	2,576.6
Erosion_RoadTrail	Transportation	Road_F	2.0
Erosion_RoadTrail	Transportation	Road_X	0.8
Erosion_RoadTrail	Water	Canal_ArtificialPath	18.2
Erosion_RoadTrail	Water	Canal_Ditch	64.0
Erosion_RoadTrail	Water	Connector	196.6
Erosion_RoadTrail	Water	Dam	2.0
Erosion_RoadTrail	Water	Pipeline_Aqueduct	5.5
Erosion_RoadTrail	Water	Pipeline_AqueductUnderground	1.2
Erosion_RoadTrail	Water	Pipeline_GeneralCase_Underground	42.8
FaultHazardZone	Energy	ElectricPowerTransmissionLine	193.8
FaultHazardZone	Energy	Pipeline_NaturalGas	56.2
FaultHazardZone	Energy	Pipeline_Petro	58.9
FaultHazardZone	Natural	StreamRiver_Ephemeral	833.5
FaultHazardZone	Natural	StreamRiver_Intermittent	28.6
FaultHazardZone	Natural	StreamRiver_Perennial	219.2
FaultHazardZone	Recreation	Trail_RoadConcurrent	139.1
FaultHazardZone	Recreation	Trails	88.5
FaultHazardZone	Recreation	Trails_Hiking	2.5

Unicorp. Tooele County - Critical Infrastructure Line Data - Potential Loss Table			
Hazard	Category	Type	Miles
FaultHazardZone	Transportation	Road	29.7
FaultHazardZone	Transportation	Road_A	68.5
FaultHazardZone	Transportation	Road_B	85.0
FaultHazardZone	Transportation	Road_C	0.8
FaultHazardZone	Transportation	Road_D	387.1
FaultHazardZone	Water	Canal_ArtificialPath	40.6
FaultHazardZone	Water	Canal_Ditch	11.2
FaultHazardZone	Water	Connector	72.0
FaultHazardZone	Water	Pipeline_Aqueduct	9.5
FaultHazardZone	Water	Pipeline_GeneralCase_Underground	6.3
FEMA_FloodZone	Energy	ElectricPowerTransmissionLine	115.5
FEMA_FloodZone	Energy	Pipeline_NaturalGas	19.5
FEMA_FloodZone	Natural	StreamRiver_Ephemeral	4.6
FEMA_FloodZone	Natural	StreamRiver_Intermittent	1.2
FEMA_FloodZone	Natural	StreamRiver_Perennial	2.2
FEMA_FloodZone	Transportation	Road	0.2
FEMA_FloodZone	Transportation	Road_A	1.1
FEMA_FloodZone	Transportation	Road_B	10.8
FEMA_FloodZone	Transportation	Road_C	0.4
FEMA_FloodZone	Water	Canal_ArtificialPath	8.6
FEMA_FloodZone	Water	Canal_Ditch	0.3
FEMA_FloodZone	Water	Connector	1.4
Flood_DamInundation	Energy	ElectricPowerTransmissionLine	47.3

5.7.4.4 UNICORPORATED TOOELE COUNTY | RISK ASSESMENT RESULTS | LINE DATA

Unicorp. Tooele County - Critical Infrastructure Line Data - Potential Loss Table			
Hazard	Category	Type	Miles
Flood_DamInundation	Energy	Pipeline_NaturalGas	28.8
Flood_DamInundation	Natural	StreamRiver_Ephemeral	67.8
Flood_DamInundation	Natural	StreamRiver_Intermittent	19.7
Flood_DamInundation	Natural	StreamRiver_Perennial	5.3
Flood_DamInundation	Recreation	Trail_RoadConcurrent	9.4
Flood_DamInundation	Transportation	Road	52.2
Flood_DamInundation	Transportation	Road_A	41.0
Flood_DamInundation	Transportation	Road_B	25.7
Flood_DamInundation	Transportation	Road_C	9.1
Flood_DamInundation	Transportation	Road_D	16.6
Flood_DamInundation	Water	Canal_ArtificialPath	16.3
Flood_DamInundation	Water	Canal_Ditch	11.4
Flood_DamInundation	Water	Connector	21.6
Flood_GSL	Energy	ElectricPowerTransmissionLine	5.2
Flood_GSL	Energy	Pipeline_NaturalGas	17.7
Flood_GSL	Natural	StreamRiver_Ephemeral	40.7
Flood_GSL	Natural	StreamRiver_Intermittent	5.0
Flood_GSL	Transportation	Road	13.6
Flood_GSL	Transportation	Road_A	49.5
Flood_GSL	Transportation	Road_B	3.3
Flood_GSL	Transportation	Road_D	27.0
Flood_GSL	Water	Canal_ArtificialPath	114.9
Flood_GSL	Water	Canal_Ditch	39.9

Unicorp. Tooele County - Critical Infrastructure Line Data - Potential Loss Table			
Hazard	Category	Type	Miles
Flood_GSL	Water	Connector	14.8
Flood_SoilsPurdue	Energy	ElectricPowerTransmissionLine	201.6
Flood_SoilsPurdue	Energy	Pipeline_NaturalGas	46.7
Flood_SoilsPurdue	Energy	Pipeline_Petro	58.9
Flood_SoilsPurdue	Natural	StreamRiver_Ephemeral	724.4
Flood_SoilsPurdue	Natural	StreamRiver_Intermittent	56.0
Flood_SoilsPurdue	Natural	StreamRiver_Perennial	41.3
Flood_SoilsPurdue	Recreation	Trail_RoadConcurrent	31.9
Flood_SoilsPurdue	Recreation	Trails	38.7
Flood_SoilsPurdue	Transportation	Road	43.7
Flood_SoilsPurdue	Transportation	Road_A	77.8
Flood_SoilsPurdue	Transportation	Road_B	96.7
Flood_SoilsPurdue	Transportation	Road_C	0.3
Flood_SoilsPurdue	Transportation	Road_D	89.4
Flood_SoilsPurdue	Transportation	Road_F	2.4
Flood_SoilsPurdue	Transportation	Road_X	0.3
Flood_SoilsPurdue	Water	Canal_ArtificialPath	27.7
Flood_SoilsPurdue	Water	Canal_Ditch	48.2
Flood_SoilsPurdue	Water	Connector	51.4
Flood_SoilsPurdue	Water	Pipeline_Aqueduct	3.3
Flood_SoilsPurdue	Water	Pipeline_GeneralCase_Underground	14.2
Flood_USUValleyBottom	Energy	ElectricPowerTransmissionLine	83.9
Flood_USUValleyBottom	Energy	Pipeline_NaturalGas	17.3

Unicorp. Tooele County - Critical Infrastructure Line Data - Potential Loss Table			
Hazard	Category	Type	Miles
Flood_USUValleyBottom	Natural	StreamRiver_Ephemeral	217.2
Flood_USUValleyBottom	Natural	StreamRiver_Intermittent	38.0
Flood_USUValleyBottom	Natural	StreamRiver_Perennial	135.2
Flood_USUValleyBottom	Recreation	Trail_RoadConcurrent	11.9
Flood_USUValleyBottom	Recreation	Trails	110.3
Flood_USUValleyBottom	Recreation	Trails_Hiking	3.5
Flood_USUValleyBottom	Transportation	Road	8.1
Flood_USUValleyBottom	Transportation	Road_A	2.3
Flood_USUValleyBottom	Transportation	Road_B	47.0
Flood_USUValleyBottom	Transportation	Road_D	65.2
Flood_USUValleyBottom	Water	Canal_ArtificialPath	4.4
Flood_USUValleyBottom	Water	Canal_Ditch	14.9
Flood_USUValleyBottom	Water	Connector	10.7
Flood_USUValleyBottom	Water	Pipeline_GeneralCase_Underground	20.7
Flood_Wetland_Riparian	Energy	ElectricPowerTransmissionLine	360.5
Flood_Wetland_Riparian	Energy	Pipeline_NaturalGas	106.0
Flood_Wetland_Riparian	Energy	Pipeline_Petro	58.9
Flood_Wetland_Riparian	Natural	StreamRiver_Ephemeral	8,297.3
Flood_Wetland_Riparian	Natural	StreamRiver_Intermittent	356.6
Flood_Wetland_Riparian	Natural	StreamRiver_Perennial	565.3
Flood_Wetland_Riparian	Recreation	Trail_RoadConcurrent	490.2
Flood_Wetland_Riparian	Recreation	Trails	282.0
Flood_Wetland_Riparian	Recreation	Trails_Hiking	36.1
Flood_Wetland_Riparian	Recreation	Trails_HikingandBiking	16.5

Unicorp. Tooele County - Critical Infrastructure Line Data - Potential Loss Table			
Hazard	Category	Type	Miles
Flood_Wetland_Riparian	Transportation	Road	279.2
Flood_Wetland_Riparian	Transportation	Road_A	260.9
Flood_Wetland_Riparian	Transportation	Road_B	873.7
Flood_Wetland_Riparian	Transportation	Road_C	2.1
Flood_Wetland_Riparian	Transportation	Road_D	1,806.7
Flood_Wetland_Riparian	Transportation	Road_F	4.4
Flood_Wetland_Riparian	Transportation	Road_P	1.6
Flood_Wetland_Riparian	Transportation	Road_X	0.4
Flood_Wetland_Riparian	Water	Canal_ArtificialPath	280.5
Flood_Wetland_Riparian	Water	Canal_BP-2 Brine Ditch	5.5
Flood_Wetland_Riparian	Water	Canal_BP-5 Brine Ditch	13.1
Flood_Wetland_Riparian	Water	Canal_BP-7 Brine Ditch	2.2
Flood_Wetland_Riparian	Water	Canal_Brackish Ditch	7.7
Flood_Wetland_Riparian	Water	Canal_DBW-21 Brine Ditch	3.6
Flood_Wetland_Riparian	Water	Canal_DBW-22 Brine Ditch	5.7
Flood_Wetland_Riparian	Water	Canal_Ditch	288.1
Flood_Wetland_Riparian	Water	Canal_Pond Ditch	116.2
Flood_Wetland_Riparian	Water	Canal_Salt Laydown Ditch	5.8
Flood_Wetland_Riparian	Water	Connector	467.9
Flood_Wetland_Riparian	Water	Dam	2.0
Flood_Wetland_Riparian	Water	Pipeline_Aqueduct	11.2
Flood_Wetland_Riparian	Water	Pipeline_AqueductUnderground	1.2
Flood_Wetland_Riparian	Water	Pipeline_GeneralCase_Underground	50.5

5.7.4.4 UNICORPORATED TOOELE COUNTY | RISK ASSESMENT RESULTS | LINE DATA

Unicorp. Tooele County - Critical Infrastructure Line Data - Potential Loss Table			
Hazard	Category	Type	Miles
Flood_Wetland_Riparian	Water	Pipeline_Siphon	0.7
Landslide	Energy	ElectricPowerTransmissionLine	13.0
Landslide	Energy	Pipeline_Petro	58.9
Landslide	Natural	StreamRiver_Ephemeral	101.9
Landslide	Natural	StreamRiver_Intermittent	3.4
Landslide	Natural	StreamRiver_Perennial	6.3
Landslide	Recreation	Trail_RoadConcurrent	3.2
Landslide	Recreation	Trails	38.8
Landslide	Recreation	Trails_Hiking	11.1
Landslide	Recreation	Trails_HikingandBiking	6.3
Landslide	Transportation	Road	4.8
Landslide	Transportation	Road_A	1.0
Landslide	Transportation	Road_B	10.7
Landslide	Transportation	Road_D	10.0
Landslide	Water	Canal_ArtificialPath	0.7
Landslide	Water	Connector	1.9
Liquefaction	Energy	ElectricPowerTransmissionLine	69.3
Liquefaction	Energy	Pipeline_NaturalGas	61.0
Liquefaction	Energy	Pipeline_Petro	58.9
Liquefaction	Natural	StreamRiver_Ephemeral	47.2
Liquefaction	Natural	StreamRiver_Intermittent	9.2
Liquefaction	Natural	StreamRiver_Perennial	4.5
Liquefaction	Transportation	Road	12.7
Liquefaction	Transportation	Road_A	94.4

Unicorp. Tooele County - Critical Infrastructure Line Data - Potential Loss Table			
Hazard	Category	Type	Miles
Liquefaction	Transportation	Road_B	80.9
Liquefaction	Transportation	Road_C	1.9
Liquefaction	Transportation	Road_D	12.3
Liquefaction	Transportation	Road_P	0.5
Liquefaction	Water	Canal_ArtificialPath	34.3
Liquefaction	Water	Canal_Ditch	57.9
Liquefaction	Water	Connector	34.0
Liquefaction	Water	Pipeline_Aqueduct	2.4
Liquefaction	Water	Pipeline_GeneralCase_Underground	1.7
RMRS_WildFireHP_2020	Energy	ElectricPowerTransmissionLine	374.0
RMRS_WildFireHP_2020	Energy	Pipeline_NaturalGas	106.0
RMRS_WildFireHP_2020	Energy	Pipeline_Petro	58.9
RMRS_WildFireHP_2020	Natural	StreamRiver_Ephemeral	5,436.7
RMRS_WildFireHP_2020	Natural	StreamRiver_Intermittent	303.4
RMRS_WildFireHP_2020	Natural	StreamRiver_Perennial	514.4
RMRS_WildFireHP_2020	Recreation	Trail_RoadConcurrent	741.9
RMRS_WildFireHP_2020	Recreation	Trails	292.8
RMRS_WildFireHP_2020	Recreation	Trails_Hiking	40.4
RMRS_WildFireHP_2020	Recreation	Trails_HikingandBiking	17.3
RMRS_WildFireHP_2020	Transportation	Road	488.0
RMRS_WildFireHP_2020	Transportation	Road_A	231.3
RMRS_WildFireHP_2020	Transportation	Road_B	885.6
RMRS_WildFireHP_2020	Transportation	Road_C	12.3
RMRS_WildFireHP_2020	Transportation	Road_D	2,664.6

5.7.4.4 UNICORPORATED TOOELE COUNTY | RISK ASSESMENT RESULTS | LINE DATA

Unicorp. Tooele County - Critical Infrastructure Line Data - Potential Loss Table			
Hazard	Category	Type	Miles
RMRS_WildFireHP_2020	Transportation	Road_P	1.7
RMRS_WildFireHP_2020	Transportation	Road_X	1.3
RMRS_WildFireHP_2020	Water	Canal_ArtificialPath	19.0
RMRS_WildFireHP_2020	Water	Canal_Ditch	83.7
RMRS_WildFireHP_2020	Water	Connector	386.1
RMRS_WildFireHP_2020	Water	Dam	1.0
RMRS_WildFireHP_2020	Water	Pipeline_Aqueduct	10.7
RMRS_WildFireHP_2020	Water	Pipeline_AqueductUnderground	1.2
RMRS_WildFireHP_2020	Water	Pipeline_GeneralCase_Underground	31.9
SGID_EngineeringPS	Energy	ElectricPowerTransmissionLine	176.9
SGID_EngineeringPS	Energy	Pipeline_NaturalGas	38.6
SGID_EngineeringPS	Natural	StreamRiver_Ephemeral	1,088.5
SGID_EngineeringPS	Natural	StreamRiver_Intermittent	22.6
SGID_EngineeringPS	Natural	StreamRiver_Perennial	32.7
SGID_EngineeringPS	Recreation	Trail_RoadConcurrent	101.2
SGID_EngineeringPS	Recreation	Trails	216.0
SGID_EngineeringPS	Recreation	Trails_Hiking	23.8
SGID_EngineeringPS	Recreation	Trails_HikingandBiking	14.1
SGID_EngineeringPS	Transportation	Road	107.7
SGID_EngineeringPS	Transportation	Road_A	87.7
SGID_EngineeringPS	Transportation	Road_B	110.8
SGID_EngineeringPS	Transportation	Road_D	273.1
SGID_EngineeringPS	Transportation	Road_X	0.6
SGID_EngineeringPS	Water	Canal_ArtificialPath	0.9

Unicorp. Tooele County - Critical Infrastructure Line Data - Potential Loss Table			
Hazard	Category	Type	Miles
SGID_EngineeringPS	Water	Canal_Ditch	26.7
SGID_EngineeringPS	Water	Connector	24.3
SteepSlope	Energy	ElectricPowerTransmissionLine	222.5
SteepSlope	Energy	Pipeline_NaturalGas	65.7
SteepSlope	Energy	Pipeline_Petro	58.9
SteepSlope	Natural	StreamRiver_Ephemeral	3,570.3
SteepSlope	Natural	StreamRiver_Intermittent	128.3
SteepSlope	Natural	StreamRiver_Perennial	231.1
SteepSlope	Recreation	Trail_RoadConcurrent	159.7
SteepSlope	Recreation	Trails	265.0
SteepSlope	Recreation	Trails_Hiking	40.4
SteepSlope	Recreation	Trails_HikingandBiking	17.3
SteepSlope	Transportation	Road	68.8
SteepSlope	Transportation	Road_A	33.1
SteepSlope	Transportation	Road_B	127.3
SteepSlope	Transportation	Road_C	0.3
SteepSlope	Transportation	Road_D	523.2
SteepSlope	Transportation	Road_X	0.4
SteepSlope	Water	Canal_ArtificialPath	0.1
SteepSlope	Water	Canal_Ditch	5.4
SteepSlope	Water	Connector	17.2
SteepSlope	Water	Pipeline_AqueductUnderground	1.2
SteepSlope	Water	Pipeline_GeneralCase_Underground	21.5
WildlifeAuto	Energy	ElectricPowerTransmissionLine	141.4

5.7.4.4 UNICORPORATED TOOELE COUNTY | RISK ASSESMENT RESULTS | LINE DATA

Unicorp. Tooele County - Critical Infrastructure Line Data - Potential Loss Table			
Hazard	Category	Type	Miles
WildlifeAuto	Energy	Pipeline_NaturalGas	17.5
WildlifeAuto	Energy	Pipeline_Petro	58.9
WildlifeAuto	Natural	StreamRiver_Ephemeral	2.1
WildlifeAuto	Transportation	Road	0.3
WildlifeAuto	Transportation	Road_A	3.2
WildlifeAuto	Transportation	Road_B	0.5
WildlifeAuto	Transportation	Road_C	0.1
WildlifeAuto	Transportation	Road_D	2.8
WildlifeAuto	Water	Connector	2.6

Unicorp. Tooele County - Critical Infrastructure Area Data - Potential Loss Table			
Hazard	Category	Type	Acres
AlluvialFan	Agricultural	Agriculture_Parcel	1,386.5
AlluvialFan	Agricultural	AgricultureWRLA_DryCrop	1,205.8
AlluvialFan	Agricultural	AgricultureWRLA_Food	88.5
AlluvialFan	Agricultural	AgricultureWRLU_Sprinkler	116.1
AlluvialFan	Agricultural	AgricultureWRLU_SubIrrigated	0.9
AlluvialFan	Agricultural	GrazingAllotment	89,182.1
AlluvialFan	Natural	LakePond_Intermittent	0.9
AlluvialFan	Natural	LakePond_Perennial	1.2
AlluvialFan	Natural	Riparian	4.2
AlluvialFan	Natural	Wetland	788.6
AlluvialFan	Water	GWPZone_1	0.7
AlluvialFan	Water	GWPZone_2	1,123.0
AlluvialFan	Water	GWPZone_3	7,620.5
AlluvialFan	Water	GWPZone_4	61,554.7
AlluvialFan	Water	RetailCulinaryWaterServiceArea	18,248.9
AvalanchTerrain	Agricultural	Agriculture_Parcel	184.7
AvalanchTerrain	Agricultural	AgricultureWRLU_Sprinkler	3.6
AvalanchTerrain	Agricultural	GrazingAllotment	1,977,181.2
AvalanchTerrain	Natural	LakePond_Intermittent	0.2
AvalanchTerrain	Natural	LakePond_Perennial	2.9
AvalanchTerrain	Natural	Reservoir_DisposalEarthen	51.6
AvalanchTerrain	Natural	Wetland	14,818.7
AvalanchTerrain	Water	GWPZone_1	7.9
AvalanchTerrain	Water	GWPZone_2	9,098.5

Unicorp. Tooele County - Critical Infrastructure Area Data - Potential Loss Table			
Hazard	Category	Type	Acres
AvalanchTerrain	Water	GWPZone_3	22,098.6
AvalanchTerrain	Water	GWPZone_4	155,602.4
AvalanchTerrain	Water	RetailCulinaryWaterServiceArea	63,241.7
AvalanchTerrain	Water	SurfaceWaterProtectionZone	1,783.9
AvalanchTerrain	Water	TransientNCZone_4	1,961.3
DebrisFlow	Agricultural	Agriculture_Parcel	57.2
DebrisFlow	Agricultural	AgricultureWRLA_DryCrop	49.2
DebrisFlow	Agricultural	GrazingAllotment	122,731.5
DebrisFlow	Natural	LakePond_Perennial	0.9
DebrisFlow	Natural	Riparian	535.7
DebrisFlow	Natural	Wetland	1,492.4
DebrisFlow	Water	GWPZone_1	8.6
DebrisFlow	Water	GWPZone_2	8,375.7
DebrisFlow	Water	GWPZone_3	21,270.7
DebrisFlow	Water	GWPZone_4	154,413.1
DebrisFlow	Water	RetailCulinaryWaterServiceArea	20,434.9
DebrisFlow	Water	SurfaceWaterProtectionZone	1,783.9
DwellingsWithBasements	Agricultural	Agriculture_Parcel	43,982.9
DwellingsWithBasements	Agricultural	AgricultureWRLA_DryCrop	9,801.4
DwellingsWithBasements	Agricultural	AgricultureWRLA_Food	8,882.4
DwellingsWithBasements	Agricultural	AgricultureWRLU_Sprinkler	9,105.9
DwellingsWithBasements	Agricultural	AgricultureWRLU_SubIrrigated	6,982.0
DwellingsWithBasements	Agricultural	GrazingAllotment	2,161,080.3
DwellingsWithBasements	Natural	LakePond_Intermittent	14,210.9

Unicorp. Tooele County - Critical Infrastructure Area Data - Potential Loss Table			
Hazard	Category	Type	Acres
DwellingsWithBasements	Natural	LakePond_Perennial	169,706.7
DwellingsWithBasements	Natural	Reservoir_DisposalEarthen	51.6
DwellingsWithBasements	Natural	Reservoir_Earthen	1,071.0
DwellingsWithBasements	Natural	Reservoir_Evaporator	16,426.6
DwellingsWithBasements	Natural	Reservoir_Treatment	2.1
DwellingsWithBasements	Natural	Reservoir_ WaterStorageNonearthen	0.5
DwellingsWithBasements	Natural	Riparian	13,447.4
DwellingsWithBasements	Natural	Wetland	1,667,579.8
DwellingsWithBasements	Natural	Wetland_SwampMarsh	6,916.8
DwellingsWithBasements	Transportation	Airport_WRAP	230.5
DwellingsWithBasements	Water	GWPZone_1	23.1
DwellingsWithBasements	Water	GWPZone_2	9,672.0
DwellingsWithBasements	Water	GWPZone_3	26,055.5
DwellingsWithBasements	Water	GWPZone_4	166,040.9
DwellingsWithBasements	Water	RetailCulinaryWaterServiceArea	84,421.1
DwellingsWithBasements	Water	SurfaceWaterProtectionZone	1,783.9
DwellingsWithBasements	Water	TransientNCZone_2	43.9
DwellingsWithBasements	Water	TransientNCZone_4	9,806.5
DwellingsWithoutBasements	Agricultural	Agriculture_Parcel	43,982.9
DwellingsWithoutBasements	Agricultural	AgricultureWRLA_DryCrop	9,801.4
DwellingsWithoutBasements	Agricultural	AgricultureWRLA_Food	8,882.4
DwellingsWithoutBasements	Agricultural	AgricultureWRLU_Sprinkler	9,105.9
DwellingsWithoutBasements	Agricultural	AgricultureWRLU_SubIrrigated	6,982.0

Unicorp. Tooele County - Critical Infrastructure Area Data - Potential Loss Table			
Hazard	Category	Type	Acres
DwellingsWithoutBasements	Agricultural	GrazingAllotment	2,161,080.3
DwellingsWithoutBasements	Natural	LakePond_Intermittent	14,210.9
DwellingsWithoutBasements	Natural	LakePond_Perennial	169,706.7
DwellingsWithoutBasements	Natural	Reservoir_DisposalEarthen	51.6
DwellingsWithoutBasements	Natural	Reservoir_Earthen	1,071.0
DwellingsWithoutBasements	Natural	Reservoir_Evaporator	16,426.6
DwellingsWithoutBasements	Natural	Reservoir_Treatment	2.1
DwellingsWithoutBasements	Natural	Reservoir_ WaterStorageNonearthen	0.5
DwellingsWithoutBasements	Natural	Riparian	13,447.4
DwellingsWithoutBasements	Natural	Wetland	1,667,579.8
DwellingsWithoutBasements	Natural	Wetland_SwampMarsh	6,916.8
DwellingsWithoutBasements	Transportation	Airport_WRAP	230.5
DwellingsWithoutBasements	Water	GWPZone_1	23.1
DwellingsWithoutBasements	Water	GWPZone_2	9,672.0
DwellingsWithoutBasements	Water	GWPZone_3	26,055.5
DwellingsWithoutBasements	Water	GWPZone_4	166,040.9
DwellingsWithoutBasements	Water	RetailCulinaryWaterServiceArea	84,421.1
DwellingsWithoutBasements	Water	SurfaceWaterProtectionZone	1,783.9
DwellingsWithoutBasements	Water	TransientNCZone_2	43.9
DwellingsWithoutBasements	Water	TransientNCZone_4	9,806.5
Erosion_OffRoadTrail	Agricultural	Agriculture_Parcel	1,189.4
Erosion_OffRoadTrail	Agricultural	AgricultureWRLA_DryCrop	250.3
Erosion_OffRoadTrail	Agricultural	AgricultureWRLA_Food	148.5

Unicorp. Tooele County - Critical Infrastructure Area Data - Potential Loss Table			
Hazard	Category	Type	Acres
Erosion_OffRoadTrail	Agricultural	AgricultureWRLU_Sprinkler	25.5
Erosion_OffRoadTrail	Agricultural	AgricultureWRLU_SubIrrigated	58.3
Erosion_OffRoadTrail	Agricultural	GrazingAllotment	1,985,779.2
Erosion_OffRoadTrail	Natural	LakePond_Intermittent	5.5
Erosion_OffRoadTrail	Natural	LakePond_Perennial	46.4
Erosion_OffRoadTrail	Natural	Reservoir_DisposalEarthen	51.6
Erosion_OffRoadTrail	Natural	Riparian	641.5
Erosion_OffRoadTrail	Natural	Wetland	18,680.9
Erosion_OffRoadTrail	Water	GWPZone_1	10.8
Erosion_OffRoadTrail	Water	GWPZone_2	9,159.9
Erosion_OffRoadTrail	Water	GWPZone_3	22,217.5
Erosion_OffRoadTrail	Water	GWPZone_4	158,433.0
Erosion_OffRoadTrail	Water	RetailCulinaryWaterServiceArea	51,294.4
Erosion_OffRoadTrail	Water	SurfaceWaterProtectionZone	1,783.9
Erosion_OffRoadTrail	Water	TransientNCZone_2	22.0
Erosion_OffRoadTrail	Water	TransientNCZone_4	1,961.3
Erosion_RoadTrail	Agricultural	Agriculture_Parcel	20,600.5
Erosion_RoadTrail	Agricultural	AgricultureWRLA_DryCrop	6,396.1
Erosion_RoadTrail	Agricultural	AgricultureWRLA_Food	5,003.7
Erosion_RoadTrail	Agricultural	AgricultureWRLU_Sprinkler	2,563.3
Erosion_RoadTrail	Agricultural	AgricultureWRLU_SubIrrigated	583.0
Erosion_RoadTrail	Agricultural	GrazingAllotment	2,134,635.0
Erosion_RoadTrail	Natural	LakePond_Intermittent	52.1
Erosion_RoadTrail	Natural	LakePond_Perennial	34,981.7

Unicorp. Tooele County - Critical Infrastructure Area Data - Potential Loss Table			
Hazard	Category	Type	Acres
Erosion_RoadTrail	Natural	Reservoir_DisposalEarthen	51.6
Erosion_RoadTrail	Natural	Reservoir_Evaporator	6,349.5
Erosion_RoadTrail	Natural	Reservoir_Treatment	0.1
Erosion_RoadTrail	Natural	Reservoir_ WaterStorageNonearthen	0.5
Erosion_RoadTrail	Natural	Riparian	7,410.7
Erosion_RoadTrail	Natural	Wetland	1,565,226.2
Erosion_RoadTrail	Natural	Wetland_SwampMarsh	68.8
Erosion_RoadTrail	Water	GWPZone_1	22.3
Erosion_RoadTrail	Water	GWPZone_2	9,527.9
Erosion_RoadTrail	Water	GWPZone_3	25,275.6
Erosion_RoadTrail	Water	GWPZone_4	163,765.1
Erosion_RoadTrail	Water	RetailCulinaryWaterServiceArea	81,678.2
Erosion_RoadTrail	Water	SurfaceWaterProtectionZone	1,783.9
Erosion_RoadTrail	Water	TransientNCZone_2	22.0
Erosion_RoadTrail	Water	TransientNCZone_4	9,806.5
FaultHazardZone	Agricultural	Agriculture_Parcel	4,417.2
FaultHazardZone	Agricultural	AgricultureWRLA_DryCrop	2,462.7
FaultHazardZone	Agricultural	AgricultureWRLA_Food	331.2
FaultHazardZone	Agricultural	AgricultureWRLU_Sprinkler	355.7
FaultHazardZone	Agricultural	AgricultureWRLU_SubIrrigated	111.8
FaultHazardZone	Agricultural	GrazingAllotment	1,322,113.5
FaultHazardZone	Natural	LakePond_Intermittent	8.3
FaultHazardZone	Natural	LakePond_Perennial	129,745.8

Unicorp. Tooele County - Critical Infrastructure Area Data - Potential Loss Table			
Hazard	Category	Type	Acres
FaultHazardZone	Natural	Riparian	508.0
FaultHazardZone	Natural	Wetland	99,161.9
FaultHazardZone	Water	GWPZone_1	10.1
FaultHazardZone	Water	GWPZone_2	2,378.4
FaultHazardZone	Water	GWPZone_3	12,516.7
FaultHazardZone	Water	GWPZone_4	69,679.0
FaultHazardZone	Water	RetailCulinaryWaterServiceArea	6,307.0
FaultHazardZone	Water	TransientNCZone_4	3,922.6
FEMA_FloodZone	Agricultural	Agriculture_Parcel	1,684.3
FEMA_FloodZone	Agricultural	AgricultureWRLA_DryCrop	181.4
FEMA_FloodZone	Agricultural	AgricultureWRLA_Food	301.9
FEMA_FloodZone	Agricultural	AgricultureWRLU_Sprinkler	569.3
FEMA_FloodZone	Agricultural	AgricultureWRLU_SubIrrigated	429.3
FEMA_FloodZone	Agricultural	GrazingAllotment	53,998.2
FEMA_FloodZone	Natural	LakePond_Perennial	129,730.5
FEMA_FloodZone	Natural	Riparian	0.9
FEMA_FloodZone	Natural	Wetland	10,758.5
FEMA_FloodZone	Water	GWPZone_1	0.7
FEMA_FloodZone	Water	GWPZone_2	433.8
FEMA_FloodZone	Water	GWPZone_3	1,713.7
FEMA_FloodZone	Water	GWPZone_4	15,919.2
FEMA_FloodZone	Water	RetailCulinaryWaterServiceArea	39,987.9
Flood_DamInundation	Agricultural	Agriculture_Parcel	11,588.8
Flood_DamInundation	Agricultural	AgricultureWRLA_DryCrop	817.5

Unicorp. Tooele County - Critical Infrastructure Area Data - Potential Loss Table			
Hazard	Category	Type	Acres
Flood_DamInundation	Agricultural	AgricultureWRLA_Food	1,384.5
Flood_DamInundation	Agricultural	AgricultureWRLU_Sprinkler	2,888.0
Flood_DamInundation	Agricultural	AgricultureWRLU_SubIrrigated	3,576.0
Flood_DamInundation	Agricultural	GrazingAllotment	42,797.2
Flood_DamInundation	Natural	LakePond_Intermittent	134.8
Flood_DamInundation	Natural	LakePond_Perennial	129,827.2
Flood_DamInundation	Natural	Reservoir_Evaporator	266.5
Flood_DamInundation	Natural	Riparian	2,048.0
Flood_DamInundation	Natural	Wetland	53,732.5
Flood_DamInundation	Natural	Wetland_SwampMarsh	132.5
Flood_DamInundation	Transportation	Airport_WRAP	230.5
Flood_DamInundation	Water	GWPZone_1	2.2
Flood_DamInundation	Water	GWPZone_2	31.7
Flood_DamInundation	Water	GWPZone_3	230.3
Flood_DamInundation	Water	GWPZone_4	1,261.5
Flood_DamInundation	Water	RetailCulinaryWaterServiceArea	61,781.9
Flood_GSL	Agricultural	Agriculture_Parcel	2,934.1
Flood_GSL	Agricultural	AgricultureWRLA_Food	73.1
Flood_GSL	Agricultural	AgricultureWRLU_SubIrrigated	630.9
Flood_GSL	Agricultural	GrazingAllotment	79,543.7
Flood_GSL	Natural	LakePond_Intermittent	119.8
Flood_GSL	Natural	LakePond_Perennial	167,423.5
Flood_GSL	Natural	Reservoir_Evaporator	1,312.0
Flood_GSL	Natural	Riparian	1,644.8

Unicorp. Tooele County - Critical Infrastructure Area Data - Potential Loss Table			
Hazard	Category	Type	Acres
Flood_GSL	Natural	Wetland	166,711.1
Flood_GSL	Natural	Wetland_SwampMarsh	344.7
Flood_GSL	Water	RetailCulinaryWaterServiceArea	4,682.1
Flood_SoilsPurdue	Agricultural	Agriculture_Parcel	16,017.9
Flood_SoilsPurdue	Agricultural	AgricultureWRLA_DryCrop	2,017.7
Flood_SoilsPurdue	Agricultural	AgricultureWRLA_Food	4,820.3
Flood_SoilsPurdue	Agricultural	AgricultureWRLU_Sprinkler	1,279.0
Flood_SoilsPurdue	Agricultural	AgricultureWRLU_SubIrrigated	1,792.4
Flood_SoilsPurdue	Agricultural	GrazingAllotment	1,101,540.0
Flood_SoilsPurdue	Natural	LakePond_Intermittent	1,158.8
Flood_SoilsPurdue	Natural	LakePond_Perennial	2,525.5
Flood_SoilsPurdue	Natural	Reservoir_Earthen	1,071.0
Flood_SoilsPurdue	Natural	Reservoir_Evaporator	1,828.2
Flood_SoilsPurdue	Natural	Riparian	10,186.2
Flood_SoilsPurdue	Natural	Wetland	1,505,424.9
Flood_SoilsPurdue	Natural	Wetland_SwampMarsh	6,094.0
Flood_SoilsPurdue	Water	GWPZone_1	5.8
Flood_SoilsPurdue	Water	GWPZone_2	540.4
Flood_SoilsPurdue	Water	GWPZone_3	6,377.7
Flood_SoilsPurdue	Water	GWPZone_4	105,278.3
Flood_SoilsPurdue	Water	RetailCulinaryWaterServiceArea	72,144.0
Flood_SoilsPurdue	Water	TransientNCZone_4	1,961.3
Flood_USUValleyBottom	Agricultural	Agriculture_Parcel	8,817.1

Unicorp. Tooele County - Critical Infrastructure Area Data - Potential Loss Table			
Hazard	Category	Type	Acres
Flood_USUValleyBottom	Agricultural	AgricultureWRLA_DryCrop	173.1
Flood_USUValleyBottom	Agricultural	AgricultureWRLA_Food	4,403.7
Flood_USUValleyBottom	Agricultural	AgricultureWRLU_Sprinkler	606.2
Flood_USUValleyBottom	Agricultural	AgricultureWRLU_SubIrrigated	2,221.5
Flood_USUValleyBottom	Agricultural	GrazingAllotment	616,255.9
Flood_USUValleyBottom	Natural	LakePond_Intermittent	3.4
Flood_USUValleyBottom	Natural	LakePond_Perennial	321.3
Flood_USUValleyBottom	Natural	Riparian	2,049.1
Flood_USUValleyBottom	Natural	Wetland	63,466.5
Flood_USUValleyBottom	Natural	Wetland_SwampMarsh	387.9
Flood_USUValleyBottom	Water	GWPZone_1	5.8
Flood_USUValleyBottom	Water	GWPZone_2	5,404.2
Flood_USUValleyBottom	Water	GWPZone_3	8,361.7
Flood_USUValleyBottom	Water	GWPZone_4	96,308.1
Flood_USUValleyBottom	Water	RetailCulinaryWaterServiceArea	27,229.5
Flood_USUValleyBottom	Water	SurfaceWaterProtectionZone	1,514.9
Flood_USUValleyBottom	Water	TransientNCZone_2	22.0
Flood_USUValleyBottom	Water	TransientNCZone_4	1,961.3
Flood_Wetland_Riparian	Agricultural	Agriculture_Parcel	41,941.0
Flood_Wetland_Riparian	Agricultural	AgricultureWRLA_DryCrop	10,028.3
Flood_Wetland_Riparian	Agricultural	AgricultureWRLA_Food	8,035.6
Flood_Wetland_Riparian	Agricultural	AgricultureWRLU_Sprinkler	7,751.1
Flood_Wetland_Riparian	Agricultural	AgricultureWRLU_SubIrrigated	6,864.3
Flood_Wetland_Riparian	Agricultural	GrazingAllotment	2,153,945.0

Unicorp. Tooele County - Critical Infrastructure Area Data - Potential Loss Table			
Hazard	Category	Type	Acres
Flood_Wetland_Riparian	Natural	LakePond_Intermittent	14,258.4
Flood_Wetland_Riparian	Natural	LakePond_Perennial	169,770.7
Flood_Wetland_Riparian	Natural	Reservoir_DisposalEarthen	51.6
Flood_Wetland_Riparian	Natural	Reservoir_Earthen	1,071.0
Flood_Wetland_Riparian	Natural	Reservoir_Evaporator	54,254.4
Flood_Wetland_Riparian	Natural	Reservoir_Treatment	3.0
Flood_Wetland_Riparian	Natural	Reservoir_ WaterStorageNonearthen	0.5
Flood_Wetland_Riparian	Natural	Riparian	13,538.8
Flood_Wetland_Riparian	Natural	Wetland	1,711,384.3
Flood_Wetland_Riparian	Natural	Wetland_SwampMarsh	6,916.8
Flood_Wetland_Riparian	Transportation	Airport_WRAP	230.5
Flood_Wetland_Riparian	Water	GWPZone_1	13.0
Flood_Wetland_Riparian	Water	GWPZone_2	10,023.1
Flood_Wetland_Riparian	Water	GWPZone_3	26,072.3
Flood_Wetland_Riparian	Water	GWPZone_4	166,999.2
Flood_Wetland_Riparian	Water	RetailCulinaryWaterServiceArea	78,757.1
Flood_Wetland_Riparian	Water	SurfaceWaterProtectionZone	1,783.9
Flood_Wetland_Riparian	Water	TransientNCZone_2	87.8
Flood_Wetland_Riparian	Water	TransientNCZone_4	15,690.4
Landslide	Agricultural	Agriculture_Parcel	90.8
Landslide	Agricultural	AgricultureWRLA_DryCrop	103.1
Landslide	Agricultural	GrazingAllotment	723,679.2
Landslide	Natural	LakePond_Perennial	129,730.3

Unicorp. Tooele County - Critical Infrastructure Area Data - Potential Loss Table			
Hazard	Category	Type	Acres
Landslide	Natural	Reservoir_DisposalEarthen	51.6
Landslide	Natural	Wetland	1,523.9
Landslide	Water	GWPZone_1	1.4
Landslide	Water	GWPZone_2	1,826.5
Landslide	Water	GWPZone_3	4,246.0
Landslide	Water	GWPZone_4	111,534.1
Landslide	Water	SurfaceWaterProtectionZone	1,783.9
Liquefaction	Agricultural	Agriculture_Parcel	18,559.1
Liquefaction	Agricultural	AgricultureWRLA_DryCrop	2,253.6
Liquefaction	Agricultural	AgricultureWRLA_Food	2,729.2
Liquefaction	Agricultural	AgricultureWRLU_Sprinkler	4,259.9
Liquefaction	Agricultural	AgricultureWRLU_SubIrrigated	4,678.5
Liquefaction	Agricultural	GrazingAllotment	77,614.0
Liquefaction	Natural	LakePond_Intermittent	1,236.2
Liquefaction	Natural	LakePond_Perennial	130,822.2
Liquefaction	Natural	Reservoir_Earthen	1,071.0
Liquefaction	Natural	Reservoir_Evaporator	3,631.4
Liquefaction	Natural	Riparian	4,656.0
Liquefaction	Natural	Wetland	86,390.5
Liquefaction	Natural	Wetland_SwampMarsh	592.0
Liquefaction	Transportation	Airport_WRAP	230.5
Liquefaction	Water	GWPZone_1	1.4
Liquefaction	Water	GWPZone_2	107.4

Unicorp. Tooele County - Critical Infrastructure Area Data - Potential Loss Table			
Hazard	Category	Type	Acres
Liquefaction	Water	GWPZone_3	1,987.9
Liquefaction	Water	GWPZone_4	15,434.6
Liquefaction	Water	RetailCulinaryWaterServiceArea	28,196.0
RMRS_WildFireHP_2020	Agricultural	Agriculture_Parcel	46,158.8
RMRS_WildFireHP_2020	Agricultural	AgricultureWRLA_DryCrop	13,950.8
RMRS_WildFireHP_2020	Agricultural	AgricultureWRLA_Food	8,915.6
RMRS_WildFireHP_2020	Agricultural	AgricultureWRLU_Sprinkler	9,010.9
RMRS_WildFireHP_2020	Agricultural	AgricultureWRLU_SubIrrigated	7,015.6
RMRS_WildFireHP_2020	Agricultural	GrazingAllotment	2,130,214.3
RMRS_WildFireHP_2020	Natural	LakePond_Intermittent	1,344.0
RMRS_WildFireHP_2020	Natural	LakePond_Perennial	166,980.5
RMRS_WildFireHP_2020	Natural	Reservoir_Evaporator	109.8
RMRS_WildFireHP_2020	Natural	Reservoir_Treatment	1.7
RMRS_WildFireHP_2020	Natural	Reservoir_ WaterStorageNonearthen	2.1
RMRS_WildFireHP_2020	Natural	Riparian	11,970.0
RMRS_WildFireHP_2020	Natural	Wetland	1,236,148.3
RMRS_WildFireHP_2020	Natural	Wetland_SwampMarsh	6,388.3
RMRS_WildFireHP_2020	Transportation	Airport_WRAP	230.5
RMRS_WildFireHP_2020	Water	GWPZone_1	32.4
RMRS_WildFireHP_2020	Water	GWPZone_2	10,224.2
RMRS_WildFireHP_2020	Water	GWPZone_3	26,675.5
RMRS_WildFireHP_2020	Water	GWPZone_4	168,770.9
RMRS_WildFireHP_2020	Water	RetailCulinaryWaterServiceArea	78,533.6

Unicorp. Tooele County - Critical Infrastructure Area Data - Potential Loss Table			
Hazard	Category	Type	Acres
RMRS_WildFireHP_2020	Water	SurfaceWaterProtectionZone	1,783.9
RMRS_WildFireHP_2020	Water	TransientNCZone_2	153.7
RMRS_WildFireHP_2020	Water	TransientNCZone_4	15,690.4
SGID_EngineeringPS	Agricultural	Agriculture_Parcel	2,203.3
SGID_EngineeringPS	Agricultural	AgricultureWRLA_DryCrop	690.4
SGID_EngineeringPS	Agricultural	AgricultureWRLU_Sprinkler	306.9
SGID_EngineeringPS	Agricultural	GrazingAllotment	1,490,975.9
SGID_EngineeringPS	Natural	LakePond_Intermittent	6.0
SGID_EngineeringPS	Natural	LakePond_Perennial	0.2
SGID_EngineeringPS	Natural	Reservoir_DisposalEarthen	51.6
SGID_EngineeringPS	Natural	Reservoir_Evaporator	5,315.5
SGID_EngineeringPS	Natural	Riparian	416.6
SGID_EngineeringPS	Natural	Wetland	1,440,882.1
SGID_EngineeringPS	Water	GWPZone_1	2.2
SGID_EngineeringPS	Water	GWPZone_2	1,039.4
SGID_EngineeringPS	Water	GWPZone_3	2,630.4
SGID_EngineeringPS	Water	GWPZone_4	10,649.5
SGID_EngineeringPS	Water	RetailCulinaryWaterServiceArea	43,232.6
SGID_EngineeringPS	Water	SurfaceWaterProtectionZone	1,783.9
SteepSlope	Agricultural	Agriculture_Parcel	3,052.5
SteepSlope	Agricultural	AgricultureWRLA_DryCrop	527.3
SteepSlope	Agricultural	AgricultureWRLA_Food	78.3
SteepSlope	Agricultural	AgricultureWRLU_Sprinkler	113.2

Unicorp. Tooele County - Critical Infrastructure Area Data - Potential Loss Table			
Hazard	Category	Type	Acres
SteepSlope	Agricultural	AgricultureWRLU_SubIrrigated	143.1
SteepSlope	Agricultural	GrazingAllotment	2,082,410.0
SteepSlope	Natural	LakePond_Intermittent	1.1
SteepSlope	Natural	LakePond_Perennial	34,912.2
SteepSlope	Natural	Riparian	430.2
SteepSlope	Natural	Wetland	1,414,047.9
SteepSlope	Water	GWPZone_1	13.0
SteepSlope	Water	GWPZone_2	9,153.6
SteepSlope	Water	GWPZone_3	22,450.2
SteepSlope	Water	GWPZone_4	159,290.3
SteepSlope	Water	RetailCulinaryWaterServiceArea	69,578.7
SteepSlope	Water	SurfaceWaterProtectionZone	1,783.9
SteepSlope	Water	TransientNCZone_4	5,883.9
WildlifeAuto	Agricultural	GrazingAllotment	19,559.7
WildlifeAuto	Natural	Wetland	124.9
WildlifeAuto	Water	GWPZone_4	28,015.6
WildlifeAuto	Water	RetailCulinaryWaterServiceArea	13,925.3

5.7.5 UNICORPORATED TOOELE COUNTY - MITIGATION STRATAGIES

TOOELE COUNTY 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 warning system	NFIP compliant?	N/A
AVALANCHE - CURRENT RESIDENTS/PROPERTY	Increase knowledge for city and county emergency managers	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Low
		Responsible Entity	County
		Timeframe	2025
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	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Medium
		Responsible Entity	County
		Timeframe	2023
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	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County

TOOELE COUNTY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
DAM FAILURE - CURRENT RESIDENTS/PROPERTY	Promote National Dam Safety Awareness Day	Priority	Medium
		Responsible Entity	County
		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	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	State UGS
		Priority	High
		Responsible Entity	County
		Timeframe	2022
DAM FAILURE - CURRENT RESIDENTS/PROPERTY	Work with the Utah Division of Water Rights and dam companies to install a dam monitoring system	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Medium
		Responsible Entity	County
		Timeframe	2023
DAM FAILURE - CURRENT RESIDENTS/PROPERTY	Work with the Utah Division of Water Rights and dam companies to update dam emergency action plans	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
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	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	State UGS
		Priority	High
		Responsible Entity	County
		Timeframe	2023
DAM FAILURE - FUTURE RESIDENTS/PROPERTY	Identify areas of encroachment below high hazard dams especially in dam inundation areas	NFIP compliant?	N/A
		Estimated Cost	$0 - $25 K

TOOELE COUNTY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
DAM FAILURE - FUTURE RESIDENTS/PROPERTY	Promote National Dam Safety Awareness Day	NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
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	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	State UGS
		Priority	High
		Responsible Entity	County
		Timeframe	2023
DAM FAILURE - FUTURE RESIDENTS/PROPERTY	Work with the Utah Division of Water Rights and dam companies to install a dam monitoring system	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	State UGS
		Priority	High
		Responsible Entity	County
		Timeframe	2023
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
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
DROUGHT - CURRENT RESIDENTS/PROPERTY	Designate and or preserve adequate source water protection zones or groundwater recharge areas	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Medium
		Responsible Entity	County
		Timeframe	2022
		Estimated Cost	$0 - $25 K

TOOELE COUNTY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
DROUGHT - CURRENT RESIDENTS/PROPERTY	Educate Decision Makers and Government Employees on Water Saving Techniques (list event details in "comments")	NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
DROUGHT - CURRENT RESIDENTS/PROPERTY	Educate Residents on Water Saving Techniques (list event details in "comments")	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
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	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Low
		Responsible Entity	County
		Timeframe	2022
DROUGHT - CURRENT RESIDENTS/PROPERTY	Expand and Improve Existing Potable Water Systems	NFIP compliant?	N/A
DROUGHT - CURRENT RESIDENTS/PROPERTY	Improve Public Water Infrastructure and Management with Water Provider	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2023
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	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County

TOOELE COUNTY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Timeframe	2022
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	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
DROUGHT - FUTURE RESIDENTS/PROPERTY	Designate and or preserve adequate source water protection zones or groundwater recharge areas	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Medium
		Responsible Entity	County
		Timeframe	2023
DROUGHT - FUTURE RESIDENTS/PROPERTY	Educate Decision Makers and Government Employees on Water Saving Techniques (list event details in "comments")	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
DROUGHT - FUTURE RESIDENTS/PROPERTY	Educate Residents on Water Saving Techniques (list event details in "comments")	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
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	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High

TOOELE COUNTY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Responsible Entity	County
		Timeframe	2022
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	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2023
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	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Building Code Adoption and Enforcement	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Conduct Building Safety Inspections	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
		Estimated Cost	$0 - $25 K

TOOELE COUNTY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Conduct Outreach to Builders Architects Engineers and Inspectors	NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Low
		Responsible Entity	County
		Timeframe	2022
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	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		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)	Estimated Cost	$1 Mil +
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Low
		Responsible Entity	County
		Timeframe	2025
EARTHQUAKE - FUTURE RESIDENTS/PROPERTY	Building Code Adoption and Enforcement	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
EARTHQUAKE - FUTURE RESIDENTS/PROPERTY	Conduct Building Safety Inspections	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County

TOOELE COUNTY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Timeframe	2022
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	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		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)	Estimated Cost	$1 Mil +
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Low
		Responsible Entity	County
		Timeframe	2025
FLOOD - CURRENT RESIDENTS/PROPERTY	Adopt and Enforce Building Codes and Development Standards	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
FLOOD - CURRENT RESIDENTS/PROPERTY	Conduct Regular Maintenance for Drainage Systems and Flood Control Structures	Estimated Cost	$50 K - $100 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
		Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk

TOOELE COUNTY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
FLOOD - CURRENT RESIDENTS/PROPERTY	Coordination and Partnerships i.e. develop stormwater committee regional watershed council local councils etc	Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
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	Estimated Cost	$50 K - $100 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2023
FLOOD - CURRENT RESIDENTS/PROPERTY	Improve Stormwater Drainage Capacity	NFIP compliant?	N/A
FLOOD - CURRENT RESIDENTS/PROPERTY	Information and educational events (list details in "comments" section)	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
FLOOD - CURRENT RESIDENTS/PROPERTY	Other local planning mechanisms such as joining the NFIP creating risk plans establishing green infrastructure plan etc	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Medium
		Responsible Entity	County
		Timeframe	2023
FLOOD - CURRENT RESIDENTS/PROPERTY	Preserve Floodplains and Open Space through ordinances land purchase conservation easements etc	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Low
		Responsible Entity	County
		Timeframe	2022
		Estimated Cost	$250 K - $500 K

TOOELE COUNTY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
FLOOD - CURRENT RESIDENTS/PROPERTY	Protect and Restore Natural Flood Mitigation Features through natural greenway protection and restoration	NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
FLOOD - CURRENT RESIDENTS/PROPERTY	Protect Infrastructure such as roads bridges wastewater treatment etc	Estimated Cost	$250 K - $500 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
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	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
FLOOD - CURRENT RESIDENTS/PROPERTY	Stormwater Management Planning	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Medium
		Responsible Entity	County
		Timeframe	2023
FLOOD - FUTURE RESIDENTS/PROPERTY	Adopt and Enforce Building Codes and Development Standards	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
		Estimated Cost	$50 K - $100 K

TOOELE COUNTY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
FLOOD - FUTURE RESIDENTS/PROPERTY	Conduct Regular Maintenance for Drainage Systems and Flood Control Structures	NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
FLOOD - FUTURE RESIDENTS/PROPERTY	Coordination and Partnerships i.e. develop stormwater committee regional watershed council local councils etc	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Medium
		Responsible Entity	County
		Timeframe	2022
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	Estimated Cost	$100 K - $250 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
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)	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
FLOOD - FUTURE RESIDENTS/PROPERTY	Other local planning mechanisms such as joining the NFIP creating risk plans establishing green infrastructure plan etc	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Medium
		Responsible Entity	County
		Timeframe	2023

TOOELE COUNTY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
FLOOD - FUTURE RESIDENTS/PROPERTY	Preserve Floodplains and Open Space through ordinances land purchase conservation easements etc	NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Medium
		Responsible Entity	County
		Timeframe	2022
FLOOD - FUTURE RESIDENTS/PROPERTY	Protect and Restore Natural Flood Mitigation Features through natural greenway protection and restoration	Estimated Cost	$50 K - $100 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Medium
		Responsible Entity	County
		Timeframe	2023
FLOOD - FUTURE RESIDENTS/PROPERTY	Protect Infrastructure such as roads bridges wastewater treatment etc	Estimated Cost	$1 Mil +
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
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	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
FLOOD - FUTURE RESIDENTS/PROPERTY	Stormwater Management Planning	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Medium
		Responsible Entity	County
		Timeframe	2023
		Estimated Cost	$25 K - $50 K

TOOELE COUNTY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
LANDSLIDE/STEEP SLOPES - CURRENT RESIDENTS/PROPERTY	Apply soil stabilization measures such as planting soil stabilizing vegetation on steep publicly-owned slopes	NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
LANDSLIDE/STEEP SLOPES - CURRENT RESIDENTS/PROPERTY	Create a plan to implement reinforcement measures in high-risk landslide areas	NFIP compliant?	N/A
LANDSLIDE/STEEP SLOPES - CURRENT RESIDENTS/PROPERTY	Develop an codes or regulation prohibiting or limiting structures in known landslide/steep slope risk areas	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
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	County
		Priority	Medium
		Responsible Entity	County
		Timeframe	2022
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	Estimated Cost	$100 K - $250 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Low
		Responsible Entity	County
		Timeframe	2023
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
		Estimated Cost	$50 K - $100 K

TOOELE COUNTY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
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?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
LANDSLIDE/STEEP SLOPES - FUTURE RESIDENTS/PROPERTY	Apply soil stabilization measures such as planting soil stabilizing vegetation on steep publicly-owned slopes	Estimated Cost	$50 K - $100 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
LANDSLIDE/STEEP SLOPES - FUTURE RESIDENTS/PROPERTY	Create a plan to implement reinforcement measures in high-risk landslide areas	NFIP compliant?	N/A
LANDSLIDE/STEEP SLOPES - FUTURE RESIDENTS/PROPERTY	Develop an codes or regulation prohibiting or limiting structures in known landslide/steep slope risk areas	NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
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	High
		Responsible Entity	County
		Timeframe	2022
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	Estimated Cost	$100 K - $250 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2025

TOOELE COUNTY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
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	Estimated Cost	$50 K - $100 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	City
		Timeframe	2025
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	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Low
		Responsible Entity	County
		Timeframe	2024
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	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Medium
		Responsible Entity	County
		Timeframe	2022
PROBLEM SOILS - CURRENT RESIDENTS/PROPERTY	Restrict development in areas with soil that is considered poor or unsuitable for development	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Medium
		Responsible Entity	County
		Timeframe	2022
PROBLEM SOILS - CURRENT RESIDENTS/PROPERTY	Retrofit or remove existing structures from problem soil areas	NFIP compliant?	N/A

TOOELE COUNTY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
PROBLEM SOILS - FUTURE RESIDENTS/PROPERTY	Adopt an ordinance promoting permafrost sensitive construction practices	NFIP compliant?	N/A
PROBLEM SOILS - FUTURE RESIDENTS/PROPERTY	Develop a code or regulation prohibiting or limiting structures in known problem soil areas	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Low
		Responsible Entity	County
		Timeframe	2024
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	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Medium
		Responsible Entity	County
		Timeframe	2024
PROBLEM SOILS - FUTURE RESIDENTS/PROPERTY	Restrict development in areas with soil that is considered poor or unsuitable for development	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Medium
		Responsible Entity	County
		Timeframe	2024
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
RADON - FUTURE RESIDENTS/PROPERTY	Develop and distribute radon hazard guides for homeowners and businesses	NFIP compliant?	N/A

TOOELE COUNTY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
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)	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
SEVERE WEATHER - CURRENT RESIDENTS/PROPERTY	Protect Life Safety and Property Damage of Residential Buildings through applicable architecture and retrofits	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Low
		Responsible Entity	County
		Timeframe	2023
SEVERE WEATHER - CURRENT RESIDENTS/PROPERTY	Provide Weather-Related Information through Print Broadcast and Social Media	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		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)	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Low
		Responsible Entity	County
		Timeframe	2023

TOOELE COUNTY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
SEVERE WEATHER - CURRENT RESIDENTS/PROPERTY	Review and/or Develop Codes Ordinances and Policies	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Low
		Responsible Entity	County
		Timeframe	2023
SEVERE WEATHER - CURRENT RESIDENTS/PROPERTY	Use natural environmental features as wind buffers in site design	NFIP compliant?	N/A
SEVERE WEATHER - FUTURE RESIDENTS/PROPERTY	Conduct Outreach Activities Increase and Public Awareness (specify below in comments)	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
SEVERE WEATHER - FUTURE RESIDENTS/PROPERTY	Protect Life Safety and Property Damage of Residential Buildings through applicable architecture and retrofits	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Low
		Responsible Entity	County
		Timeframe	2022
SEVERE WEATHER - FUTURE RESIDENTS/PROPERTY	Provide Weather-Related Information through Print Broadcast and Social Media	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		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)	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Low
		Responsible Entity	County

TOOELE COUNTY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Timeframe	2022
SEVERE WEATHER - FUTURE RESIDENTS/PROPERTY	Review and/or Develop Codes Ordinances and Policies	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Low
		Responsible Entity	County
		Timeframe	2023
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
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	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Adopt and Enforce Building Codes and Development Standards	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County

TOOELE COUNTY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Timeframe	2022
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Develop a community wildfire preparedness plan	Estimated Cost	$50 K - $100 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Develop wildfire and/or Wildland Urban Interface (WUI) codes or regulation prohibiting or limiting structures in known wildfire risk areas	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Educate Property Owners about Wildfire Mitigation Techniques (List specifics below in comments)	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
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	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Implement a Fuels Management Program	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022

TOOELE COUNTY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Include considerations of wildfire hazards in land use public safety and other processes	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2023
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Mandate wildfire planning be incorporated into development and land use planning	Estimated Cost	$50 K - $100 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Mitigate Against Post-Wildfire Flooding via structural projects in drainage areas	Estimated Cost	$100 K - $250 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Participate in Firewise Program	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Promote conservation of open space or wildland-urban boundary zones to separate developed areas from high-hazard areas	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Low
		Responsible Entity	County
		Timeframe	2022
		Estimated Cost	$25 K - $50 K

TOOELE COUNTY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Set guidelines for annexation and service extensions in high-risk areas	NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Structural and defensible space requirements	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
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	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Address density and quantity of development as well emergency access landscaping and water supply	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Adopt and Enforce Building Codes and Development Standards	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
		Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk

TOOELE COUNTY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Develop a community wildfire preparedness plan	Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2023
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Develop wildfire and/or Wildland Urban Interface (WUI) codes or regulation prohibiting or limiting structures in known wildfire risk areas	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Educate Property Owners about Wildfire Mitigation Techniques (List specifics below in comments)	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
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	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Implement a Fuels Management Program	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Include considerations of wildfire hazards in land use, public safety, and other processes	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County

TOOELE COUNTY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Include considerations of wildfire hazards in land use, public safety, and other processes	Priority	High
		Responsible Entity	County
		Timeframe	2022
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Mandate wildfire planning be incorporated into development and land use planning	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Mitigate Against Post-Wildfire Flooding via structural projects in drainage areas	Estimated Cost	$100 K - $250 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Participate in Firewise Program	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Promote conservation of open space or wildland-urban boundary zones to separate developed areas from high-hazard areas	Estimated Cost	$0 - $25 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	Low
		Responsible Entity	County
		Timeframe	2022
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Set guidelines for annexation and service extensions in high-risk areas	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High

TOOELE COUNTY MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Responsible Entity	County
		Timeframe	2023
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Structural and defensible space requirements	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022
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	Estimated Cost	$25 K - $50 K
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Priority	High
		Responsible Entity	County
		Timeframe	2022

5.7.5.1 STANSBURY PARK I.D. - MITIGATION STRATAGIES

STANSBURY PARK I.D. MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
DROUGHT - CURRENT RESIDENTS/PROPERTY	Designate and or preserve adequate source water protection zones or groundwater recharge areas	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$25 K - $50 K
		Timeframe	2025
DROUGHT - CURRENT RESIDENTS/PROPERTY	Educate Decision Makers and Government Employees on Water Saving Techniques (list event details in "comments")	Priority	Low
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
DROUGHT - CURRENT 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	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
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
		Priority	Medium
		Pot. Funding Sources	Local
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
DROUGHT - CURRENT RESIDENTS/PROPERTY	Expand and Improve Existing Potable Water Systems	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$500 K - $1 Mil

STANSBURY PARK I.D. MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Timeframe	2025
DROUGHT - CURRENT RESIDENTS/PROPERTY	Improve Public Water Infrastructure and Management with Water Provider	Pot. Funding Sources	Other State
		NFIP compliant?	N/A
		Priority	Medium
		Responsible Entity	City
		Estimated Cost	$1 Mil +
		Timeframe	2030
DROUGHT - CURRENT RESIDENTS/PROPERTY	Monitor Water Supply for leaks system failures inefficiencies etc. via monitoring system and audits	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
DROUGHT - CURRENT 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	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
DROUGHT - CURRENT RESIDENTS/PROPERTY	Retrofit Water Supply Systems to handle current and new growth	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$500 K - $1 Mil
		Timeframe	2025
DROUGHT - CURRENT RESIDENTS/PROPERTY	Update and adopt drought ordinances	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K

STANSBURY PARK I.D. MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Timeframe	2025
DROUGHT - FUTURE RESIDENTS/PROPERTY	Other strategies and/or comments:		Answers are the same to Future Drought Growth as with Current Drought
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Building Code Adoption and Enforcement	NFIP compliant?	N/A
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Conduct Building Safety Inspections	NFIP compliant?	N/A
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	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Establish a “green infrastructure” program to link manage and expand existing parks preserves greenways etc	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Increase Awareness and Education of Earthquakes through an educational event	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Local Planning such as critical facilities planning financial incentives creating a safety committee emergency planning etc	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
EARTHQUAKE - CURRENT RESIDENTS/PROPERTY	Retrofit Critical Facilities and Infrastructure to Withstand Earthquakes (list specifics in "comments" section)	NFIP compliant?	N/A

STANSBURY PARK I.D. MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
EARTHQUAKE - FUTURE RESIDENTS/PROPERTY	Other strategies and/or comments:		Same answers to future growth as current growth
FLOOD - CURRENT RESIDENTS/PROPERTY	Adopt and Enforce Building Codes and Development Standards	NFIP compliant?	N/A
FLOOD - CURRENT 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	$500 K - $1 Mil
		Timeframe	2025
FLOOD - CURRENT RESIDENTS/PROPERTY	Coordination and Partnerships i.e. develop stormwater committee regional watershed council local councils etc	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
FLOOD - CURRENT RESIDENTS/PROPERTY	Elevate or Retrofit Facilities and Infrastructure	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
FLOOD - CURRENT RESIDENTS/PROPERTY	Floodproof At-Risk Residential and Non-Residential Structures	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
FLOOD - CURRENT RESIDENTS/PROPERTY	Improve Stormwater Drainage Capacity	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City

STANSBURY PARK I.D. MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Timeframe	2025
FLOOD - CURRENT RESIDENTS/PROPERTY	Information and educational events (list details in "comments" section)	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
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	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
FLOOD - CURRENT RESIDENTS/PROPERTY	Protect and Restore Natural Flood Mitigation Features through natural greenway protection and restoration	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$25 K - $50 K
		Timeframe	2025
FLOOD - CURRENT RESIDENTS/PROPERTY	Protect Infrastructure such as roads bridges wastewater treatment etc	Priority	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	County
		Estimated Cost	$500 K - $1 Mil
		Timeframe	2025
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	Medium
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk

STANSBURY PARK I.D. MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
FLOOD - CURRENT RESIDENTS/PROPERTY	Review and/or Develop Codes Ordinances and Policies	Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
FLOOD - CURRENT RESIDENTS/PROPERTY	Stormwater Management Planning	Pot. Funding Sources	Local
		Priority	High
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
FLOOD - FUTURE RESIDENTS/PROPERTY	Other strategies and/or comments:		Same answers for Future as with current
LANDSLIDE/STEEP SLOPES - CURRENT RESIDENTS/PROPERTY	Other strategies and/or comments:		Not Pertinent
			Not Pertinent
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	Medium
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$0 - $25 K
		Timeframe	2025
PROBLEM SOILS - CURRENT RESIDENTS/PROPERTY	Promote community awareness of risks and impacts from building in problem soil areas	Priority	Medium
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$0 - $25 K
		Timeframe	2025
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	$25 K - $50 K

STANSBURY PARK I.D. MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Timeframe	2025
PROBLEM SOILS - CURRENT RESIDENTS/PROPERTY	Restrict development in areas with soil that is considered poor or unsuitable for development	Priority	Medium
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$0 - $25 K
		Timeframe	2025
PROBLEM SOILS - CURRENT RESIDENTS/PROPERTY	Retrofit or remove existing structures from problem soil areas	NFIP compliant?	N/A
PROBLEM SOILS - FUTURE RESIDENTS/PROPERTY	Other strategies and/or comments:		same answers given for current apply to future soils
			Not Pertinent
			Not Pertinent
SEVERE WEATHER - CURRENT RESIDENTS/PROPERTY	Conduct Outreach Activities Increase and Public Awareness (specify below in comments)	Priority	Low
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
SEVERE WEATHER - CURRENT RESIDENTS/PROPERTY	Protect Life Safety and Property Damage of Residential Buildings through applicable architecture and retrofits	Priority	Low
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$0 - $25 K
		Timeframe	2025
SEVERE WEATHER - CURRENT RESIDENTS/PROPERTY	Provide Weather-Related Information through Print Broadcast and Social Media	Priority	Low
		Pot. Funding Sources	Local
		NFIP compliant?	Helps reduce risk
		Responsible Entity	City
		Estimated Cost	$0 - $25 K
		Timeframe	2025
		Priority	Low

STANSBURY PARK I.D. MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
SEVERE WEATHER - CURRENT RESIDENTS/PROPERTY	Reducing Impacts of Wind Hail Lightning through structural projects i.e. windbreaks	NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$0 - $25 K
		Timeframe	2025
SEVERE WEATHER - CURRENT RESIDENTS/PROPERTY	Retrofit Public Buildings and Critical Facilities/Infrastructure (specify below in comments)	Priority	Low
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$0 - $25 K
		Timeframe	2025
SEVERE WEATHER - 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
		Timeframe	2025
SEVERE WEATHER - FUTURE RESIDENTS/PROPERTY	Other strategies and/or comments:		The answers are the same for Future as Current answers
TORNADO - CURRENT RESIDENTS/PROPERTY	Appropriate engineering controls (such as deflection structures) are designed and installed to mitigate the hazard	Priority	Low
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$0 - $25 K
		Timeframe	2025
TORNADO - CURRENT RESIDENTS/PROPERTY	Conduct Outreach Activities to Increase Awareness of Tornado Risk (Specify below in comments)	Priority	Low
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$0 - $25 K
		Timeframe	2025

STANSBURY PARK I.D. MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
TORNADO - CURRENT RESIDENTS/PROPERTY	Develop an tornado codes or regulation prohibiting or limiting structures in known tornado areas	Priority	Low
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$0 - $25 K
		Timeframe	2025
TORNADO - CURRENT RESIDENTS/PROPERTY	Encourage Construction of Safe Rooms (Specify below in comments)	Priority	Low
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$0 - $25 K
		Timeframe	2025
TORNADO - CURRENT RESIDENTS/PROPERTY	Require Wind-Resistant Building Techniques	Priority	Low
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$0 - $25 K
		Timeframe	2025
TORNADO - FUTURE RESIDENTS/PROPERTY	Other strategies and/or comments:		Answers are the same for future as they were for current
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Address density and quantity of development as well emergency access landscaping and water supply	Priority	Medium
WILDFIRE - CURRENT RESIDENTS/PROPERTY		NFIP compliant?	Helps reduce risk
WILDFIRE - CURRENT RESIDENTS/PROPERTY		Pot. Funding Sources	County
WILDFIRE - CURRENT RESIDENTS/PROPERTY		Responsible Entity	County
WILDFIRE - CURRENT RESIDENTS/PROPERTY		Estimated Cost	$25 K - $50 K
WILDFIRE - CURRENT RESIDENTS/PROPERTY		Timeframe	2025
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Adopt and Enforce Building Codes and Development Standards	Priority	Low
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$25 K - $50 K

STANSBURY PARK I.D. MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
		Timeframe	2025
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Develop a community wildfire preparedness plan	Priority	Low
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$25 K - $50 K
		Timeframe	2025
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?	N/A
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Educate Property Owners about Wildfire Mitigation Techniques (List specifics below in comments)	Priority	Low
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$25 K - $50 K
		Timeframe	2025
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	NFIP compliant?	N/A
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Implement a Fuels Management Program	Priority	Low
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$25 K - $50 K
		Timeframe	2025
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Include considerations of wildfire hazards in land use public safety and other processes	NFIP compliant?	N/A
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Mandate wildfire planning be incorporated into development and land use planning	Priority	Medium
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$25 K - $50 K
		Timeframe	2025
		Priority	Medium
		NFIP compliant?	Helps reduce risk

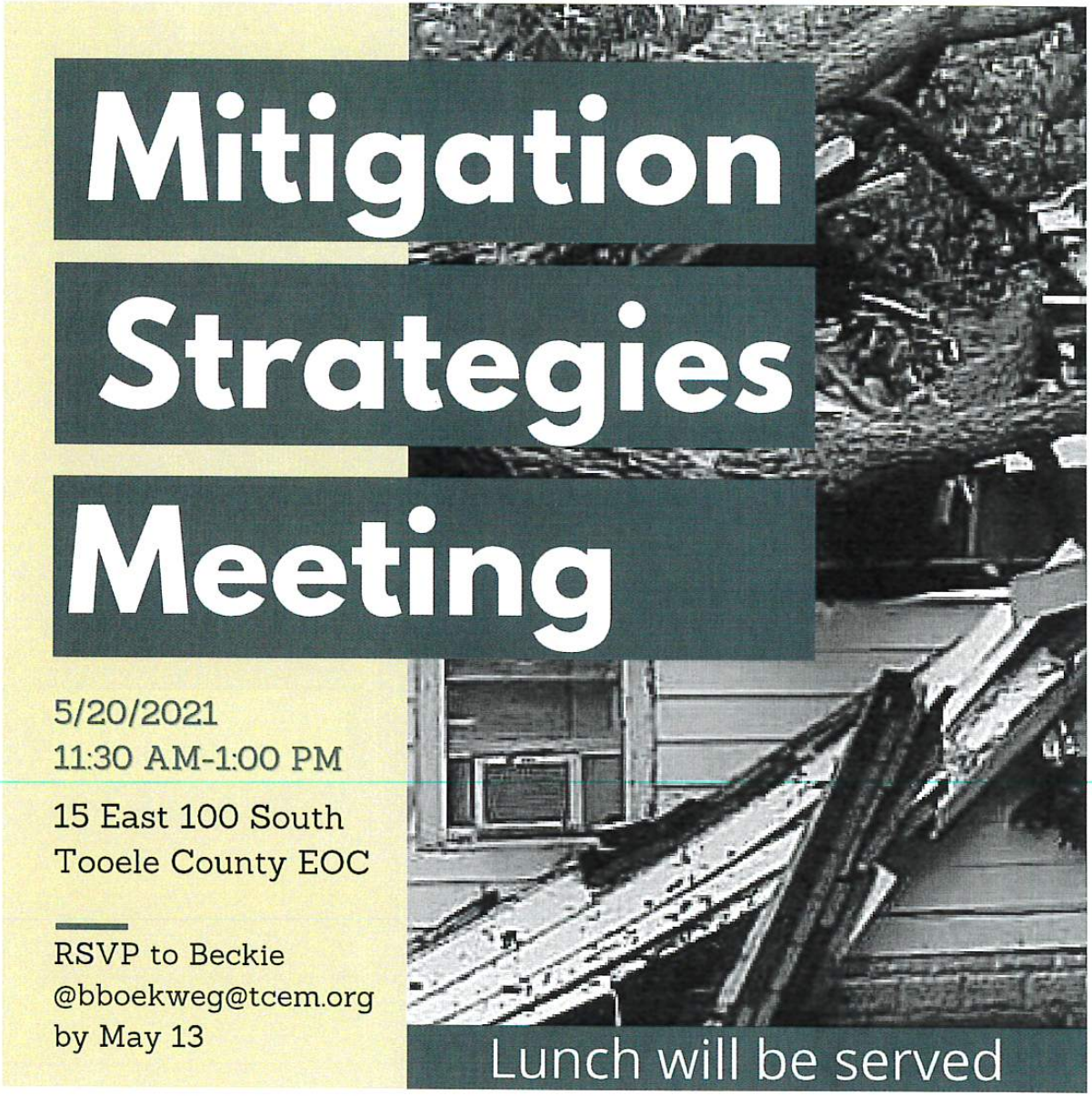
STANSBURY PARK I.D. MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Mitigate Against Post-Wildfire Flooding via structural projects in drainage areas	Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$25 K - $50 K
		Timeframe	2025
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Participate in Firewise Program	Priority	Low
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$25 K - $50 K
		Timeframe	2025
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Promote conservation of open space or wildland-urban boundary zones to separate developed areas from high-hazard areas	Priority	Low
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$25 K - $50 K
		Timeframe	2025
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Set guidelines for annexation and service extensions in high-risk areas	Priority	Low
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$25 K - $50 K
		Timeframe	2025
WILDFIRE - CURRENT RESIDENTS/PROPERTY	Structural and defensible space requirements	Priority	Low
		NFIP compliant?	Helps reduce risk
		Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$25 K - $50 K
		Timeframe	2025
		Priority	Low
		NFIP compliant?	Helps reduce risk

STANSBURY PARK I.D. MITIGATION STRATEGIES - 2021 TOOELE COUNTY PDMP

Hazard	Strategy	Strategy Informational Categories	Details
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	Pot. Funding Sources	County
		Responsible Entity	County
		Estimated Cost	$25 K - $50 K
		Timeframe	2025
WILDFIRE - FUTURE RESIDENTS/PROPERTY	Other strategies and/or comments:		Answers are the same for the future as was submitted for current wildfires

Section 6
APPENDICES


Mitigation
Strategies
Meeting
5/20/2021
11:30 AM-1:00 PM
15 East 100 South
Tooele County EOC
RSVP to Beckie
@bboekweg@tcem.org
by May 13
Lunch will be served

PLEASE ATTEND

TOOELE COUNTY

PRE-DISASTER MITIGATION MEETING

September 15, 2020

11:30 AM– 1:30 PM

TOOELE COUNTY EMERGENCY OPERATIONS CENTER
15 EAST 100 SOUTH, TOOELE

RSVP FOR LUNCH TO BECKIE AT BBOEKWEG@TCEM.ORG BY SEPT 7

Dear Chief Elected Official or City/County Staff Member,

Tooele County in association with Bear River Association of Governments (BRAG) is in the process of updating the counties Pre-Disaster Mitigation Plan. This plan identifies natural hazards, analyses potential losses for each community from those hazards, and documents mitigation strategies intended to reduce loss of life and property.

The Federal Emergency Management Agency (FEMA) requires that jurisdictions that would like to be eligible for certain federal pre- and post-natural disaster funding participate in a mitigation planning process and adopt a FEMA-approved plan. Through this process, BRAG is helping communities to understand their risks, reduce potential losses, and become eligible to apply for future funding to mitigate effects of those disasters.

As part of this process, we are collecting information from each community about risks to natural hazards, historical natural hazard events, and other related information. Please take a few moments to fill out the 7-question Risk Assessment Survey located at ***LINK HERE***. Please contact Matthew Starley (see contact information below) if you would like to receive a hard copy of the survey to fill out and send back. The information we gather from this survey will help immensely as we attempt to better understand natural hazard risks in your area.

Also, we will be holding several stakeholder meetings over the next year to get your input on the plan and to help you create mitigation strategies. Your attendance at those meetings will be greatly appreciated and the plan will be much more relevant and useful as we get your input. Details will be forthcoming for those meetings.

Thank you for your participation and please let me know if you have any questions or concerns.

Sincerely,

Matthew Starley

(435) 719-1427

matts@brag.utah.gov

Survey Link URL: https://www.surveymonkey.com/r/G2X9GP6

Bucky Whitehouse

From:	Bucky Whitehouse
Sent:	Monday, September 20, 2021 3:14 PM
To:	jimb@tooelecity.org; Jamie Grandpre; Paul Hansen; James Waltz; bmarshall@grantsvilleut.gov; Christy Roberts; mseat@grantsvilleut.gov; Brett Palmer; PALBRECHT@he-equipment.com; rushvalleymayor@gmail.com; Dennis Clark - Vernon Mayor; rockin5rs@gmail.com; Rachelle Custer; Daniel Walton; Jake Clegg; Andy Welch; Brittany Lopez; Thomas Karjola; nandom1999@msn.com; Stockton Fire; shmamy99 @gmail.com; Lloyd Evans; Jared Stewart
Cc:	zacc@brag.utah.gov; Matt Starley; Beckie Boekweg
Subject:	Pre-Adoption Meeting - -Presentation Draft Plan for the Tooele County Pre-Disaster Mitigation Plan 2021 Update

Pre-Disaster Mitigation Plan Stakeholders –

The Tooele County Pre-Adoption Meeting /Presentation of the Draft Plan PDM plan meeting will take place on **September 28th at 4:00PM**. This meeting will be conducted in a **virtual format** and will be available by choosing the link listed below:

Tooele County PDM Plan Pre-Adoption Meeting
Tue, Sep 28, 2021 4:00 PM - 5:00 PM (MDT)

Please join my meeting from your computer, tablet or smartphone.
https://global.gotomeeting.com/join/672102853

You can also dial in using your phone.
United States: +1 (646) 749-3335
Access Code: 672-102-853
New to GoToMeeting? Get the app now and be ready when your first meeting starts:
https://global.gotomeeting.com/install/672102853

It is very important for your jurisdiction to attend this meeting as it is your opportunity to give input on the plan as it is available for public review. Your participation will also be recognized by FEMA as the review your jurisdictions participation in the planning process. Please attend or make sure a representative your agency attends.

Please let me know if you have any questions or concerns.

Bucky Whitehouse
Emergency Services Director
Tooele County Emergency Management
15 East 100 South,
Tooele, Utah 84074
Bucky.whitehouse@tcem.org (please see my new email address)
435-833-8121

TOOELE COUNTY TCEM EMERGENCY MANAGEMENT

TOOELE COUNTY
EMERGENCY MANAGEMENT
15 East 100 South, Tooele, Utah
435- 833-8100
www.tcem.org

October 15, 2020

RE: Request Assistance to complete online Risk Assessment Survey for Pre-Disaster Mitigation Plan Update.

Dear Mitigation Plan Stakeholders,

Emergency Management needs your assistance to complete the following Risk Assessment Survey for the PDM plan:

"Tooele County - Pre-Disaster Mitigation Risk Assessment Survey"

https://www.surveymonkey.com/r/G2X9GP6

It is very important for your organization to participate in completing this survey. The deadline is **November 5th, 2020**. We would appreciate each participant from all the relevant stakeholders responding to this request. The more information we can assemble will improve on the quality of the plan.

If you have questions related to the plan or this survey please contact me at bwhitehouse@tcem.org or 435-833-8121.

Sincerely,

Bucky Whitehouse

Bucky Whitehouse, Emergency Services Director
Tooele County Emergency Management

TOOELE COUNTY
EMERGENCY MANAGEMENT
15 East 100 South, Tooele, Utah
435- 833-8100
www.tcem.org

October 15, 2020

RE: Request participation in upcoming Risk Assessment Meeting for Tooele County Pre-Disaster Mitigation Plan on November 19th, 2020 from 11:30-1:00PM.

The next meeting for the Tooele County Pre-Disaster Mitigation Plan is scheduled for **November 19, 2020 from 11:30-1:00PM**. The meeting is planned to be virtual in nature at this time due to the recent concerns related to **COVID-19**. You can join the meeting by connecting to the following GoToMeetings address:

PDM Risk Assessment Meeting 11-19-20
Thu, Nov 19, 2020 11:30 AM - 1:00 PM (MST)

Please join my meeting from your computer, tablet or smartphone.
https://global.gotomeeting.com/join/911386749

You can also dial in using your phone.
United States: +1 (224) 501-3412

Access Code: 911-386-749

Join from a video-conferencing room or system.
Dial in or type: 67.217.95.2 or inroomlink.goto.com
Meeting ID: 911 386 749
Or dial directly: 911386749@67.217.95.2 or 67.217.95.2##911386749

It is very important for your organization to participate in the development of this plan. Each municipal government along with service districts are required to participate in order to be eligible for federal mitigation grant opportunities as well as emergency response and recovery funding. Please RVSP to Bboekweg@tcem.org and let us know of your availability to attend. You may also contact me at bwhitehouse@tcem.org or 435-833-8121 should you have any questions.

Sincerely,

Bucky Whitehouse

Bucky Whitehouse, Emergency Services Director
Tooele County Emergency Management

Bucky Whitehouse

From: Beckie Boekweg
Sent: Monday, October 19, 2020 11:45 AM
To: Jim Bolser; Debbie Winn; bmarshall@grantsvilleut.gov; James Waltz; Thomas (KJ) Karjola; rushvalleymayor@gmail.com; Tom Tripp; Kendall Thomas; Shawn Milne; Shawn Milne; jclegg@ensignutah.com; Rachelle Custer; Andy Tanner; Bucky Whitehouse; Beckie Boekweg; stevee@tooelecity.org; Paul Wimmer; mayor.vernon@yahoo.com; Daniel Walton; Candace Bear; shilob@tooelecity.org; crawfordmr@yahoo.com; Eric Martineau; Cameron Kirkham
Subject: Risk Assessment Meeting for Tooele County Pre Disaster Mitigation Plan
Attachments: PDM 2020 Risk Assessment invite.docx

Hello All,
Emergency Management will be holding a Risk Assessment Meeting for Tooele County Pre Disaster Mitigation Plan on November 19th from 11:30-1:00 PM. This meeting will be virtual and you will find the meeting information in the attached meeting invitation.
Thank you,

Beckie Boekweg
Administrative Assistant
Tooele County Emergency Management
15 E 100 So. Tooele Ut 84074
(O) 435-833-8122

bboekweg@tcem.org

www.tcem.org

1

Bucky Whitehouse

From:	Bucky Whitehouse
Sent:	Tuesday, August 18, 2020 3:34 PM
To:	Debbie Winn; bmarshall@grantsvilleut.gov; Thomas Karjola; rushvalleymayor@gmail.com; mayor.vernon@yahoo.com
Cc:	Steve Evans; jimb@tooelecity.org; James Waltz; Brett Palmer
Subject:	FW: Utah 2020 BRIC Notice of Interest

Good Afternoon,

The State of Utah has recently released their Building Resilient Infrastructure and Communities (BRIC) notice of interest to counties and municipalities. This program was formerly known as the Pre-Disaster Mitigation Grant Project program, which coincides with the development of the County-wide Pre-Disaster Mitigation Plan that you all participate in developing.

Due to your involvement in helping to develop your piece of the county PDM plan your are eligible to apply for this opportunity. I would highly encourage you to consider applying for these funds. They have recently increased the allocation level on the federal level which will enable Utah to fund more of these grants that in the past.

Please let me know what questions you might have and if the EOC Staff can help you out in any way.

Thanks

Bucky

Utah
2020 BRIC Notice of Interest (NOI)

FEMA has announced the opening of its new mitigation grant program called Building Resilient Infrastructure and Communities (BRIC). It has replaced FEMA's Pre-Disaster Mitigation (PDM) grant program.

Important Dates:

- NOI Submission Deadline: September 30, 2020
- Application Period opens: September 30, 2020
- Application Submission to State Deadline: December 1, 2020
- State Submission Deadline to FEMA: January 29, 2021

Notice of Interest Form

Please click on the following link to fill out your entities intent to apply for BRIC funding:

NOI Link - https://forms.gle/Dq4b9tgFSySuQBfM8

Available Funding

$500 Million Total:

- State Allocation: $33.6 million (up to $600,000 per Applicant)
- Tribal Set-Aside: $20 million

There is a $50 million funding cap per subapplication.

Cost Share

A cost share is required for all subapplications funded under this program. The non-federal cost share may consist of cash, donated or third-party in-kind services, materials, or any combination thereof.

- 75% federal / 25% non-federal
- 90% federal / 10% non-federal (**only for small, impoverished communities**)

Eligible Subapplicants

- Local governments/communities
- Special districts and quasi-government entities (e.g water districts, schools)
- Indian Tribal governments

Individuals and businesses are NOT eligible to apply.

Mitigation Plan

To be eligible for BRIC funding, FEMA will require applicants and subapplicants to have a current FEMA-approved Hazard Mitigation Plan at time of application and award.

Eligible Mitigation Activities

- Project - activities that mitigate against a natural hazard
- Plan - developing/updating a Hazard Mitigation Plan
- Project Scoping - formerly called Advanced Assistance and includes such things as engineering studies, H&H studies, evaluations, etc. to help one in advance of choosing or developing a mitigation project

Benefit-Cost Analysis

Benefit-Cost Analysis (BCA) is a method that determines the future risk reduction benefits of a hazard mitigation project and compares those benefits to its costs. The result is a Benefit-Cost Ratio (BCR). A project is considered cost-effective when the BCR is 1.0 or greater. Applicants and subapplicants must use FEMA-approved methodologies and tools—such as the BCA Toolkit—to demonstrate the cost-effectiveness of their projects. **This is required for all mitigation projects (not plans or project scoping)**.

Please go here to download the latest FEMA BCA software - https://www.fema.gov/grants/guidance-tools/benefit-cost-analysis

Applications - FEMA GO

All BRIC applications need to be submitted through FEMA's new mitigation website called FEMA GO. This has replaced FEMA's old eGrants website. Applications are very similar to past applications in eGrants. FEMA GO is linked to the federal government's www.sam.gov website. Most entities that deal with the federal government are already registered in www.sam.gov. Follow these steps to get registered in FEMA GO:

- Create an account at FEMA GO website
- Enter your DUNS number
- It should then list the two people who are linked to your registration at sam.gov who you need to contact to give you access in FEMA GO. They need to give you access to the mitigation programs (including BRIC) in FEMA GO and assign you the appropriate user roles.
- If you are assigned to be an organization authorized representative you will be able to submit the application to the State in FEMA GO and manage other members of your organization.
- FEMA has not opened up the ability to fill out or start the application yet, but has indicated that they will do so sometime in September. We will notify any entity that has submitted an NOI to us when the application is available to start working on online.

BRIC Webinars

- 5-part series on BRIC NOFO. Please register here
- BRIC summer webinars — download the slides or watch the presentations here

For questions please contact:

- Eric Martineau - emartineau@utah.gov - 801-946-4022
- Janna Wilkinson - jwilkinson@utah.gov - 385-214-5857
- Ember Herrick - esherrick@utah.gov - 385-630-8246

Further Resources

- Notice of Funding Opportunity Fact Sheet
- Notice of Funding Opportunity
- BRIC FEMA webpage
- FEMA GO website

Bucky Whitehouse

From: Bucky Whitehouse
Sent: Tuesday, September 7, 2021 2:12 PM
To: jimb@tooelecity.org; Jamie Grandpre; Paul Hansen; James Waltz; bmarshall@grantsvilleut.gov; Christy Roberts; mseat@grantsvilleut.gov; Brett Palmer; PALBRECHT@he-equipment.com; rushvalleymayor@gmail.com; Dennis Clark - Vernon Mayor; rockin5rs@gmail.com; Rachelle Custer; Daniel Walton; Jake Clegg; Andy Welch; Brittany Lopez; Thomas Karjola; nandom1999@msn.com; Stockton Fire; shmamy99 @gmail.com; Lloyd Evans
Cc: zacc@brag.utah.gov; Matt Starley; Beckie Boekweg
Subject: Pre-Disaster Mitigation Strategies - Please complete the attached survey ASAP!

Tooele County Pre-disaster Mitigation Plan Committee members -

We need your **immediate attention** to complete the attached survey (link below) to help your community establish your 2021 Pre-Disaster Mitigation Strategies for the Tooele County Plan. The survey should take you approximately 15-30 minutes to complete. It asks you questions about your priorities for mitigation strategies in your community and how you would propose establishing them going forward. It is extremely important that we get all the members who are contributing to the plan to take the attached survey.

We need the survey completed no later **than September 14th at close of business (5PM).** After the 14th if no updated strategies are entered into the system we will have to use the 2016 strategies you established which may not accurately reflect how your communities have changed. Please remember the plan is very important to get completed both for grant purposes as well as planning for the future.

Please let me know if you have any questions,

https://www.surveymonkey.com/r/TQ2PJCW

Thanks

Bucky Whitehouse
Emergency Services Director
Tooele County Emergency Management
15 East 100 South,
Tooele, Utah 84074
Bucky.whitehouse@tcem.org (please see my new email address)
435-833-8121

TOOELE COUNTY TCEM EMERGENCY MANAGEMENT

TOOELE COUNTY
EMERGENCY MANAGEMENT
15 East 100 South, Tooele, Utah
435- 833-8100
www.tcem.org

September 7, 2021

Nevada Division of Emergency Management/Homeland Security
Attention Mitigation Section Manager
2478 Fairview Drive,
Carson City, Nevada 89701

To Whom It May Concern,

Tooele County recently completed their draft of the Tooele County Hazard Mitigation Plan. The Plan is in Pre-Adoption form, and we would invite a representative from your agency to attend a virtual meeting to discuss the details of the plan. If you are unable to make the meeting you may also review the plan. The plan has begun the public comment period and is available for review for 30-days on the www.tcem.org website. If you would like a hard copy of the plan or would like to comment on any of the components of the plan you may contact our offices at 4358338100 or email Bucky Whitehouse, Emergency Services Director at bucky.whitehouse@tcem.org .

Thanks for your interest in reviewing and commenting on the plan.

Sincerely,

Bucky Whitehouse
Emergency Services Director.

TOOELE COUNTY
EMERGENCY MANAGEMENT
15 East 100 South, Tooele, Utah
435- 833-8100
www.tcem.org

September 7, 2021

Clint Meacham, Director
Salt Lake County Emergency Management
3380 South 900 West
Salt Lake City, Utah 84119

Dear Clint,

Tooele County recently completed their draft of the Tooele County Hazard Mitigation Plan. The Plan is in Pre-Adoption form, and we would invite a representative from your agency to attend a virtual meeting to discuss the details of the plan. If you are unable to make the meeting you may also review the plan. The plan has begun the public comment period and is available for review for 30-days on the www.tcem.org website. If you would like a hard copy of the plan or would like to comment on any of the components of the plan you may contact our offices at 4358338100 or email Bucky Whitehouse, Emergency Services Director at bucky.whitehouse@tcem.org .

Thanks for your interest in reviewing and commenting on the plan.

Sincerely,

Bucky Whitehouse
Emergency Services Director.

TOOELE COUNTY
EMERGENCY MANAGEMENT
15 East 100 South, Tooele, Utah
435- 833-8100
www.tcem.org

September 7, 2021

Peter Quintner, Director
Utah County Emergency Management
256 West 3200 North
Salt Lake City, Utah 84660

Dear Peter,

Tooele County recently completed their draft of the Tooele County Hazard Mitigation Plan. The Plan is in Pre-Adoption form, and we would invite a representative from your agency to attend a virtual meeting to discuss the details of the plan. If you are unable to make the meeting you may also review the plan. The plan has begun the public comment period and is available for review for 30-days on the www.tcem.org website. If you would like a hard copy of the plan or would like to comment on any of the components of the plan you may contact our offices at 4358338100 or email Bucky Whitehouse, Emergency Services Director at bucky.whitehouse@tcem.org .

Thanks for your interest in reviewing and commenting on the plan.

Sincerely,

Bucky Whitehouse
Emergency Services Director.

TOOELE COUNTY
EMERGENCY MANAGEMENT
15 East 100 South, Tooele, Utah
435- 833-8100
www.tcem.org

September 7, 2021

Travis Kenison, Director
Juab County Emergency Management
425 West Sheeplane Drive PO Box 133
Nephi, Utah 84648

Dear Travis,

Tooele County recently completed their draft of the Tooele County Hazard Mitigation Plan. The Plan is in Pre-Adoption form, and we would invite a representative from your agency to attend a virtual meeting to discuss the details of the plan. If you are unable to make the meeting you may also review the plan. The plan has begun the public comment period and is available for review for 30-days on the www.tcem.org website. If you would like a hard copy of the plan or would like to comment on any of the components of the plan you may contact our offices at 4358338100 or email Bucky Whitehouse, Emergency Services Director at bucky.whitehouse@tcem.org .

Thanks for your interest in reviewing and commenting on the plan.

Sincerely,

Bucky Whitehouse
Emergency Services Director.

TOOELE COUNTY
EMERGENCY MANAGEMENT
15 East 100 South, Tooele, Utah
435- 833-8100
www.tcem.org

September 7, 2021

Helen Steele
Confederated Tribes of Goshute Indians
HC 61 Box 6104
Ibapah, Utah 84034

Dear Helen,

Tooele County recently completed their draft of the Tooele County Hazard Mitigation Plan. The Plan is in Pre-Adoption form, and we would invite a representative from your agency to attend a virtual meeting to discuss the details of the plan. If you are unable to make the meeting you may also review the plan. The plan has begun the public comment period and is available for review for 30-days on the www.tcem.org website. If you would like a hard copy of the plan or would like to comment on any of the components of the plan you may contact our offices at 4358338100 or email Bucky Whitehouse, Emergency Services Director at bucky.whitehouse@tcem.org .

Thanks for your interest in reviewing and commenting on the plan.

Sincerely,

Bucky Whitehouse
Emergency Services Director.

TOOELE COUNTY
EMERGENCY MANAGEMENT
15 East 100 South, Tooele, Utah
435- 833-8100
www.tcem.org

September 7, 2021

Candace Bear
Skull Valley Band of Goshute Indians
1198 North Main Street
Tooele, Utah 8474

Dear Candace,

Tooele County recently completed their draft of the Tooele County Hazard Mitigation Plan. The Plan is in Pre-Adoption form, and we would invite a representative from your agency to attend a virtual meeting to discuss the details of the plan. If you are unable to make the meeting you may also review the plan. The plan has begun the public comment period and is available for review for 30-days on the www.tcem.org website. If you would like a hard copy of the plan or would like to comment on any of the components of the plan you may contact our offices at 4358338100 or email Bucky Whitehouse, Emergency Services Director at bucky.whitehouse@tcem.org .

Thanks for your interest in reviewing and commenting on the plan.

Sincerely,

Bucky Whitehouse
Emergency Services Director.

AGENDA

TOOELE COUNTY KICK-OFF MEETING

2021 Pre-Disaster Mitigation Plan Update

Tuesday, September 15, 2020 – 11:30 AM to 1:30 PM

Tooele County Emergency Operations Center
Training Room
15 East 100 South
Tooele, Utah 84074

11:30 A.M.	Welcome, Introductions, and Past Hazard Mitigation Planning Efforts	BUCKY WHITEHOUSE - *Tooele County Emergency Services Director*
11:50 A.M.	Pre-Disaster Mitigation Planning in the State of Utah	ERIC MARTINEAU - *Utah Division of Emergency Management*
12:00 Noon	*Lunch (Provided)*	
12:20 P.M.	Tooele County Hazard Mitigation Plan Update Process	ZAC COVINGTON - *Bear River Association of Governments (BRAG)*
1:05 P.M.	Commitments & Next Steps	BUCKY WHITEHOUSE *Tooele County Emergency Services Director*
1:30 P.M.	Adjourn	

AGENDA

TOOELE COUNTY RISK ASSESMENT MEETING

2021 Pre-Disaster Mitigation Plan Update

Tuesday, November 17th, 2020 – 11:30 AM to 1:00 PM

Tooele County Emergency Operations Center
Training Room
15 East 100 South
Tooele, Utah 84074

11:30 A.M.	Welcome and Introductions,	BUCKY WHITEHOUSE - *Tooele County Emergency Services Director*
11:40 A.M.	Hazard Mitigation, Brick Review, Process Review, and Process Update	MATTHEW STARLEY - *Bear River Association of Governments (BRAG)*
11:55 P.M.	Community Asset Review	MATTHEW STARLEY - *Bear River Association of Governments (BRAG)*
12:50 P.M.	Commitments & Next Steps	BUCKY WHITEHOUSE *Tooele County Emergency Services Director*
1:00 P.M.	Adjourn	

AGENDA

TOOELE COUNTY MITIGATION STRATAGIES MEETING

2021 Pre-Disaster Mitigation Plan Update

Thursday, May 20, 2021 – 11:30 AM to 1:00 PM

Tooele County Emergency Operations Center
Training Room
15 East 100 South
Tooele, Utah 84074

11:30 A.M.	**Welcome and Introductions,**	**BUCKY WHITEHOUSE -** ***Tooele County Emergency Services Director***
11:40 A.M.	**Mitigation Strategies Introduction, Process Review, and Process Update**	**MATTHEW STARLEY -** ***Bear River Association of Governments (BRAG)***
11:55 P.M.	**Community Asset and Hazard Review, Previously Mitigation Strategies Review**	**MATTHEW STARLEY -** ***Bear River Association of Governments (BRAG)***
12:50 P.M.	**Commitments & Next Steps**	**BUCKY WHITEHOUSE** ***Tooele County Emergency Services Director***
1:00 P.M.	**Adjourn**	

AGENDA

TOOELE COUNTY DRAFT PLAN PRESENTATION AND PLAN ADOPTION MEETING

2021 Pre-Disaster Mitigation Plan Update

Tuesday, September 28, 2021 – from 4:00 to 5:00 PM

Zoom Meeting – https://global.gotomeeting.com/join/672102853

4:00 P.M.	**Welcome and Introductions**	**BUCKY WHITEHOUSE – Tooele County EM**
4:10 P.M.	**DRAFT PDM Plan Presentation**	**MATT STARLEY – BRAG Regional Planner**
4:35 P.M.	**Plan Adoption by local Governments**	**ZAC COVINGTON – BRAG Regional Planner**
4:50 P.M.	**Q and A**	**ALL**
5:00 P.M.	**Adjourn**	

Pre Disaster Mitigation Meeting 9-15-20

Name	Address	Phone	E mail address
Steve Bowman	Utah Geological Survey 1594 W North Temple, SLC	801-537-3304	stevebowman@utah.gov
Matthew Starley	2768 Foothill Dr Ogden, UT 84403	801-389-3258	MATTHEWSTARLEY@GMAIL.COM
Tim Dixon	429 E. Main Grantsville UT		tdixon@grantsvilleut.gov
Rachelle Custer	47 S Main Tooele	435 843 3253	rcuster@tooleco.org
Brent Marshall	429 E Main Grantsville	435-884-1638	bmarshall@grantsvilleut.gov
Christy Roberts	336 W Main	435-884-0627	croberts@grantsvilleut.gov
James Waltz	336 W Main GV	435-849-1636	jwaltz@grantsvilleut.gov
Kendall Thomas	47 S. Main Tooele	435.830.6016	KThomas@Tooleco.org
Tom Tripp	47 South Main Tooele	801-541-0867	ttripp@tooleco.org
Debbie Winn	90 No. Main, Tooele	435-843-2104	dwinn@tooelecity.org
Jim Bolser	90 No. Main, Tooele	435-843-2132	jimb@tooelecity.org
Wayne Anderton	55540 900 S Tooele	435-843-3458	Wanderton@tooleco.org
Markus Seat	1178 S. 1050 W. Tooele	435-224-3261	mseat@grantsvilleut.gov
Suke Clegg	47 South Main Tooele	801-544-5828	sclegg@energyutah.com
Lloyd Evans Jr.			

TOOELE COUNTY
EMERGENCY MANAGEMENT
15 East 100 South, Tooele, Utah
435- 833-8100
www.tcem.org

November 19, 2020

Tooele County **Pre-Disaster Mitigation Plan Risk Assessment Meeting** was conducted in a **virtual format** as such a signed roster could not be completed. The following individuals were in attendance to the meeting. A MP4 recording of the meeting is available and can be used to confirm attendance if necessary.

Tooele City
Jared Stewart
Jim Bolser

Grantsville City
James Waltz
Christy Roberts

Tooele County
Rachelle Custer
Jacob Clegg
Dan Walton
Bucky Whitehouse
Beckie Boekweg

Rush Valley
Pete Albrecht

Rush Valley
Pete Albrecht

Stockton City
Nando Meli

Vernon Town
Dennis Clarke

BRAG
Matt Starley

Please let me know if there are any questions related to this meeting

Sincerely,

Bucky Whitehouse
Emergency Services Director.

PDM Mitigation Strategies Meeting — Tooele County.

Name	Address	Phone	E mail address
Dan Walton	15 E 100S Tooele	435-241-0027	dwalton@utah.gov
Misti Williams	47 S. Main	435-241-0068	mwilliams@tooleco.org
Mark McKendrick	47 S. Main	(435) 241-0065	mmckendrick@Tooele Co.org
Nando Meli	PO Box 28 Stockt.	435-244-9783	random1999@msn.com
Amy Lyman	PO Box 344 Stockton	8016733126	shmamy99@gmail.com
Rachelle Custer	47 S Main Tooele	4358433160	rcuster@tooleco.org
Jake Clegg	47 S. Main Tooele	435-843-3160	jclegg@emsyutah.com

TOOELE COUNTY
EMERGENCY MANAGEMENT
15 East 100 South, Tooele, Utah
435- 833-8100
www.tcem.org

September 28, 2021

Tooele County **Pre-Disaster Mitigation Plan Pre-Adoption Meeting** was conducted in a **virtual format** as such a signed roster could not be completed. The following individuals were in attendance to the meeting. A MP4 recording of the meeting is available and can be used to confirm attendance if necessary.

Tooele City
Jared Stewart
Paul Hansen

Grantsville City
James Waltz
Brent Marshall

Tooele County
Rachelle Custer
Bucky Whitehouse
Beckie Boekweg

Rush Valley
Pete Albrecht

Rush Valley
Pete Albrecht

Stockton City
Nando Meli

Stansbury Service Agency
Brett Palmer

BRAG
Matt Starley
Zach Covington

Please let me know if there are any questions related to this meeting

Sincerely,

Bucky Whitehouse
Emergency Services Director.

SUMMARY TABLE OF ALL MEETING ATTENDANCE BY NAME AND ORGANIZATION - 2021 TOOELE COUNTY PDMP						
Name	**Title**	**Organization**	**9/15/2020**	**11/19/2020**	**5/20/2021**	**9/28/2021**
Amy Lyman	Captain	Stockton City Fire Dept			X	
Beckie Boekweg	Office Manager	Tooele County Emergency Management		X		X
Brent Marshall	Mayor	Grantsville City				X
Brett Palmer	Public Works Director	Stansbury Service Agency				X
Bucky Whitehouse	Emergency Services Director	Tooele County	X	X	X	X
Christy Roberts	Public Works Assistant Director	Grantsville City	X	X		
Dan Walton	Tooele County Fire Chief	Tooele County		X	X	
Debbie Winn	Mayor	Tooele City	X			
Dennis Clarke	Mayor	Vernon Town		X		
Eric Martineau	Mitigation Specialist	Utah Division of Emergency Management	X			
Jacob Clegg	Tooele County Engineer	Tooele County	X	X	X	
James Waltz	Public Works Director	Grantsville City	X	X		X
Jared Stewart	Economic Development Director	Tooele City		X		X
Jim Bolser	Community Development Director	Tooele City	X	X		
Kendall Thomas	County Council	Tooele County	X			
Lloyd Evans Jr.	Fire Marshall	Tooele County	X			
Mark Mckendrick	Facility/Parks and Recreation Dir	Tooele County			X	
Markus Seat	Engineer/Planner	Grantsville City	X			
Matthew Starley	BRAG Regional Planner	BRAG	X	X	X	X
Misti Williams	Facility/Parks and Recreation Dir	Tooele County			X	x
Nando Meli	Towne Council	Stockton City		X	X	X
Paul Hansen	Tooele City Engineer	Tooele City				X
Pete Albrecht	City Council	Rush Valley		X		X
Rachelle Custer	Community Development Director	Tooele County	X	X	X	X
Steve Bowman	Geologic Manager	Utah Geological Survey	X			
Timm Dixon	Engineer/Planner	Grantsville City	X			
Tom Tripp	County Council	Tooele County	X			
Wayne Anderton	Assistant Roads Director	Toole County	X			
Zac Covington	Sr. Regional Planner	BRAG	X			X

Critical Asset Review Guide

To review your jurisdiction's critical asset data in the easiest and most efficient way we ask that you use Google Earth Pro (free). The advantage of using Google Earth Pro is that you can easily explore, add or edit critical assets in your jurisdiction and send it back to us. Please follow the step below to install and use Google Earth Pro.

Note: If Google Earth is not an option for your jurisdiction please let us know and we can provide you with a digital pdf map to review instead.

For help, questions or comments please email or call:

- Matthew Starley *matts@brag.utah.gov* or (435) 713-1427

Data Security

The security of your jurisdiction's critical asset data is important. All critical asset data will be kept in-house and not made public. Any sensitive data provided in our analysis will not be released to the public version of the plan. If you would like us to send a letter stating that, we can do so at your request.

Do you have missing critical asset data in digital or hard copy format?

Do you have critical asset data that you would like analyzed in the risk analysis that we don't have, such as water lines or water treatment facilities? If so, please email it to us. This can be a digital document/GIS file (e.g., pdf, jpeg) or a hard copy (e.g., town map, general plan) that you can scan and upload. We will save you the time of adding/editing it in Google Earth.

Download and Install Google Earth Pro

How do I download and install Google Earth Pro?

1. Copy and paste the link below into your internet browser to download and install Google Earth: *https://support.google.com/earth/answer/21955?hl=en*
2. Not working out? Please contact Matthew for guidance

How do I load the data into Google Earth using **Windows**?

1. Attached to the email you received will be a zipped file containing critical asset data called **County Critical Asset Review.** Proceed to download that file.
2. Once the file has been download open the **File Explorer** and navigate to **Downloads**.
3. Right click on the file **County Critical Assets Review** and select **Extract All**. This will unzip the file and allow you to use it in Google Earth Pro.
4. Next Open Google Earth Pro.
5. On the top of the program click **File > Open**.
6. Navigate to the **Downloads** folder and select the unzipped folder **County Critical Assets Review** and **Open** the file **County Critical Asset.**
7. Select the **County Critical Asset** files and click **Open**. This will load the data into Google Earth.

How do I load the data into Google Earth using **Mac**?

1. Attached to the email you received will be a zipped file containing critical asset data called **County Critical Asset Review**. Proceed to download that file.
2. Once the file has been download open the **Finder** and navigate to **Downloads.**
3. Double click on the file **County Critical Asset Review**. This will unzip the file and allow you to use it in Google Earth Pro.
4. Next Open Google Earth Pro.
5. On the top of the program click **File > Open**.
6. Navigate to the **Downloads** folder and select the unzipped folder **County Critical Asset Review** and choose **Open.**
7. Select the **County Critical Asset** files and click **Open**. This will load the data into Google Earth.

Using Google Earth

How do I navigate in Google Earth?

Use **Zoom**, **Move** and **Rotate** to view your jurisdiction's Critical Asset Data. This is your jurisdiction's opportunity to explore the critical asset data we have collected and let us know what we have missed or what is inaccurate. You can click on the map icons to show more information about the asset.

1. **Zoom** in and out of the map by using the scroll wheel on your mouse OR the **Zoom Slider** located in the upper right hand corner of the program (+ to zoom in, - to zoom out).
2. **Move** around the map by clicking and dragging the map OR using the **Move** controls (located in the upper right hand corner just above the zoom slider).
3. **Rotate** the map by holding the **Ctrl** button (Windows) or **Command** (Mac) while moving your mouse OR using the **Look** controls (located on above the Move and Zoom Slider controls in the upper right hand corner).

4. If you are interested in additional information on using Google Earth please visit: *https://www.virginiaview.cnre.vt.edu/curriculum/Google%20Earth%20Pro%20Manual.pdf*

Adding Missing Critical Asset

How do I add a missing critical asset point (e.g., park, church, school)?

Don't see a critical asset point but you want it included in your jurisdiction's analysis? Add a missing critical asset by clicking on the **New Placemark** button (yellow pushpin located on the top of the program).

1. When you click the **New Placemark** button a popup window will appear.
2. Move the popup window to the side of your screen. You will then see an icon with a yellow box around it.
3. Click and hold the icon and move it to the location you would like.
4. Once you have placed the icon where you want it, you will enter information about it.
5. In the popup window, name the type of critical asset you want to add, for example, if you want to add a park, name the placemark "park." In the same popup window under **Description** add any additional information, such as the name of the asset, or anything else you would like us to know about the critical asset.
6. Once you are done adding the information about the critical asset click **Ok**.
7. Didn't quit place the critical asset where you wanted it? You can move the critical asset by right clicking on the icon and selecting **Properties**. A popup window will appear, move it to the side if you need to then move the critical asset (asset will have a yellow box around it) where you would like it and click **Ok** in the popup window.

How do I add a missing critical asset line (e.g., canal, pipeline, road)?

Don't see a critical asset line but you want it included in your jurisdiction's analysis? Add a missing critical asset by clicking on the **Add Path** button (icon with three circles connected by lines, two over from the yellow pushpin).

1. When you click the **Add Path** button a popup window will appear.
2. Move the popup window to the side of your screen.
3. To create the line you will click along the map where you would like the line to be.
4. Once you are done adding the line, you will enter information about it.
5. In the popup window, name the type of critical asset you want to add, for example, if you want to add a canal, name the path "canal." In the same popup window under **Description** add any additional information, such as the name of the asset, or anything else you would like us to know about the critical asset.
6. Once you are done adding the information about the critical asset click **Ok**.
7. Didn't quit place the critical asset where you wanted it? You can move the critical asset by right clicking on the icon and selecting **Properties**. A popup window will appear, move it to the side if you need to then hover over a point along the line until the crosshairs turns into a hand. Once that occurs you can move the point to change its location. When you are done editing the line click **Ok** in the popup window.

Fixing misplaced or wrong critical assets

How do I fix a misplaced critical asset?

Due to data inaccuracies some of the critical assets we have mapped are not in their exact locations. If you would like to move a critical asset to a location that is more accurate do so by right clicking on the critical asset and selecting **Properties**. Depending on what type of critical asset it is (point or line), follow step 7 from the "how do I add a missing critical asset point or line." After you move the critical asset add the words misplaced to the end of the critical asset type in the Name box in the popup window. This will help us know which critical assets have been edited. When you are done moving the critical asset click **Ok** in the popup window and continue reviewing.

How do I fix a wrong critical asset?

Is a critical asset wrong? Due to data inaccuracies some of the critical assets we have mapped might be wrong and need to be removed. If you would like to remove a wrong critical asset do so by right clicking on the wrong critical asset and select **Properties**. A popup window will appear with information about that critical asset. In the Name box add the word Wrong to the name. This will help us know which critical assets need to be removed.

Sending back your comments

All done reviewing and editing your jurisdiction's critical asset data? Follow the steps below:

1. Go to **File** > **Save** > **Save Place As**
2. In the new window, go to the left-hand panel and select a folder you would like to save the data to (don't know where to save the critical asset data? Select Desktop). Rename the file name to your jurisdiction's name.
3. Click **Save**.
4. **Email** the saved file back to Matthew.

What Community Assets Should Be Analyzed?

Which assets are the most vulnerable to natural hazards in our communities?

*Denotes assets from the previous PDMP

Population
- ◻ Commercial Properties
- ◻ Population Density
- ◻ Residential Parcels*
- ◻ Future Residential Development
- ◻ Low Income Populations
- ◻ Older Adult Populations
- ◻ Disabled
- ◻ Children
- ◻ Non-English Speakers

Infrastructure
- ◻ Railroad Lines
- ◻ Natural Gas Lines
- ◻ Electrical Power Lines
- ◻ Roads
- ◻ Future Roads
- ◻ Canals

Critical Facilities
- ◻ Airports
- ◻ Assisted Living Facilities*
- ◻ Bridges
- ◻ Broadband Anchors
- ◻ Clinics*
- ◻ Correctional Facilities
- ◻ Dams
- ◻ EMS/Fire Station
- ◻ Electric Substations *
- ◻ Emergency Operation Centers
- ◻ Flood Channel*
- ◻ Gas Station*
- ◻ Government Buildings*
- ◻ Grocery Store*
- ◻ Health Care Facilities
- ◻ Hydroelectric Plants*
- ◻ Irrigation*
- ◻ Law Enforcement Offices
- ◻ Locations Housing Hazardous Material
- ◻ Military Facilities
- ◻ Places of Worship*
- ◻ Post Office*
- ◻ Public Facilities
- ◻ Schools*
- ◻ Secondary Diversion*
- ◻ Shelters*
- ◻ Town Hall*
- ◻ Water and Wastewater*
- ◻ Well and Springs*
- ◻ Well Building*

Agricultural Features
- ◻ Agricultural Production
- ◻ Farmland
- ◻ Grazing
- ◻ Century Farms
- ◻ Historic Barns

Environmental and Recreational Features
- ◻ Lakes
- ◻ Local Parks
- ◻ Outdoor Amenities
- ◻ Riparian Areas
- ◻ Streams
- ◻ Parks
- ◻ Sensitive Habitat
- ◻ Trails
- ◻ Wetlands

Other Major Economic Employers
- ◻ Commercial Centers
- ◻ Future Commercial or Industrial Development

Cultural Resources
- ◻ Historic Buildings
- ◻ Museums
- ◻ Geological Sites
- ◻ Concert Halls
- ◻ Stadiums

Other:

Planning Process Input

- ◻ Field Trips
  - ◻ Geologic Sites
  - ◻ Wetlands/Floodplain Sites
  - ◻ Wildfire High Risk Sites
- ◻ Presentations from Natural Hazard Experts
  - ◻ Flood
  - ◻ Drought
  - ◻ Geologic (faults, liquefaction)
  - ◻ Landslide
  - ◻ Wildfire
  - ◻ Other:
- ◻ Hands on hazard scenario mapping and planning activity

Countywide Working Group Members

- ◻ Elected Officials: Commissioners, Mayors, Council Members
- ◻ Tribal Leaders
- ◻ Emergency Managers
- ◻ Fire Chiefs
- ◻ EMS
- ◻ Sheriff/Police
- ◻ Planning and Zoning Commission
- ◻ Transportation Planner/MPO
- ◻ City, County, State Planners
- ◻ GIS staff
- ◻ Public Works
- ◻ Engineers
- ◻ State and Federal Land Managers
- ◻ School Districts
- ◻ University and Colleges
- ◻ Health Department
- ◻ Chamber of Commerce
- ◻ Local Citizens

Planning Process Input

- ◻ Community Emergency Response Team (CERT)
- ◻ Others:

TOOELE COUNTY
TCEM
EMERGENCY MANAGEMENT

TOOELE COUNTY
EMERGENCY MANAGEMENT
15 East 100 South, Tooele, Utah
435- 833-8100
www.tcem.org

September 7, 2021

Nevada Division of Emergency Management/Homeland Security
Attention Mitigation Section Manager
2478 Fairview Drive,
Carson City, Nevada 89701

To Whom It May Concern,

Tooele County recently completed their draft of the Tooele County Hazard Mitigation Plan. The Plan is in Pre-Adoption form, and we would invite a representative from your agency to attend a virtual meeting to discuss the details of the plan. If you are unable to make the meeting you may also review the plan. The plan has begun the public comment period and is available for review for 30-days on the www.tcem.org website. If you would like a hard copy of the plan or would like to comment on any of the components of the plan you may contact our offices at 4358338100 or email Bucky Whitehouse, Emergency Services Director at bucky.whitehouse@tcem.org .

Thanks for your interest in reviewing and commenting on the plan.

Sincerely,

Bucky Whitehouse
Emergency Services Director.

TUESDAY October 12, 2021 TOOELE TRANSCRIPT BULLETIN B5

To place your Classified ad call 435-882-0050

CLASSIFIED

To place your Classified ad call 435-882-0050

CLASSIFIED LINE AD RATES Published every Tuesday and Thursday
Twenty words or less: $6.00 After 20 words 30¢ per word/line. Bold type 5¢ per word/line. Bound ads 50¢ per issue
Monthly rate – 20 words or less: $25.00 per word over 20 words. Bold/bound ads extra. No ads for insertion of 6 consecutive issues. Minimum of 6 consecutive issues.

CLASSIFIED AD DEADLINES:
Monday 4:45 p.m. for Tuesday
Wednesday 4:45 p.m. for Thursday
To place your Classified ad call 435-882-0050

NOTICE Tooele Transcript Bulletin Publishing and Tooele Transcript Bulletin Newspaper TBP does not endorse the purchase of any product or service advertised in this newspaper. Advertisements are the sole responsibility of the advertiser. TBP hereby disclaims all liability for any damages suffered as the result of any advertisement and is not responsible for any claims or representations made. TBP has the sole authority to edit and locate any advertisement as deemed appropriate, and reserves the right to refuse any advertisement. All real estate advertised in the Tooele Transcript Bulletin is subject to the Federal Fair Housing Act of 1968. TBP will not knowingly accept any advertising for real estate which is in violation of the law. Our readers are informed that all dwellings advertised in this paper are available on an equal opportunity basis.

Services

AERATION, TILLING, power raking (works best when wet), topsoil, small dump truck, landscape rock, sand/gravel, mulch, manure, limerock, Seasonal Service (435)850-2929

AFFORDABLE HANGON AND SON'S HANDY-MAN SERVICE Minor home repairs, interior or exterior. Same day service. Local. Call Jeff (435)278-1445

Dirt work skid steer and dump trailer call Dave 435 841-9522 if no answer please leave a message

Eliminate gutter cleaning forever! LeafFilter, the most advanced debris-blocking gutter protection. Schedule a FREE LeafFilter estimate today. 10% off Entire Purchase. 10% Senior & Military Discounts. Call 1-844-909-2398

HANDYMAN, any kind of handyman work, yard work, leaf cleanup. Residential and business. Call Jimmy at (435)228-8561

HANDYMAN, For fall clean up, residential snow removal and any other job, small or large. Call Jimmy at (435)228-8561

HOME REPAIRS expert. Doors, knobs, trim, baseboards, mouldings, drywall repairs, texturing, caulking, weather-proofing, framing, home updating and renovations and much more. Small jobs okay. Call Shane (435) 840-0344.

RAIN GUTTERS, seamless, aluminum, all colors, leaf protection cleaning. Licensed and insured. Free estimates. (435)841-4001

Services

STEEL JACKET Gun Repair LLC. Honest and trustworthy service. Call or text Travis (435)224-4726 travisbot@gmail.com

TREE WORK. Free estimates! Local company. Licensed & insured. Bucket truck. Crane service. Stump removal, mulch. 801-633-5685 ProcareTreeLLC.com

Miscellaneous

AT&T TV - The Best of Live & On-Demand On All Your Favorite Screens. CHOICE Package, $64.99/mo plus taxes for 12mo/mo. Premium Channels at No Charge for One Year! Anytime, anywhere. Some restrictions apply. WV 24-mo. agmt TV price higher in 2nd year. Regional Sports Fee up to $8.40/mo. is extra & applies. Call IVS 1-855-404-6323

Become a published author! Publications sold at all major secular & specialty Christian bookstores. CALL Christian Faith Publishing for your FREE author business kit. 1-866-465-2052

DIRECTV for $69.99/mo for 12 months with CHOICE Package. Watch your favorite live sports, news & entertainment anywhere. One year of HBO Max FREE. Directv is #1 in Customer Satisfaction (JD Power & Assoc.) Call for more details! (some restrictions apply) Call 1-833-599-6474

SELL YOUR computer in the classifieds. Call 882-0050 or visit www.tooeletranscript.com

CARRIERS *Needed!*

TOOELE TRANSCRIPT BULLETIN is looking for Paper Carriers!

Please call **435.882.0050**

Miscellaneous

DIRECTV NOW. No Satellite Needed, $40/month. 65 Channels, Stream Breaking News, Live Events, Sports & On-Demand Titles. No Annual Contract. No Commitment. CALL 1-844-435-3985

DISH Network. $64.99 for 190 Channels! Blazing Fast Internet, $19.99/mo. (where available.). Switch & Get a FREE $100 Visa Gift Card. FREE Voice Remote. FREE HD DVR. FREE Streaming on ALL Devices. Call today! 1-855-360-6393

Earthlink High Speed Internet. As Low As $49.95/month (for the first 3 months.) Reliable High Speed Fiber Optic Technology. Stream Videos, Music and More! Call Earthlink Today 1-844-240-1765

HughesNet Satellite Internet - 25mbps starting at $49.99/mo! Get More Data. FREE Off-Peak Data. FAST download speeds. WiFi built in! FREE Standard Installation for lease customers! Limited Time. Call 1-844-394-8885

If you sell insurance, promote a hospital or an ambulance service, place your classified ad in all 47 of Utah's newspapers. The cost is only $163. for a 25 word ad ($5. For each additional word). You will reach up to 500,000 newspaper readers. Just call Tooele Transcript Bulletin at (435)882-0050 for details. (Ucan)

Portable Oxygen Concentrator May Be Covered by Medicare! Reclaim independence and mobility with the compact design and long-lasting battery of Inogen One. Free information kit! Call 877-691-4639

Stroke and Cardiovascular disease are leading causes of death, according to the American Heart Association. Screenings can provide peace of mind or early detection! Contact Life Line Screening to schedule your screening. Special offer - 5 screenings for just $149. Call 1-866-509-0367

HAVING A yard sale? Advertise in the Transcript

Miscellaneous

Stroke and Cardiovascular disease are leading causes of death, according to the American Heart Association. Screenings can provide peace of mind or early detection! Contact Life Line Screening to schedule your screening. Special offer - 5 screenings for just $149. Call 1-866-509-0367

Two great new offers from AT&T Wireless! Ask how to get the new iPhone 11 or Next Generation Samsung Galaxy S10e ON US with AT&T's Buy one, Give One offer. While supplies last! CALL 1-855-916-3098

You may have just the thing someone out of town is looking for. Place your classified ad in 45 of Utah's newspapers, the cost is $163. For up to 25 words. You will be reaching a potential of up to 340,000 households. All you need to do is call the Tooele Transcript Bulletin at 882-0050 for full details. (Mention UCAN)

Furniture & Appliances

NORTH VALLEY Appliance. Washers/dryers refrigerators, freezers, stoves. $149-$399 full warranty. Complete repair service. Satisfaction guaranteed. Parts for all brands. (435)830-2225.

Garage, Yard Sales

HAVING A GARAGE SALE? Advertise it in the classifieds. Call 882-0050

Livestock

Need to sell that new champion bull or your yearling calves? Place your classified ad in 43 newspapers, find your buyers quickly. For only $163. your 25 word classified will be seen by up to 300,000 readers. It is as simple as calling the Tooele Transcript Bulletin at (435)882-0050 for details. (Ucan)

STRAW bales. New crop, very scarce and expensive this year. $7/ bale you pick up. $8/bale delivered. Garth (435)837-2204 (435)830-2309

Sporting Goods

SELLING YOUR mountain bike? Advertise it in the classifieds. Call 882-0050 www.tooele transcript.com

Help Wanted

Business owners: If you hired someone last, place your classified ad in all 46 of Utah's newspapers. The person you are looking for could be from out of town. The cost is only $163. for a 25 word ad and it reaches up to 340,000 households. All you do is call the Transcript Bulletin at (435)882-0050 for all the details. (Mention UCAN) You can now order online www.upnrent.com

ADJUNCT NURSING INSTRUCTOR - Weber State University. Candidate will work with faculty to teach undergraduate course material, clinical calls and labs in the nursing program. PT. Apply online at https://weber.csm.edu/jobs/index.htm

SEEKING DIRECT care Staff for a developmentally disabled adult in Grantsville. Training will be provided. Call Jacob (801)918-1162 for more information.

Business Opportunities

INVENTORS - FREE INFORMATION PACKAGE Have your product idea developed affordably by the Research & Development pros and presented to manufacturers. Call 1-877-646-5074 for a Free Idea Starter Guide. Submit your idea for a free consultation.

Small Business owners: Place your classified ad in 43 newspapers throughout Utah for only $163. for 25 words, and $5. per word over 25. You will reach up to 340,000 households and it is a one call, one order, one bill program. Call the Transcript Bulletin at 882-0050 for further info. (ucan)

SELLING YOUR HOME? Advertise it in the classifieds. Call 882-0050 or visit www.tooeletranscript.com

Wanted

I AM paying more for junk cars/trucks. I will come to you and tow it away. Call/Text (435)224-5064 DL5970

LOOKING FOR water rights. Will pay top dollar. Have $300,000.00 cash money. Please call Greg at 801-254-0549 or 385-233-0585

Autos

2005 Lincoln LS $1000.00 OBO Douglas Smith 435-840-8191

DONATE YOUR CAR OR TRUCK TO HERITAGE FOR THE BLIND. Free 3 Day Vacation. Tax Deductible. Free Towing. All Paperwork Taken Care Of. CALL 1-855-408-2196

DONATE YOUR CAR TO UNITED BREAST CANCER FOUNDATION Your donation helps education, prevention & support programs. FAST FREE PICKUP – 24 HR RESPONSE – TAX DEDUCTION 1-855-507-2601

SELL YOUR CAR or boat in the classifieds. Call 882-0050 or visit www.tooeletranscript.com

Homes

Planning on selling your home, you could be sending your sales points to up to 340,000 households at once. For $163. you can place your 25 word classified ad in all 45 newspapers of Utah. Just call the Transcript Bulletin at 882-0050 for all the details. (Mention UCAN)

SELLING YOUR HOME? Advertise it in the classifieds. Call 882-0050 or visit www.tooeletranscript.com

Buildings

If you build, remodel or remove buildings you can place your classified ad in 45 of Utah's newspapers for only $163. for 25 words ($5. for each additional word). You will reach up to 340,000 households and all you do is call the Transcript Bulletin at 882-0050 for all the details. (Mention UCAN Classified Network)

Financial Services

Wesley Financial Group, LLC. Timeshare Cancellation Experts. Over $50,000,000 in timeshare debt and fees cancelled in 2019. Get free informational package and learn how to get rid of your timeshare! Free consultations. Over 450 positive reviews. Call 888-912-3283

Public Notices Meetings

Deadline for public notices is 4 p.m. the day prior to publication. Public notices submitted past the deadline will not be accepted.
UPAXLP

LAKE POINT CEMETERY AND PARK SERVICE DISTRICT
AGENDA
Lake Point Cemetery and Park Service District Meeting
October 12, 2021 - 7:00pm
Oquirrh Mountain Inn, Lake Point, Utah
1) Welcome and Roll Call
2) Accept minutes for September meeting.
3) Water Update
4) Park Maintenance
5) Cemetery Update: Sexton Questions
6) Park Reservations/ Park Coordinator
a) Reservation No Shows
7) Update Park Policies/Rules
8) Other Business
a) ET Park & Pioneer Park Committee
b) Veterans Committee
c) Boundary Commission
d) Other Board Duties
9) Public Comments/ Concerns
10) Adjourn
Lake Point Cemetery and Park Board Meeting 2021 Schedule:
Meetings start at 7:00 pm. Dates are subject to change. Locations for the remainder of the year are to be determined.
October 12, 2021 (moved due to UEA)
November 16, 2021
December 7, 2021 - Budget meeting - UPDA
(Published in the Tooele Transcript Bulletin October 12, 2021)

PUBLIC NOTICE
Notice is hereby given that the Lake Point Improvement District will hold its regularly scheduled Business Meeting on October 14, 2021 at 7:00 p.m. at the Broken Arrow Conference Room, 5560 Clinton Landing Road, Lake Point, Utah. The meeting agenda is posted on the Tooele County website (http://co.tooele.ut.us/c

Public Notices Meetings

lark.html), State Public Notice (http://pmn.utah.gov/pmnsitedotmf/) websites and the District Bulletin Board at 7854 North Mountain View Road. (Published in the Tooele Transcript Bulletin October 12, 2021)

Public Notices Trustees

Deadline for public notices is 4 p.m. the day prior to publication. Public notices submitted past the deadline will not be accepted.
UPAXLP

Public Notices Water User

Deadline for public notices is 4 p.m. the day prior to publication. Public notices submitted past the deadline will not be accepted.
UPAXLP

Public Notices Miscellaneous

Deadline for public notices is 4 p.m. the day prior to publication. Public notices submitted past the deadline will not be accepted.
UPAXLP

NOTICE
An Emergency Hazardous Waste Permit No. UT-022-2021 has been issued to the Tooele Army Depot North Area (TEAD-N) Tooele County, Utah. The permit authorizes TEAD-N to detonate several items discovered during a surface clearance of an on-going Military Munition Response Program project.
The permit was effective August 11, 2021, and expired August 12, 2021. For further information, or to request a copy of the permit, please contact Rick Page of the Division of Waste Management and Radiation Control at (801) 536-0230. In compliance with the Americans with Disabilities Act, individuals with special needs (including auxiliary communicative aids and services) should contact Lorena Wyss, Office of Human Resources at (801) 536-4284, Telecommunications Relay Service 711, or by email at lwyss@utah.gov". (Published in the Tooele Transcript Bulletin October 12, 2021)

BECOME A SUBSCRIBER, 882-0050

Public Notices Miscellaneous

PUBLIC NOTICE
DRAFT 2021 PRE-DISASTER MITIGATION PLAN FOR THE TOOELE COUNTY
In accordance with the Disaster Mitigation Act of 2000, the Pre-Disaster Mitigation Plan for the Tooele County has been updated. The plan is now available for a 30-day public comment period ending on October 17, 2021 at 6:00 PM. The plan identifies potential natural hazards, estimates vulnerability to those hazards, and documents mitigation strategies for all participating jurisdictions located within Tooele County, Utah. To view the plan, click the link at the bottom of the home page of the Tooele County Emergency Management website at www.tcem.org. If you would like a hard copy of the plan, or have any comments or questions, contact Bucky Whitehouse, Emergency Services Director, at bucky.whitehouse@tcem.org or call at 435.833.8100.
(Published in the Tooele Transcript Bulletin October 12, 14, 19 & 21, 2021)

PUBLIC NOTICE
This is a notice that on Friday, October 15, 2021, the Utah Highway Patrol will be conducting an administrative checkpoint in the county of Tooele. This checkpoint will utilize but not be limited to the Utah Highway Patrol and Tooele County Sheriff's Office. This checkpoint will be conducted on Interstate 80, in the area of milepost three, east and westbound traffic lanes. According to law, a jurisdictional authorized plan will be available at the site of the administrative checkpoint, and will be maintained on file for one year. You may obtain a copy of the plan at the Utah Highway Patrol office, located at 1525 N. Aaron Dr. Suite #J, Tooele, Utah 84074.
(Published in the Tooele Transcript Bulletin October 12 & 14, 2021)

SELL YOUR CAR or boat in the classifieds. Call 882-0050 or visit www.tooeletranscript.com or e-mail your ad to tbp@tooeletranscript.com

SELL YOUR car in the Transcript Bulletin Classified section.

Local News You Get Nowhere Else
Get Over 100 Issues For Only $40
TOOELE TRANSCRIPT BULLETIN
Subscribe: 435.882.0050 or TooeleOnline.com

DRAFT 2021 PRE-DISASTER MITIGATION PLAN FOR THE TOOELE COUNTY

In accordance with the Disaster Mitigation Act of 2000, the Pre-Disaster Mitigation Plan for the Tooele County has been updated. The plan is now available for a 30-day public comment period ending on October 17, 2021 at 6:00 PM. The plan identifies potential natural hazards, estimates vulnerability to those hazards, and documents mitigation strategies for all participating jurisdictions located within Tooele County, Utah. To view the plan, click the link at the bottom of the home page of the Tooele County Emergency Management website at www.tcem.org. If you would like a hard copy of the plan, or have any comments or questions, contact Bucky Whitehouse, Emergency Services Director, at bucky.whitehouse@tcem.org or call at 435.8338100.

APPENDIX C: RISK ASSESSMENT SURVEY RESULTS

Question	Type	Community 1	Community 2	Community 3	Community 4	Community 5
Does your community participate in the National Flood Insurance Program (NFIP)?	Yes					Yes
	No				No	
	Don't Know	Don't Know	Don't Know	Don't Know		
Have there been Natural Hazard events in your community since August of 2015? If so, please describe the event(s), the severity of the event(s) (damage or intensity), and the date, if known:	Open-Ended Response	Earthquake March 2020	Tremors	Not that I know of	None	Earthquake with minor to moderate damage. Fires with minor to severe damage.
Do you have any maps, documents, or plans related to natural hazards for your community? Please describe:	Open-Ended Response	No	No	Nope	Yes, we have our Grantsville City Emergency Operations Plan	
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.	Open-Ended Response	Hospital, lots of schools, fire station	Tooele Army Depot, Hospital, Fire Stations, Water Treatment Plants, Schools	Schools, fire station, health clinic, pharmacy	City Hall, Public Works Facilities, Justice Center, Fire Station, Treatment Plant, EMS Station, Well houses, and Schools	
Please describe any other assets (parks, historic or other buildings, natural areas, etc.) in your community that you would like to protect from natural hazard events:	Open-Ended Response	?	None	Observatory, parks, green space/lake	Donner Reed Museum, 5 Parks, and Rodeo Grounds	
Does your city/town currently have zoning, ordinances or other tools to address natural hazards and/or regulate construction in potentially hazardous areas?	Response	Don't Know	No	Don't Know	Yes	Yes
	If yes, please list.					
Please identify all the hazards below that affect your community and/or you would like to have analysis completed for during this natural hazard planning process.	Response	Earthquake	Radon	Other (please specify)	Flood	Wildfire
	Other (please specify)			This won't let you select all that apply! Drought, earthquake, wildfire,		

APPENDIX D: GIS DATA REFERENCES

2021 Tooele County PDMP GIS Data Types and Information											
Data	**TYPE**	**UNITS**	**Total**	**Value**	**Data?**	**Google Earth**	**Layer Names**	**Notes**	**Source**	**Discription**	**Year**
AGRICULTURAL RESOURCES	Farmland	Acres	58,408		yes	yes	AGRC_WRLU_Agricultural	Water Related Land Use - Land Use Field = Agricultural	NRCS SSURGO		2019
	Grazing Allotments				yes		Tooele_Grazing_Allotments		AGRC	Grazing Allotments contain statewide Grazing Allotment boundaries for use in planning and land management. This dataset also contains the allotment name, number and managing agency. Each allotment is managed by the listed state or federal agency on number of domestic animals allowed on the allotment and designated as Animal Unit Months (AUMs). The dataset was compiled by Utah Department of Agriculture and Food GIS staff from multiple state and federal agencies. There are no constraints or warranties with regard to the use of this dataset.	Sep-09
	Grazing Allotments	Units	428		yes						
	Grazing Allotments	Acres	2,165,542		yes				AGRC	Grazing Allotments contain statewide Grazing Allotment boundaries for use in planning and land management. This dataset also contains the allotment name, number and managing agency. Each allotment is managed by the listed state or federal agency on number of domestic animals allowed on the allotment and designated as Animal Unit Months (AUMs). The dataset was compiled by Utah Department of Agriculture and Food GIS staff from multiple state and federal agencies. There are no constraints or warranties with regard to the use of this dataset.	Sep-09
HOMES	Housing Units	Points/Value	23,758		yes	yes	AddressPoints_Residential All, AddressPoints_Res_Additions	AGRC address points joined with Tooele Parcels LIR county assessors data.	Utah AGRC		2020
	Parcels Associated	#	21,240		yes	yes	All Codes_Residential/ ResCode_Additions	Parcels LIR all features labeled with Residential Related Codes from prop_class field, as well as additional inclusions derived from identifying address points that had likely had been updated more recently than Parcel Data.	Utah AGRC		
		Acres	37,416	$ 4,613,709,010.00	yes	yes			Utah AGRC		
	Cemetery	Points	13		yes	yes	Cemeteries_Locations.shp	AGRC Utah - *Product name* : Cemeteries. *Steward* : Utah State History... Also supplimented with Google Earth Search	AGRC Utah - Product name: Cemeteries. Steward: Utah State History		
	Commercial Business	Points/Value	1107		yes	yes	Adress Points_Commercial All	AGRC address points joined with Tooele Parcels LIR county assessors data.	Utah AGRC Address_Points / Parcels Tooele LIR		
	Parcels Associated	#	954		yes	yes	All_Codes_Commercial	Parcels LIR all features labeled with Commercial Related Codes from prop_class field	Utah AGRC/Counties Parcels Tooele LIR		
		Acres	14171.39	$ 862,115,072.00	yes	yes	All_Codes_Commercial		Utah AGRC/Counties Parcels Tooele LIR		
	Library	Points	5		yes	yes	GE_Library.gdb	AGRC Libraries supplimented with Google Earth Search	Utah AGRC	Libraries provides locations and information for public Libraries and their branches throughout Utah. Includes base location for bookmobile libraries.	Jun-13

2021 Tooele County PDMP GIS Data Types and Information

Data	TYPE	UNITS	Total	Value	Data?	Google Earth	Layer Names	Notes	Source	Discription	Year
COMMUNITY RESOURCES	Place of Worship	Points	74		yes	yes	GE_PlacesofWorship.gdb	AGRC Utah - Places of Worship suplimented with a search performed on Google Earth	Utah AGRC	The definition of a place of worship is any type of building or portion of a building that is used, constructed, designed, or adapted to be used as a place for religious and spiritual activities. This does not include religious schools or community centers, unless they meet the definition as a place of worship. Examples of facilities in this dataset are chapels, churches, convents, mosques, shrines, synagogues, and temples. The sources of this dataset are the Large Protestant Churches, Mosques, Jewish Synagogues, and Roman Catholic Churches in Large Cities dataset and additional AGRC research.	2011
	Grocery Stores	Points	22		yes	yes	GE_GroceryStores.gdb	Google Earth Search			10/26/2020
	University/College/Post High Schoole Education Facilities	Points	5		yes	yes	GE_EdPostHigh.gdb	AGRC Utah - Schools_Higher Education... suplimented with a search performed on Google Earth	Utah AGRC	This dataset contains point locations for higher education and adult vocational training in the state of Utah. This includes public and private colleges and universities, technical colleges, and other higher education institutions.	Sep-20
	Schools K-12	Points	34		yes	yes	GE_Ed_K_12.gdb	AGRC Utah - schools_prek_to_12... suplimented with a search performed on Google Earth	Utah AGRC	This dataset contains point locations for preschool and K-12 schools in the state of Utah - updated for the 2019-2020 school year. Higher education and adult The schools_prek_to_12 dataset was built in collaboration with Wasatch Front Regional Council (WFRC), the Utah State Board of Education (USBE), and the Utah Automated Geographic Reference Center (AGRC). The dataset includes public and private K-12 school locations with enrollment and demographics info by grade for public schools (charter and traditional) reported to the USBE. While some preschools are included, this is not a comprehensive statewide dataset for preschools.vocational training are not included in the dataset.	Aug-20
	Pre K	Points	13		yes	yes	GE_EdPreK.gdb	AGRC Utah - schools_prek_to_12... suplimented with a search performed on Google Earth	Utah AGRC	This dataset contains point locations for preschool and K-12 schools in the state of Utah - updated for the 2019-2020 school year. Higher education and adult The schools_prek_to_12 dataset was built in collaboration with Wasatch Front Regional Council (WFRC), the Utah State Board of Education (USBE), and the Utah Automated Geographic Reference Center (AGRC). The dataset includes public and private K-12 school locations with enrollment and demographics info by grade for public schools (charter and traditional) reported to the USBE. While some preschools are included, this is not a comprehensive statewide dataset for preschools.vocational training are not included in the dataset.	Aug-20
	Correctional Facility	Points	2		yes	yes	GE_Correctional_Facilities.gdb	AGRC Utah - Correctional Facilites.... Suplimented with a search preformed on Google Earth	Utah AGRC	CorrectionalFacilities contains locations for jails and prisons in Utah. A jail or prison defined by the Department of Justice consists of any facility or location where individuals are regularly and lawfully detained against their will. This includes Federal and State prisons, local jails, and juvenile detention facilities, as well as law enforcement temporary holding facilities. Locations which function primarily as law enforcement offices are included in this dataset if they have	Jun-13

2021 Tooele County PDMP GIS Data Types and Information

Data	TYPE	UNITS	Total	Value	Data?	Google Earth	Layer Names	Notes	Source	Discription	Year
GOVERNMENT FACILITIES	Military Facility	Points	5		Yes	yes	HIFLD_DoD_SitePoints	https://hifld-geoplatform.opendata.arcgis.com/datasets/dod-sites-points-public	US Department of Defense	This geospatial dataset contains the authoritative point locations of Department of Defense sites, commonly referred to as installations, ranges, training areas, bases, forts, camps, armories, centers, etc. These installations are, in many cases, comprised of a number of subordinate sites. This list does not necessarily represent a comprehensive collection of all Department of Defense facilities, and only those reported in the 2015 Base Structure Report (BSR) were considered for inclusion. Points are placed either at or near the center of each site and do not reflect any particular landmark. Boundaries encompass federally owned or otherwise managed lands, as defined in the BSR. The point and boundary location datasets are intended for planning purposes only, and do not represent the legal or surveyed land parcel boundaries.	5/17/2018
	Post Office	Points	7		yes	yes	GE_Local_Gov_Fac.gdb		Utah AGRC	Locations of Utah Post Offices according to an address list from the Salt Lake City USPS District Office.	Febuary 6 2018
	Local Government Facilities	Points	17		yes	yes	GE_Local_Gov_Fac.gdb	Digitized Town Halls, County Facilities, Court Houses, City Tresuer	BRAG		10/26/2020
RECREATION AMENITIES	Campground/Recreation Facility	Points	22		yes	yes	GE_Campgrounds.gdb	Campgrounds, picnic areas	Google earth search		10/26/2020
	Golf Course	Points	4		Yes	yes	GE_Golf_Cources.gdb	Polygon to point and Google Earth search	Utah AGRC/BRAG		10/26/2020
	Community Centers	Points	7		yes	yes	GE_Community_Centers.gdb	Digitized - Public gathering areas, indoor and outdoor	BRAG		11/4/2020
	Historic Site	Points	87		yes	yes	GE_Historic_Sites.gdb	Objects, sites, and structures. Majority from AGRC Layer supplimented with Google Earth search	US Department of Interior, NRHP and Google Earth	Location, text, photos, and other information about historic markers and monuments located throughout Utah.	10/26/2020
	Museum	Points	8		yes	yes	GE_Museums.gdb	Digitized	BRAG		10/2602020
	State Park	Points	2		yes	yes	GE_State_Parks.gdb	Google Earth Search	BRAG		10/26/2020
	Park	Points	40		yes	yes	GE_Parks	Google Earth Search	BRAG		10/26/2020
	Trail	Miles	825.28		yes	yes	Trails_Pathways.shp	All existing	Utah AGRC/BRAG/Counties		
	Emergency Medical Service	Points	11		yes	yes	GE_Emergency_Medical_Service.gdb	AGRC Utah Data	Utah AGRC	mergency Medical Services represents the Emergency Medical Service (EMS) Facilities throughout the state of Utah. An EMS Facility is any location where emergency medical services personnel are stationed or based out of, or where EMS equipment is stored and ready use. Health.EmergencyMedicalServices includes both private and governmental entities.	Jun-13
	Public Safety Answering Point (PSAP) locations	Points	1		yes	yes	PSAP_Locations	AGRC Utah Data		PSAPLocations represents the primary Public Safety Answering Point (PSAP) locations in Utah. The Salt Lake County Sheriff Office PSAP is secondary. The dataset was created in December 2004 by geocoding the PSAP addresses provided by the E911 Executive Committee.	Dec-04

2021 Tooele County PDMP GIS Data Types and Information											
Data	TYPE	UNITS	Total	Value	Data?	Google Earth	Layer Names	Notes	Source	Discription	Year
EMERGENCY SERVICES	Emergency Operations Center	Points	0		n/a	n/a		County EOC's only - others included in Town Halls and Fire/Police Stations	Homeland Infrastructure Foundation-Level Data (HIFLD)	An Emergency Operations Center (EOC) is the physical location at which the coordination of information and resources to support incident management (on-scene operations) activities normally takes place. An EOC may be a temporary facility or may be located in a more central or permanently established facility, perhaps at a higher level of organization within a jurisdiction. EOCs may be organized by major functional disciplines (e.g., fire, law enforcement, medical services), by jurisdiction (e.g., Federal, State, regional, tribal, city, county), or by some combination thereof. The WEBSITE attribute contains a link to Emergency Operations Center or State Emergency Management website. These links contain updated information on emergencies and points of contact. The TRAFFIC attribute contains an link to dynamic traffic information via State 511 Intelligent Traffic System (ITS) website or Department of Transportation (DOT) website.FEMA's Directory Information: http://www.fema.gov/state-offices-and-agencies-emergency-management. Note: The most up to date contact information is found on the State or Territory website.	Mar-20
	Fire Station	Points	20		yes	yes	GE_FireStations.gdb	AGRC Data. Suplimented by a Google Earth Search	Utah AGRC	This dataset represents Fire Station locations in Utah.	6-Mar-14
	Hospital/Health Care Facility	Points	40		yes	yes	GE_Hopsital_HCF.gdb	Hospital, nursing home, assisted living, home health, outpatient, therapy, hospice, urgent care, clinic, and other facilities	Utah AGRC. Suplimented with Google Earth Search		December, 2017
	National System Shelter Facility	Points	18		Yes	yes	National_Shelter_Systems_Facilities		Homeland Infra. Foundation-Level Data (HIFLD)	The National Shelter System feature layer contains facilities that can house individuals in the event of an issued evacuation for the facilities area. This layer's attribution contains physical, demographic, and capacity information for facilities in the continental United States and some of its territories. The purpose of this layer is to provide accurate locations for a potential shelter in the event of a disaster. The facilities included have been designated as a Shelter by either the Federal Emergency Management Agency (FEMA) or the American Red Cross (ARC).	10/27/2020
	Law Enforcement Station	Points	10		yes	yes	GE_Law_Enforcement	AGRC Data. Suplimented by a Google Earth Search	AGRC	LawEnforcement contains locations for law enforcement facilities in Utah. Law enforcement facilities are defined as any location where sworn officers of a law enforcement agency are regularly based or stationed. Law enforcement facilities are at least partially publicly funded. This law enforcement dataset includes federal, state, local and special jurisdiction facilities. Examples of law enforcement facilities included are municipal police, county sheriffs, state police, school police, park police, railroad police, and federal police.	Oct-20

2021 Tooele County PDMP GIS Data Types and Information											
Data	**TYPE**	**UNITS**	**Total**	**Value**	**Data?**	**Google Earth**	**Layer Names**	**Notes**	**Source**	**Discription**	**Year**
ENERGY INFRASTRUCTURE	Substation/Regulator	Points	39		Yes	yes	HIFLD_Substations		Homeland Infrastructure Foundation-Level Data (HIFLD)	This feature class/shapefile represents electric power substations primarily associated with electric power transmission. In this layer, substations are considered facilities and equipment that switch, transform, or regulate electric power at voltages equal to, or greater than, 69 kilovolts. Substations with a maximum operating voltage less than 69 kilovolts may be included, depending on the availability of authoritative sources, but coverage of these features should not be considered complete. The Substations feature class/shapefile includes taps, a location where power on a transmission line is tapped by another transmission line. The following updates have been made since the previous release: 6,359 features added.	7/8/2020
	Natural Gas Pipeline	Miles	105.98		yes	yes	Pipeline_NaturalGas	UGS_Pipelines_UGS	Utah Gelogical Survey		
	Crude Oil Pipeline	Miles	0		NA	yes			Utah Geological Survey		
	Oil and Gas Well	Points	48		yes	yes	GE_OilGas_Wells.gdb		AGRC		
	AGRC Oil and Gas Wells	Points	34		yes	yes	GE_OilGas_Wells	https://gis.utah.gov/data/energy/oil-gas/	AGRC	These datasets depict oil and gas well surface points, units and fields polygons from the Utah Department of Natural Resources, Oil, Gas and Mining Division. This data was developed by contractors sponsored in part by the U.S. Department of Energy and the Ground Water Protection Council and provides the opportunity for the Division to collect more descriptive down-hole information for each wellbore permitted and drilled. Initially, much of the down-hole information will not be available because there was no place to save it in the previous databases. Eventually, as new wells are drilled and old legacy data is entered, more descriptive data will become available for the wells in Utah.	10/28/2020
	HIFLD_Oil_and_Natural_Gas_Wells	Points	14		Yes	yes	HIFLD_Oil_and_Natural_Gas_Wells	https://hifld-geoplatform.opendata.arcgis.com/datasets/oil-and-natural-gas-wells	HIFLD Data	This feature class/shapefile represents Oil and Natural Gas Wells. An Oil and Natural Gas Well is a hole drilled in the earth for the purpose of finding or producing crude oil or natural gas; or producing services related to the production of crude or natural gas. Geographic coverage includes the United States (Alabama, Alaska, Arizona, Arkansas, California, Colorado, Florida, Illinois, Indiana, Kansas, Kentucky, Louisiana, Maryland, Michigan, Mississippi, Missouri, Montana, North Dakota, Nebraska, Nevada, New Mexico, New York, Ohio, Oklahoma, Oregon, Pennsylvania, South Dakota, Tennessee, Texas, Utah, Virginia, Washington, West Virginia, Wyoming) as well Oil and Natural Gas wells in the Canadian provinces of British Columbia and Manitoba that are within 100 miles of the country's border with the United States. According to the Energy Information Administration (EIA) the following states do not have active/producing Oil or Natural Gas Wells: Connecticut, Delaware, District of Columbia, Georgia, Hawaii, Iowa, Idaho, Massachusetts, Maine, Minnesota, North Carolina, New Hampshire, New Jersey, Rhode Island, South Carolina, Vermont, and Wisconsin. Some states do have wells for underground Natural Gas storage facilities where these have been identified they were included. This layer is derived from well data from individual states and provinces and United States Agencies. This layer is complete for the United States but further development of data missing from two Canadian provinces and Mexico is in process. This update release includes an additional 497,036 wells covering Texas. Oil and gas exploration in Texas takes advantage of drilling technology to use a single surface well drilling location to drill multiple	9/24/2019

2021 Tooele County PDMP GIS Data Types and Information

Data	TYPE	UNITS	Total	Value	Data?	Google Earth	Layer Names	Notes	Source	Discription	Year
	Petroleum Terminals	Points	1		yes	yes	HIFLD_Petroleum_Terminals	https://hifld-geoplatform.opendata.arcgis.com/datasets/petroleum-terminals	HIFLD Data	This feature class/shapefile represents Petroleum Terminals. Petroleum Terminals are used to provide storage of both crude oil and refined petroleum products. Data contains locational and other attribute information for operable bulk petroleum product terminals with a total bulk shell storage capacity of 50,000 barrels or more, and/or ability to receive volumes from tanker, barge, or pipeline. Geographical coverage includes the United States, U.S. Virgin Islands, Puerto Rico, and Guam. This update includes an increase of 62 records for a total of 2,341 terminals. Two terminals were removed because it was confirmed they no longer exist. 66 new terminals were added; 57 of these were located at international airports. 3 terminals were changed to a STATUS of "DISMANTLED" because they no longer exist but still appear in some imagery sources. A new STATUS of "DISMANTLED" was added. Several NAICS codes and descriptions were corrected.	10/6/2020
	Petroleum Pipeline	Miles	58.88		yes	yes	Pipeline_Petro	UGS_Pipelines_UGS	Utah Geological Survey		
	Hydrogen Sulfide Pipeline	Miles	0		na	n/a			Utah Geological Survey		
	Power Generation Facility	Points	2		yes	yes	HIFLD_Power_Plants	https://hifld-geoplatform.opendata.arcgis.com/datasets/power-plants	HIFLD Data	This feature class/shapefile represents electric power plants. Power plants are all the land and land rights, structures and improvements, boiler or reactor vessel equipment, engines and engine-driven generators, turbo generator units, accessory electric equipment, and miscellaneous power plant equipment are grouped together for each individual facility. Included are the following plant types: hydroelectric dams, fossil fuel (coal, natural gas, or oil), nuclear, solar, wind, geothermal, and biomass. The following updates have been made since the previous release: 739 features added.	7/9/2020
	Alternative Energy Fuel Stations	Points	8		yes	yes	USDE_Alternative_Fuel_Stations	https://afdc.energy.gov/data_download	U.S. Department of Energy - Energy Efficiency and Renewable Energy		10/28/2020
	Transmission Line	Miles	386.23		yes	yes	HIFLD_Electric_Power_Transmission_Lines	https://hifld-geoplatform.opendata.arcgis.com/datasets/electric-power-transmission-lines - May aslo need to add some lines from the AGRC Layer	Homeland Infra. Foundation-Level Data (HIFLD)	This feature class/shapefile represents electric power transmission lines. Transmission Lines are the system of structures, wires, insulators and associated hardware that carry electric energy from one point to another in an electric power system. Lines are operated at relatively high voltages varying from 69 kV up to 765 kV, and are capable of transmitting large quantities of electricity over long distances. Underground transmission lines are included where sources were available. The following updates have been made since the previous release: 6,457 features added	7/8/2020
NATURAL INFRASTRUCTURE	Lake/Pond	Acres	184138.98		yes		LakePond_Intermit_Perenial	All Intermitent and Perenial lakes and ponds included	USGS, NHD Plus		2019
	Reservoir	Acres	57851.32349		yes		Reservoir_All		USGS, NHD Plus		2019
	Playa	Acres							USGS, NHD Plus		2019
	Riparian Area	Acres	13568.99		yes		Riparian_All		Utah AGRC, WRLU		
	Spring/Seep	Points	503		yes		Springs		USGS, NHD Plus		2019
	Stream/River	Miles	9535.199		yes		Streams_All	Perennial, intermittent, and Ephemeral Streams	USGS, NHD Plus		2019
	Wetland	Acres	2366429.911		yes		Wetlands	All Wetlands)exept those whose Type=Lake and Class=Unconsolidated bottom and Regime = Permanently flooded)	US Fish and Wildlife Service, NWI		2019
	Communication Towers	Points						Mobile, land, microwave, paging, FM, antenna, TV,	Homeland Infra. Foundation-Level Data (HIFLD)		

2021 Tooele County PDMP GIS Data Types and Information											
Data	TYPE	UNITS	Total	Value	Data?	Google Earth	Layer Names	Notes	Source	Discription	Year
	FM Transmision Towers	Points	6		yes	yes	HIFLC_FM_Transmission_Towers	HIFLD Data	HIFLD Data - https://hifld-geoplatform.opendata.arcgis.com/datasets/fm-transmission-towers	This dataset represents FM transmission tower locations as recorded by the Federal Communications Commission. Serve as base information for use in GIS systems for general planning, analytical, and research purposes. It is not intended for engineering work or to legally define FCC licensee data or FCC market boundaries. The material in these data and text files are provided as-is. The FCC disclaims all warranties with regard to the contents of these files, including their fitness. In no event shall the FCC be liable for any special, indirect, or consequential damages whatsoever resulting from loss or use, data or profits, whether in connection with the use or performance of the contents of these files, action of contract, negligence, or other action arising out of, or in connection with the use of the contents of these files. It is know that there are some errors in the licensing information - Latitude, Longitude and Ground Elevation data as well as frequency assignment data from which these files were generated.	9/17/2018
	Land Mobile Private Transmission Towers	Points	179		yes	yes	HIFLD_Land_Mobile_Private_Transmission_Towers	https://hifld-geoplatform.opendata.arcgis.com/datasets/land-mobile-private-transmission-towers	HIFLD Data	This layer serves as base information for use in GIS systems for general planning, analytical, and research purposes. It is not intended for engineering work or to legally define FCC licensee data or FCC market boundaries. The material in these data and text files are provided as-is. The FCC disclaims all warranties with regard to the contents of these files, including their fitness. In no event shall the FCC be liable for any special, indirect, or consequential damages whatsoever resulting from loss or use, data or profits, whether in connection with the use or performance of the contents of these files, action of contract, negligence, or other action arising out of, or in connection with the use of the contents of these files. It is known that there are some errors in the licensing information - Latitude, Longitude and Ground Elevation data as well as frequency assignment data from which these files were generated.	9/11/2018
	Cellular Towers	Points	14		yes	yes	HIFLD_Cellular_Towers	https://hifld-geoplatform.opendata.arcgis.com/datasets/cellular-towers	HIFLD Data	This feature class consists of cellular tower locations as recorded by the Federal Communications Commission, extracted from the FCC Universal Licensing System Database.	9/4/2019
	Land Mobile Broadcast Towers	Points	3		yes	yes	HIFLD_LandMobileBroadcastTowers	https://hifld-geoplatform.opendata.arcgis.com/datasets/land-mobile-broadcast-towers	HIFLD Data	This dataset represents the Land Mobile Broadcast tower locations as recorded by the Federal Communications Commission. Serve as base information for use in GIS systems for general planning, analytical, and research purposes. It is not intended for engineering work or to legally define FCC licensee data or FCC market boundaries. The material in these data and text files are provided as-is. The FCC disclaims all warranties with regard to the contents of these files, including their fitness. In no event shall the FCC be liable for any special, indirect, or consequential damages whatsoever resulting from loss or use, data or profits, whether in connection with the use or performance of the contents of these files, action of contract, negligence, or other action arising out of, or in connection with the use of the contents of these files. It is know that there are some errors in the licensing information - Latitude, Longitude and Ground Elevation data as well as frequency assignment data from which these files were generated.	9/11/2018

2021 Tooele County PDMP GIS Data Types and Information											
Data	TYPE	UNITS	Total	Value	Data?	Google Earth	Layer Names	Notes	Source	Discription	Year
OTHER INFRASTRUCTURE	Land Mobile Commer Trans Towers	Points	2		yes	yes	HIFLD_LandMobileCommerTransTowers	https://hifld-geoplatform.opendata.arcgis.com/datasets/land-mobile-commercial-transmission-towers	HIFLD Data	This serves as base information for use in GIS systems for general planning, analytical, and research purposes. It is not intended for engineering work or to legally define FCC licensee data or FCC market boundaries. The material in these data and text files are provided as-is. The FCC disclaims all warranties with regard to the contents of these files, including their fitness. In no event shall the FCC be liable for any special, indirect, or consequential damages whatsoever resulting from loss or use, data or profits, whether in connection with the use or performance of the contents of these files, action of contract, negligence, or other action arising out of, or in connection with the use of the contents of these files. It is know that there are some errors in the licensing information - Latitude, Longitude and Ground Elevation data as well as frequency assignment data from which these files were generated.	9/11/2018
	HIFLD_PagingTransTowers	Points	5		Yes	yes	HIFLD_PagingTransTowers	https://hifld-geoplatform.opendata.arcgis.com/datasets/paging-transmission-towers	HIFLD Data	This feature class serves as base information for use in GIS systems for general planning, analytical, and research purposes. It is not intended for engineering work or to legally define FCC licensee data or FCC market boundaries. The material in the data and text files, used to create this geodatabase, is provided as-is. The FCC disclaims all warranties with regard to the contents of these files, including their fitness. In no event shall the FCC be liable for any special, indirect, or consequential damages whatsoever resulting from loss or use, data or profits, whether in connection with the use or performance of the contents of these files, action of contract, negligence, or other action arising out of, or in connection with the use of the contents of these files. It is known that there are some errors in the licensing information - Latitude, Longitude and Ground Elevation data as well as frequency assignment data from which these files were generated. This dataset represents the paging transmission tower locations.	9/11/2018
	Antenna Structure Registrate	Points	26		yes	yes	HIFLD_AntennaStructureRegistrate	https://hifld-geoplatform.opendata.arcgis.com/datasets/antenna-structure-registrate	HIFLD Data	This file is an extract of the Antenna Structure Registrate (ASR). The ASR consists of antenna structures that are more than 60.96 meters (200 feet) in height or located near an airport.	9/10/2018
	TV_Digital Station Transmitters	Points	10		Yes	yes	HIFLD_TV_DigitalStationTransmitters	https://hifld-geoplatform.opendata.arcgis.com/datasets/tv-digital-station-transmitters	HIFLD Data	This dataset represents an extract from the Consolidated Database System (CDBS) licensed by the Media Bureau. It consists of Digital Television broadcasters, including noncommercial educational TV broadcast stations and, where indicated, low power TV and TV translator stations in the United States, its Territories and possessions. TV broadcast, low power TV, and TV translator stations are assigned channels 6 MHz wide (see Rule Part: 47 CFR Part 73 Rule Part, Subpart E - TV).	4/30/2018
	TV Analog Station Transmitters	Points	5		yes	yes	HIFLD_TV_AnalogStationTransmitters	https://hifld-geoplatform.opendata.arcgis.com/datasets/tv-analog-station-transmitters	HIFLD Data	This dataset represents the locations of television analog station transmitters.	4/30/2018
	Microwave Service Towers	Points	186		yes	yes	HIFLD_Microwave_Service_Towers		Homeland Infra. Foundation-Level Data (HIFLD)	Less	9/11/2018
	Gas Stations	Points	29		google earth	yes		Google Earth Search			10/26/2020

2021 Tooele County PDMP GIS Data Types and Information											
Data	TYPE	UNITS	Total	Value	Data?	Google Earth	Layer Names	Notes	Source	Discription	Year
	Sewer Pipeline	Miles/Value						Main lines only	Brigham City, Hyde Park, Hyrum, Nibley, North Logan, Logan, Perry, Smithfield, Richmond, and USU Logan Campus		
	Wastewater Facility	Points	2		yes	yes	GE_Wastewater_Facilities	Google Earth Search			
	Sewage Lagoons	Acres	199.01		yes	yes	WRLU_SewageLagoons	WRLU to areas	Utah AGRC/BRAG		
	Contaminated Land	Acres						Brownfield	Utah DEQ/DERR		
	Hazmat Material Storage	Points						Box Elder and Cache County data only	Cache County		
	Mines	Points						Mines, mine plants, prospector pits, gravel pits	USGS		
	Agricultural_Minerals_Operations	Points	2		yes	yes	HIFLD_Agricultural_Minerals_Operations				
	Crushed_Stone_Operations	Points	1		yes	yes	HIFLD_Crushed_Stone_Operations				
	Sand_and_Gravel_Operations	Points	2		yes	yes	HIFLD_Sand_and_Gravel_Operations				
	Construction_Minerals_Operations	Points	1		yes	yes	HIFLD_Construction_Minerals_Operations				
	Miscellaneous Ind Mine Ops	Points	3		yes	yes	HIFLD_MiscellaneousIndMinOps				
	Broadband Anchors	Points							AGRC		
	Solid Waste Facility	Points	6		Yes	yes	HIFLD_SolidWasteLandfillFacilities	HIFLD Data	HIFLD Data	During emergency response and recovery events, significant amounts of debris must be removed from impacted areas in order to facilitate access to these locations, begin the restoration process, and start the reconstruction of damaged and/or destroyed buildings in the impact zones. This dataset was developed in an attempt to locate Solid Waste facilities, to which debris can be directed. This layer was initiated, based on NAICS and SIC codes, by extracting landfills from the EPA Facility Registry System (FRS) contained in HSIP Gold 2012. This collection is being supplemented, edited, and amended by source data from individual states. Initial and previous collection efforts were limited to landfills that accept Municipal Solid Waste and/or Construction and Demolition Debris, but some of the features from the initial collection were found to have been misclassified; these have been adjusted accordingly (namely, a single C&D type versus Industrial waste facilities). All new solid waste features must be considered active facilities based on state source data or state permit at the time of release. Already-existing solid waste dataset features that have become inactive or closed since the initial release are noted as such. In this update 432 new facilities were added with the majority being Transfer Stations.	7/8/2020
	Airport/Heliport	Points	8		Yes	yes	AGRC_Airports & AGRC_Heliports	Airports and Heliports - https://gis.utah.gov/data/transportation/air/	FAA/AGRC/BRAG	Utah Airport Locations is a statewide point dataset that contains data from the Geographic Names Information System (GNIS). Attribute information include feature name, feature type, elevation, and USGS 24K scale quadrangle name in which the feature resides. Airport Locations consists of 111 point features that are categorized by feature type and are representative of airport locations found in the general GNIS dataset.	January 23, 2003

2021 Tooele County PDMP GIS Data Types and Information

Data	TYPE	UNITS	Total	Value	Data?	Google Earth	Layer Names	Notes	Source	Discription	Year
TRANSPORTATION INFRASTRUCTURE	Bridge/Culvert/Underpass	Points/Value							National Bridge Inventory (HIFLD)/Railroad Bridges (HIFLD)/UDOT/Box Elder County/Cache County		
	Bridge	Points	30		yes	yes	HIFLD_NBridgeInventroy		https://hifld-geoplatform.opendata.arcgis.com/datasets/national-bridge-inventory-nbi-bridges	The NBI is a collection of information (database) describing the more than 600,000 of the Nation's bridges located on public roads as of December 31, 2018, including Interstate Highways, U.S. highways, State and county roads, as well as publicly-accessible bridges on Federal lands. It presents a State by State summary analysis of the number, location, and general condition of highway bridges within each State. Bridges found to be located outside their respective state have been reassigned to coordinates 0, 0.	3/20/2020
	Railroad Bridges	Points	37		yes	yes	HIFLD_Railroad_Bridges		https://hifld-geoplatform.opendata.arcgis.com/datasets/railroad-bridges	ridges-Rail in the United States According to The National Bridge Inspection Standards published in the Code of Federal Regulations (23 CFR 650.3), a bridge is: A structure including supports erected over a depression or an obstruction, such as water, highway, or railway, and having a track or passageway for carrying traffic or other moving loads. Each bridge was captured as a point which was placed in the center of the "main span" (highest and longest span). For bridges that cross navigable waterways, this was typically the part of the bridge over the navigation channel. If no "main span" was discernable using the imagery sources available, or if multiple non contiguous main spans were discernable, the point was placed in the center of the overall structure.	4/30/2018
	Culvert Railroad Bridge	Points	0								
	Culvert Bridge	Points	4								
	Railroad	Miles/Value	312.8		Yes	yes	AGRC_Rail_Lines	https://gis.utah.gov/data/transportation/railroads/	AGRC	Utah Railroads portray the location of railroads in the state of Utah derived from the most recent high resolution imagery available, including 1 foot resolution color imagery, NAIP, 1 meter resolution imagery, and 1 meter USGS DOQs. The dataset has been updated to include cartographic attribution for fine scale representations and also a differentiation between light, heavy, transit, and electrified tracks.	July, 2017
	Emergency Outlet Roads	Miles						Paved, regional/inter-county connections	BRAG/UDOT		
	Road	Miles/Value	6048.31		Yes	yes	Roads	All roads	AGRC, Local Government partners	Transportation.Roads is a multi-purpose statewide roads dataset for cartography and range based-address location. This dataset is also used as the base geometry for deriving the GIS-representation of UDOT's highway linear referencing system (LRS). A network analysis dataset for route-finding can also be derived from this dataset.	9-Oct-20
WATER INFRASTRUCTURE	Canal	Miles	1114.46		yes	yes	Ditch_Connector_Path	Open and piped	Utah DWR		
	Culinary Water Pipeline	Miles/Value						Main lines only.Some community data provided	Local Communities/Counties		
	Culinary Water Source	Points						Wells and springs	Utah DEQ		
	Water Tank	Points						Cache County data only	Cache County		
	Dams	Points	18		Yes	yes	SGID_DamInventory_2	Dam Code… 200, 250, 260, 300, 360, 500, OR Rating = Mod, High	Utah SGID Dams All	The dam inventory gives the identification, location, construction parameters, and the operation and maintenance history of the dams in Utah. Inventory Page	10/27/2020
	Groundwater Recharge	Acres						Primary and Secondary	AGRC		
	Groundwater Protection and Transient NC Zones	Acres	202.53		yes	yes	GWPZone_1, GWPZone_2, GWPZone_3, GWPZone_4	All zones and transient non-community	Utah DEQ		

2021 Tooele County PDMP GIS Data Types and Information

Data	TYPE	UNITS	Total	Value	Data?	Google Earth	Layer Names	Notes	Source	Discription	Year
	Wells	Points	175		yes	yes	NHD_Wells				
	Well Logs	Points	5509		Yes		SGID_WellLogs	All included	Utah SGID	The WRPOD shapefile is a complete record of point of diversion locations taken from the Division's day to day operating database.	10/23/2020
	GIS DATA NOT INCLUDED	**JUSTIFICATION**									
	Rights-of-ways/Easements	Data is spotty or does not exist.									
	Mosquito abatement areas	Not really a natural hazard, and not really a critical facility.									
	Water pump storage system	No data.									
	Life flight locations	Already have hospitals/health care facility/fairgrounds/school locations.									
	Stock water lines/ponds/troughs	Can check - More of a private property issue, not directly local government.									
	Propane storage	No data									
	Solar farms	I'll check - Out of the scope of this project - unless community owned.									
	Hazards										
Earthquake	Occurrence										
	Earthquake Epicenters 1850 to 2016				yes		Earthquake Epicenters 1850 to 2016				
	Risk										
	Quarernary Faults				yes		Quarernary Faults				
	FaultHazardZone				yes		FaultHazardZone				
	WFH_Liquefaction				yes		WFH_Liquefaction				
Flood	FEMA Floodplain	acres			yes	yes	SGID_Floodplains				
	USU_Valley Bottom Study	acres			Yes	yes	Tooele_USU_Valley Bottom				
	Flood_Soils_Freq_Rare_Clip	acres			yes	yes	Flood_Soils_Freq_Rare_Clip				
	Great Salt Lake Flooding	acres			yes	yes	Great Salt Lake Flooding				
	SGID_DamInundation	acres			yes	yes	SGID_DamInundation				
Wildfire	Occurrence										
	Fire Perimiters_2018-2000	acres			yes		Fire Perimiters_2018-2000	Layers for 2000-2018	National Interagency Fire Center	https://data-nifc.opendata.arcgis.com/datasets/interagency-fire-perimeter-history-all-years	#######
	Risk										
	WHP_2018_GridRisk	Risk	1-5/Low-High		yes	yes	WHP_2018_GridRisk				
Landslide	Occurrence										#######
	Landslide_Point	Points	87		yes		Landslide_Point		https://usgs.maps.arcgis.com/home/item.html?id=b55cb063e4f240089986d6d437c1e926		#######

2021 Tooele County PDMP GIS Data Types and Information

Data	TYPE	UNITS	Total	Value	Data?	Google Earth	Layer Names	Notes	Source	Discription	Year
Lan	Landslide_Poly	total	98		yes		Landslide_Poly		https://usgs.maps.arcgis.com/home/item.html?id=b55cb063e4f240089986d6d437c1e926		
Avalanche											
Drought											
Erosion											
Hail											
Problem soils											
Radon											
Seiche											
Severe Weather											
Tornado	HIFLD_Hist_TornadoTracks	line			yes		HIFLD_Hist_TornadoTracks				
	Tornado_LD	acres			yes		Tornado_LD	Line Density on Historic paths. Output Cell Size 10 square kilometers. Search Radius 30000 square kilometers.			
Wildlife_Auto	Udot_TC_WildAuto	Points			yes		Udot_TC_WildAuto	Udot Crash Data. All Wildlife Collisions in the County.			
	Udot_WAuto_PD	acres			yes		Udot_WAuto_PD	Cell size 10 acres. Radius 200 acres			
	udot_wauto_kd	acres			yes		udot_wauto_kd	Cell Size 10 acres. Output cell values Densities. Method Planar.			
Alluvial Fans											
	Alluvial Fans	acres			yes		Alluvial Fans				
Debris Flow											
	WFH_DebrisFlow	Acres			yes		WFH_DebrisFlow	All Values High Medium and Low			

APPENDIX E: DETAILED GIS RISK ASSESSMENT METHODOLOGY

- Collected Critical Infrastructure Data
- Collected Data Categories
    - Point
    - Line
    - Area
    - Building Footprint
    - Parcels
    - Hazards
- Merged Critical Infrastructure Data Categories into a single layer
    - Used Merge operations
    - and by created new layers and aggregated features into new layer using paste special command (Hazards)
- Clipped all merged layers by Community and unincorporated county boundaries.
- For Each Community and Unincorporated area did Spatial Join with points, lines, areas, parcels and footprints (Target Feature) and the hazard feature layer (Join Feature) for the respective jurisdiction (Join Operation – One to Many; Match Option – Completely Within for points and intersect with line and areas data)
- Copied fields into MS Excel to analyze data by Hazard Type and Critical Infrastructure Category.
- Extracted values from MS Excel
- Critical facilities
- Residential and commercial structures. Current Market Value

APPENDIX F: HISTORICAL HAZARD EVENTS DATABASE

Tooele County Earthquake Epicenters from 1850 to 2016					
MAG	YEAR	MAG	YEAR	MAG	YEAR
4.0	1915	2.3	1991	1.4	2000
4.8	1915	2.3	1991	1.1	2001
3.3	1934	2.5	1991	1.7	2002
2.8	1963	2.7	1991	1.7	2002
2.4	1964	1.5	1992	1.9	2002
2.3	1965	1.5	1992	2.1	2002
1.4	1971	1.5	1992	2.1	2002
1.2	1975	1.5	1992	1.5	2003
1.2	1975	1.7	1992	1.5	2003
1.3	1975	2.1	1992	1.8	2003
1.7	1975	2.2	1992	1.9	2003
1.7	1975	2.4	1992	1.1	2004
1.1	1976	2.6	1992	1.7	2004
1.2	1976	1.3	1993	1.8	2004
1.3	1976	1.7	1993	1.9	2004
1.3	1976	1.7	1993	2.0	2004
1.4	1976	1.8	1993	2.3	2004
1.5	1976	1.9	1993	1.9	2005
1.5	1976	2.2	1993	1.5	2006
1.6	1976	2.6	1993	1.6	2006
1.5	1978	2.6	1993	1.7	2006
1.1	1979	1.1	1994	1.8	2006
2.0	1979	1.5	1994	2.7	2006
2.2	1979	1.6	1994	2.8	2006
2.1	1980	1.7	1994	1.9	2009
1.6	1981	1.7	1994	2.1	2009
2.0	1981	1.7	1994	2.9	2009
2.3	1982	1.8	1994	1.0	2011
2.5	1982	2.1	1994	1.4	2011
1.9	1983	2.2	1994	1.2	2012
2.0	1983	1.0	1995	1.2	2012
1.1	1984	1.4	1995	1.4	2012
1.5	1984	1.5	1995	1.4	2012
1.9	1984	1.7	1995	1.4	2012
1.1	1985	1.7	1995	1.4	2012
3.0	1985	1.8	1995	1.4	2012
1.7	1987	1.8	1995	1.4	2013
1.7	1988	1.9	1995	1.5	2013
2.1	1988	2.0	1995	1.5	2013
2.9	1988	2.1	1995	1.7	2013
2.4	1989	2.4	1995	1.7	2013
1.9	1990	2.9	1995	1.3	2014
1.9	1990	1.9	1996	1.6	2014
2.0	1990	2.0	1996	1.7	2014
2.3	1990	1.7	1997	1.7	2014
1.4	1991	2.0	1997	2.0	2014
1.5	1991	2.2	1997	2.7	2014
1.6	1991	3.0	1997	3.4	2014
1.7	1991	1.7	1998	2.2	2015
2.0	1991	1.6	1999	1.2	2016
2.0	1991	1.8	1999	2.2	2016
2.1	1991	2.3	1999		
2.2	1991	1.1	2000		

Data courtesy or the Utah Geological Survey, UGS Map 277.

Tooele County 2021 PDMP - Significant Hazard Events Since 2016

FIRES

- Middle Canyon Wildland Fire July 2018
- Cedar Mountain Fire July 2018
- Green Ravine Wildland Fire August 2019
- Stansbury Island Fire May 2020
- Puddle Valley Fire May 2021

FLOODS

- Tooele County Flooding August 2021

EARTHQUAKE

- Utah 5.7 Earthquake March 2020

NOAA SEVERE WEATHER DATABASE - TOOELE COUNTY (1961-2015)					
BEGIN_LOCATION	BEGIN_DATE	EVENT_TYPE	MAGNITUDE	DEATHS_DIRECT	DAMAGE_PROPERTY_NUM
	8/9/1961	Thunderstorm Wind	51	0	0
	6/25/1965	Tornado	0	0	0
	8/9/1965	Tornado	0	0	0
	9/11/1966	Thunderstorm Wind	57	0	0
	7/8/1967	Thunderstorm Wind	59	0	0
	5/5/1968	Thunderstorm Wind	0	0	0
	5/5/1968	Thunderstorm Wind	62	0	0
	5/22/1968	Tornado	0	0	0
	1/4/1975	Thunderstorm Wind	0	0	0
	7/8/1982	Thunderstorm Wind	52	0	0
	9/3/1983	Thunderstorm Wind	0	0	0
	4/17/1984	Thunderstorm Wind	67	0	0
	6/18/1984	Thunderstorm Wind	50	0	0
	7/7/1985	Thunderstorm Wind	52	0	0
	7/16/1985	Thunderstorm Wind	51	0	0
	8/27/1985	Thunderstorm Wind	63	0	0
	9/4/1985	Thunderstorm Wind	56	0	0
	7/26/1986	Thunderstorm Wind	52	0	0
	8/20/1987	Thunderstorm Wind	51	0	0
	6/25/1988	Thunderstorm Wind	50	0	0
	7/27/1988	Thunderstorm Wind	50	0	0
	8/17/1989	Thunderstorm Wind	57	0	0
	7/2/1990	Thunderstorm Wind	0	0	0
	8/11/1990	Thunderstorm Wind	51	0	0
	7/25/1991	Tornado	0	0	2500
	4/21/1992	Thunderstorm Wind	53	0	0
	4/21/1992	Thunderstorm Wind	52	0	0
	6/14/1992	Thunderstorm Wind	61	0	0
	6/14/1992	Thunderstorm Wind	68	0	0
	6/14/1992	Thunderstorm Wind	64	0	0
	9/23/1992	Thunderstorm Wind	58	0	0
	9/23/1992	Thunderstorm Wind	58	0	0

NOAA SEVERE WEATHER DATABASE - TOOELE COUNTY (1961-2015)					
BEGIN_LOCATION	BEGIN_DATE	EVENT_TYPE	MAGNITUDE	DEATHS_DIRECT	DAMAGE_PROPERTY_NUM
	9/23/1992	Thunderstorm Wind	58	0	0
	9/23/1992	Thunderstorm Wind	76	0	0
	9/23/1992	Thunderstorm Wind	70	0	0
Wendover	5/3/1993	Thunderstorm Wind	50	0	0
Stansbury Park	5/3/1993	Thunderstorm Wind	60	0	0
Erda	5/3/1993	Tornado	0	0	500000
Wendover	4/23/1994	Thunderstorm Wind	59	0	500
Tooele	5/31/1994	Thunderstorm Wind	70	0	500000
Grantsville	7/5/1994	Thunderstorm Wind	53	0	0
Wendover	7/23/1994	Thunderstorm Wind	0	0	0
Wendover	6/5/1995	Thunderstorm Wind	56	0	0
Tooele	8/23/1995	Thunderstorm Wind	62	0	0
DUGWAY RANGE	7/16/1996	Thunderstorm Wind	59	0	0
	10/24/1996	Winter Storm		0	1000000
	12/1/1996	Winter Storm		0	0
	12/1/1996	Winter Storm		0	1000000
	3/31/1997	Winter Storm	50	0	0
	3/31/1997	Winter Storm	70	1	2000000
	4/23/1997	Winter Storm	50	0	0
	4/23/1997	Winter Storm	52	0	0
(DPG)MICHAEL AAF DUG	7/9/1997	Thunderstorm Wind	55	0	0
(DPG)MICHAEL AAF DUG	8/12/1997	Thunderstorm Wind	57	0	0
	10/10/1997	Winter Storm		0	0
	10/23/1997	Winter Storm		0	0
	12/7/1997	Winter Storm		0	0
	12/7/1997	Winter Storm		0	0
	12/23/1997	Winter Storm		0	0
	12/23/1997	Winter Storm		0	0
	1/4/1998	Winter Storm		0	0
	1/4/1998	Winter Storm		0	0
	1/11/1998	Winter Storm		0	0
	1/19/1998	Winter Storm		0	0

NOAA SEVERE WEATHER DATABASE - TOOELE COUNTY (1961-2015)					
BEGIN_LOCATION	BEGIN_DATE	EVENT_TYPE	MAGNITUDE	DEATHS_DIRECT	DAMAGE_PROPERTY_NUM
	2/21/1998	Winter Storm		0	0
	2/21/1998	Winter Storm		0	0
	3/3/1998	Winter Storm		0	5000
	3/5/1998	Winter Storm		0	0
	3/5/1998	Winter Storm		0	0
	3/17/1998	Winter Storm		0	0
VERNON	3/24/1998	Thunderstorm Wind	72	0	0
	4/12/1998	Winter Storm		0	0
DELLE	5/16/1998	Thunderstorm Wind	50	0	0
DELLE	7/10/1998	Thunderstorm Wind	62	0	0
WENDOVER	7/19/1998	Thunderstorm Wind	61	0	4000
(DPG)MICHAEL AAF DUG	8/25/1998	Thunderstorm Wind	52	0	1000
DUGWAY	9/9/1998	Thunderstorm Wind	54	0	0
	11/5/1998	Winter Storm		0	10000
	11/5/1998	Winter Storm		0	10000
	11/8/1998	Winter Storm		0	0
	11/8/1998	Winter Storm		0	0
	11/17/1998	Winter Storm		0	0
	11/17/1998	Winter Storm		0	0
	12/4/1998	Winter Storm		0	0
	12/19/1998	Winter Storm		0	0
	12/19/1998	Winter Storm		0	0
	12/19/1998	Winter Storm		0	0
	12/31/1998	Winter Storm		0	0
	1/20/1999	Winter Storm		0	10000
	1/26/1999	Winter Storm		0	0
	4/1/1999	Winter Storm		0	0
	4/1/1999	Winter Storm		0	100000
	4/7/1999	Winter Storm		0	0
	4/8/1999	Winter Storm		0	0
	4/8/1999	Winter Storm		0	0
COUNTYWIDE	8/2/1999	Thunderstorm Wind		0	0

NOAA SEVERE WEATHER DATABASE - TOOELE COUNTY (1961-2015)					
BEGIN_LOCATION	BEGIN_DATE	EVENT_TYPE	MAGNITUDE	DEATHS_DIRECT	DAMAGE_PROPERTY_NUM
(ENV)WENDOVER ARPT	8/27/1999	Thunderstorm Wind		0	0
CENTRAL PORTION	8/30/1999	Thunderstorm Wind		0	0
	1/1/2000	Winter Storm		0	20000
WENDOVER	8/4/2000	Thunderstorm Wind		0	0
CENTRAL PORTION	8/23/2000	Lightning		2	0
WENDOVER	9/1/2000	Thunderstorm Wind		0	0
WENDOVER ARPT	6/1/2001	Thunderstorm Wind	50	0	0
COUNTYWIDE	6/12/2001	Thunderstorm Wind	68	0	200000
CENTRAL PORTION	8/20/2001	Thunderstorm Wind	56	0	0
VERNON	8/21/2001	Thunderstorm Wind	61	0	0
VERNON	9/12/2001	Thunderstorm Wind	52	0	0
	11/22/2001	Winter Storm		0	400000
	11/24/2001	Winter Storm		0	200000
	11/29/2001	Winter Storm		0	10000
	12/2/2001	Winter Storm		0	50000
	1/27/2002	Winter Storm		0	500000
	2/8/2002	Winter Storm		0	0
	3/7/2002	Winter Storm		2	140000
	3/13/2002	Winter Storm		0	0
CENTRAL PORTION	3/23/2002	Thunderstorm Wind	53	0	0
VERNON	6/1/2002	Thunderstorm Wind	74	0	0
TOOELE	6/2/2002	Thunderstorm Wind	59	0	0
ST JOHN STATION	7/25/2002	Thunderstorm Wind	56	0	0
VERNON	7/25/2002	Thunderstorm Wind	56	0	0
DUGWAY	8/2/2002	Thunderstorm Wind	64	0	0
TOOELE	9/6/2002	Thunderstorm Wind		0	2000
CLIVE	9/16/2002	Thunderstorm Wind	63	0	0
	12/16/2002	Winter Storm		0	0
	12/16/2002	Winter Storm		0	0
	12/29/2002	Winter Storm		0	0
	12/29/2002	Winter Storm		0	100000
	2/2/2003	Winter Storm		0	0

NOAA SEVERE WEATHER DATABASE - TOOELE COUNTY (1961-2015)					
BEGIN_LOCATION	BEGIN_DATE	EVENT_TYPE	MAGNITUDE	DEATHS_DIRECT	DAMAGE_PROPERTY_NUM
	2/4/2003	Winter Storm		0	0
	3/1/2003	Winter Storm		0	0
	3/1/2003	Winter Storm		0	0
	3/4/2003	Winter Storm		0	0
DUGWAY	5/24/2003	Thunderstorm Wind	51	0	0
WENDOVER ARPT	5/29/2003	Thunderstorm Wind	55	0	0
DUGWAY	7/23/2003	Thunderstorm Wind	51	0	0
COUNTYWIDE	8/22/2003	Thunderstorm Wind	63	0	100000
	11/21/2003	Winter Storm		0	200000
	12/25/2003	Winter Storm		0	500000
	12/28/2003	Winter Storm		0	100000
	1/1/2004	Winter Storm		0	0
	4/28/2004	Strong Wind	44	0	1500
	7/9/2004	Strong Wind	44	0	15000
DUGWAY	8/1/2004	Thunderstorm Wind	70	0	0
DUGWAY	8/2/2004	Thunderstorm Wind	63	0	12000
	1/8/2005	Strong Wind	72	0	1000
	1/27/2005	Ice Storm		0	0
	3/24/2005	Winter Storm		1	0
	4/18/2005	Winter Storm		0	0
ERDA	5/5/2005	Thunderstorm Wind	61	0	0
(T62)TOOELE	5/16/2005	Thunderstorm Wind	65	0	3000
(DPG)MICHAEL AAF DUG	5/16/2005	Thunderstorm Wind	66	0	0
(ENV)WENDOVER ARPT	5/16/2005	Thunderstorm Wind	66	0	0
(ENV)WENDOVER ARPT	5/16/2005	Thunderstorm Wind	65	0	0
KNOLLS	6/17/2005	Thunderstorm Wind	60	0	0
KNOLLS	6/25/2005	Thunderstorm Wind	60	0	0
DUGWAY	7/2/2005	Thunderstorm Wind	63	0	0
CLIVE	7/2/2005	Thunderstorm Wind	61	0	0
KNOLLS	7/2/2005	Thunderstorm Wind	63	0	0
DUGWAY	7/2/2005	Thunderstorm Wind	66	0	0
(DPG)MICHAEL AAF DUG	7/29/2005	Thunderstorm Wind	69	0	0

NOAA SEVERE WEATHER DATABASE - TOOELE COUNTY (1961-2015)					
BEGIN_LOCATION	BEGIN_DATE	EVENT_TYPE	MAGNITUDE	DEATHS_DIRECT	DAMAGE_PROPERTY_NUM
DUGWAY	7/29/2005	Thunderstorm Wind	69	0	0
(DPG)MICHAEL AAF DUG	12/31/2005	Thunderstorm Wind	62	0	0
CLIVE	12/31/2005	Thunderstorm Wind	70	0	0
DUGWAY	12/31/2005	Thunderstorm Wind	60	0	0
DUGWAY MCHL AAF	12/31/2005	Thunderstorm Wind	63	0	0
(ENV)WENDOVER ARPT	6/7/2006	Thunderstorm Wind	58	0	0
(ENV)WENDOVER ARPT	6/7/2006	Thunderstorm Wind	59	0	0
STOCKTON	6/7/2006	Thunderstorm Wind	68	0	0
(T62)TOOELE	6/7/2006	Thunderstorm Wind	65	0	0
TOOELE	6/7/2006	Thunderstorm Wind	65	0	0
(ENV)WENDOVER ARPT	6/9/2006	Thunderstorm Wind	65	0	10000
(ENV)WENDOVER ARPT	7/5/2006	Thunderstorm Wind	58	0	0
KNOLLS	7/5/2006	Thunderstorm Wind	60	0	0
(DPG)MICHAEL AAF DUG	7/18/2006	Thunderstorm Wind	61	0	0
(DPG)MICHAEL AAF DUG	8/7/2006	Thunderstorm Wind	62	0	0
WENDOVER AF AUX ARPT	6/16/2007	Thunderstorm Wind	61	0	0
BARRO	6/16/2007	Thunderstorm Wind	63	0	0
BURMESTER	7/7/2007	Thunderstorm Wind	55	0	0
CLIVE	7/17/2007	Thunderstorm Wind	51	0	0
ARINOSA	7/26/2007	Thunderstorm Wind	67	0	0
(DPG)MICHAEL AAF DUG	9/4/2007	Thunderstorm Wind	58	0	0
BURMESTER	9/4/2007	Thunderstorm Wind	51	0	2000
BARRO	10/20/2007	Thunderstorm Wind	53	0	0
BARRO	10/20/2007	Thunderstorm Wind	54	0	0
	1/28/2008	Winter Storm		0	0
	1/29/2008	Winter Storm		0	0
	2/3/2008	Winter Storm		0	0
	2/13/2008	Winter Storm		0	0
	2/13/2008	Winter Storm		0	0
(DPG)MICHAEL AAF DUG	5/7/2008	Thunderstorm Wind	52	0	0
(DPG)MICHAEL AAF DUG	6/22/2008	Thunderstorm Wind	53	0	0
WENDOVER AF AUX ARPT	6/22/2008	Thunderstorm Wind	65	0	0

NOAA SEVERE WEATHER DATABASE - TOOELE COUNTY (1961-2015)					
BEGIN_LOCATION	BEGIN_DATE	EVENT_TYPE	MAGNITUDE	DEATHS_DIRECT	DAMAGE_PROPERTY_NUM
GOLD HILL	6/22/2008	Thunderstorm Wind	55	0	0
(DPG)MICHAEL AAF DUG	7/20/2008	Thunderstorm Wind	53	0	0
(DPG)MICHAEL AAF DUG	7/27/2008	Thunderstorm Wind	56	0	0
WENDOVER AF AUX ARPT	8/31/2008	Thunderstorm Wind	56	0	0
(DPG)MICHAEL AAF DUG	8/31/2008	Thunderstorm Wind	53	0	0
GOLD HILL	8/31/2008	Thunderstorm Wind	58	0	0
	11/5/2008	Lake-Effect Snow		0	0
	11/5/2008	Lake-Effect Snow		0	0
	12/13/2008	Winter Storm		0	0
	12/13/2008	Winter Storm		0	0
	12/19/2008	Winter Storm		0	0
	12/24/2008	Winter Storm		0	0
	12/25/2008	Winter Storm		0	0
TIMPIE	5/3/2009	Thunderstorm Wind	54	0	0
(DPG)MICHAEL AAF DUG	6/2/2009	Thunderstorm Wind	60	0	0
(DPG)MICHAEL AAF DUG	6/25/2009	Thunderstorm Wind	69	0	0
GOLD HILL	6/30/2009	Thunderstorm Wind	58	0	0
(DPG)MICHAEL AAF DUG	6/30/2009	Thunderstorm Wind	58	0	0
PEHRSON STATION	7/1/2009	Thunderstorm Wind	55	0	0
GOLD HILL	7/11/2009	Thunderstorm Wind	52	0	0
PEHRSON STATION	7/18/2009	Thunderstorm Wind	66	0	0
WENDOVER AF AUX ARPT	7/25/2009	Thunderstorm Wind	54	0	0
(DPG)MICHAEL AAF DUG	8/5/2009	Thunderstorm Wind	68	0	0
DUGWAY	8/5/2009	Thunderstorm Wind	52	0	0
GOLD HILL	8/5/2009	Thunderstorm Wind	56	0	0
BARRO	8/13/2009	Thunderstorm Wind	52	0	0
WENDOVER AF AUX ARPT	9/14/2009	Thunderstorm Wind	52	0	0
DUGWAY	9/14/2009	Thunderstorm Wind	51	0	0
PEHRSON STATION	9/14/2009	Thunderstorm Wind	56	0	0
BURMESTER	9/14/2009	Thunderstorm Wind	50	0	10000
DELLE	9/14/2009	Thunderstorm Wind	50	0	10000
(DPG)MICHAEL AAF DUG	9/14/2009	Thunderstorm Wind	67	0	0

NOAA SEVERE WEATHER DATABASE - TOOELE COUNTY (1961-2015)					
BEGIN_LOCATION	BEGIN_DATE	EVENT_TYPE	MAGNITUDE	DEATHS_DIRECT	DAMAGE_PROPERTY_NUM
(DPG)MICHAEL AAF DUG	9/14/2009	Thunderstorm Wind	53	0	0
(DPG)MICHAEL AAF DUG	9/14/2009	Thunderstorm Wind	52	0	0
(DPG)MICHAEL AAF DUG	9/14/2009	Thunderstorm Wind	57	0	0
DUGWAY	9/14/2009	Thunderstorm Wind	52	0	0
	12/7/2009	Winter Storm		0	0
	12/12/2009	Winter Storm		0	0
	1/18/2010	Winter Storm		0	0
	3/13/2010	Winter Storm		0	0
	3/31/2010	Winter Storm		0	0
	4/1/2010	Winter Storm		0	0
PEHRSON STATION	7/27/2010	Thunderstorm Wind	55	0	0
BARRO	7/30/2010	Thunderstorm Wind	51	0	0
(DPG)MICHAEL AAF DUG	8/5/2010	Thunderstorm Wind	59	0	0
DUGWAY	8/18/2010	Thunderstorm Wind	51	0	0
(DPG)MICHAEL AAF DUG	8/18/2010	Thunderstorm Wind	52	0	0
STOCKTON	8/22/2010	Thunderstorm Wind	50	0	0
(DPG)MICHAEL AAF DUG	9/7/2010	Thunderstorm Wind	52	0	0
CLIVE	9/14/2010	Thunderstorm Wind	58	0	0
LAKE PT	9/14/2010	Thunderstorm Wind	60	0	0
	9/19/2010	Wildfire		0	5000000
BAUER	10/6/2010	Thunderstorm Wind	50	0	0
	11/20/2010	Winter Storm		0	0
	11/23/2010	Winter Storm		0	0
	11/28/2010	Winter Storm		0	0
	12/28/2010	Winter Storm		0	0
	12/29/2010	Winter Storm		0	0
	12/30/2010	Lake-Effect Snow		0	0
ERDA	2/16/2011	Thunderstorm Wind	50	0	3000
	2/16/2011	Winter Storm		0	0
	2/25/2011	Winter Storm		0	0
	2/25/2011	Winter Storm		0	0
	3/7/2011	Winter Storm		0	0

NOAA SEVERE WEATHER DATABASE - TOOELE COUNTY (1961-2015)					
BEGIN_LOCATION	BEGIN_DATE	EVENT_TYPE	MAGNITUDE	DEATHS_DIRECT	DAMAGE_PROPERTY_NUM
	4/3/2011	Winter Storm		0	0
	4/7/2011	Winter Storm		0	0
WENDOVER AF AUX ARPT	4/21/2011	Thunderstorm Wind	62	0	0
(DPG)MICHAEL AAF DUG	4/21/2011	Thunderstorm Wind	51	0	0
(DPG)MICHAEL AAF DUG	4/21/2011	Thunderstorm Wind	68	0	0
LAKE PT	4/21/2011	Thunderstorm Wind	50	0	0
(DPG)MICHAEL AAF DUG	4/21/2011	Thunderstorm Wind	54	0	0
PEHRSON STATION	4/21/2011	Thunderstorm Wind	72	0	0
ELLERBECK	4/25/2011	Lightning		0	50000
BARRO	5/13/2011	Thunderstorm Wind	52	0	0
(DPG)MICHAEL AAF DUG	5/22/2011	Thunderstorm Wind	53	0	0
(DPG)MICHAEL AAF DUG	5/22/2011	Thunderstorm Wind	57	0	0
LAKE PT	6/29/2011	Thunderstorm Wind	57	0	0
GOLD HILL	7/7/2011	Thunderstorm Wind	56	0	0
GOLD HILL	7/9/2011	Thunderstorm Wind	53	0	0
(DPG)MICHAEL AAF DUG	7/9/2011	Thunderstorm Wind	50	0	0
KNOLLS	7/9/2011	Thunderstorm Wind	51	0	0
GOLD HILL	8/2/2011	Thunderstorm Wind	54	0	0
ARINOSA	8/2/2011	Thunderstorm Wind	51	0	0
BARRO	8/2/2011	Thunderstorm Wind	50	0	0
BARRO	8/14/2011	Thunderstorm Wind	50	0	0
(DPG)MICHAEL AAF DUG	8/14/2011	Thunderstorm Wind	59	0	0
ARINOSA	8/14/2011	Thunderstorm Wind	50	0	0
WENDOVER AF AUX ARPT	8/28/2011	Thunderstorm Wind	54	0	0
GOLD HILL	8/28/2011	Thunderstorm Wind	54	0	0
(DPG)MICHAEL AAF DUG	8/28/2011	Thunderstorm Wind	52	0	0
(DPG)MICHAEL AAF DUG	8/30/2011	Thunderstorm Wind	57	0	0
LAKE PT	9/10/2011	Thunderstorm Wind	55	0	0
	11/4/2011	Winter Storm		0	0
	2/29/2012	Winter Storm		0	0
	3/1/2012	Winter Storm		0	0
	3/6/2012	Winter Storm		0	0

NOAA SEVERE WEATHER DATABASE - TOOELE COUNTY (1961-2015)					
BEGIN_LOCATION	BEGIN_DATE	EVENT_TYPE	MAGNITUDE	DEATHS_DIRECT	DAMAGE_PROPERTY_NUM
GOLD HILL	5/15/2012	Thunderstorm Wind	53	0	0
GOLD HILL	5/15/2012	Thunderstorm Wind	65	0	0
GOLD HILL	5/15/2012	Thunderstorm Wind	56	0	0
(DPG)MICHAEL AAF DUG	5/17/2012	Thunderstorm Wind	52	0	0
	6/23/2012	Wildfire		0	35000
	6/23/2012	Wildfire		0	400000
	6/29/2012	Wildfire		0	0
	7/1/2012	Wildfire		0	3000000
(DPG)MICHAEL AAF DUG	7/12/2012	Thunderstorm Wind	56	0	0
STOCKTON	7/13/2012	Thunderstorm Wind	56	0	0
(DPG)MICHAEL AAF DUG	7/26/2012	Thunderstorm Wind	55	0	0
(DPG)MICHAEL AAF DUG	8/30/2012	Thunderstorm Wind	51	0	0
WENDOVER AF AUX ARPT	8/31/2012	Thunderstorm Wind	63	0	0
BARRO	9/1/2012	Thunderstorm Wind	54	0	0
	10/25/2012	Winter Weather		0	10000
	11/9/2012	Winter Storm		0	100000
	12/16/2012	Winter Storm		0	0
	1/10/2013	Winter Storm		0	1000
	1/10/2013	Winter Storm		0	0
	1/24/2013	Ice Storm		0	0
	1/27/2013	Winter Storm		0	0
	1/27/2013	Winter Storm		0	0
	2/23/2013	Winter Storm		0	0
	2/23/2013	Winter Storm		0	0
	3/22/2013	Lake-Effect Snow		0	0
GOLD HILL	5/15/2013	Thunderstorm Wind	53	0	0
ARINOSA	5/15/2013	Thunderstorm Wind	55	0	0
ARINOSA	6/9/2013	Thunderstorm Wind	58	0	0
CLIVE	6/12/2013	Thunderstorm Wind	59	0	0
WENDOVER AF AUX ARPT	6/12/2013	Thunderstorm Wind	55	0	0
WENDOVER AF AUX ARPT	6/12/2013	Thunderstorm Wind	58	0	0
(DPG)MICHAEL AAF DUG	6/24/2013	Thunderstorm Wind	52	0	0

NOAA SEVERE WEATHER DATABASE - TOOELE COUNTY (1961-2015)					
BEGIN_LOCATION	BEGIN_DATE	EVENT_TYPE	MAGNITUDE	DEATHS_DIRECT	DAMAGE_PROPERTY_NUM
(DPG)MICHAEL AAF DUG	6/29/2013	Thunderstorm Wind	51	0	0
(ENV)WENDOVER ARPT	7/4/2013	Thunderstorm Wind	56	0	0
(DPG)MICHAEL AAF DUG	7/4/2013	Thunderstorm Wind	56	0	0
(DPG)MICHAEL AAF DUG	7/5/2013	Thunderstorm Wind	56	0	0
(DPG)MICHAEL AAF DUG	7/6/2013	Thunderstorm Wind	56	0	0
BARRO	7/7/2013	Thunderstorm Wind	57	0	0
WENDOVER	7/16/2013	Thunderstorm Wind	50	0	0
KNOLLS	7/28/2013	Thunderstorm Wind	53	0	0
	8/10/2013	Wildfire		0	350000
GOLD HILL	8/24/2013	Thunderstorm Wind	56	0	0
KNOLLS	8/24/2013	Thunderstorm Wind	56	0	0
WENDOVER AF AUX ARPT	8/28/2013	Thunderstorm Wind	69	0	0
WENDOVER AF AUX ARPT	8/29/2013	Thunderstorm Wind	66	0	0
WENDOVER AF AUX ARPT	9/3/2013	Thunderstorm Wind	53	0	0
(DPG)MICHAEL AAF DUG	9/6/2013	Thunderstorm Wind	56	0	0
	12/2/2013	Winter Storm		0	0
	12/7/2013	Winter Storm		0	0
	12/19/2013	Winter Storm		0	40000
	12/19/2013	Winter Storm		0	0
VERNON MUNI ARPT	4/13/2014	Thunderstorm Wind	52	0	0
(DPG)MICHAEL AAF DUG	6/10/2014	Thunderstorm Wind	63	0	0
(DPG)MICHAEL AAF DUG	6/10/2014	Thunderstorm Wind	67	0	0
(DPG)MICHAEL AAF DUG	6/10/2014	Thunderstorm Wind	53	0	0
BARRO	6/12/2014	Thunderstorm Wind	52	0	0
ARINOSA	6/12/2014	Thunderstorm Wind	52	0	10000
WARNER	6/12/2014	Thunderstorm Wind	53	0	0
(ENV)WENDOVER ARPT	6/25/2014	Thunderstorm Wind	59	0	0
BARRO	6/25/2014	Thunderstorm Wind	59	0	0
GOLD HILL	7/3/2014	Thunderstorm Wind	55	0	0
GOLD HILL	7/3/2014	Thunderstorm Wind	51	0	0
ARINOSA	7/3/2014	Thunderstorm Wind	52	0	0
(DPG)MICHAEL AAF DUG	7/3/2014	Thunderstorm Wind	52	0	0

NOAA SEVERE WEATHER DATABASE - TOOELE COUNTY (1961-2015)					
BEGIN_LOCATION	BEGIN_DATE	EVENT_TYPE	MAGNITUDE	DEATHS_DIRECT	DAMAGE_PROPERTY_NUM
ARINOSA	7/3/2014	Thunderstorm Wind	55	0	0
GOLD HILL	7/3/2014	Thunderstorm Wind	54	0	0
CLIVE	7/14/2014	Thunderstorm Wind	51	0	0
LOW	7/14/2014	Thunderstorm Wind	52	0	0
(DPG)MICHAEL AAF DUG	7/14/2014	Thunderstorm Wind	51	0	0
LOW	7/14/2014	Thunderstorm Wind	55	0	0
(DPG)MICHAEL AAF DUG	8/12/2014	Thunderstorm Wind	54	0	0
(DPG)MICHAEL AAF DUG	8/12/2014	Thunderstorm Wind	51	0	0
(DPG)MICHAEL AAF DUG	8/23/2014	Thunderstorm Wind	58	0	0
GOLD HILL	9/26/2014	Thunderstorm Wind	58	0	0
ARINOSA	9/26/2014	Thunderstorm Wind	63	0	0
WENDOVER AF AUX ARPT	9/26/2014	Thunderstorm Wind	59	0	0
WENDOVER AF AUX ARPT	9/26/2014	Thunderstorm Wind	53	0	0
GOLD HILL	9/26/2014	Thunderstorm Wind	64	0	0
	12/25/2014	Winter Storm		0	0
	3/2/2015	Winter Storm		0	0
	3/31/2015	Wildfire		0	20000
	4/14/2015	Wildfire		0	50000
	4/14/2015	Winter Storm		0	0
CLIVE	5/7/2015	Thunderstorm Wind	53	0	0
(DPG)MICHAEL AAF DUG	5/14/2015	Thunderstorm Wind	53	0	0
GOLD HILL	5/20/2015	Thunderstorm Wind	53	0	0
SALDURO	6/1/2015	Thunderstorm Wind	52	0	0
BARRO	6/1/2015	Thunderstorm Wind	57	0	0
ARINOSA	6/3/2015	Thunderstorm Wind	52	0	0
GOLD HILL	6/15/2015	Thunderstorm Wind	60	0	0
(DPG)MICHAEL AAF DUG	7/4/2015	Thunderstorm Wind	62	0	0
ELLERBECK	7/4/2015	Thunderstorm Wind	60	0	0
(DPG)MICHAEL AAF DUG	7/8/2015	Thunderstorm Wind	63	0	0
(ENV)WENDOVER ARPT	7/8/2015	Thunderstorm Wind	67	0	0
BARRO	7/17/2015	Thunderstorm Wind	63	0	0
KNOLLS	7/24/2015	Thunderstorm Wind	50	0	0

NOAA SEVERE WEATHER DATABASE - TOOELE COUNTY (1961-2015)					
BEGIN_LOCATION	BEGIN_DATE	EVENT_TYPE	MAGNITUDE	DEATHS_DIRECT	DAMAGE_PROPERTY_NUM
(ENV)WENDOVER ARPT	8/7/2015	Thunderstorm Wind	69	0	0
ARINOSA	8/7/2015	Thunderstorm Wind	59	0	0
GOLD HILL	8/7/2015	Thunderstorm Wind	53	0	0
BARRO	8/7/2015	Thunderstorm Wind	60	0	0
(DPG)MICHAEL AAF DUG	8/7/2015	Thunderstorm Wind	51	0	0
(DPG)MICHAEL AAF DUG	8/7/2015	Thunderstorm Wind	56	0	0
DOLOMITE	8/7/2015	Thunderstorm Wind	56	0	0
LAKE PT	8/7/2015	Thunderstorm Wind	66	0	0
(DPG)MICHAEL AAF DUG	8/11/2015	Thunderstorm Wind	51	0	0

Data Source: NOAA Storm Events Database, 2021: https://www.ncdc.noaa.gov/stormevents

NOAA SEVERE WEATHER DATABASE - TOOELE COUNTY (2015-2021)

CZ_NAME_STR	BEGIN_LOCATION	BEGIN_DATE	EVENT_TYPE	DEATHS_DIRECT	INJURIES_DIRECT	DAMAGE_PROPERTY_NUM	DAMAGE_CROPS_NUM	INJURIES_INDIRECT	DEATHS_INDIRECT
SALT LAKE AND TOOELE VALLEYS (ZONE)		2/23/2015	High Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		3/2/2015	Winter Storm	0	0	0	0	13	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		3/23/2015	High Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		3/31/2015	Wildfire	0	0	20000	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		4/14/2015	High Wind	1	25	150000	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		4/14/2015	High Wind	0	0	150000	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		4/14/2015	Wildfire	0	0	50000	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		4/14/2015	Winter Storm	0	0	0	0	18	1
TOOELE CO.	CLIVE	5/7/2015	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	5/14/2015	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	GOLD HILL	5/20/2015	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	SALDURO	6/1/2015	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	BARRO	6/1/2015	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	ARINOSA	6/3/2015	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	ST JOHN	6/3/2015	Debris Flow	0	0	0	0	0	0
TOOELE CO.	ST JOHN	6/11/2015	Debris Flow	0	0	0	0	0	0
TOOELE CO.	GOLD HILL	6/15/2015	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	7/4/2015	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	ELLERBECK	7/4/2015	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	7/8/2015	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(ENV)WENDOVER ARPT	7/8/2015	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	DUGWAY	7/8/2015	Debris Flow	0	0	0	0	0	0
TOOELE CO.	BARRO	7/17/2015	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	KNOLLS	7/24/2015	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(ENV)WENDOVER ARPT	8/7/2015	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	ARINOSA	8/7/2015	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	GOLD HILL	8/7/2015	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	BARRO	8/7/2015	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	8/7/2015	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	8/7/2015	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	DOLOMITE	8/7/2015	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	LAKE PT	8/7/2015	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	8/11/2015	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	ST JOHN	9/15/2015	Flash Flood	0	0	0	0	0	0
TOOELE CO.	GOLD HILL	10/1/2015	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	GOLD HILL	10/1/2015	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	GOLD HILL	10/1/2015	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	ARINOSA	10/1/2015	Thunderstorm Wind	0	0	0	0	0	0

NOAA SEVERE WEATHER DATABASE - TOOELE COUNTY (2015-2021)									
CZ_NAME_STR	BEGIN_LOCATION	BEGIN_DATE	EVENT_TYPE	DEATHS_DIRECT	INJURIES_DIRECT	DAMAGE_PROPERTY_NUM	DAMAGE_CROPS_NUM	INJURIES_INDIRECT	DEATHS_INDIRECT
TOOELE CO.	WENDOVER AF AUX ARPT	10/18/2015	Thunderstorm Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		11/2/2015	High Wind	0	0	20000	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		11/3/2015	High Wind	0	0	20000	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		11/9/2015	High Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		11/16/2015	Winter Storm	0	0	10000	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		11/16/2015	High Wind	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		11/18/2015	High Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		12/10/2015	High Wind	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		12/10/2015	High Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		12/13/2015	Winter Storm	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		12/24/2015	Winter Storm	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		2/17/2016	High Wind	0	0	200000	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		2/17/2016	High Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		3/6/2016	High Wind	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		3/6/2016	High Wind	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		3/14/2016	High Wind	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		3/27/2016	Winter Storm	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		4/22/2016	High Wind	0	0	0	0	0	0
TOOELE CO.	GRANTSVILLE	5/5/2016	Thunderstorm Wind	0	0	10000	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	5/5/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	ARINOSA	5/19/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	5/19/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	VERNON MUNI ARPT	5/19/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	GOLD HILL	6/8/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	6/8/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	WENDOVER AF AUX ARPT	6/8/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	DOLOMITE	6/8/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	LOW	6/12/2016	Hail	0	0	0	0	0	0
TOOELE CO.	GOLD HILL	6/30/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	BARRO	6/30/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	KNOLLS	6/30/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	GOLD HILL	6/30/2016	Thunderstorm Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		7/19/2016	Wildfire	0	11	3000000	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	7/21/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	DUGWAY	7/21/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	WENDOVER AF AUX ARPT	8/2/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	BARRO	8/2/2016	Thunderstorm Wind	0	0	10000	0	0	0

NOAA SEVERE WEATHER DATABASE - TOOELE COUNTY (2015-2021)									
CZ_NAME_STR	BEGIN_LOCATION	BEGIN_DATE	EVENT_TYPE	DEATHS_DIRECT	INJURIES_DIRECT	DAMAGE_PROPERTY_NUM	DAMAGE_CROPS_NUM	INJURIES_INDIRECT	DEATHS_INDIRECT
TOOELE CO.	(DPG)MICHAEL AAF DUG	8/2/2016	Thunderstorm Wind	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		8/15/2016	High Wind	0	0	0	0	0	0
TOOELE CO.	ARINOSA	8/31/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	KNOLLS	9/1/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	9/1/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	9/1/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	9/1/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	9/13/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	9/13/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	9/22/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	WENDOVER AF AUX ARPT	9/22/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	CLIVE	9/22/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	9/22/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	DUGWAY	9/22/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	PEHRSON STATION	9/22/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	LAKE PT	9/22/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	KNOLLS	10/2/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	10/2/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	CLIVE	10/2/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	PEHRSON STATION	10/2/2016	Thunderstorm Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		10/16/2016	High Wind	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		10/30/2016	High Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		10/30/2016	High Wind	0	0	0	0	0	0
TOOELE CO.	GOLD HILL	11/23/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	11/23/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	GOLD HILL	11/23/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	PEHRSON STATION	11/23/2016	Thunderstorm Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		11/28/2016	Winter Storm	0	0	0	0	0	0
TOOELE CO.	BARRO	12/16/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	BARRO	12/16/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	GOLD HILL	12/16/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	12/16/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	12/16/2016	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	DUGWAY	12/16/2016	Thunderstorm Wind	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		12/23/2016	Winter Storm	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		12/23/2016	Winter Storm	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		1/8/2017	High Wind	0	0	10000	0	0	0

NOAA SEVERE WEATHER DATABASE - TOOELE COUNTY (2015-2021)

CZ_NAME_STR	BEGIN_LOCATION	BEGIN_DATE	EVENT_TYPE	DEATHS_DIRECT	INJURIES_DIRECT	DAMAGE_PROPERTY_NUM	DAMAGE_CROPS_NUM	INJURIES_INDIRECT	DEATHS_INDIRECT
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		1/9/2017	High Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		1/20/2017	Winter Storm	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		2/7/2017	High Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		2/21/2017	High Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		2/21/2017	Winter Storm	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		3/5/2017	High Wind	0	0	100000	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		3/5/2017	High Wind	0	0	10000	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		3/30/2017	Winter Storm	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		4/1/2017	High Wind	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		4/8/2017	High Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		4/13/2017	High Wind	0	0	50000	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		4/13/2017	High Wind	0	0	30000	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	4/18/2017	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	LAKE PT	5/6/2017	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	CLIVE	5/6/2017	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	5/24/2017	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	5/24/2017	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	LAKE PT	5/24/2017	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	TIMPIE	5/24/2017	Thunderstorm Wind	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		6/11/2017	High Wind	0	1	50000	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		6/12/2017	High Wind	0	0	40000	0	0	0
TOOELE CO.	BARRO	6/19/2017	Thunderstorm Wind	0	0	1000	0	0	0
TOOELE CO.	GOLD HILL	6/20/2017	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	GOLD HILL	6/20/2017	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	BARRO	6/20/2017	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	PEHRSON STATION	6/20/2017	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	BARRO	7/17/2017	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	7/20/2017	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	7/29/2017	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	GOLD HILL	8/8/2017	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	GOLD HILL	8/10/2017	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	BARRO	9/14/2017	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	BARRO	9/14/2017	Thunderstorm Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		10/20/2017	High Wind	0	0	5000	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		10/20/2017	High Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		11/27/2017	High Wind	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		11/27/2017	High Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		1/19/2018	Winter Storm	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		2/18/2018	Heavy Snow	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		2/22/2018	Heavy Snow	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		3/2/2018	High Wind	0	0	25000	0	0	0

NOAA SEVERE WEATHER DATABASE - TOOELE COUNTY (2015-2021)									
CZ_NAME_STR	BEGIN_LOCATION	BEGIN_DATE	EVENT_TYPE	DEATHS_DIRECT	INJURIES_DIRECT	DAMAGE_PROPERTY_NUM	DAMAGE_CROPS_NUM	INJURIES_INDIRECT	DEATHS_INDIRECT
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		3/2/2018	High Wind	0	0	40000	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		3/2/2018	Winter Storm	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		3/3/2018	Winter Storm	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		3/14/2018	High Wind	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		3/14/2018	High Wind	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		3/22/2018	High Wind	0	0	10000	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		3/22/2018	High Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		4/12/2018	High Wind	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		4/12/2018	High Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		4/16/2018	High Wind	0	0	50000	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		4/16/2018	High Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	5/30/2018	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	5/30/2018	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	5/30/2018	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	LAKE PT	5/30/2018	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	7/16/2018	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	8/2/2018	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	8/2/2018	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	8/2/2018	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	8/2/2018	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	8/2/2018	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	8/2/2018	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	8/2/2018	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	8/2/2018	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	8/2/2018	Thunderstorm Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		9/15/2018	Wildfire	0	0	600000	0	5	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	10/9/2018	Thunderstorm Wind	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		11/24/2018	High Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		12/1/2018	Winter Storm	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		1/9/2019	Ice Storm	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		1/21/2019	Winter Storm	0	0	0	0	0	0

NOAA SEVERE WEATHER DATABASE - TOOELE COUNTY (2015-2021)

CZ_NAME_STR	BEGIN_LOCATION	BEGIN_DATE	EVENT_TYPE	DEATHS_DIRECT	INJURIES_DIRECT	DAMAGE_PROPERTY_NUM	DAMAGE_CROPS_NUM	INJURIES_INDIRECT	DEATHS_INDIRECT
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		1/21/2019	High Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		2/3/2019	Heavy Snow	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		2/13/2019	Heavy Snow	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		2/13/2019	High Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		3/1/2019	Heavy Snow	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		3/13/2019	High Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		3/13/2019	Heavy Snow	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		3/28/2019	Heavy Snow	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		3/28/2019	Winter Storm	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		3/28/2019	High Wind	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		3/28/2019	High Wind	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		3/28/2019	High Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		4/6/2019	Heavy Snow	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		4/10/2019	High Wind	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		5/16/2019	High Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		5/16/2019	High Wind	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		5/16/2019	High Wind	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		5/16/2019	High Wind	0	0	0	0	0	0
TOOELE CO.	DOLOMITE	6/1/2019	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	GOLD HILL	6/6/2019	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	BURMESTER	6/6/2019	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	LAKE PT	6/6/2019	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	LAKE PT	6/6/2019	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	TIMPIE	6/6/2019	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	DUGWAY	6/6/2019	Thunderstorm Wind	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		6/7/2019	High Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		6/7/2019	High Wind	0	0	0	0	0	0
TOOELE CO.	IBAPAH	6/13/2019	Hail	0	0	0	0	0	0
TOOELE CO.	WENDOVER AF AUX ARPT	6/13/2019	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	BARRO	6/13/2019	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	CLIVE	6/13/2019	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	ERDA	6/13/2019	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	BURMESTER	6/17/2019	Thunderstorm Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		6/20/2019	High Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	7/4/2019	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	TIMPIE	7/4/2019	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	WENDOVER AF AUX ARPT	7/31/2019	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	PEHRSON STATION	8/8/2019	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	PEHRSON STATION	8/8/2019	Thunderstorm Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		9/8/2019	High Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		9/8/2019	High Wind	0	0	0	0	0	0

NOAA SEVERE WEATHER DATABASE - TOOELE COUNTY (2015-2021)									
CZ_NAME_STR	BEGIN_LOCATION	BEGIN_DATE	EVENT_TYPE	DEATHS_DIRECT	INJURIES_DIRECT	DAMAGE_PROPERTY_NUM	DAMAGE_CROPS_NUM	INJURIES_INDIRECT	DEATHS_INDIRECT
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		11/27/2019	Heavy Snow	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		11/27/2019	Heavy Snow	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		2/2/2020	High Wind	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		2/3/2020	Heavy Snow	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		2/3/2020	Heavy Snow	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		2/6/2020	High Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		2/24/2020	High Wind	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		5/22/2020	High Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		5/22/2020	High Wind	0	0	0	0	0	0
TOOELE CO.	PEHRSON STATION	5/30/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	WENDOVER AF AUX ARPT	5/30/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	5/30/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	5/30/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	5/30/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	5/30/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	5/30/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	5/30/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	5/30/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	5/30/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	5/30/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	5/30/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	5/30/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	GOLD HILL	5/30/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	5/30/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	5/30/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	BARRO	5/30/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	PEHRSON STATION	6/5/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	BARRO	6/5/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	TIMPIE	6/5/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	6/5/2020	Thunderstorm Wind	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		6/28/2020	High Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	6/28/2020	Thunderstorm Wind	0	0	0	0	0	0

NOAA SEVERE WEATHER DATABASE - TOOELE COUNTY (2015-2021)									
CZ_NAME_STR	BEGIN_LOCATION	BEGIN_DATE	EVENT_TYPE	DEATHS_DIRECT	INJURIES_DIRECT	DAMAGE_PROPERTY_NUM	DAMAGE_CROPS_NUM	INJURIES_INDIRECT	DEATHS_INDIRECT
TOOELE CO.	(DPG)MICHAEL AAF DUG	6/28/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	ST JOHN	6/28/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	6/28/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	BARRO	7/23/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	7/27/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	ELLERBECK	7/27/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	ELLERBECK	7/27/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	DOLOMITE	7/27/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	8/19/2020	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	8/19/2020	Thunderstorm Wind	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		9/7/2020	High Wind	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		9/8/2020	High Wind	1	12	4300000	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		2/17/2021	Heavy Snow	0	0	0	0	0	0
SALT LAKE AND TOOELE VALLEYS (ZONE)		3/13/2021	Heavy Snow	0	0	0	0	0	0
GREAT SALT LAKE DESERT AND MOUNTAINS (ZONE)		3/29/2021	High Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	5/1/2021	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	WENDOVER AF AUX ARPT	5/16/2021	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(T62)TOOELE	5/16/2021	Hail	0	0	0	0	0	0
TOOELE CO.	CLIVE	5/19/2021	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	5/19/2021	Thunderstorm Wind	0	0	0	0	0	0
TOOELE CO.	(DPG)MICHAEL AAF DUG	5/19/2021	Thunderstorm Wind	0	0	0	0	0	0

Data Source: NOAA Storm Events Database, 2021: https://www.ncdc.noaa.gov/stormevents

APPENDIX G: 2018 UTAH MORMON CRICKET AND GRASSHOPPER REPORT

2018 Grasshopper Report

COOPERATION

Utah Department of Agriculture and Food, Utah State Extension Service, and USDA APHIS PPQ cooperate to conduct grasshopper and Mormon cricket surveys. Each entity qualifies projects for the "state cost share program". In this program private landowners are reimbursed up to 50% of the cost for treating economically threatening grasshopper populations on their property when exceeding infestation levels of eight (8) insects per Sq. Yd. or greater. USDA APHIS PPQ is charged by congress to suppress high grasshopper population on federal lands. Each program works together to enable land owners and land managers to be good neighbors and stewards of the land.

COST SHARE PARTICIPATION

Grasshopper populations are on the rise. In 2018, UDAF issued 114 cost share agreements; however only 63 participants submitted paperwork for reimbursement. Nearly 30,000 acres were treated through the 63 participants. Private landowners in the following counties participated in the state cost share program: (4) Beaver, (8) Box Elder, (1) Cache, (1) Duchesne, (1) Emery, (1) Garfield, (4) Iron, (1) Juab, (4) Millard, (2) Piute, (26) Sanpete, (1) Sevier, (2) Tooele, (2) Utah, (5) Washington

AREAS OF CONCERN

1. 2018 consisted of isolated populations of infestations in historical areas of concern. These places include: Box Elder, Sanpete, Sevier, Millard, Tooele, Duchesne, Uintah and Beaver counties.
2. Some farmers and ranchers experienced high (50-70 Per Sq. Yd.) grasshopper populations causing damage to cropland areas in the central portion of the state, where historically populations persist.
3. According to survey data, private land owners experienced the highest grasshopper populations with 291,431 infested acers; Federal property was second with 182,950 infested acers.
4. No aerial or ground treatments were carried out by state or federal partners in 2018.

SURVEY

1. 2,769 Surveys were taken throughout the State of Utah. All surveys were conducted by USDA APHIS PPQ. (See Map Below)
2. During the 2018 survey season, no economically threatening Mormon cricket populations were found. Mormon cricket populations are extremely low and will likely remain low for several years.

GRASSHOPPER BIOLOGY

The predominant grasshopper species in 2018 were as follows: *Melanoplus confusus* Scudder, *Camnula pellucida* (Scudder), *Aulocara elliotti* (Thomas), *Melanoplus packardii* Scudder, *Melanoplus sanguinipes* (Fabricius).

GRASSHOPPER RESOUCES

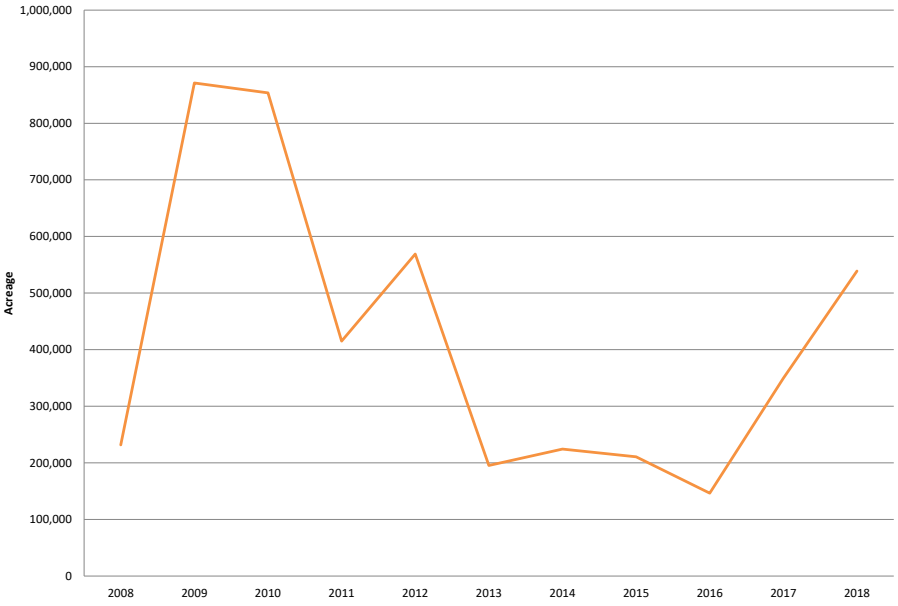
Field Guide To Common Western Grasshoppers:
http://www.sidney.ars.usda.gov/grasshopper/ID_Tools/F_Guide/index.htm

Utah State University Plant Pest Diagnostics:
http://utahpests.usu.edu/IPM/htm/vegetables/vegetable-insect-disease/grasshopper-control/

Grasshopper Infested Acreage By Year

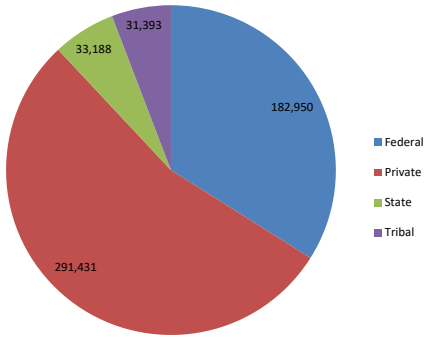
County	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Beaver	5,315	5,863		7,190	4,329	21,394	1,498	1,555	1,280	5,348	2,560
Box Elder	18,918	62,151	118,727	43,334	49,139	30,882	14,773	19,200	21,560	21,760	55,064
Cache	3,856	22,442	47,869	14,393	16,246	3,840	5,489	6,283	2,560	12,991	23,407
Carbon		3,733	12,763	3,357	1,806	354	2,084		2,080		10,605
Daggett	1,280	1,568	2,714	2,560	6,128					4,678	9,188
Davis			1,280	2,560			1,280	2,560	1,280	1,656	
Duchesne	19,375	85,391	39,292	11,746	20,023	11,209	29,087	22,817	10,159	49,234	28,356
Emery	4,329	22,401	7,680	13,339			1,280	2,560	261	2,910	11,531
Garfield		2,474			3,343	5,665				2,560	
Grand	1,445	19,384	17,341	20,389			12,927	4,399	3,579	2,560	6,392
Iron	2,560	12,316	13,170	21,530	9,453	26,364	14,707	3,840		3,840	3,776
Juab	28,754	121,893	131,575	53,968	91,827	5,974	4,746	19,489	9,794	10,417	46,468
Kane		1,280	1,280		1,279		4,259			1,280	628
Millard	25,599	83,063	61,620	13,320	40,548	7,043	14,790	24,827	3,838	22,588	41,423
Morgan	136	2,770	8,955	2,560	14,149	2,560	1,280	1,280		5,058	9,018
Piute	3,135	395	1,280	4,882	14,778	3,127	2,631	2,175	1,280	2,992	2,560
Rich		2,192	3,519	6,030	29,003	1,280	2,212	1,280	1,280	4,788	16,145
Salt Lake		8,265	6,400	1,280				3,840			849
San Juan	7,515	3,840	1,280	1,280				2,001			
Sanpete	28,749	129,329	181,346	71,663	69,321	34,870	18,476	32,614	21,669	34,428	66,455
Sevier	4,789	16,807	11,298	13,732	38,555	2,817	12,684	18,590	13,578	17,151	38,885
Summit	2,560	6,822	7,680		10,941		4,683	2,560	2,560	7,416	21,399
Tooele	9,444	90,900	49,938	49,965	46,254	8,522	37,175	14,080	17,233	20,578	28,277
Uintah	17,692	94,457	57,806	22,165	37,970	1,280	14,334	10,955	9,602	66,578	71,218
Utah	6,782	60,751	58,828	20,285	36,072	5,239	6,398	12,656	21,680	25,635	26,720
Wasatch		5,703	1,280	7,680	16,876	1,280	4,256	1,126	1,280	12,766	7,285
Washington	38,487	4,896	1,280	4,512	1,817	21,825	13,385			7,680	3,904
Wayne											
Weber	1,144		7,461	1,280	9,162					2,747	6,849
Total	231,864	871,086	853,662	415,000	569,019	195,523	224,434	210,687	146,553	349,639	538,962

Grasshopper Infested Acreage By Year

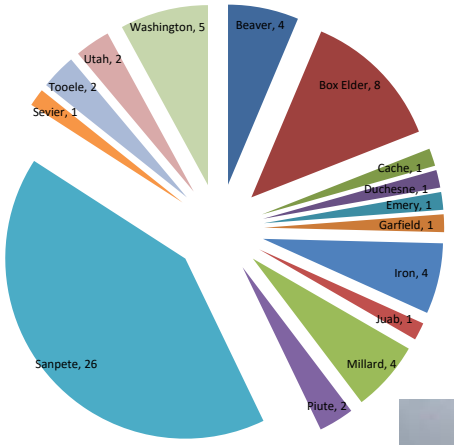


Grasshopper Infested Acreage By Land Ownership

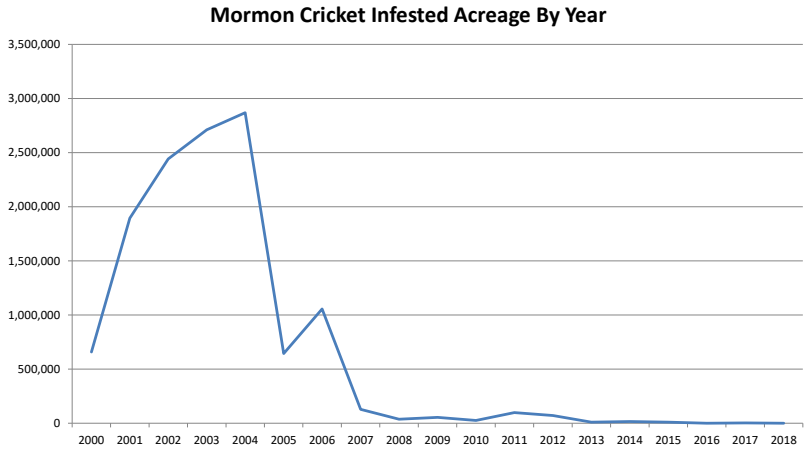
County	Federal	Private	State	Tribal	Total
Beaver	798	1,762			2,560
Box Elder	3,635	49,866	1,563		55,064
Cache	6,050	15,541	1,816		23,407
Carbon	2,238	7,846	521		10,605
Daggett	8,518	630	40		9,188
Duchesne	2,092	16,236	1,213	8,815	28,356
Emery	7,613	3,405	513		11,531
Grand	4,787	675	930		6,392
Iron	146	2,919	711		3,776
Juab	31,354	12,492	1,954	668	46,468
Kane	628				628
Millard	11,573	27,038	2,274	538	41,423
Morgan	34	8,595	389		9,018
Piute	2,321	239			2,560
Rich	2,865	10,799	2,481		16,145
Salt Lake	535	314			849
Sanpete	19,651	42,314	4,490		66,455
Sevier	28,131	7,120	3,634		38,885
Summit	2,352	18,390	657		21,399
Tooele	13,582	12,454	2,103	138	28,277
Uintah	19,745	24,509	5,730	21,234	71,218
Utah	10,854	14,224	1,642		26,720
Wasatch	1,565	5,193	527		7,285
Washington	1,123	2,781			3,904
Weber	760	6,089			6,849
Total	182,950	291,431	33,188	31,393	538,962

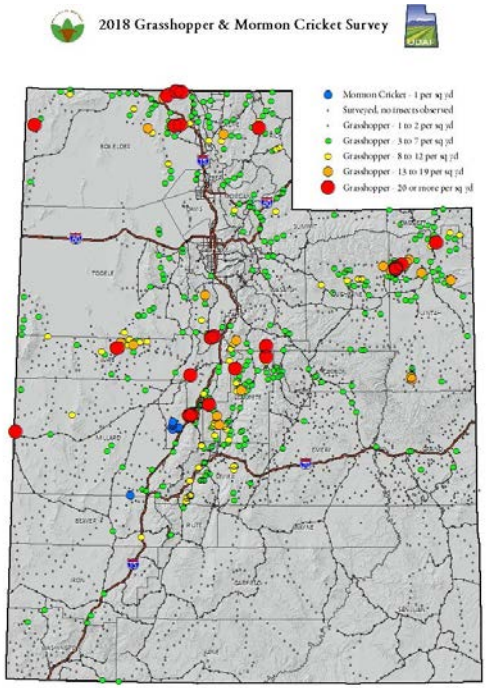


Number of Cost Share Participants



Participants: 63
Total Acres Treated: 30,000


Mormon Cricket Infested Acreage By Year
3,500,000
3,000,000
2,500,000
2,000,000
1,500,000
1,000,000
500,000
0
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018


2018 Grasshopper & Mormon Cricket Survey
Mormon Cricket - 1 per sq yd
Surveyed, no insects observed
Grasshopper - 1 to 2 per sq yd
Grasshopper - 3 to 7 per sq yd
Grasshopper - 8 to 12 per sq yd
Grasshopper - 13 to 19 per sq yd
Grasshopper - 20 or more per sq yd

Federal Emergency Management Agency
Repetitive Losses / BCX Claims
UTAH

CID	Community Name	County	No Of Variances	No Of Rep Losses	CAC Date	CAV Date	No Of BCX Claims	Total Area Population	LOMCS	No Of Policies	FIRM Date	CRS
490093	MORGAN CITY,CITY OF	MORGAN COUNTY	0	0	09/25/2019	06/22/2017	0	3,160	37	18	12/07/201	
490092	MORGAN COUNTY *	MORGAN COUNTY	0	2	03/22/2018	09/15/2015	2	6,000	49	27	12/07/201	
490141	GRANTSVILLE, CITY OF	TOOELE COUNTY	0	0	08/03/2021		0	8,000	0	0	11/18/200	
490142	OPHIR, TOWN OF	TOOELE COUNTY	0	0			0	76	0	0	11/18/200	
490215	RUSH VALLEY, TOWN OF	TOOELE COUNTY	0	0			0	541	2	0	11/18/200	
490144	STOCKTON, TOWN OF	TOOELE COUNTY	0	0			0	600	1	1	11/18/200	
490140	TOOELE COUNTY *	TOOELE COUNTY	0	0	09/30/2019	03/05/2019	0	55,626	1	7	11/18/200	
490145	TOOELE, CITY OF	TOOELE COUNTY	0	0	02/19/2021	03/05/2019	0	25,000	21	6	11/18/200	
490146	VERNON, TOWN OF	TOOELE COUNTY	0	0			0	200	0	0	11/18/200	
490222	WENDOVER, TOWN OF	TOOELE COUNTY	3	0	10/30/2015	02/20/2013	0	781	3	6	11/18/200	