1. UNINCORPORATED ADA COUNTY

1.1 LOCAL HAZARD MITIGATION PLANNING TEAM

Primary Point of Contact

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This annex was developed by the local hazard mitigation planning team, whose members are listed in Table 1-1.

| Table 1-1. Local Hazard Mitigation Planning Team Members | | | |
|--|--|--|--|
| Name Title | | | |
| Paul "Crash" Marusich | Deputy Director, EMCR | | |
| Stacey Yarrington | Community and Regional Planner, Ada County | | |
| Zach Kirk | Ada County Engineer/Floodplain Administrator | | |

1.2 JURISDICTION PROFILE

1.2.1 Location and Features

Ada County is located in the southwestern part of Idaho and encompasses a land area of 1,060 square miles (including 5 miles of water). Ada County is the State of Idaho's most populated county, containing nearly 27% of the state's population. It is home to the capital city of Boise, which is also the largest city and the county seat where most of the county offices are located. In addition, the county is home to five other cities, Meridian, Eagle, Garden City, Star, and Kuna. Ada County is also home to the nation's only countywide highway district, the Ada County Highway District (ACHD) which is served by a separate elected board. Surrounding counties are Boise (northeast), Canyon (west), Elmore (southeast), Gem (north), and Owyhee (southwest) as shown in Figure 1-1.





Figure 1-1. Ada County and Surroundings

The following highways run through Ada County: Interstate Highway 84/184, US 20, US 26, US 30, State Highway 21, State Highway 44, State Highway 55, and State Highway 69.

Major dams on the Boise River in Ada County include Lucky Peak and Arrow Rock Reservoir. Additionally, Anderson Ranch dam is another large dam that lies in Elmore County, up river of Ada County's Lucky Peak Reservoir. Ada County has a number of smaller dams as well, including Barber dam—located on the Boise River just below Lucky Peak. There are a total of 26 dams in the county, 13 of which are classified as high-hazard dams. More information on dams is available via Ada County's Emergency Management site at www.adaprepare.id.gov.

Key geographic features include the Boise River, which flows through the northern part of the county and the City of Boise. The northeastern part of Ada County is bordered by the foothills of the Boise Mountains (the foothills of the Rocky Mountains). The southwestern part of Ada County borders the Snake River.

Ada County is also home to the Boise Airport (Gowen Field), Gowen Field Air National Guard Base, and Boise State University—the state's largest university with over 20,000 students, which lies within the City of Boise.

Ada County's high desert semi-arid climate produces cold winters and hot and dry summers. January is the coldest month with average low temperatures in the low to mid 20s. July is the hottest month with average high temperatures peaking in the low to mid 90s. Average precipitation in Ada County is 12 inches per year, with most of the precipitation occurring during the cooler months and falling as snow at times. Very little precipitation falls during the summer months, though thunderstorms occasionally produce brief cloud bursts of rain.

1-2 TETRA TECH

1.2.2 History

Ada County was created by the Idaho Territorial Legislature on December 22, 1864. It is named after Ada Riggs, the first pioneer child born in the county, and daughter of H.C. Riggs, the co-founder of the City of Boise.

1.2.3 Governing Body Format

Ada County is headed by an elected three-member group, the Board of County Commissioners. The Board oversees departments both directly and through the County's Chief Operating Officer. Other county elected offices include a County Clerk, Treasurer, Assessor, Prosecutor, Coroner, and Sheriff.

The Board of County Commissioners is responsible for the adoption of this plan, Ada County Emergency Management and Community Resilience is responsible for its implementation.

1.3 CURRENT TRENDS

1.3.1 Population

According to COMPASS, the population of Unincorporated Ada County as of April 2022, was 66,240. Since 2017, the population has grown at an average annual rate of 2.2 percent.

1.3.2 Development

Ada County has scene unprecedented growth over the last several years. Development is once again at an all-time high, with no sign of a slowing economy. Ada County has grown in population by approximately 22.7% between 2010 and 2020 according to the U.S. Census. In 2020, Ada County issued 543 residential and 52 commercial building permits within unincorporated parts of the county. Ada County has 4 approved Planned Communities and interest is once again growing to create more Planned Communities within the unincorporated areas of the county.

Identifying previous and future development trends is achieved through a comprehensive review of permitting since completion of the previous plan and in anticipation of future development. Tracking previous and future growth in potential hazard areas provides an overview of increased exposure to a hazard within a community. Table 1-2 summarizes development trends in the performance period since the preparation of the previous hazard mitigation plan, as well as expected future development trends.

| Table 1-2. Recen | Table 1-2. Recent and Expected Future Development Trends | | | | | |
|--|--|------|---------|----------|------|-------|
| Criterion | | | | | Res | ponse |
| Has your jurisdiction annexed any land since the If yes, give the estimated area annexed and estim | | | n plan? | | | No |
| Is your jurisdiction expected to annex any areas during the performance period of this plan? If yes, describe land areas and dominant uses. If yes, who currently has permitting authority over these areas? | | | | | No | |
| | | | | ximately | | |
| | a WUI zone and has a Zone A Flood Plain thru a small portion of the site. A potential PC located east of Eagle and north of Boise consisting of approximately 250 lots on approximately 400-acres that surrounds an existing golf course. This proposed development is located within a WUI zone. | | | | | |
| How many permits for new construction were | | 2016 | 2017 | 2018 | 2019 | 2020 |
| issued in your jurisdiction since the preparation | Single Family | 496 | 520 | 444 | 553 | 526 |
| of the previous hazard mitigation plan? | Multi-Family | 0 | 3 | 1 | 0 | 9 |
| | Other | 253 | 199 | 274 | 224 | 227 |
| | Total | 749 | 722 | 719 | 777 | 762 |
| Provide the number of new-construction permits for each hazard area or provide a qualitative description of where development has occurred. | • Landslide: 0 | | | | | |
| Describe the level of buildout in the jurisdiction, based on your jurisdiction's buildable lands inventory. If no such inventory exists, provide a qualitative description. | There are four approved Planned Communities (PCs) within Ada County with a total of over 4,300 residential lots approved. Build-out is at approximately 51%, with over 2,200 building permits issued between the PCs. The majority of the new-construction permits that are listed in the Wildfire Risk area above, are located within the PCs. | | | | | |

1.4 CAPABILITY ASSESSMENT

This section describes an assessment of existing capabilities for implementing hazard mitigation strategies. The introduction at the beginning of this volume of the hazard mitigation plan describes the components included in the capability assessment and their significance for hazard mitigation planning.

Findings of the capability assessment were reviewed to identify opportunities to expand, initiate or integrate capabilities to further hazard mitigation goals and objectives. Where such opportunities were identified and determined to be feasible, they are included in the action plan. The "Analysis of Mitigation Actions" table in this annex identifies these as community capacity building mitigation actions. The findings of the assessment are presented as follows:

- An assessment of planning and regulatory capabilities is presented in Table 1-3.
- Development and permitting capabilities are presented in Table 1-4.
- An assessment of fiscal capabilities is presented in Table 1-5.
- An assessment of administrative and technical capabilities is presented in Table 1-6.
- An assessment of education and outreach capabilities is presented in Table 1-7.
- Information on National Flood Insurance Program (NFIP) compliance is presented in Table 1-8.
- Classifications under various community mitigation programs are presented in Table 1-9.

1-4 TETRA TECH

| | Local Authority | Other Jurisdiction Authority | State Mandated | Integration Opportunity |
|--|---|---|-----------------------------------|----------------------------|
| Codes, Ordinances, & Requirements | | | | |
| Building Code | Yes | No | Yes | Yes |
| Comment: Title 7, Chapter 2, Ada County Code adopts to | the 2018 IBC, 02/16/202 | 1 | | |
| Zoning Code | Yes | No | No | Yes |
| Comment: Title 8, ACC adopted with amendments: 7-21 | -2021 | | | |
| Subdivisions | Yes | No | No | Yes |
| Comment: Title 8, ACC adopted with amendments: 7-21 | -2021 | | | |
| Stormwater Management | Yes | No | Yes | Yes |
| Comment: Title 8, Chapter 4, ACC adopted: 12/8/2010 | | | | |
| Post-Disaster Recovery | Yes | Yes | Yes | Yes |
| Comment: Ordinance 914-Flood Hazard Overlay District | t-6-10-2020 | | | |
| Real Estate Disclosure | Yes | No | No | No |
| Comment: Realtor Listing Disclosure Page shows if floor | d insurance is required. | | | |
| Growth Management | Yes | No | No | Yes |
| Comment: Ada County Comprehensive Plan, adopted amendments on 7-21-2021 | November 2016; Ada | Co. Zoning ordinance- | Title 8, ACC, a | dopted with |
| Site Plan Review | Yes | No | No | Yes |
| Comment: Title 8, Chapter 4-ACC adopted: 12/8/2010 | | | | |
| Environmental Protection | Yes | Yes | Yes | Yes |
| Comment: Title 8, Article A-ACC adopted: 6-14-2000 | | | | |
| Flood Damage Prevention | Yes | Yes | No | Yes |
| Comment: Title 8, Chapter 3-ACC, Article F adopted 6-1 | 0-2020 | | | |
| Emergency Management | Yes | No | Yes | Yes |
| Comment: Idaho Code § 46-1009 | | | | |
| Climate Change | No | No | No | No |
| Comment: | | | | |
| Other | Yes | No | No | Yes |
| Comment: Flood Hazard Overlay District: Title 8, Chap Wildland Urban Interface Overlay District: Southwest Planning Area Overlay District: Boise River Greenway Overlay District. Title Hillside Overlay District. Title 8, Chapter 3, Cartwright Ranch Planned Community Zon Dry Creek Planned Community Zoning Ord Hidden Springs Zoning Ordinance & Specif Private Roads. Title 8, Ch. 4, Article D, ACC. | Fitle 8, Chapter 3, Articl Title 8, Chapter 3, article e 8, Chapter 3, article 0 article H, ACC. Adopte ing Ordinance, Title 8, linance. Title 8, Chapte fic Plan. Title 8, Ch. 21. | e B, ACC, adopted: 6- le C, ACC adopted: 6-1 G, ACC, adopted: 6/14/ d: 12/8/2010 Chapter 3, article K, A0 r 3, article n, ACC. Add | 18-2008 2000 CC. Adopted: 2 | |
| Planning Documents | | | | |
| General Plan | Yes | No | No | Yes |
| Is the plan equipped to provide linkage to this Yes mitigation plan? Comment: Ada County Comprehensive Plan, adopted 1 | | ve Plan undated Nover | ber 2016 | |
| Capital Improvement Plan | Yes | No | No | Yes |
| | eriod, reviewed and upd | | 110 | 100 |

| | Local Authority | Other Jurisdiction Authority | State Mandated | Integration Opportunity? | |
|--|----------------------|---------------------------------|-------------------|--------------------------|--|
| Disaster Debris Management Plan | Yes | No | No | Yes | |
| Comment: : Recently developed Debris Management Annex is a | waiting adoption | as part of the commun | ity EOPs | | |
| Floodplain or Watershed Plan | Yes | No | No | Yes | |
| Comment: The 2022 Ada County Multi-Hazard Mitigation Plan wind its completion and adoption. | ll qualify as a flo | od hazard managemer | nt plan under Cl | RS criteria upon | |
| Stormwater Plan | Yes | No | No | Yes | |
| Comment: EPA NPDES Municipal Separate Storm Sewer System | n Permit; Ada Co | ounty Highway District- | 2-1-2021 | | |
| Urban Water Management Plan | Yes | Yes | No | Yes | |
| Comment: Idaho Catalog of Stormwater Best Management Pract | ices; April 2020 | | | | |
| Habitat Conservation Plan | Yes | Yes | No | Yes | |
| Comment: Boise River Greenway Overlay District; 6-14-2020 | | | | | |
| Economic Development Plan | Yes | No | No | Yes | |
| Comment: Ada County 2025 Comp Plan; Pages 51-53 | | | | | |
| Shoreline Management Plan | No | No | No | No | |
| Comment: | | | | | |
| Community Wildfire Protection Plan | Yes | No | No | Yes | |
| Comment: Mitigation Plan will serve as CWPP as approved by th ACC Title 8, Article 8; Wildland-Urban Fire Interface C | | | | | |
| Forest Management Plan | No | No | No | No | |
| Comment: | | | | | |
| Climate Action Plan | Yes | No | No | Yes | |
| Comment: The 2022 Ada County Multi-Hazard Mitigation Plan will its completion and adoption. | ll qualify as a flo | od hazard managemer | nt plan under Cl | RS criteria upon | |
| Comprehensive Emergency Management Plan | Yes | No | Yes | Yes | |
| Comment: Ada County EOP (2018) and hazard specific plans full | fill this function . | | | | |
| Threat & Hazard Identification & Risk Assessment (THIRA) | Yes | No | No | Yes | |
| Comment: Ada County THIRA 2018, Ada County Multi-Hazard M | itigation Plan | | | | |
| Post-Disaster Recovery Plan | No | No | No | No | |
| Comment: | | | | | |
| Continuity of Operations Plan | Yes | No | No | Yes | |
| Comment: Ada County COOP Plan; updated 2016 | | | | | |
| Public Health Plan | No | Yes | No | Yes | |
| Comment: Central District Health Department Emergency Operations Plan, 2020 | | | | | |
| Other | No | No | No | Yes | |
| Comment: | | | | | |

| Table 1-4. Development and Permitting Capability | | | |
|--|--------------|--|--|
| Criterion | Response | | |
| Does your jurisdiction issue development permits? If no, who does? If yes, which department? Ada County Development Services. | Yes vices | | |
| Does your jurisdiction have the ability to track permits by hazard area? | Yes | | |
| Does your jurisdiction have a buildable lands inventory? | No | | |

1-6 TETRA TECH

| Table 1-5. Fiscal Capability | | | | |
|--|--------------------------------|--|--|--|
| Financial Resource | Accessible or Eligible to Use? | | | |
| Community Development Block Grants | Yes | | | |
| Capital Improvements Project Funding | Yes | | | |
| Authority to Levy Taxes for Specific Purposes | Yes | | | |
| User Fees for Water, Sewer, Gas or Electric Service | Yes | | | |
| If yes, specify: Sewer-yes; Water-no; gas or electric-no | | | | |
| Incur Debt through General Obligation Bonds | Yes | | | |
| Incur Debt through Special Tax Bonds | Yes | | | |
| Incur Debt through Private Activity Bonds | No | | | |
| Withhold Public Expenditures in Hazard-Prone Areas | No | | | |
| State-Sponsored Grant Programs | Yes | | | |
| Development Impact Fees for Homebuyers or Developers | Yes | | | |
| Other | None | | | |
| If yes, specify: | | | | |

| | Table 1-6. Administrative and Technical Capability | |
|-----------------------------------|---|------------|
| Staff/Personnel Resource | | Available? |
| Planners or engineers with kn | owledge of land development and land management practices | Yes |
| If Yes, Department /Position: | Development Services/Planning & Zoning | |
| Engineers or professionals tra | ined in building or infrastructure construction practices | Yes |
| If Yes, Department /Position: | Development Services/Building Division | |
| Planners or engineers with an | understanding of natural hazards | Yes |
| If Yes, Department /Position: | Development Services/Engineering Division | |
| Staff with training in benefit/co | ost analysis | Yes |
| If Yes, Department /Position: | Ability to contract for service | |
| Surveyors | | Yes |
| If Yes, Department /Position: | Development Services/Engineering Division | |
| Personnel skilled or trained in | GIS applications | Yes |
| If Yes, Department /Position: | Information Technology/GIS Info System Tech | |
| Scientist familiar with natural | hazards in local area | Yes |
| If Yes, Department /Position: | Planning partners available through universities and Idaho Office of Emergency Management | ent |
| Emergency manager | | Yes |
| If Yes, Department /Position: | Ada County Emergency Management and Community Resilience (EMCR) | |
| Grant writers | | Yes |
| If Yes, Department /Position: | Ability to contract for service | |
| Other | | No |
| If Yes, Department /Position: | | |

| Table 1-7. Education and Outreach Capability | | | |
|--|---|-----------------------|--|
| Criterion | | Response | |
| Do you have a public inf | ormation officer or communications office? | Yes | |
| Do you have personnel | skilled or trained in website development? | Yes | |
| | gation information available on your website? Information regarding current and past hazard mitigation planning initiatives is easily accessible website. | Yes on the | |
| Do you use social media If yes, briefly describe: | for hazard mitigation education and outreach? Current Emergency Management Next Door, Facebook and Twitter accounts used for general and outreach. Ability to post mitigation-specific information. | Yes EM education | |
| Do you have any citizen boards or commissions that address issues related to hazard mitigation? Yes If yes, briefly describe: There is citizen representation on the Hazard Mitigation Steering Committee. Mitigation updates and initiatives are also discussed at the Ada City-County Emergency Management Executive Council and the Local Emergency Planning Committee meetings. | | | |
| Do you have any other p If yes, briefly describe: | programs in place that could be used to communicate hazard-related information? EMCR conducts regular outreach through social media, website, public presentations, safety/prevents and public school programs. | Yes reparedness | |
| Do you have any establi If yes, briefly describe: | shed warning systems for hazard events? Code Red– residents may sign up to receive emergency notifications and critical communi System is IPAWS enabled and may additionally access that integrated system for public w Ada County Emergency Management and Community Resilience developed a Joint Information that delineates the processes with developing a regional joint information system and center for public information messaging. | arnings. System Plan | |

| Table 1-8. National Flood Insurance Program Compliance | | | | |
|--|--|--|--|--|
| Criterion | Response | | | |
| What local department is responsible for floodplain management? | Development Services/Engineering Division | | | |
| Who is your floodplain administrator? (department/position) | Director or appointee - Development Services (per flood ordinance) | | | |
| Are any certified floodplain managers on staff in your jurisdiction? | Yes | | | |
| What is the date that your flood damage prevention ordinance was last amended? | 06/10/2020 | | | |
| Does your floodplain management program meet or exceed minimum requirements? If exceeds, in what ways? 1.5-foot freeboard | Exceed | | | |
| When was the most recent Community Assistance Visit or Community Assistance Contact? | 02/12/2021 | | | |
| Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? If so, state what they are. | No | | | |
| Are any RiskMAP projects currently underway in your jurisdiction? If so, state what they are. | No | | | |
| Do your flood hazard maps adequately address the flood risk within your jurisdiction? | No | | | |
| If no, state why. Remaining Zone A hazard areas in Unincorporated Ada County require additional analysis. | | | | |
| Does your floodplain management staff need any assistance or training to support its floodplain management program? If so, what type of assistance/training is needed? Funding for CFM ongoing training. | Yes | | | |

1-8 TETRA TECH

| Criterion | Response |
|---|----------|
| Does your jurisdiction participate in the Community Rating System (CRS)? If yes, is your jurisdiction interested in improving its CRS Classification? Yes If no, is your jurisdiction interested in joining the CRS program? | Yes |
| How many flood insurance policies are in force in your jurisdiction? What is the insurance in force? \$50,709,700 What is the premium in force? \$126,034 | 170 |
| How many total loss claims have been filed in your jurisdiction? ^a What were the total payments for losses? \$134,106 | 32 |

According to FEMA Regional Flood Insurance Liaison, Region 10 as of April 21, 2022

| Table 1-9. Community Classifications | | | | |
|--|--|----------------|-----------------|--|
| | Participating? | Classification | Date Classified | |
| FIPS Code (INCITS 31-2009) | Yes | 16001 | 2009 | |
| DUNS# | No | NA | NA | |
| Community Rating System | Yes | 7 | 02/12/2021 | |
| Building Code Effectiveness Grading Schedule (Idaho Not Listed in the 2019 Report) | No | NA | NA | |
| Public Protection | See Fire District Planning Partner Annex | | | |
| Storm Ready | Yes | Gold | N/A | |
| Firewise | Wilderness Ranch | | 2002 | |
| | Avimor | | 2007 | |
| | Hidden Springs | | 2009 | |
| | Central Foothills Neighborhood Association | | 2010 | |
| | Warm Springs Mesa | | 2010 | |
| | Morningside Heights HOA | | 2012 | |
| | Briar Hill | | 2012 | |
| | Columbia Village | | 2013 | |
| | Boise Heights | | 2018 | |
| | Cartwright Ranch | | 2021 | |
| | Dry Creek Ranch | | 2021 | |
| | East Valley Neighborhood | | 2021 | |
| | Highlands Nines HOA | | 2021 | |

1.5 INTEGRATION REVIEW

For hazard mitigation planning, "integration" means that hazard mitigation information is used in other relevant planning mechanisms, such as general planning and capital facilities planning, and that relevant information from those sources is used in hazard mitigation. This section identifies where such integration is already in place, and where there are opportunities for further integration in the future. Resources listed at the end of this annex were used to provide information on integration. The progress reporting process described in Volume 1 of the hazard mitigation plan will document the progress of hazard mitigation actions related to integration and identify new opportunities for integration.

1.5.1 Existing Integration

Some level of integration has already been established between local hazard mitigation planning and the following other local plans and programs:

- Ada County Comprehensive Plan—The Comprehensive Plan for Ada County currently includes
 mitigation related policies as they related to the protection of human life and property from flood events.
 Additionally, the Comprehensive plan addresses the need for natural resource protection and the
 identification of known hazards within the County.
- Hazard Analysis developed for the Mitigation Plan is used to inform the Threat Hazard Inventory and Risk Assessment (THIRA). The THIRA includes gap analysis that ties response, mitigation and recovery capabilities together to help create a comprehensive approach to the hazards of concern.
- Hazard Analysis developed for the Mitigation Plan is used to inform the Hazard Specific Response Plans (Flood, Wildfire) within the County.

1.5.2 Opportunities for Future Integration

The capability assessment presented in this annex indicates opportunities to integrate this mitigation plan with other jurisdictional planning/regulatory capabilities. Capabilities were identified as integration opportunities if they can support or enhance the actions identified in this plan or be supported or enhanced by components of this plan. The capability assessment identified the following plans and programs that do not currently integrate hazard mitigation information but provide opportunities to do so in the future:

• Future planning efforts and updates to County plans will incorporate the data and analysis contained in the Mitigation Plan and the THIRA.

Taking action to integrate each of these programs with the hazard mitigation plan was considered as a mitigation action to include in the action plan in this annex.

1.6 RISK ASSESSMENT

1.6.1 Jurisdiction-Specific Natural Hazard Event History

Table 1-10 lists past occurrences of natural hazards for which specific damage was recorded in this jurisdiction Other hazard events that broadly affected the entire planning area, including this jurisdiction, are listed in the risk assessments in Volume 1 of this hazard mitigation plan.

| Table 1-10. Past Natural Hazard Events | | | | |
|--|-------------------|------------|--|--|
| Type of Event | FEMA Disaster# | Date | Damage Assessment | |
| Funnel Cloud | N/A | 10/25/2021 | Strong winds, heavy rain, localized flooding | |
| Heavy Rain/Flash Flooding | N/A | 08/01/2021 | Extensive precipitation and localized flooding | |
| Thunderstorm/Microburst | N/A | 6/22/2021 | Wind Gusts 59 mph | |
| Thunderstorm/Severe Winds | N/A | 5/01/2021 | Wind Gusts to 62 mph, small hail | |
| High Winds | N/A | 3/29/2021 | Wind Gusts to 60 mph | |
| High Winds | N/A | 2/26/2021 | Wind Gusts to 50-59 mph | |
| Thunderstorm/Severe Winds | N/A | 5/30/2020 | Downed trees, powerlines, fences | |

1-10 TETRA TECH

| | FEMA | | |
|---|--------------------------------|------------------|---|
| Type of Event | Disaster # | Date | Damage Assessment |
| High Winds | N/A | 5/06/2020 | Wind Gusts to 59 mph, dust storms |
| Thunderstorm/Flash Flooding | N/A | 4/30/2020 | Street flooding caused road closures |
| Thunderstorm/Severe Winds | N/A | 10/19/2019 | Downed trees, powerlines, fences |
| Thunderstorm/Microburst | N/A | 9/05/2019 | Wind Gusts 80 mph downed trees |
| Funnel Cloud | N/A | 5/20/2019 | Strong showers, thunderstorms, localized flooding |
| Thunderstorms/Severe Winds | N/A | 8/24 & 8/30/2017 | Downed large trees, removed branches |
| Thunderstorm/Severe Winds | N/A | 6/04/2017 | Downed trees throughout area |
| Flooding –Boise River above flood stage 101 days, local stream flooding | DR-4342 | 2/2017 to 6/2017 | Public Assistance in Unincorporated Ada County: \$312,575; PA Countywide: \$4,493,792 |
| 350% of Average Snowfall – County Declaration of Emergency | County Resolution # 2200 | Winter 2016-17 | Ada County Highway District incurred major expenses during this period |
| Hailstorm | N/A | 3/21/2016 | Hail size up to 1" |
| Thunderstorm/Wind/Power Outages | N/A | 8/11/2015 | Downed trees, one vehicle damaged by a large branch |
| Thunderstorm/Wind | N/A | 8/10/2015 | Gusts at 61 mph |
| Thunderstorms/Flash Flooding | N/A | 7/08/2015 | 1"+ rainfall in less than one hour |
| Hailstorm | N/A | 5/26/2015 | Hail size up to 1.5" |
| High Winds | N/A | 03/17/2014 | Estimated gusts 60 mph |
| Severe Hail, Wind, Thunderstorm | N/A | 9/05/2013 | Road flooding up to 1' deep |
| Flood | N/A | 5/08/2012 | \$540,000.00 - Garden City + ACHD |
| High Winds/ Micro-burst | N/A | 8/21/2010 | \$36,100 |
| Highway 16 Wildfire | N/A | 7/28/2010 | No Data Available |
| High Winds | N/A | 3/29/2009 | \$36,700 |
| Oregon Trail Wildfire | N/A | 8/25/2008 | \$1,700,000.00 |
| Flood | N/A | 6/5/2006 | No Data Available |
| Flood | N/A | 5/26/2006 | No Data Available |
| Flood | N/A | 5/11/2006 | No Data Available |
| Flood | N/A | 4/5/2006 | No Data Available |
| Wildfire | N/A | 7/26/2005 | No Data Available |
| Wildfire | N/A | 7/12/2004 | No Data Available |
| Flood | N/A | 7/7/2004 | No Data Available |
| Wildfire | N/A | 7/6/2003 | No Data Available |
| Severe Storm/Thunderstorm—Wind | N/A | 7/25/2002 | Trees, powerlines down. 5,000 without power. Dust storm reduced visibility on I-84 causing 12-car pileup, 4 injured |
| Wildfire | N/A | 7/4/2002 | No Data Available |
| Wildfire | DR-1341 | 9/1/2000 | Hazardous air quality, undisclosed damage. |
| Wildfire | N/A | 7/2/2000 | No Data Available |
| Wildfire | N/A | 7/26/1999 | No Data Available |
| Wildfire | N/A | 7/19/1999 | No Data Available |
| Flood | N/A | 3/7/1999 | No Data Available |
| Severe Storm/Thunderstorm—Wind | N/A | 1/16/1999 | No Data Available |
| Severe Storm/Thunderstorm—Wind | N/A | 9/6/1998 | \$38,000.00 |
| Flood | N/A | 5/17/1998 | No Data Available |

| | FEMA | | |
|-------------------------------------|------------|------------|------------------------------|
| Type of Event | Disaster # | Date | Damage Assessment |
| Severe Hail, Wind, Thunderstorm | N/A | 4/23/1998 | \$20,000.00 |
| High Wind | N/A | 9/17/1997 | \$62,000.00 |
| Flood | DR-1177 | 9/11/1997 | No Data Available |
| Flood | DR-1154 | 7/7/1997 | No Data Available |
| Flood | N/A | 1/1/1997 | No Data Available |
| Wildfire | N/A | 8/26/1996 | No Data Available |
| Lightning/Wildfire | N/A | 7/28/1995 | No Data Available |
| Severe Storm/Thunderstorm—Wind | N/A | 4/27/1995 | \$50,500.00 |
| Severe Winter Storm/Thunderstorm | N/A | 12/1/1994 | No Data Available |
| Flood | N/A | 5/7/1993 | No Data Available |
| Winter Weather—Snow | N/A | 11/27/1992 | No Data Available |
| Winter Weather -Blizzard | N/A | 11/9/1992 | No Data Available |
| Drought | N/A | 10/1/1992 | \$1,900,000.00 – crop damage |
| Heat—Wind | N/A | 8/20/1992 | \$1,900,000 .00- crop damage |
| Winter Weather—Unusually Cold | N/A | 2/4/1989 | \$12,800.00 |
| Wildfire | N/A | 8/2/1988 | No Data Available |
| Severe Storm/Thunderstorm—Wind | N/A | 6/15/1987 | \$13,800.00 |
| Flood | N/A | 2/1/1986 | No Data Available |
| Wind | N/A | 4/15/1985 | No Data Available |
| Flood | N/A | 6/1/1983 | No Data Available |
| Hail—Wind | N/A | 8/11/1982 | \$250,000.00 |
| Flood | N/A | 2/1/1982 | No Data Available |
| Wind | N/A | 6/30/1981 | \$50,000.00 |
| High Winds | N/A | 3/29/1981 | \$35,700.00 |
| Flood | N/A | 1/5/1979 | No Data Available |
| Winter Weather—Extreme Cold | N/A | 1/1/1979 | \$61,300.00 |
| Wind | N/A | 12/15/1977 | \$25,000.00 |
| Severe Storm/Thunderstorm—Wind | N/A | 6/8/1976 | No Data Available |
| Severe Thunderstorm—Wind, Lightning | N/A | 7/29/1975 | No Data Available |
| Wind | N/A | 2/26/1974 | No Data Available |
| Flood | N/A | 5/26/1973 | No Data Available |
| Winter Weather—Freeze | N/A | 12/8/1972 | \$125,000.00 |
| Winter Weather—Wind, Snow | N/A | 1/9/1972 | \$113,600.00 |
| Strong Winds | N/A | 3/30/1971 | No Data Available |
| Flood | N/A | 1/17/1971 | No Data Available |
| Severe Hail—Wind | N/A | 6/26/1970 | \$17,200.00 |

1.6.2 Hazard Risk Ranking

Table 1-11 presents a local ranking of all hazards of concern for which this hazard mitigation plan provides complete risk assessments. As described in detail in Volume 1, the ranking process involves an assessment of the likelihood of occurrence for each hazard, along with its potential impacts on people, property and the economy. Mitigation actions target hazards with high and medium rankings.

1-12 TETRA TECH

| | Table 1-11. Hazard Risk Ranking | | | | | | | | | | |
|------|---|----|--------|--|--|--|--|--|--|--|--|
| Rank | ank Hazard Risk Ranking Score Risk Category | | | | | | | | | | |
| 1 | Extreme Weather | 33 | High | | | | | | | | |
| 2 | Wildfire | 28 | Medium | | | | | | | | |
| 3 | Flood | 18 | Medium | | | | | | | | |
| 4 | Earthquake | 16 | Medium | | | | | | | | |
| 5 | Dam/Canal Failure | 12 | Medium | | | | | | | | |
| 6 | Landslide | 12 | Medium | | | | | | | | |
| 7 | Drought | 9 | Low | | | | | | | | |
| 8 | Volcano | 6 | Low | | | | | | | | |

1.6.3 Jurisdiction-Specific Vulnerabilities

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. This section provides information on a few key vulnerabilities for this jurisdiction. Available jurisdiction-specific risk maps of the hazards are provided at the end of this annex.

Repetitive Loss Properties

Repetitive loss records are as follows:

- Number of FEMA-identified Repetitive-Loss Properties: 0
- Number of FEMA-identified Severe-Repetitive-Loss Properties: 0
- Number of Repetitive-Loss Properties or Severe-Repetitive-Loss Properties that have been mitigated: N/A

Other Noted Vulnerabilities

The following jurisdiction-specific issues have been identified based on a review of the results of the risk assessment, public involvement strategy, and other available resources:

- Critical infrastructure located in or near floodplains require mitigation actions that address a variety of issues to make the facilities more resilient and capable of maintaining continuity of operations.
- Inadequate water supply for fire suppression operations in some areas of the Wildland Urban Interface.

Mitigation actions addressing these issues were prioritized for consideration in the action plan in this annex.

1.7 STATUS OF PREVIOUS PLAN ACTIONS

Table 1-12 summarizes the actions that were recommended in the previous version of the hazard mitigation plan and their implementation status at the time this update was prepared.

| Table 1-12. Status of Previous Plan Ac | tions | | | |
|--|----------------|-----------------------|--------------|-----------------------|
| | | Removed; | Plar | ed Over to Update |
| Action Item from Previous Plan | Completed | No Longer Feasible | Check if Yes | Action # in Update |
| Action AC-001 —Evaluate the cost-effectiveness of raising the walls around the Courthouse basement entries to mitigate the threat of water coming into the basement and flooding the electrical room and generator. Include the Parking structures to the east of the courthouse in the study. Comment: Project is considered no longer feasible, remove from plan. | | ✓ | | |
| | ✓ | | | |
| Action AC-002 —Install Bypass switches to 400 Benjamin—east electrical room to allow for tie-in of a back-up Generator. Maintain essential government services during loss of power. This building is also a backup location for other county offices that could lose functionality during a flood. | • | | | |
| Comment: Bypass and generator have been installed (2019) | ı | | | |
| Action AC-003 —Perform a study to determine the most cost effective method of enhancing the back-up power at the Courthouse so that the facility could maintain full services to the public. Look into the possibility of placing the current Gen-Set on the roof of the facility to remove it from flood issues. A structural study of the building will be required. | √ | | | |
| Comment: It was determined that transferring the transformers to Idaho Power would predundancies and return to service capabilities. This action was taken in 201 | | t alternative fo | or providi | ing |
| Action AC-004 —Keep First Responder Facilities out of Flood areas wherever possible. When not possible due to response time issues, design the facilities to keep water from entering, i.e., retaining walls, raise finish floor elevations. | | | ✓ | AC-6 |
| Comment: Ongoing effort, must balance location circumstances with response times. | | | | |
| Action AC-005 —Examine and determine the most effective method to harden irrigation canals (i.e., tiling) in areas of high urban interface to prevent the flooding of residences and businesses without losing essential ground water recharge. | | | ✓ | AC-7 |
| Comment: Project requires additional coordination with irrigation facility providers. | | | | |
| Action AC-006—Maintain good standing under the National Flood Insurance Program by implementing programs that meet or exceed the minimum NFIP requirements. Such programs include but are not limited to; enforcing an adopted flood damage prevention ordinance, participating in floodplain mapping updates, and providing public assistance and information on floodplain requirements and impacts. | | | ✓ | AC-3 |
| Comment: Ongoing process to include mailings to floodplain residents, insurance comp | anies and lend | ders. | | |
| Action AC-007 —Assess and prioritize non-structural seismic retrofit needs of Countyowned facilities. Once appropriate, cost-effective retrofit measures have been identified, implement the actions based on available funding and resources. | | | ✓ | AC-8 |
| Comment: Projects are assessed on an as needed basis as part of budgeted building mas been identified as of yet. | aintenance ar | nd remodeling | g. No ma | ior retrofit |
| Action AC-008—Continue outreach to Irrigation Districts in an effort to encourage their participation in the Mitigation Plan as planning partners. | ou of Deale | tion. | ✓ | AC-9 |
| Comment: This will be on ongoing action that will include coordination with the US Bure | au of Reciama | ниоп. | , | A O 40 |
| Action AC-009—Consider appropriate higher regulatory standards that prevent or reduce risk to the built environment from the known hazards of concern. | | | √ | AC-10 |
| Comment: Continuing review of national standards and adoption of relevant codes to re | auce risk. | | | |

1-14 TETRA TECH

| | | Removed; | | ed Over to Update |
|---|------------------|-----------------------|-------------|-----------------------|
| Action Item from Previous Plan | Completed | No Longer Feasible | | Action # in Update |
| Action AC-010 —Maintain an active Public Outreach strategy using the web, social media, emails and public presentations to inform the public how to personally prepare for and mitigate the hazards of concern. | | | ✓ | AC-11 |
| Comment: This is a constant process conducted by Ada County Emergency Managemer Community Outreach Specialist conducts in-person presentations, writes a number public through the agency website and social media platforms: Facebook, Two | nonthly prepai | edness point | | |
| Action AC-011—Maintain emergency alert phone system to notify residents of evacuations orders and procedures during a natural hazard event. | | | ✓ | AC-12 |
| Comment: Ada County Dispatch maintains CodeRed, an IPAWS enabled platform, to co | onduct Comm | unity Mass N | otification | |
| Action AC-012 — Perform a study to determine the feasibility of creating Open Space and Mitigation District. The district would manage acquired lands using practices that balanced the needs of community open space and recreation with appropriate mitigation activities that reduce or eliminate 3 known hazards of concern. Purposed activities include but are not limited to the maintenance of lands purchased in the floodplain, slope stabilization through low biomass native vegetation projects and the creation and maintenance of fire safe buffers in the WUI. | | | \ | AC-13 |
| Comment: At this time, funding for such a district has not been identified. | | | | |
| Action AC-013 —Participate in Dam Failure and high water release exercises conducted by Army Corps of Engineers | | | ✓ | AC-14 |
| Comment: The agency participates in annual exercises conducted by either USACE or | BOR. | | | |
| Action AC-014 —Maintain an active dialogue with all the partners involved in the release rates of water from Lucky Peak Dam. Continue to seek a balance in the regulated flows that meets the needs of agricultural water users, flood control for urban areas and river recreationists. | | | √ | AC-15 |
| Comment: EMCR maintains an active dialogue with both USACE and the BOR. One of Idaho Silver Jackets. | the primary po | oints of conta | ct is throu | ugh the |
| Action AC-015 —Continue to maintain/enhance the County's classification under the Community Rating System. | | | ✓ | AC-16 |
| Comment: Ada County actively pursues this goal through emergency, mitigation and co | mmunity planı | ning. | 1 | |
| Action AC-016 —Integrate Multi-Hazard Mitigation Plan into the 2016 update to the Ada County Comprehensive Plan. | ✓ | | | |
| Comment: Key elements of the Mitigation Plan were included in the Ada County 2025 C | omprehensive | e Plan Update | 9. | |
| Action AC-017—Where appropriate, support retrofitting, purchase, or relocation of structures located in hazard-prone areas to protect structures from future damage, prioritizing properties with a history of repetitive loss or very high exposure to risk. | | | ✓ | AC-1 |
| Comment: No buildings have been identified at this time. | | | | 10.17 |
| Action AC-018—Support County-wide initiatives identified in Volume 1. | | | ✓ | AC-17 |
| Comment: Continue in the plan update | | | , | 40.0 |
| Action AC-019 —Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Volume 1. | | | √ | AC-2 |
| Comment: BATool purchased and implemented as a means of streamlining this process | s tor all partne | rs. | | |
| Action AC-020 —Where appropriate, relocate or harden governmental records and service facilities currently located in hazard-prone areas. If the facilities cannot be relocated, determine and employ the most cost-effective methodologies to protect facilities from future potential damage caused by the known hazards of concern. Comment: Records are in process of being digitized and maintained on servers outside | | | ✓ | AC-18 |

| | | Removed; | Carried Over to Plan Update | |
|---|-----------|-----------------|--------------------------------|-----------------------|
| Action Item from Previous Plan | Completed | | Check if Yes | Action # in Update |
| Action AC-021—Evaluate flood, Dam Failure and earthquake risk to all Paramedic Stations and identify cost-effective solutions to mitigate those risks. Comment: Tools have been developed to perform initial study. | | | ✓ | AC-19 |
| Action AC-022 —Identify and install appropriate resources to ensure Barber Dam operations are uninterrupted by a loss of power. Solutions include a SCADA (supervisory control and data acquisition) system upgrade and/or backup power (generator, battery etc.). | | ✓ | | |
| Comment: This project has been reviewed and found not to be feasible. | | | | |
| Action AC-O23 —Whenever possible, coordinate with local experts and employ natural environmental processes in mitigation activities that increase ecosystem resilience and reduce the impacts of flooding on the built environment. | | | ✓ | AC-20 |
| Comment: Ongoing process, work to restore banks after 2017 flooding is being conduct repairs have been completed and included green solutions where applicable. | | nce with this i | initiative. | Most of the |

1.8 HAZARD MITIGATION ACTION PLAN

Table 1-13 lists the identified actions, which make up the hazard mitigation action plan for this jurisdiction. Table 1-14 identifies the priority for each action. Table 1-15 summarizes the mitigation actions by hazard of concern and mitigation type.

| Table 1-13. Hazard Mitigation Action Plan Matrix | | | | | | | | | | | |
|---|---------------------------|---|------------------------|----------------------|---|-----------------------|--|--|--|--|--|
| Benefits New or Existing Assets | Objectives Met | Lead Agency | Support Agency | Estimated Cost | Sources of Funding | Timeline ^a | | | | | |
| Action AC-1 —Where appropriate, support retrofitting, purchase or relocation of structures located in hazard areas, prioritizing those that have experienced repetitive losses and/or are located in high- or medium-risk hazard areas. | | | | | | | | | | | |
| Hazards Mitigated: | Wildfire, Extreme We | ather, Flood, Earth | quake, Dam/Canal F | ailure, Landslide | | | | | | | |
| Existing | 3, 8, 9 | Ada County Planning and Development Services | EMCR | High | HMGP, BRIC, FMA, Increased Cost of Compliance (ICC) | Short-term | | | | | |
| Action AC-2—Acti | vely participate in the p | lan maintenance pr | otocols outlined in Vo | olume 1 of this haza | ard mitigation plan. | | | | | | |
| Hazards Mitigated: | Wildfire, Extreme We | ather, Flood, Earth | quake, Dam/Canal F | ailure, Landslide, D | rought, Volcano | | | | | | |
| New & Existing | All | EMCR | N/A | Low | Staff Time, General Funds | Short-term | | | | | |
| Action AC-3—Continue to maintain good standing and compliance under the NFIP through implementation of floodplain management programs that, at a minimum, meet the NFIP requirements: • Enforce the flood damage prevention ordinance. • Participate in floodplain identification and mapping updates. • Provide public assistance/information on floodplain requirements and impacts. Hazards Mitigated: Flood | | | | | | | | | | | |
| New & Existing | 2, 3, 4, 6, 8, 9 | Ada County Planning and Development Services | N/A | Low | Staff Time, General Funds | Ongoing | | | | | |

1-16 TETRA TECH

| Benefits New or Existing Assets | Objectives Met | Lead Agency | Support Agency | Estimated Cost | Sources of Funding | Timeline ^a |
|-------------------------------------|--|------------------------------------|----------------------------|-----------------------------|------------------------------------|-----------------------|
| | ordinate with communit | | | | · | |
| | d improve community r | esilience in relation | to future climate con- | | | , , |
| Hazards Mitigated: | Drought, Flood, Extre | | ire | | l <u></u> | |
| New & Existing | 2, 3, 4,6, 9, 10 | EMCR | N/A | Low | Staff Time, General Funds | Ongoing |
| | ntify and install the mos utions may vary based | | | | | |
| Hazards Mitigated: | Flood, Extreme Wea | ther, Earthquake | | | | |
| Existing | 1, 3, 10 | Ada County Operations Dept. | N/A | Medium | Ada County, BRIC, FMA | Ongoing |
| design the facilities | ep First Responder Fac to keep water from ent Flood, Extreme Wea | tering, i.e., retaining | | | ble due to response | time issues, |
| New & Existing | 1,10 | Ada County Operations | N/A | Medium | Ada County, BRIC, FMA | Ongoing |
| | ing of residences and I Flood, Extreme Wea 1, 2, 9, 10 | | - | nd water recharge. High | Ada County Irrigation Districts | Long-term |
| | sess and prioritize non- ave been identified, imp | structural seismic re | | | | ost-effective |
| Hazards Mitigated: | · | | | | ••• | |
| Existing | 1, 2, 3 | Ada County Operations Dept. | N/A | Medium | Ada County, BRIC | Long-term |
| Action AC-9— Corportners. | ntinue outreach to Irriga | ation Districts in an | effort to encourage th | eir participation in t | the Mitigation Plan a | as planning |
| | Flood, Extreme Wea | | | | | |
| Existing | 6, 9, 10 | EMCR | N/A | Low | Ada County | Ongoing |
| | etermine feasibility of a ne known hazards of co | | higher regulatory sta | indards that preven | it or reduce risk to th | ne built |
| | | | guake, Dam/Canal Fa | ailure, Landslide, D | rought | |
| New and Existing | 4, 5, 6 | Ada County | N/A | Low | Ada County | Ongoing |
| | aintain an active Public nally prepare for and n | | | media, emails and | public presentation | s to inform the |
| Hazards Mitigated: New and Existing | Wildfire, Extreme We 2, 8, 9 | eather, Flood, Earth EMCR | quake, Dam/Canal Fa N/A | ailure, Landslide, D Low | rought EMCR | Ongoing |
| | aintain emergency aler | | | cuations orders and | | |
| Hazards Mitigated: Existing | Wildfire, Extreme We | eather, Flood, Earth Ada County | quake, Dam/Canal Fa | ailure, Landslide, D Low | rought Ada County | Ongoing |
| - | | Dispatch | | | Dispatch | |

| Benefits New or Existing Assets | Objectives Met | Lead Agency | Support Agency | Fetimated Cost | Sources of Funding | Timeline ^a |
|---|--|---|--|--|--|--------------------------------------|
| | | | | · | · | |
| District. The district appropriate mitigat maintenance of lan maintenance of fire | erform a socioeconomic t would manage acquire ion activities that reduc- ids purchased in the flo e safe buffers in the WU | ed lands using pract e or eliminate 3 kno odplain, slope stabil I. | ices that balanced th wn hazards of conce | e needs of commu rn. Purposed activit | nity open space an ties include but are | d recreation with not limited to the |
| | Flood, Wildfire, Land | | | | | |
| New | 3, 4, 6, 9 | Partnership of jurisdictions and academia | N/A | Medium | Partnership of jurisdictions, BRIC | Long-term |
| Action AC-14— Pa | articipate in Dam Failur | e and high water re | lease exercises cond | ucted by Army Cor | ps of Engineers | |
| Hazards Mitigated: | Flood, Dam/Canal Fa | ailure | | | | |
| Existing | 2, 9 | EMCR | N/A | Low | EMCR | Ongoing |
| | laintain an active dialog in the regulated flows th Dam/Canal Failure, F | at meets the needs | | | | |
| New and Existing | 2, 9 | EMCR | N/A | Low | EMCR | Ongoing |
| | ontinue to maintain/enh | | | | | |
| Hazards Mitigated: | | | | | .9 -, | |
| New and Existing | 3, 4, 5, 6, 8 | Ada County Planning and Development Services | N/A | Low | Ada County | Ongoing |
| Action AC-17— S | upport County-wide init | | /olume 1. | ı | ı | I |
| | Wildfire, Extreme We | | | ailure. Landslide. D | rought. Volcano | |
| New and Existing | All | EMCR | N/A | Low | Ada County | Short-term |
| areas. If the facilities potential damage of | here appropriate, reloces cannot be relocated, caused by the known har Wildfire, Extreme We | determine and emparate of concern. | oloy the most cost-eff | ective methodologic | | |
| Existing | 1, 3, 10 | Ada County | EMCR | High | FEMA Hazard | Long-term |
| LAISTING | 1, 6, 10 | Planning and Development Services | LMOR | i ligit | Mitigation Grant Programs, ICC | Long tom |
| Action AC-19— E | valuate flood, dam/cana | al failure and earthq | uake risk to all Paran | nedic Stations and | identify cost-effecti | ve solutions to |
| mitigate those risks | | | | | | |
| Hazards Mitigated: | · | ailure, Earthquake | | | | |
| Existing | 1, 3, 10 | Ada County Emergency Medical Services District (ACEMSD) | N/A | Medium | ACEMSD, BRIC, FMA | Short-term |

1-18 TETRA TECH

| Existing Assets | Objectives Met | Lead Agency | Support Agency | Estimated Cost | Sources of Funding | Timeline ^a | | | | | |
|--|---|--|--|--|--|---|--|--|--|--|--|
| | /henever possible, coor | <u> </u> | | | | | | | | | |
| | ystem resilience and red | | | | processo in minge | | | | | | |
| lazards Mitigated: | Flood, Dam/Canal Fa | ailure | | | | | | | | | |
| New and Existing | 2, 5, 9 | Ada County | N/A | Medium | Ada County, BRIC, FMA, Idaho Water Resources Board (IWRB) | Ongoing | | | | | |
| Action AC-21— Update the Black's Creek Reservoir breach analysis and the resulting downstream flood inundation map using the most recent, highest resolution GIS data available. The model suggested for use should be HEC-RAS or an equivalent two-dimensional mode that can satisfactorily recognize and address the hydrologic interactions with all natural and constructed geographic features that are ocated downstream of the facility. The breach analysis will model the reservoir at a full pool condition and will include two (2) scenarios consisting of (1) a non-flood failure (aka "sunny day"), and (2) a flood event failure during the 1% inflow design flood (aka 100-year flood Hazards Mitigated: Flood, Dam/Canal Failure | | | | | | | | | | | |
| lew and Existing | 2, 6, 7, 8, 9 | EMCR | City of Meridian | Medium | BRIC, FMA | Short-term | | | | | |
| lazards Mitigated | Flood, Soil Erosion, I | | I | | l I | | | | | | |
| | 6 10 | Ada County | N/A | Low | American | Short-term | | | | | |
| Existing | 6, 10 | Ada County Operations Dept. | N/A | Low | American Rescue Plan Act (ARPA) 2021 | Short-term | | | | | |
| Existing Action AC-23— Pand. The project wround with natura | 6, 10 lan and complete a proj vill safely remove the str I solutions (i.e., native g | Operations Dept. ect to remove the h ructures, reduce floc grasses) to prevent of | orse barns located w od risk, remove poten erosion. | ithin the floodway c | Rescue Plan Act (ARPA) 2021 of the Boise River o | n Expo Idaho | | | | | |
| Existing Action AC-23— Pand. The project was pround with natura | lan and complete a proj vill safely remove the str I solutions (i.e., native g | Operations Dept. ect to remove the houctures, reduce floorgrasses) to prevent of | orse barns located w od risk, remove poten erosion. | ithin the floodway c | Rescue Plan Act (ARPA) 2021 of the Boise River o | n Expo Idaho oilize the bare | | | | | |
| Existing Action AC-23— Pand. The project was pround with natura Hazards Mitigated: Existing Action AC-23— Was along Unincorpora | lan and complete a proj vill safely remove the str I solutions (i.e., native g Flood, Soil Erosion, S | Operations Dept. Lect to remove the hard tructures, reduce floor grasses) to prevent of Surface Water Cont. Ada County Operations Dept. Lood Control District (1), including a Digital linates with Flood Control C | orse barns located wood risk, remove potenerosion. amination N/A #10 to develop a chail Elevation Model of ontrol District #10 Ac | ithin the floodway on the floodway of the floo | Rescue Plan Act (ARPA) 2021 of the Boise River of the Boise Plan and Stall ARPA 2021 anagement plan, level a | Short-term | | | | | |
| Existing Action AC-23— Pand. The project waround with natura dazards Mitigated: Existing Action AC-23— Was action AC- | lan and complete a proj vill safely remove the str I solutions (i.e., native g Flood, Soil Erosion, S 3, 6, 9, 10 Vork with Boise River Flogement Tool (2-D BRMT ted Ada County. (Coord | Operations Dept. Lect to remove the hard tructures, reduce floor grasses) to prevent of Surface Water Cont. Ada County Operations Dept. Lood Control District (1), including a Digital linates with Flood Control C | orse barns located wood risk, remove potenerosion. amination N/A #10 to develop a chail Elevation Model of ontrol District #10 Ac | ithin the floodway on the floodway of the floo | Rescue Plan Act (ARPA) 2021 of the Boise River of the Boise Plan and Stall ARPA 2021 anagement plan, level a | n Expo Idaho oilize the bare Short-term veraging the | | | | | |
| Existing Action AC-23— Pand. The project waround with natura dazards Mitigated: Existing Action AC-23— Was a River Manager of Mitigated: New & Existing Action AC-24— In | lan and complete a proj vill safely remove the str I solutions (i.e., native g Flood, Soil Erosion, S 3, 6, 9, 10 Vork with Boise River Flogement Tool (2-D BRMT ted Ada County. (Coord Flood, Soil Erosion, S 2, 6, 8, 9, 10 | Operations Dept. Dect to remove the hard tructures, reduce floor grasses) to prevent of Surface Water Control District (a), including a Digital dinates with Flood Control Co | orse barns located wood risk, remove potenterosion. amination N/A #10 to develop a charted and the control District #10 Accamination Flood Control District #10 | Low Innel and gravel madifference (DoD) mation FCD10-15) | Rescue Plan Act (ARPA) 2021 of the Boise River of the Boise River of the Pollution, and stale anagement plan, level appears and biomass more appears of the Pollution of the Boise River of the Boise Rive | n Expo Idaho bilize the bare Short-term veraging the bodel in the rive | | | | | |
| Existing Action AC-23— Pand. The project waround with natural dazards Mitigated: Existing Action AC-23— Was a long Unincorporal dazards Mitigated: New & Existing | lan and complete a proj vill safely remove the str I solutions (i.e., native g Flood, Soil Erosion, S 3, 6, 9, 10 Vork with Boise River Flogement Tool (2-D BRMT ted Ada County. (Coord Flood, Soil Erosion, S 2, 6, 8, 9, 10 | Operations Dept. Dect to remove the hard tructures, reduce floor grasses) to prevent of Surface Water Control District (a), including a Digital dinates with Flood Control Co | orse barns located wood risk, remove potenterosion. amination N/A #10 to develop a charted and the control District #10 Accamination Flood Control District #10 | Low Innel and gravel madifference (DoD) mation FCD10-15) | Rescue Plan Act (ARPA) 2021 of the Boise River of the Boise River of the Pollution, and stale anagement plan, level appears and biomass more appears of the Pollution of the Boise River of the Boise Rive | n Expo Idaho oilize the bare Short-term veraging the odel in the rive | | | | | |

TETRA TECH 1-19

Acronyms used here are defined at the beginning of this volume.

| Table 1-14. Mitigation Action Priority | | | | | | | | |
|--|---------------------------|----------|--------|---|-----------------------------------|---|---|---|
| Action # | # of Objectives Met | Benefits | Costs | Do Benefits Equal or Exceed Cost? | ls Project Grant- Eligible? | Can Project Be Funded Under Existing Programs/ Budgets? | Implementation Priority ^a | Grant Pursuit Priority ^a |
| 1 | 3 | High | High | Yes | Yes | No | Medium | High |
| 2 | 10 | Medium | Low | Yes | No | Yes | High | Low |
| 3 | 6 | Medium | Low | Yes | No | Yes | High | Low |
| 4 | 6 | Medium | Low | Yes | No | Yes | High | Low |
| 5 | 3 | Medium | Medium | Yes | Yes | Yes | Medium | Medium |
| 6 | 3 | Medium | Medium | Yes | Yes | No | Low | Low |
| 7 | 4 | High | High | Yes | Yes | No | Low | Low |
| 8 | 3 | Medium | Medium | Yes | Yes | No | Medium | Medium |
| 9 | 3 | Low | Low | Yes | No | Yes | Low | Low |
| 10 | 3 | Medium | Low | Yes | No | Yes | High | Low |
| 11 | 3 | Medium | Low | Yes | No | Yes | High | Low |
| 12 | 2 | Medium | Low | Yes | Yes | Yes | High | Low |
| 13 | 4 | High | High | Yes | Yes | No | Medium | Medium |
| 14 | 2 | Low | Low | Yes | No | Yes | High | Low |
| 15 | 2 | Medium | Low | Yes | No | Yes | High | Low |
| 16 | 5 | Medium | Low | Yes | No | Yes | High | Low |
| 17 | 10 | Medium | Low | Yes | Yes | Yes | High | Low |
| 18 | 3 | High | High | Yes | Yes | No | Medium | Medium |
| 19 | 3 | Medium | Medium | Yes | Yes | No | Medium | Medium |
| 20 | 3 | High | Medium | Yes | Yes | No | Medium | High |
| 21 | 5 | Medium | Medium | Yes | Yes | No | Medium | High |
| 22 | 2 | Medium | Low | Yes | Yes | Yes | High | Low |
| 23 | 4 | Medium | Low | Yes | Yes | Yes | High | Low |
| 24 | 3 | Medium | Low | Yes | No | Yes | High | Low |

a. See the introduction to this volume for explanation of priorities.

| | Table 1-15. Analysis of Mitigation Actions | | | | | | | | | | | |
|--------------------|--|---|------------------------------------|-----------------------------------|-----------------------|------------------------|-----------------------|---|--|--|--|--|
| | | Action Addressing Hazard, by Mitigation Type ^a | | | | | | | | | | |
| Hazard Type | Prevention | Property Protection | Public Education & Awareness | Natural Resource Protection | Emergency Services | Structural Projects | Climate Resilience | Community Capacity Building ^b | | | | |
| High-Risk Ha | zards | | | | | | | | | | | |
| Extreme Weather | AC-10 | AC-1, 6, 18 | AC-9, 11 | AC-7, 23 | AC-5, 12 | AC-22, 23 | AC-4, 7 | AC-2, 4, 7, 17, 24 | | | | |
| Medium-Risk | Hazards | | | | | | | | | | | |
| Wildfire | AC-10 | AC-1, 18 | AC-11 | | AC-12 | | AC-4 | AC-2, 4, 13, 17, 24 | | | | |
| Flood | AC-3, 10, 16 | AC-1, 6, 16, 18, 19 | AC-3, 9, 11, 16 | AC-7, 15, 20, 23 | AC-5, 12 | AC-22, 23 | AC-4, 7 | AC-2, 3, 4, 7, 13, 14, 15, 16, 17, 20, 21, 24 | | | | |

1-20 TETRA TECH

| | | Action Addressing Hazard, by Mitigation Type ^a | | | | | | | |
|----------------------|------------|---|------------------------------------|-----------------------------------|-----------------------|------------------------|-----------------------|---|--|
| Hazard Type | Prevention | Property Protection | Public Education & Awareness | Natural Resource Protection | Emergency Services | Structural Projects | Climate Resilience | Community Capacity Building ^b | |
| Earthquake | AC-10 | AC-1, 8, 18, 19 | AC-11 | AC-7 | AC-5, 12 | | AC-7 | AC-2, 7, 8, 17, 24 | |
| Dam/Canal Failure | AC-10 | AC-1, 18, 19 | AC-11 | AC-15, 20 | AC-12 | | | AC-2, 14, 15, 17, 20, 21, 24 | |
| Low-Risk Ha | zards | | | | | | | | |
| Landslide | AC-10 | AC-1, 18 | AC-11 | | AC-12 | | | AC-2, 13, 17, 24 | |
| Drought | AC-10 | | AC-11 | AC-7, 15 | AC-12 | | AC-4, 7 | AC-2, 4, 7, 15, 17, 24 | |
| Volcano | | | | | | | | AC-2, 17 | |

a. See the introduction to this volume for explanation of mitigation types.

1.9 PUBLIC OUTREACH

Table 1-16 lists public outreach activities for this jurisdiction.

| Table 1-16. Local Public Outreach | | | | | |
|--|-------------------|------------------------------|--|--|--|
| Local Outreach Activity | Date | Number of People Involved | | | |
| Social Media-Plan Update, Twitter/Facebook/NEXTDOOR | 08/16/2021 | 7,000 | | | |
| Social Media- Mitigation Preparedness Pointer, Twitter/Facebook/NEXTDOOR | 02/01/2022 | 6,200 | | | |
| Emergency Preparedness and Disaster Mitigation Booth at Micron | May 16 & 20, 2022 | 161 | | | |

1.10 INFORMATION SOURCES USED FOR THIS ANNEX

The following technical reports, plans, and regulatory mechanisms were reviewed to provide information for this annex.

- 2017 Ada County Multi-Hazard Mitigation Plan The previous HMP was reviewed to update this annex.
- Ada County Zoning Ordinance (Ordinance Number 389, 6-14-2000 with amended sections) The
 municipal code was reviewed for the full capability assessment and for identifying opportunities for
 action plan integration.
- Ada County Building Code Ordinance (Ordinance Number 396, 10-16-2000 with amended sections)
 The municipal code was reviewed for the full capability assessment and for identifying opportunities for action plan integration.
- Flood Hazard Overlay District (Ordinance Number 914, 6-10-2020) Flood Damage Prevention Ordinance—The flood damage prevention ordinance was reviewed for compliance with the National Flood Insurance Program.

b. In addition to the community capacity building actions listed in this table, this jurisdiction is expanding its financial capabilities through its participation in and adoption of this hazard mitigation plan, which establishes grant-funding eligibility.

- Wildland-Urban Fire Interface Overlay District (Ordinance Number 699, 6-18-2008) The municipal code was reviewed for the full capability assessment and for identifying opportunities for action plan integration.
- Hillside Overlay District (Ordinance Number 766, 12-8-2010 The municipal code was reviewed for the full capability assessment and for identifying opportunities for action plan integration.

The following outside resources and references were reviewed:

- Hazard Mitigation Plan Annex Development Toolkit—The toolkit was used to support the identification of past hazard events and noted vulnerabilities, the risk ranking, and the development of the mitigation action plan.
- **FEMA Regional Flood Insurance Liaison** The liaison was used to obtain the most up to date FEMA Flood Insurance Policy numbers for unincorporated Ada County.

1-22 TETRA TECH

2. CITY OF BOISE

2.1 LOCAL HAZARD MITIGATION PLANNING TEAM

Primary Point of Contact

Mallory Wilson, Emergency Preparedness Coordinator 333 N. Mark Stall Place Boise, ID 83704

Telephone: 208-570-6552

e-mail Address: mgwilson@cityofboise.org

Alternate Point of Contact

Romeo Gervais, Assistant Fire Chief 333 N. Mark Stall Place Boise, ID 83702

Telephone: 208-570-6567

e-mail Address: rgervais@cityofboise.org

This annex was developed by the local hazard mitigation planning team, whose members are listed in Table 2-1.

| Table 2-1. Local Hazard Mitigation Planning Team Members | | | | |
|--|---------------------------------------|--|--|--|
| Name | Title | | | |
| Mallory Wilson | Emergency Preparedness Coordinator | | | |
| Rachel Holford | Emergency Preparedness Senior Manager | | | |
| Jason Blais | Building Official Senior Manager | | | |
| Jim Pardy | City Engineer | | | |
| Doug Rhinehart | Public Works Project Coordinator | | | |
| Sara Arkle | Parks Resources Superintendent | | | |
| Jerry McAdams | Wildfire Mitigation Specialist | | | |
| Amy Parrish | Climate/Energy Data Analyst | | | |

2.2 JURISDICTION PROFILE

2.2.1 Location and Features

The City of Boise is located in southwestern Idaho and northeastern Ada County in a region coined as the Treasure Valley. It is situated within the Boise River Valley at the base of the foothills of the Salmon River Mountains to the north and east. The Boise River traverses the city and is an aesthetic and recreational focal point of the community. The City is also crossed from east to west by a series of geological benches that step up in elevation from the Boise River, each bench representing a previous location of the Boise River floodplain in historic geologic time. A series of major irrigation canals generally follow the contours of the benches, bringing water from the Boise River to outlying farm fields. The extensive irrigation canal system represents a major physical reminder of Boise's agricultural past and the continuing agricultural economy in the western portion of

the Treasure Valley. The southernmost portions of Boise extend into the high desert of the Snake River Plain and are characterized by basaltic soils and formations.

Boise is approximately 350 miles east of the Pacific Ocean, but local climate is shaped in part by maritime influences. In general, the Boise area has a relative mild climate for its northerly latitude. Summers are hot and winters cold, but below zero weather occurs infrequently. The growing season in Boise is 159 day, which again is substantial in relation to latitude. However, even the growing season can vary locally depending upon location within the valley, bench or foothills areas. On average, Boise receives approximately 13-inches of precipitation annually, mostly in the form of winter snow.

2.2.2 History

When trappers and fur traders first began visiting the Boise area in the early 1800s, Indian villages already existed along the Boise River. Fur trading continued as the prominent activity in the area until about 1835. Fort Boise was constructed by the Hudson Bay Company as a stockade in 1834. The original Fort Boise was abandoned in 1855 due to the decline of fur trading in the area.

The discovery of gold in the Boise Basin in 1862 instigated an immediate influx of prospectors and other settlers into the area. As a result of renewed growth, Fort Boise was reestablished in 1863 as an American Military post to protect the settlers. In 1863, a group of early citizens laid out a town-site that included a main road running north of and parallel to the Boise River with several blocks on each side. At this time, Boise was first suggested as the name of the growing community.

The Idaho territory was created by the federal government in 1863. Though Lewiston was initially designated as the territorial capital; that function was relocated to Boise in 1864. This was also the year Boise incorporated as a City. Idaho became the 43rd state in 1890, which further stimulated settlement in the Boise Valley. By 1900, Boise was a thriving community of 6,000 people. The completion of Arrowrock Dam in 1915 opened the valley irrigated farming and helped build the economic base of the community.

Boise continued to grow as a center for farming and mining activities in the region. In the early days, most employment was in retail trade, wholesaling and supply, services and agriculture. Employment in manufacturing and government increased slowly during the first few decades of the 20th century. The population of Boise grew from 6,000 in 1900 to over 205,000 in 2010, with high rates of growth occurring in the 1960s, 1970s, 1990s and the mid- 2000s. The expansion of manufacturing and government fueled much of the growth in the 1970s through early 1990s with Hewlett Packard Company and Micron constructing major electronics manufacturing facilities. Migration from other states, both for jobs and for lifestyle purposes, was a large part of the growth.

In the mid-1980s, downtown redevelopment projects, construction of the regional mall, and a booming housing industry were signs of strong and sustained growth leading into the 1990s. Boise continued to grow quickly throughout the 1990s with annual growth rates as high as 5%. The city experienced a decline in growth rate in the early 2000s with the technology market crash and 9/11, and then rebounded with extremely rapid growth at middecade. Growth within Boise has resumed and grown in the last five years.

2.2.3 Governing Body Format

Boise City has a strong Mayor and City Council form of government. The Mayor presides over City Council meetings, has the power to appoint, and serves as the City Manager. All legislative actions are adopted by the City

2-2 TETRA TECH

Council. Other boards and commissions are appointed to decide non-legislative items and/or make recommendations to the City Council.

The City Council is responsible for the adoption of this plan, City Staff is responsible for its implementation.

2.3 CURRENT TRENDS

2.3.1 Population

According to COMPASS, the population of the City of Boise as of April 2022 was 243,570. Since 2017, the population has grown at an average annual rate of 1.3 percent.

2.3.2 Development

Total building permits have stayed at a high level since 2016, with a temporary slowdown in 2020 as the pandemic set in (a high level of development resumed in the spring of 2021). Construction costs have increased significantly, which is reflected in permit values, and land values are significantly higher as well. Total permit counts since 2016 have increased, mainly due to trade permits (e.g., plumbing or electrical), commercial tenant improvement permits, and more home remodeling projects given rapid home price appreciation. Despite a significant housing shortage, new construction permits for single-family housing have stayed more or less level given limited tracts of undeveloped land within Boise compared to neighboring cities and rural county areas. Much infill development has occurred, which limits how much more can occur in the future. Downtown Boise has seen significant growth with numerous large commercial projects, many of which are large, multi-story multifamily projects. Growth in multifamily development is expected to continue. Commercial development has slowed somewhat with the pandemic and remote work, but given Boise's recent growth, and continuing inmigration, it is expected to continue at a robust level for the foreseeable future. In sum, development is expected to continue at a high level, but the composition may change as Boise continues to urbanize and build upward, with limited potential to build outward.

Future growth is anticipated south of the city, with development near the airport, in previously undeveloped areas, and potential annexation of new areas for both housing and commercial development. Additional foothills development is expected to be limited. Development east and southeast of the city, into undeveloped areas, is also likely to occur, though for the near term may be limited. Table 2-2 summarizes development trends in the performance period since the preparation of the previous hazard mitigation plan.

| Table 2-2. Recent and Expected Future Development Trends | | | | |
|---|---------------------------------|----------|--|--|
| Criterion | | Response | | |
| Has your jurisdiction annexed any land since the preparation of the previous hazard mitigation plan? | | | | |
| If yes, give the estimated area annexed and estimated number of parcels or structures. Estimate 500 or fewer acres annexed, and 250 or fewer buildings of structures. | | | | |
| Is your jurisdiction expected to annex any areas during the performance period of this plan? If yes, describe land areas and dominant uses. Mainly housing on the south/southwest side of the city, with so commercial/industrial also being added. | | | | |
| If yes, who currently has permitting authority over these areas? | Planning & Development Services | | | |

| Criterion | | | | Res | Response | |
|---|--|-----------------|-----------------|---------------------|-----------------|-----------------|
| Are any areas targeted for development or major redev If yes, briefly describe, including whether any of the areas are in known hazard risk areas | development in the next five years? Yes | | | | | |
| How many permits for new construction were issued in your jurisdiction since the preparation of the | Single Family | 2016 696 | 2017 726 | 2018 711 | 2019 704 | 2020 682 |
| previous hazard mitigation plan? | Multi-Family | 58 | 50 | 34 | 40 | 41 |
| | Other | 116 | 137 | 105 | 105 | 76 |
| | Total | 870 | 913 | 850 | 849 | 799 |
| Provide the number of new-construction permits for each hazard area or provide a qualitative description of where development has occurred. | Special Flood Hazard Areas: Limited development in or near the river corridor, both residential and commercial. Landslide: Housing in one such area of foothills was abandoned – limited housing had been built there. High Liquefaction Areas: N/A Wildfire Risk Areas: Some in the foothills on the north and east/southeast sides of the city, and in undeveloped land to the southeast. | | | | | |
| Describe the level of buildout in the jurisdiction, based on your jurisdiction's buildable lands inventory. If no such inventory exists, provide a qualitative description. | Significant infill has occurred and limited areas to build upon remain. Without | | | e built The city | | |

2.4 CAPABILITY ASSESSMENT

This section describes an assessment of existing capabilities for implementing hazard mitigation strategies. The introduction at the beginning of this volume of the hazard mitigation plan describes the components included in the capability assessment and their significance for hazard mitigation planning.

Findings of the capability assessment were reviewed to identify opportunities to expand, initiate or integrate capabilities to further hazard mitigation goals and objectives. Where such opportunities were identified and determined to be feasible, they are included in the action plan. The "Analysis of Mitigation Actions" table in this annex identifies these as community capacity building mitigation actions. The findings of the assessment are presented as follows:

- An assessment of planning and regulatory capabilities is presented in Table 2-3.
- Development and permitting capabilities are presented in Table 2-4.
- An assessment of fiscal capabilities is presented in Table 2-5.
- An assessment of administrative and technical capabilities is presented in Table 2-6.
- An assessment of education and outreach capabilities is presented in Table 2-7.
- Information on National Flood Insurance Program (NFIP) compliance is presented in Table 2-8.
- Classifications under various community mitigation programs are presented in Table 2-9.

2-4 TETRA TECH

| | Table 2-3. Planning a | nd Regulator | y Capability | | |
|--|--|-----------------------------------|---------------------------------|-------------------|-----------------------------|
| | | Local Authority | Other Jurisdiction Authority | State Mandated | Integration Opportunity? |
| Codes, Ord | inances, & Requirements | | | | |
| Building Co | ode | Yes | No | Yes | No |
| Comment: | 2018 International Building Code (IBC)/Title 9, Building 1/1/2021 2018 International Existing Building Code (IEBC)/Title Code: adopted 1/1/2021 2018 International Residential Code (IRC)/Title 9, Buil Dwelling Building Code: adopted 1/1/2021 | 9, Building Code | es and Regulations, Cl | napter 10 Existir | ng Building |
| Zoning Cod | le | Yes | No | No | Yes |
| Comment: | Title 11, Development Code | | | | |
| Subdivisior | ns | Yes | No | No | No |
| Comment: | Title 11, Development Code | | | | - |
| | Management | Yes | Yes | Yes | Yes |
| | Title 10, Public Utilities, Chapter 6, Stormwater Manag Regulations, Chapter 14, Construction Site Erosion Co National Pollutant Discharge Elimination System (NPD | ontrol, Boise sha DES) program | res responsibility with a | ACHD and othe | rs for the |
| Post-Disast | ter Recovery | No | No | No | No |
| Comment: | N/A | | | | |
| Real Estate | Disclosure | No | No | No | No |
| Comment: | Idaho Statute 55-2508 | | | | |
| Growth Mai | nagement | Yes | No | No | No |
| Comment: | Blueprint Boise, Adopted 11/2011 | | | | |
| Site Plan R | eview | Yes | No | No | No |
| Comment: | Requirement of Title 11, Development Code | | | | |
| Environme | ntal Protection | Yes | Yes | No | Yes |
| Comment: | Blueprint Boise, Adopted 11/2011, Boise River Resour Overlay Districts, Boise River System Overlay Districts | | | pted 8/21/2014 | , Waterways |
| Flood Dama | age Prevention | Yes | No | No | Yes |
| Comment: 2018 International Building Code (IBC)/Title 9, Building Codes and Regulations, Chapter 1A Building Code: adopted 1/1/2021 2018 International Residential Code (IRC)/Title 9, Building Codes and Regulations, Chapter 1B One-And-Two-Family Dwelling Building Code: adopted 1/1/2021 Title 11, Development Code | | | | | |
| Emergency | Management | Yes | Yes | No | Yes |
| Comment: | Boise City Office of Emergency Preparedness now in | place; Ada Cour | nty Emergency Manage | ement | |
| Climate Cha | ange | Yes | No | No | Yes |
| Comment: | Boise's Climate Action Roadmap 2021 | | | | |
| Other | · | No | No | No | No |
| | | | | | |

| | Local | Other Jurisdiction | State | Integration |
|---|------------------|--------------------------|-----------------|-----------------|
| | Authority | Authority | Mandated | Opportunity? |
| Planning Documents | | | | |
| General Plan | Yes | No | No | Yes |
| Is the plan equipped to provide linkage to this mitigation plan? Comment: Blueprint Boise, Adopted 11/2011 | Yes | | | |
| Capital Improvement Plan | Yes | No | No | No |
| What types of capital facilities does the plan address? All city for | | nlan | | |
| How often is the plan updated? Annual budget, with 5-year capita Disaster Debris Management Plan | Yes | No | No | No |
| Comment: Public Works Disaster Debris Operational Guidance de | | | | |
| Plan | Journeril, Frami | ing coordination with At | ia County Debi | is manayement |
| Floodplain or Watershed Plan | Yes | Yes | No | Yes |
| Comment: Ada County Multi-Hazard Mitigation Plan serves as the planning area that participate in CRS. | e Flood Manage | ement Plan of record for | all communitie | s within the |
| Stormwater Plan | Yes | Yes | Yes | Yes |
| Comment: Stormwater Management Program | | | | |
| Urban Water Management Plan | No | No | No | No |
| Comment: N/A | | | | |
| Habitat Conservation Plan | Yes | No | No | No |
| Comment: Foothills and Open Space Management Plan, Boise R | iver Resource N | Management and Maste | r Plan, Adopted | 8/21/2014 |
| Economic Development Plan | Yes | No | No | No |
| Comment: City of Boise Economic Development Strategic Plan, N | lovember 2021 | | | |
| Shoreline Management Plan | No | No | No | No |
| Comment: Enter Comment | | | | |
| Community Wildfire Protection Plan | No | Yes | No | Yes |
| Comment: The 2017 version of this plan serves as the CWPP. In plan is being prepared to qualify as a CWPP for the Ad | | | ounty Multi-Ha. | zard mitigation |
| Forest Management Plan | Yes | No | No | No |
| Comment: 2015 Community Forestry Strategic Management Plar |) | | | |
| Climate Action Plan | Yes | No | No | Yes |
| Comment: Boise's Climate Action Roadmap, 2021 | | | | |
| Comprehensive Emergency Management Plan | Yes | Yes | No | Yes |
| Comment: 2020 City of Boise, Emergency Operations Plan | | | | |
| Threat & Hazard Identification & Risk Assessment (THIRA) | No | Yes | No | No |
| Comment: Ada County THIRA, May 2015 | | | | |
| Post-Disaster Recovery Plan | No | No | No | Yes |
| Comment: Coordination with Ada County on future development | | | | |
| Continuity of Operations Plan | Yes | No | No | No |
| Comment: City of Boise Continuity of Operations Plan in develop | | ., | | |
| Public Health Plan | No Second | Yes | No | No |
| Comment: Central District Health Department Emergency Operat | | | | A.1 |
| Other Other | No | No | No | No |
| Comment: N/A | | | | |

2-6 TETRA TECH

| Table 2-4. Development and Permitting Capability | | | | |
|---|-----|--|--|--|
| Criterion Response | | | | |
| Does your jurisdiction issue development permits? | | | | |
| If no, who does? If yes, which department? Planning and Development Services | | | | |
| Does your jurisdiction have the ability to track permits by hazard area? Yes | | | | |
| Does your jurisdiction have a buildable lands inventory? | Yes | | | |

| Table 2-5. Fiscal Capability | | | | |
|--|--------------------------------|--|--|--|
| Financial Resource | Accessible or Eligible to Use? | | | |
| Community Development Block Grants | Yes | | | |
| Capital Improvements Project Funding | Yes | | | |
| Authority to Levy Taxes for Specific Purposes | Yes | | | |
| User Fees for Water, Sewer, Gas or Electric Service | Yes | | | |
| If yes, specify: Geothermal, Solid Waste, Water Renewal (enterprise funds) | | | | |
| Incur Debt through General Obligation Bonds | Yes | | | |
| Incur Debt through Special Tax Bonds | Yes | | | |
| Incur Debt through Private Activity Bonds | Yes | | | |
| Withhold Public Expenditures in Hazard-Prone Areas | Yes | | | |
| State-Sponsored Grant Programs | Yes | | | |
| Development Impact Fees for Homebuyers or Developers | Yes | | | |

| Table 2-6. Administrative and Technical Capability | | | | |
|--|--|---------------|--|--|
| Staff/Personnel Resource | | Available? | | |
| Planners or engineers with knowledge of land development and land management practices | | | | |
| If Yes, Department /Position: | City Planning and Development Staff and Public Works Engineers | | | |
| Engineers or professionals tra | ained in building or infrastructure construction practices | Yes | | |
| If Yes, Department /Position: | City Planning Staff and Public Works Engineers | | | |
| Planners or engineers with an | understanding of natural hazards | Yes | | |
| If Yes, Department /Position: | City Planning and Development Staff and Public Works Engineers | | | |
| Staff with training in benefit/co | ost analysis | Yes | | |
| If Yes, Department /Position: | City Budget Staff | | | |
| Surveyors | | Yes | | |
| If Yes, Department /Position: | City Public Works Staff- City Surveyor | | | |
| Personnel skilled or trained in | GIS applications | Yes | | |
| If Yes, Department /Position: | City Planning and Development Staff, Public Works Staff, IT Staff, Fire Data Analyst | | | |
| Scientist familiar with natural | hazards in local area | Yes | | |
| If Yes, Department /Position: | Parks and Recreation – Foothills Restoration Specialist; Close coordination with Boise Sta Hazard and Climate Resiliency Institute | te University | | |
| Emergency manager | | Yes | | |
| If Yes, Department /Position: | City Office of Emergency Management (2 Staff) Ada County Emergency Management (EMCR) | | | |
| Grant writers | | Yes | | |
| If Yes, Department /Position: | City Police and Fire Staff, Department of Finance and Administration Budget Staff and Gra | nts Manager | | |

| Table 2-7. Education and Outreach Capability | | | |
|---|---|---|--|
| Criterion | | Response | |
| Do you have a public information officer or communications office? | | Yes – City Community Engagement Department and some departments have designated public information officers | |
| Do you have personnel | skilled or trained in website development? | Yes – IT Staff, Community Engagement Department | |
| Do you have hazard miti website? | igation information available on your | Yes | |
| If yes, briefly describe: | Wildfire and flood information on city website. Li | nks to EMCR site. | |
| Do you use social media outreach? | a for hazard mitigation education and | Yes | |
| If yes, briefly describe: | City has Facebook, Twitter, and other accounts throughout the year. | Accounts are used to provide information during times | |
| Do you have any citizen related to hazard mitigat | boards or commissions that address issues tion? | Yes | |
| | | ecreation Commission, Public Works Commission, Building | |
| Do you have any other programs in place that could be used to communicate hazard-related information? If yes, briefly describe: Various city public education events throughout the year. | | | |
| Do you have any established warning systems for hazard events? Yes If yes, briefly describe: Code Red- residents may sign up to receive emergency notifications and critical community alerts. Access IPAWS infrastructure through State system. | | | |

| Table 2-8. National Flood Insurance Program Compliance | | | | | |
|---|---|--|--|--|--|
| Criterion | Response | | | | |
| What local department is responsible for floodplain management? | Planning and Development Services | | | | |
| Who is your floodplain administrator? (department/position) | Planning Director | | | | |
| Are any certified floodplain managers on staff in your jurisdiction? | Yes | | | | |
| What is the date that your flood damage prevention ordinance was last amended? | 2020 | | | | |
| Does your floodplain management program meet or exceed minimum requirements? If exceeds, in what ways? Increased freeboard requirements in all SFHAs. | Exceeds | | | | |
| When was the most recent Community Assistance Visit or Community Assistance Contact? | Summer 2019 | | | | |
| Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? | Yes | | | | |
| If so, state what they are. Boise City annexed property that had existing violations (undersize jurisdiction. | ze culverts) that preexisted Boise City | | | | |
| Are any RiskMAP projects currently underway in your jurisdiction? If so, state what they are. | No | | | | |
| Do your flood hazard maps adequately address the flood risk within your jurisdiction? | Yes | | | | |
| If no, state why. Updated mapping in progress | | | | | |
| Does your floodplain management staff need any assistance or training to support its floodplain management program? If so, what type of assistance/training is needed? Training for new floodplain administrator | | | | | |
| Does your jurisdiction participate in the Community Rating System (CRS)? If yes, is your jurisdiction interested in improving its CRS Classification? No If no, is your jurisdiction interested in joining the CRS program? N/A | | | | | |

2-8 TETRA TECH

| Criterion | Response |
|---|----------|
| How many flood insurance policies are in force in your jurisdiction? ^a What is the insurance in force? \$276,428,300 What is the premium in force? \$624,142 | 950 |
| How many total loss claims have been filed in your jurisdiction? ^a What were the total payments for losses? \$102,909 | 55 |

According to FEMA statistics as of March 31, 2022

| Table 2-9. Community Classifications | | | | | | |
|--|-----|------------|------|--|--|--|
| Participating? Classification Date Classi | | | | | | |
| FIPS Code | Yes | 1600108830 | N/A | | | |
| DUNS# | Yes | 070017017 | N/A | | | |
| Community Rating System | Yes | 6 | 2015 | | | |
| Building Code Effectiveness Grading Schedule | Yes | 3 | 2021 | | | |
| Public Protection | Yes | 3 | 2013 | | | |
| Storm Ready | Yes | N/A | N/A | | | |
| Firewise | Yes | N/A | N/A | | | |

2.5 INTEGRATION REVIEW

For hazard mitigation planning, "integration" means that hazard mitigation information is used in other relevant planning mechanisms, such as general planning and capital facilities planning, and that relevant information from those sources is used in hazard mitigation. This section identifies where such integration is already in place, and where there are opportunities for further integration in the future. Resources listed at the end of this annex were used to provide information on integration. The progress reporting process described in Volume 1 of the hazard mitigation plan will document the progress of hazard mitigation actions related to integration and identify new opportunities for integration.

2.5.1 Existing Integration

Some level of integration has already been established between local hazard mitigation planning and the following other local plans and programs:

- **Blueprint Boise**—Provides guidance for development of areas impacted by hazards with similar but aligned goals.
- Foothills and Open Space Management Plan—Provides guidance for development of areas impacted by hazards with similar but aligned goals.
- **Boise River System Ordinance**—Provides guidance for development of areas impacted by hazards with similar but aligned goals.
- Stormwater Management Plan—Provides guidance and requirements for construction, industrial and municipal activities to meet NPDES requirements

2.5.2 Opportunities for Future Integration

The capability assessment presented in this annex indicates opportunities to integrate this mitigation plan with other jurisdictional planning/regulatory capabilities. Capabilities were identified as integration opportunities if they can support or enhance the actions identified in this plan or be supported or enhanced by components of this plan. The capability assessment identified the following plans and programs that do not currently integrate hazard mitigation information but provide opportunities to do so in the future:

- As additional plans are created or updated we will consider inclusion of principals and goals of the Multi-Hazard Mitigation Plan.
- Future updates to the City of Boise Comprehensive Plan will reference this HMP in land use sections.
- **Boise's Climate Action Roadmap**—Provides guidance for addressing current and future hazards related to the changing climate
- City of Boise Emergency Operations Plan—ensure next plan update aligns with hazard mitigation plan updates.
- **Disaster Recovery Plan**—Engage with County on recovery planning initiatives.
- Community Wildfire Protection Plan—will reference wildfire hazard maps and data in this HMP.
- Stormwater Management Program—flood and extreme weather data may be used in the program.
- City of Boise Water Renewal Utility Plan—will consider drought hazard data from the Hazard Mitigation Plan.
- Emergency Preparedness—further promote mitigation planning and grant opportunities within the city

Taking action to integrate each of these programs with the hazard mitigation plan was considered as a mitigation action to include in the action plan in this annex.

2.6 RISK ASSESSMENT

2.6.1 Jurisdiction-Specific Natural Hazard Event History

Table 2-10 lists past occurrences of natural hazards for which specific damage was recorded in this jurisdiction Other hazard events that broadly affected the entire planning area, including this jurisdiction, are listed in the risk assessments in Volume 1 of this hazard mitigation plan.

| Table 2-10. Past Natural Hazard Events | | | | | | |
|--|-----------------|---------------------|---|--|--|--|
| Type of Event | FEMA Disaster # | Date | Damage Assessment | | | |
| Excessive Heat | N/A | 6/28/2021 | Cooling shelters; minimal local costs | | | |
| Earthquake | N/A | 3/31/2020 | No local damage; evaluated infrastructure | | | |
| COVID-19 Pandemic | DR-4534 | 1/20/2020 - ongoing | N/A | | | |
| Winter Storms | N/A | December 2016 | N/A | | | |
| Flooding | DR-4342 | 3/29/2017 | \$3,341,756.00 | | | |
| Severe Wind | N/A | 3/29/2009 | \$33,000 (countywide) | | | |
| Wildfire | N/A | 7/28/2009 | \$1.66 Million | | | |
| Flooding | N/A | 9/11/1997 | \$57,000 | | | |
| Wildfire | N/A | 8/26/1996 | \$3.3 million | | | |

2-10 TETRA TECH

| Type of Event | FEMA Disaster # | Date | Damage Assessment |
|---------------|-----------------|------------|------------------------|
| Severe Wind | N/A | 4/27/1995 | \$50,000 (countywide) |
| Flooding | N/A | 02/1986 | \$20,000 |
| Flooding | N/A | 06/1983 | \$147,000 (countywide) |
| Earthquake | N/A | 10/28/1983 | Minimal local damage |
| Landslide | N/A | 11/1980 | Unknown |
| Flooding | N/A | 1/12/1979 | Unknown |

2.6.2 Hazard Risk Ranking

Table 2-11 presents a local ranking of all hazards of concern for which this hazard mitigation plan provides complete risk assessments. As described in detail in Volume 1, the ranking process involves an assessment of the likelihood of occurrence for each hazard, along with its potential impacts on people, property and the economy. Mitigation actions target hazards with high and medium rankings.

| Table 2-11. Hazard Risk Ranking | | | | | |
|---------------------------------|-------------------|--------------------|---------------|--|--|
| Rank | Hazard | Risk Ranking Score | Risk Category | | |
| 1 | Extreme Weather | 33 | High | | |
| 2 | Wildfire | 22 | Medium | | |
| 3 | Dam/Canal Failure | 18 | Medium | | |
| 4 | Flood | 18 | Medium | | |
| 5 | Earthquake | 16 | Medium | | |
| 6 | Landslide | 12 | Low | | |
| 7 | Drought | 9 | Low | | |
| 8 | Volcano | 6 | Low | | |

2.6.3 Jurisdiction-Specific Vulnerabilities

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. This section provides information on a few key vulnerabilities for this jurisdiction. Available jurisdiction-specific risk maps of the hazards are provided at the end of this annex.

Repetitive Loss Properties

Repetitive loss records are as follows:

- Number of FEMA-identified Repetitive-Loss Properties: 0
- Number of FEMA-identified Severe-Repetitive-Loss Properties: 0
- Number of Repetitive-Loss Properties or Severe-Repetitive-Loss Properties that have been mitigated: N/A

Other Noted Vulnerabilities

The following jurisdiction-specific issues have been identified based on a review of the results of the risk assessment, public involvement strategy, and other available resources:

- Canal failure: Boise has numerous canals, many of which are situated above homes and businesses. Canal failure would result in flooding of those properties.
- Mass Gatherings: Increase in number and size of large special events taking place within the City.

Mitigation actions addressing these issues were prioritized for consideration in the action plan in this annex.

2.7 STATUS OF PREVIOUS PLAN ACTIONS

Table 2-12 summarizes the actions that were recommended in the previous version of the hazard mitigation plan and their implementation status at the time this update was prepared.

| Table 2-12. Status of Previous Plan Actions | | | | | | |
|---|----------------|-----------------------|--------------------------------|-----------------------|--|--|
| | | Removed; | Carried Over to Plan Update | | | |
| Action Item from Previous Plan | Completed | No Longer Feasible | Check if Yes | Action # in Update | | |
| Action B-1—Esther Simplot Flood Channel (joint project with Boise City and Garden City); a flood study of the Boise River between Main St. and Veteran's Memorial Park bridges is underway and expected to result in a project to construct side channels / channel modifications to greatly reduce flood potential in both Garden City and in Boise City | | | ✓ | B-6 | | |
| Comment: Additional modifications planned to the river channel at Esther Simplot White (LOMR) is now anticipated to be submitted to FEMA for approval in 2023 We Rate Maps (FIRM) will be modified in this area to include all improvements a | /ith the LOMR | approval the | Flood In | | | |
| Action B-2 —Complete a Wildland-Urban Interface (WUI) risk assessment (a GIS exercise looking at vegetation in the undeveloped area, age of homes and other relevant factors). Improve individual parcel data with wildfire assessments. Provide a public portal to share data and educate on risk and community wildfire adaptation. Also see North Ada County Fire & Rescue (NACFR) and Whitney Fire District Initiatives. | | | ✓ | B-7 | | |
| Comment: This is an ongoing program, which will likely need additional future funding to Rapid Eye imagery and data translation). | conduct upda | ates to the Ri | skmap (e | e.g., LiDAR, | | |
| Action B-3 —Conduct wildland fire prevention education and outreach to support and promote fire adapted communities. Focus on fuel reduction on private property around new and existing homes via incentivizing homeowners, providing free debris pick-up and replacement Firewise vegetation at a discount. | | | ✓ | B-8 | | |
| Comment: Consistent funding mechanisms will need to be found to create an annual wo | oody debris pi | ckup program | | | | |
| Action B-4 —Fire Station Seismic Upgrades: Boise Fire has already identified two buildings with major seismic problems (including the Logistics/Maintenance building) at a cost of two million dollars. This project will perform a vulnerability assessment on 16 other Fire facilities and initiate upgrades. Also see N. Ada County Fire & Rescue Initiative #2. | ✓ | | | | | |
| Comment: Initial condition assessment of fire stations was completed with four slated for | r remodeling p | oriority. | | | | |
| Action B-5—Flood Containment Facility Maintenance: Continue to maintain foothills flood containment facilities such as the Cottonwood flood ponds and flume, etc. | | | ✓ | B-9 | | |
| Comment: Ongoing indefinitely. Facilities are inspected, monitored and maintained on re | eoccurring bas | Sis. | | | | |

2-12 TETRA TECH

| | | Removed; | Carried Over to Plan Update | |
|--|---------------------------|-----------------------|--------------------------------|-----------------------|
| Action Item from Previous Plan | Completed | No Longer Feasible | | Action # in Update |
| Action B-6 —Maintain good standing under the National Flood Insurance Program implementing programs that meet or exceed the minimum NFIP requirements. Su programs include but are not limited to; enforcing an adopted flood damage preve ordinance, participating in floodplain mapping updates, and providing public assis and information on floodplain requirements and impacts. Comment: The City continues to maintain good standing under the program. | n by ach ention | | ✓ | B-4 |
| Action B-7—Continue to maintain/enhance the City's classification under the Community Rating System | | | ✓ | B-10 |
| Comment: The City continues to participate in the Community Rating System. | | | | |
| Action B-8 —Where appropriate, support retrofitting, purchase, or relocation of structured in hazard-prone areas to protect structures from future damage, with proputing exposure to repetitive losses as a priority. | | | ✓ | B-1 |
| Comment: Current discussions and analysis of potential plans are ongoing. | | I | I | |
| Action B-9 —Update and adopt a new Wildland Urban Interface (WUI) Code to re the existing code. Improve and update existing WUI hazard zones. | | | ✓ | B-11 |
| Comment: The City of Boise is currently leading a working group on adopting a Boise City Code as part of this process. | | WUI code, an | d will be | , 0 |
| Action B-10—Consider appropriate higher regulatory standards that prevent or rerisk to the built environment from the known hazards of concern | educe | | ✓ | B-12 |
| Comment: Ongoing discussions and considerations during all project planning, | analysis, and education | ons programs | | |
| Action B-11— Support County-wide initiatives identified in Volume 1. | | | ✓ | B-13 |
| Comment: Continued efforts to coordinate with identified stakeholders. | | | | |
| Action B-12 —Continue to support the implementation, monitoring, maintenance, updating of this Plan, as defined in Volume 1. | and | | ✓ | B-3 |
| Comment: Key representatives from each identified area continue to coordinate areas. | and provide informati | ion to and froi | m their re | espective |
| Action B-13 —Offer NOAA SKYWARN Spotter Training for community members encourage awareness and better ability to provide local information for weather predictions. | to | ✓ | | |
| Comment: Have not seen any recent information from NWS on SKYWARN train available again in the future. | ning opportunities. Wil | revisit if opp | ortunities | are made |
| Action B-14 —For the Alto Via landslide, support evaluation of remediation, purch relocation of structures to prevent future damage and repetitive losses with the go pursuing mitigation. | | ✓ | | |
| Comment: The City has no additional action planned in regards to the landslide, | , but will continue to m | onitor for any | change | S. |
| Action B-15 —Whenever possible, coordinate with local experts and employ natu environmental processes in mitigation activities that increase ecosystem resilience reduce the impacts of flooding on the built environment. | | | ✓ | B-14 |
| Comment: The City of Boise continues to work with local experts in combination Engineering staff is resolved in ensuring our riverbanks are not comprepairs, when applicable, with vegetation and natural techniques. | | | | |
| Action B-16—Meet and coordinate with private organizations, state, federal and clocal agencies to develop, conduct and maintain wildfire mitigation projects. | other | | ✓ | B-15 |
| Comment: Ongoing with distinct need to build capacity. Stack Rock fuels mitigal | tion will be a large. lar | ndscape-scale | e project. | |

2.8 HAZARD MITIGATION ACTION PLAN

Table 2-13 lists the identified actions, which make up the hazard mitigation action plan for this jurisdiction. Table 2-14 identifies the priority for each action. Table 2-15 summarizes the mitigation actions by hazard of concern and mitigation type.

| Table 2-13. Hazard Mitigation Action Plan Matrix | | | | | | | |
|--|-----------------------|---|---------------------------------------|-------------------|------------------------------|-----------------------|--|
| Benefits New or Existing Assets | Objectives Met | Lead Agency | Support Agency | Estimated Cost | Sources of Funding | Timeline ^a | |
| Action B-1 —Where appropriate, support retrofitting, purchase or relocation of structures located in hazard areas, prioritizing those that have experienced repetitive losses and/or are located in high- or medium-risk hazard areas. | | | | | | | |
| Hazards Mitigated: | | Diagning and | Dublia Warka, EMCD | Lliab | HMCD DDIC EMA | Chart tarm | |
| Existing | 1, 2, 3, 4, 9 | Planning and Development | Public Works, EMCR | High | HMGP, BRIC, FMA | Short-term | |
| | uate and integrate th | e hazard mitigation | plan into other plans, ordir | nances and pr | ograms that dictate la | nd use decisions | |
| in the community. Hazards Mitigated: | Flood Drought Fy | vtreme Weather Wi | ldfire, Landslide, Dam/Can | al Failure Fa | urthauska | | |
| New & Existing | 2, 5, 6 | Boise Fire, Planning and Development, Public Works | Other City Departments as appropriate | Low | Staff Time, General Funds | Ongoing | |
| Action B-3—Active Hazards Mitigated: | • • • | plan maintenance p | rotocols outlined in Volume | e 1 of this haz | zard mitigation plan. | | |
| New & Existing | 1, 2, 6, 7, 8, 9, 10 | Boise Fire, Planning and Development, Public Works | Parks and Recreation | Low | Staff Time, General Funds | Short-term | |
| Action B-4—Continue to maintain good standing and compliance under the NFIP through implementation of floodplain management programs that, at a minimum, meet the NFIP requirements: Enforce the flood damage prevention ordinance. Participate in floodplain identification and mapping updates. Provide public assistance/information on floodplain requirements and impacts. Hazards Mitigated: Flood | | | | | | | |
| New & Existing | 1, 2, 9, 10 | Planning and Development | N/A | Low | Staff Time, General Funds | Ongoing | |
| Action B-5—Coordinate with community stakeholders in both the public and private sectors to identify and pursue adaptive capacity strategies that could improve community resilience in relation to future climate conditions. Hazards Mitigated: Drought, Flood, Extreme Weather, Wildfire | | | | | | | |
| New & Existing | 2, 3, 4, 6, 9, 10 | Public Works | N/A | Low | Staff Time, General Funds | Short-term | |
| Action B-6 — Esther Simplot Flood Channel (joint project with Boise City and Garden City); a flood study of the Boise River between Main St. and Veteran's Memorial Park bridges is underway and expected to result in a project to construct side channels / channel modifications to greatly reduce flood potential in both Garden City and in Boise City Hazards Mitigated: Flood | | | | | | | |
| Existing | 1, 2, 3, 9, 10 | Public Works | N/A | Medium | Local Funds | Short-term | |

2-14 TETRA TECH

| Benefits New or Existing Assets | Objectives Met | Lead Agency | Support Agency | Estimated Cost | Sources of Funding | Timeline ^a |
|---|---|---|--|-------------------|---|---------------------------|
| Action B-7— Com | plete a Wildland-Urb | an Interface (WUI) | risk assessment (a GIS exe | ercise looking | at vegetation in the u | ındeveloped |
| data and educate o Whitney Fire Prote | on risk and communit ction District Action \ | ty wildfire adaptation | dividual parcel data with wiln. (Coordinates with North | | | |
| Hazards Mitigated: | | Daina Fina | N1/A | Marillan | Western Otales | 01 |
| New & Existing | 2, 4, 6, 8, 9, 10 | Boise Fire | N/A | Medium | Western States Grant, HMGP Grant, Local Funds | Short-term and ongoing |
| Action B-8— Conduct wildland fire prevention education and outreach via the internet, social media and direct public outreach to support and promote fire adapted communities. Focus on fuel reduction on private property around new and existing homes via incentivizing homeowners, providing free debris pick-up and replacement Firewise vegetation at a discount. (Coordinates with North Ada County Fire & Rescue Action NACFR-14, Whitney Fire Protection District Action WFD-7) Hazards Mitigated: Wildfire | | | | | | |
| New and Existing | 1, 8, 9, 10 | Boise Fire | NACFR, Whitney Fire | Low | Western State Grant, Local Funds | Short-term and Ongoing |
| Action B-9 — Floor flood ponds and flu <i>Hazards Mitigated:</i> | ıme, etc. | ty Maintenance: Co | ntinue to maintain foothills | flood contain | ment facilities such as | the Cottonwood |
| Existing | 1, 2, 9, 10 | Public Works | N/A | Low | Local Funds | Short-term and Ongoing |
| Action B-10— Con Hazards Mitigated: | | hance the City's cla | ssification under the Comn | nunity Rating | System | |
| New & Existing | 1, 2, 9, 10 | Public Works | Planning and Development Services | Low | Local Funds | Ongoing |
| | | | Urban Interface (WUI) Coo ounty Fire & Rescue Action | | | |
| Hazards Mitigated: | Wildfire | | | | | |
| New & Existing | 1, 2, 4, 5, 6, 9, 10 | Boise Fire | Planning and Development Services, NACFR, Whitney Fire | Low | Local Funds | Short-Term |
| hazards of concerr | 1. | gher regulatory stan | dards that prevent or reduc | ce risk to the | built environment fron | n the known |
| Hazards Mitigated: | | Diamains and | NI/A | Laur | Lacal Funda | Onneine |
| New & Existing | 1, 2, 4, 5, 6, 9, 10 | Planning and Development Services | N/A | Low | Local Funds | Ongoing |
| Action B-13 — Sup <u>Hazards Mitigated:</u> | oport County-wide ini All Hazards | tiatives identified in | Volume 1. | | | |
| New & Existing | 1, 2, 6, 7, 8, 9, 10 | EMCR | Boise Fire, Planning and Development, Public Works | Low | Local Funds | Short-Term and Ongoing |
| Action B-14 — Whenever possible, coordinate with local experts and employ natural environmental processes in mitigation activities that increase ecosystem resilience and reduce the impacts of flooding on the built environment. | | | | | | |
| Hazards Mitigated: New and Existing | Flooding, Dam Fa 2, 5, 9 | llure Public Works | Parks and Recreation | Medium | Local Funds | Long-Term |
| | -, -, - | | | | | |

| Benefits New or Existing Assets | Objectives Met | Lead Agency | Support Agency | Estimated Cost | Sources of Funding | Timeline ^a |
|--|--|--|--|---|--|---|
| <u> </u> | | • • • | ons, state, federal and oth | | · | , |
| | | | scribed fire (Rx fire), pile-b | | | |
| | | | ditures for equipment and | | | |
| | Action FCD10-12, | North Ada County F | ire & Rescue District Action | n NACFR-15, | Whitney Fire Protection | on District WFD- |
| 3) | | | | | | |
| Hazards Mitigated: | | 1 | 1 | ı . | 1 | 1 |
| New & Existing | 1, 6, 9, 10 | Boise Fire | FCD #10, NACFR, Whitney Fire | Low | Local Funds | Short-Term an Ongoing |
| | | | ments to decrease river ter | | | |
| | | | tlands. The side channel p | ojects may a | lso provide an opportu | unity to lower |
| | in areas along the riv | ver. | | | | |
| Hazards Mitigated: | - | 1 | | | 1 | 1 |
| New and Existing | 2, 10 | Public Works | N/A | Medium | Local Funds, BRIC, HMGP | Short and Lon Term |
| Action B-17—Con | struction of new faci | ility to serve as Fire | Station 5. New building wil | l be brought ι | up to current seismic o | code. |
| Hazards Mitigated: | : Earthquake | | | | | |
| New | 1, 3, 10 | Public Works | Boise Fire | Low | Local Funds | Short-Term |
| Action B-18—Rela | ocate Fire Logistics t | facility as part of bro | ader support facilities cam | ous relocation | n project. Current facil | ity |
| | | | | | | |
| | Flood, Earthquak | е | | | | |
| Hazards Mitigated: New Action B-19—Condeen engaged with | 1, 3, 10 nduct a feasibility stu n multiple stakeholde | Public Works dy for improvements ers discussing poten | Boise Fire s in the South Channel Boi tial improvements in the S | Channel Bois | se River and on adjace | ent lands. |
| New Action B-19—Con been engaged with mprovements includano Fish and Ga | 1, 3, 10 aduct a feasibility stund multiple stakeholde ude the creation of a me Fish Hatchery. | Public Works dy for improvements ers discussing poten | s in the South Channel Boi | se River near Channel Bois | Eagle Island State Page River and on adjace | ark. The City has ent lands. |
| Hazards Mitigated: New Action B-19—Con been engaged with mprovements includaho Fish and Ga Hazards Mitigated: | 1, 3, 10 aduct a feasibility stunt multiple stakeholde ude the creation of a me Fish Hatchery. | Public Works dy for improvements ers discussing poten a side channel, bank | s in the South Channel Boi tial improvements in the S stabilization, improved floo | se River near Channel Bois od flow contro | Eagle Island State Pase River and on adjace of including increased | ark. The City has ent lands. protection of the |
| New Action B-19—Con been engaged with mprovements includano Fish and Ga | 1, 3, 10 aduct a feasibility stund multiple stakeholde ude the creation of a me Fish Hatchery. | Public Works dy for improvements ers discussing poten | s in the South Channel Boi tial improvements in the S | se River near Channel Bois | Eagle Island State Page River and on adjace | ark. The City has ent lands. protection of the |
| New Action B-19—Con been engaged with mprovements includano Fish and Ga Hazards Mitigated: Existing | 1, 3, 10 aduct a feasibility stuen multiple stakeholde ude the creation of a me Fish Hatchery. Flood 1, 2, 3, 10 | Public Works dy for improvements ers discussing poten a side channel, bank Public Works | s in the South Channel Boi tial improvements in the S stabilization, improved floo N/A | se River near Channel Bois od flow contro Medium | Eagle Island State Page River and on adjace of including increased page 1 BRIC, HMGP, Local Funds | ark. The City has ent lands. protection of the Short-Term |
| New Action B-19—Con been engaged with mprovements includano Fish and Ga Hazards Mitigated: Existing Action B-20 – Rec | 1, 3, 10 aduct a feasibility stunt multiple stakeholde ude the creation of a me Fish Hatchery. Flood 1, 2, 3, 10 connect Alta Harris C | Public Works dy for improvements ers discussing poten a side channel, bank Public Works Creek to the Boise R | s in the South Channel Boi tial improvements in the S stabilization, improved floo | se River near Channel Bois od flow contro Medium Jnlimited has | Eagle Island State Page River and on adjace of including increased BRIC, HMGP, Local Funds worked for nearly ten | ark. The City ha ent lands. protection of the Short-Term |
| New Action B-19—Con been engaged with mprovements includano Fish and Ga Hazards Mitigated: Existing Action B-20 - Receconnect Alta Har project is to connect | 1, 3, 10 Induct a feasibility sturn multiple stakeholde ude the creation of a me Fish Hatchery. Flood 1, 2, 3, 10 Induct Alta Harris Corris Creek with the Boot the creek to an are | Public Works dy for improvements ers discussing poten a side channel, bank Public Works Creek to the Boise R bise River. A channel | s in the South Channel Boi tial improvements in the S stabilization, improved floo N/A iver at Barber Pool. Trout U | se River near Channel Bois od flow contro Medium Jnlimited has d vegetation | Eagle Island State Page River and on adjace of including increased BRIC, HMGP, Local Funds worked for nearly ten established. The final | ark. The City has ent lands. protection of the Short-Term years to phase of this |
| New Action B-19—Conceen engaged with mprovements included hor Fish and Gallazards Mitigated: Existing Action B-20 — Received hor Fish connect Alta Hardroject is to connect or Forovide flood risk received. | 1, 3, 10 Induct a feasibility sturn multiple stakeholder ude the creation of a me Fish Hatchery. Flood 1, 2, 3, 10 Connect Alta Harris Corris Creek with the Boot the creek to an are eduction. | Public Works dy for improvements ers discussing poten a side channel, bank Public Works Creek to the Boise R bise River. A channel | s in the South Channel Boi tial improvements in the S stabilization, improved floo N/A iver at Barber Pool. Trout to el has been constructed an | se River near Channel Bois od flow contro Medium Jnlimited has d vegetation | Eagle Island State Page River and on adjace of including increased BRIC, HMGP, Local Funds worked for nearly ten established. The final | ark. The City has ent lands. protection of the Short-Term years to phase of this |
| New Action B-19—Con Deen engaged with Improvements included have a single date of the control of | 1, 3, 10 Induct a feasibility sturn multiple stakeholder ude the creation of a me Fish Hatchery. Flood 1, 2, 3, 10 Induction a feasibility sturn multiple stakeholder and a feasibility stakeholder and a feasible for the creek with the Boot the creek to an are eduction. Flood | Public Works dy for improvements ers discussing potent a side channel, bank Public Works Creek to the Boise R bise River. A channel ea above Barber Po | s in the South Channel Boi tial improvements in the S stabilization, improved floo N/A iver at Barber Pool. Trout to el has been constructed an ol to provide continuous flo | se River near Channel Bois od flow contro Medium Unlimited has d vegetation w and to prov | Eagle Island State Page River and on adjace of including increased page 1 BRIC, HMGP, Local Funds worked for nearly ten established. The final wide fish passage. This | ark. The City has ent lands. protection of the Short-Term years to phase of this s project will also |
| New Action B-19—Con Deen engaged with Improvements included horish and Ga Hazards Mitigated: Existing Action B-20 — Receonnect Alta Har Droject is to connect Drovide flood risk receptage his paragraphs. | 1, 3, 10 Induct a feasibility sturn multiple stakeholder ude the creation of a me Fish Hatchery. Flood 1, 2, 3, 10 Induction a feasibility sturn multiple stakeholder and a feasibility stakeholder and a feasible for the creek with the Boot the creek to an are eduction. Flood | Public Works dy for improvements ers discussing poten a side channel, bank Public Works Creek to the Boise R bise River. A channel | s in the South Channel Boi tial improvements in the S stabilization, improved floo N/A iver at Barber Pool. Trout to el has been constructed an | se River near Channel Bois od flow contro Medium Unlimited has d vegetation w and to prov | Eagle Island State Page River and on adjace of including increased page 1 BRIC, HMGP, Local Funds worked for nearly ten established. The final wide fish passage. This | ark. The City has ent lands. protection of the Short-Term years to phase of this s project will also Short and Long |
| New Action B-19—Conceen engaged with mprovements includance Fish and Gallazards Mitigated: Existing Action B-20 — Receconnect Alta Haroroject is to connect provide flood risk relazards Mitigated: New and Existing | 1, 3, 10 Induct a feasibility sturn multiple stakeholder ude the creation of a me Fish Hatchery. Flood 1, 2, 3, 10 Connect Alta Harris Corris Creek with the Boot the creek to an are eduction. Flood 2, 10 | Public Works dy for improvements ers discussing potent a side channel, bank Public Works Creek to the Boise R bise River. A channel ea above Barber Po Public Works | s in the South Channel Boi tial improvements in the S stabilization, improved floo N/A iver at Barber Pool. Trout I el has been constructed an ol to provide continuous flo | se River near Channel Bois od flow contro Medium Unlimited has d vegetation of w and to prov | Eagle Island State Page River and on adjace of including increased BRIC, HMGP, Local Funds worked for nearly ten established. The final yide fish passage. This Local funds, BRIC, HMGP | serk. The City has ent lands. protection of the Short-Term years to phase of this s project will als |
| New Action B-19—Con Deen engaged with Improvements included ho Fish and Gathazards Mitigated: Existing Action B-20 — Receptor Reconnect Alta Har Droject is to connect or ovide flood risk reconnect Mitigated: New and Existing Action B-21 — Cor | 1, 3, 10 Induct a feasibility sturn multiple stakeholder ude the creation of a me Fish Hatchery. Flood 1, 2, 3, 10 Connect Alta Harris Corris Creek with the Boot the creek to an are eduction. Flood 2, 10 Intinue Firewise Committee and the committee of the creek to an are eduction. | Public Works dy for improvements ers discussing potent a side channel, bank Public Works Creek to the Boise R bise River. A channel ea above Barber Po Public Works munity program for i | s in the South Channel Boi tial improvements in the S stabilization, improved flood N/A iver at Barber Pool. Trout the last been constructed an old to provide continuous flood N/A N/A residents in the foothills an | se River near Channel Bois od flow control Medium Julimited has divegetation of wand to provide Medium Medium | Eagle Island State Page River and on adjace of including increased BRIC, HMGP, Local Funds worked for nearly ten established. The final vide fish passage. This Local funds, BRIC, HMGP option of Firewise for | sark. The City has ent lands. protection of the Short-Term years to phase of this s project will als Short and Long Term development |
| New Action B-19—Con Deen engaged with Improvements included Fish and Gathazards Mitigated: Existing Action B-20 — Receptor Fish to connect the Alta Hardroject is to connect for ovide flood risk reduced Mew and Existing Action B-21 — Corvithin the wildland | 1, 3, 10 Induct a feasibility sturn multiple stakeholder ude the creation of a me Fish Hatchery. Flood 1, 2, 3, 10 Connect Alta Harris Corris Creek with the Boot the creek to an are eduction. Flood 2, 10 Intinue Firewise Committee and the committee of the creek to an are eduction. | Public Works dy for improvements ers discussing potent a side channel, bank Public Works Creek to the Boise R bise River. A channel ea above Barber Po Public Works munity program for i | s in the South Channel Boi tial improvements in the S stabilization, improved floo N/A iver at Barber Pool. Trout I el has been constructed an ol to provide continuous flo | se River near Channel Bois od flow control Medium Julimited has divegetation of wand to provide Medium Medium | Eagle Island State Page River and on adjace of including increased BRIC, HMGP, Local Funds worked for nearly ten established. The final vide fish passage. This Local funds, BRIC, HMGP option of Firewise for | sark. The City has ent lands. protection of the Short-Term years to phase of this s project will als Short and Long Term development |
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| New Action B-19—Con Deen engaged with Improvements includant Fish and Gathazards Mitigated: Existing Action B-20 — Receconnect Alta Har Droject is to connect or ovide flood risk receptaged with the wildland District WFD-5) Hazards Mitigated: Hazards Mitigated: Hazards Mitigated: Hazards Mitigated: Hazards Mitigated: Hazards Mitigated: | 1, 3, 10 Induct a feasibility sturn multiple stakeholder ude the creation of a me Fish Hatchery. Flood 1, 2, 3, 10 Connect Alta Harris Corris Creek with the Boot the creek to an are eduction. Flood 2, 10 Intinue Firewise Comurban interface over | Public Works dy for improvements ers discussing potent a side channel, bank Public Works Creek to the Boise R bise River. A channel ea above Barber Po Public Works munity program for a rlay. (Coordinates w | s in the South Channel Boi tial improvements in the S stabilization, improved floor N/A iver at Barber Pool. Trout tell has been constructed an oll to provide continuous floor N/A N/A residents in the foothills an ith North Ada County Fire and the stable of the sta | Se River near Channel Bois od flow control Medium Unlimited has divegetation of with and to provide the promote ad Rescue Act | Eagle Island State Page River and on adjace of including increased page 1 by the page 2 by the page 2 by the page 2 by the page 3 by the page | sark. The City has ent lands. protection of the Short-Term years to phase of this s project will als Short and Long Term development by Fire Protection |
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2-16 TETRA TECH

| Benefits New or Existing Assets | | Lead Agency | Support Agency | Estimated Cost | Sources of Funding | Timeline ^a | |
|--|------------------|--------------------------|----------------|-------------------|---|-----------------------|--|
| Action B-23 – Establish Strategic Planning process for foothills. (Coordinates with North Ada County Fire & Rescue Action NACFR-11, Eagle Fire Protection District EFD-12) Hazards Mitigated: Wildfire | | | | | | | |
| Existing | 2, 3, 4, 5, 6, 9 | Boise Fire Department | NACFR | Medium | Rural Fire Assistance Grant, National Fire Plan | Long- term/Ongoing | |
| Action B-24 – Develop/enhance ability to capture perishable data, including dollar values, after significant events. (Coordinates with North Ada County Fire & Rescue Action NACFR-12) Hazards Mitigated: All Hazards | | | | | | | |
| Existing | 2 | Boise Fire Department | NACFR | Low | Local Funds | Ongoing | |

a. Short-term = Completion within 5 years; Long-term = Completion within 10 years; Ongoing= Continuing new or existing program with no completion date

Acronyms used here are defined at the beginning of this volume.

| | Table 2-14. Mitigation Action Priority | | | | | | | |
|----------|--|----------|--------|---|-----------------------------------|---|---|---|
| Action # | # of Objectives Met | Benefits | Costs | Do Benefits Equal or Exceed Cost? | Is Project Grant- Eligible? | Can Project Be Funded Under Existing Programs/ Budgets? | Implementation Priority ^a | Grant Pursuit Priority ^a |
| 1 | 5 | High | High | Yes | Yes | No | Medium | High |
| 2 | 3 | Medium | Low | Yes | No | Yes | High | Low |
| 3 | 7 | Low | Low | Yes | No | Yes | High | Low |
| 4 | 4 | Medium | Low | Yes | No | Yes | High | Low |
| 5 | 6 | Medium | Low | Yes | No | Yes | High | Medium |
| 6 | 5 | High | Medium | Yes | Yes | No | Medium | Low |
| 7 | 6 | High | Medium | Yes | Yes | Yes | Medium | Medium |
| 8 | 4 | Medium | Low | Yes | Yes | Yes | Low | Low |
| 9 | 4 | Medium | Low | Yes | No | Yes | High | Low |
| 10 | 4 | Medium | Low | Yes | No | Yes | High | Low |
| 11 | 7 | High | Low | Yes | No | Yes | High | Low |
| 12 | 7 | Medium | Low | Yes | No | Yes | Medium | Low |
| 13 | 7 | Medium | Low | Yes | Yes | No | Medium | Medium |
| 14 | 3 | High | Medium | Yes | Yes | No | Medium | High |
| 15 | 4 | High | Low | Yes | No | Yes | High | Low |
| 16 | 2 | Medium | Medium | Yes | Yes | Yes | Medium | High |
| 17 | 3 | High | Low | Yes | No | Yes | High | Low |
| 18 | 3 | High | Low | Yes | No | Yes | High | Low |
| 19 | 4 | Medium | Medium | Yes | Yes | Yes | Medium | High |
| 20 | 2 | High | Medium | Yes | Yes | No | High | High |
| 21 | 6 | High | Low | Yes | Yes | Yes | High | High |
| 22 | 5 | High | Low | Yes | Yes | Yes | Medium | Medium |
| 23 | 6 | Medium | Medium | Yes | Yes | Yes | High | High |
| 24 | 1 | Low | Low | Yes | Yes | Yes | Medium | Medium |

a. See the introduction to this volume for explanation of priorities.

| Table 2-15. Analysis of Mitigation Actions | | | | | | | | |
|--|---|---|------------------------------------|-----------------------------------|-----------------------|------------------------|--|--|
| | | Action Addressing Hazard, by Mitigation Type ^a | | | | | | |
| Hazard Type | Prevention | Property Protection | Public Education & Awareness | Natural Resource Protection | Emergency Services | Structural Projects | Climate Resilience | Community Capacity Building ^b |
| High-Risk Hazards | | | | | | | | |
| Extreme Weather | B-2, 12, 3 | B-1 | B-13, 3 | | B-13 | | B-1, 2, 5, 6 | B-2, 5, 24 |
| Medium-Risk Hazard | s | | | | | | | |
| Dam Failure | B-2, 12, 3 | B-1 | B-13, 3 | | B-13 | | | B-2, 24 |
| Earthquake | B-2, 12, 3, 22 | B-1, 17, 18 | B-13, 3 | | B-13, 17, 18 | | | B-2, 22, 24 |
| Flood | B-2, 9, 4, 10, 12, 3, 14, 22 | B-6, 9, 4, 10, 1, 14, 19 | B-13, 3 | B-6, 4, 10, 14, 16, 19, 20 | B-9, 13 | B-6, 16, 19, 20 | B-1, 2, 4, 5, 6, 9, 14, 16, 19, 20 | B-2, 5, 14, 19 22, 24 |
| Wildfire | B-2,7, 8, 11, 12, 3, 15, 21, 22, 23 | B-7, 8, 1, 11, 15 | B-13, 3 | B-6, 4, 10, 14 | B-7, 8, 11, 13, 15 | | B-1, 2, 5, 7, 8, 11, 15 | B-2, 5, 15, 21, 22, 23, 24 |
| Low-Risk Hazards | | | | | | | | |
| Drought | B-2, 12, 3 | B-1 | B-13, 3 | | B-13 | | B-2, 5 | B-2, 5, 24 |
| Landslide | B-2, 12 | B-1 | | | | | | B-2, 24 |
| Volcano | | B-1 | | | | | | B-24 |

a. See the introduction to this volume for explanation of mitigation types.

2.9 PUBLIC OUTREACH

Table 2-16 lists public outreach activities for this jurisdiction.

| Table 2-16. Local Public Outreach | | | | |
|--|---------|---------------------------|--|--|
| Local Outreach Activity | Date | Number of People Involved | | |
| Wildfire mitigation/Firewise outreach activities | Various | Unknown | | |

2.10 INFORMATION SOURCES USED FOR THIS ANNEX

The following technical reports, plans, and regulatory mechanisms were reviewed to provide information for this annex.

- **2017 Ada County Multi-Hazard Mitigation Plan** The previous HMP was reviewed to update this annex.
- **City of Boise Municipal Code**—The municipal code was reviewed for the full capability assessment and for identifying opportunities for action plan integration.
- City of Boise Flood Damage Prevention Ordinance—The flood damage prevention ordinance was reviewed for compliance with the National Flood Insurance Program.
- **Boise Water Renewal Utility Plan** The plan was reviewed for potential projects that would lead to reduction of flood risk.

2-18 TETRA TECH

b. In addition to the community capacity building actions listed in this table, this jurisdiction is expanding its financial capabilities through its participation in and adoption of this hazard mitigation plan, which establishes grant-funding eligibility.

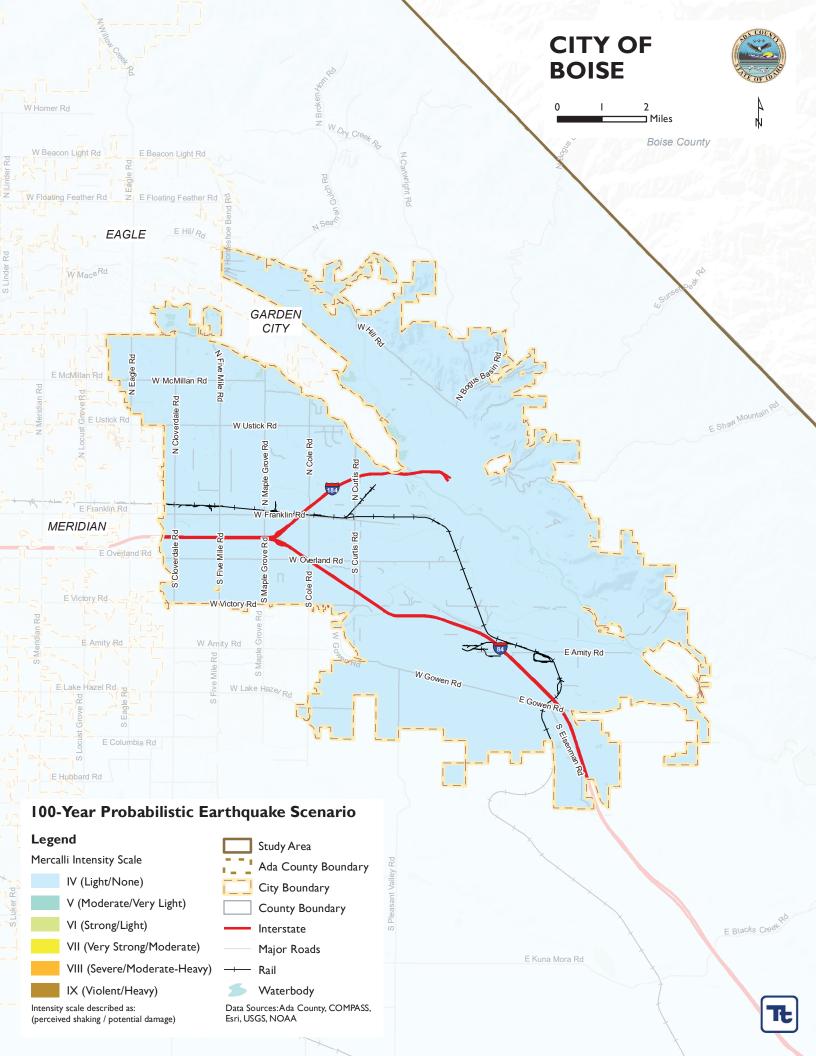
• **Boise's Climate Action Roadmap** – Reviewed for integration opportunities and analysis of mitigation actions for climate resilience.

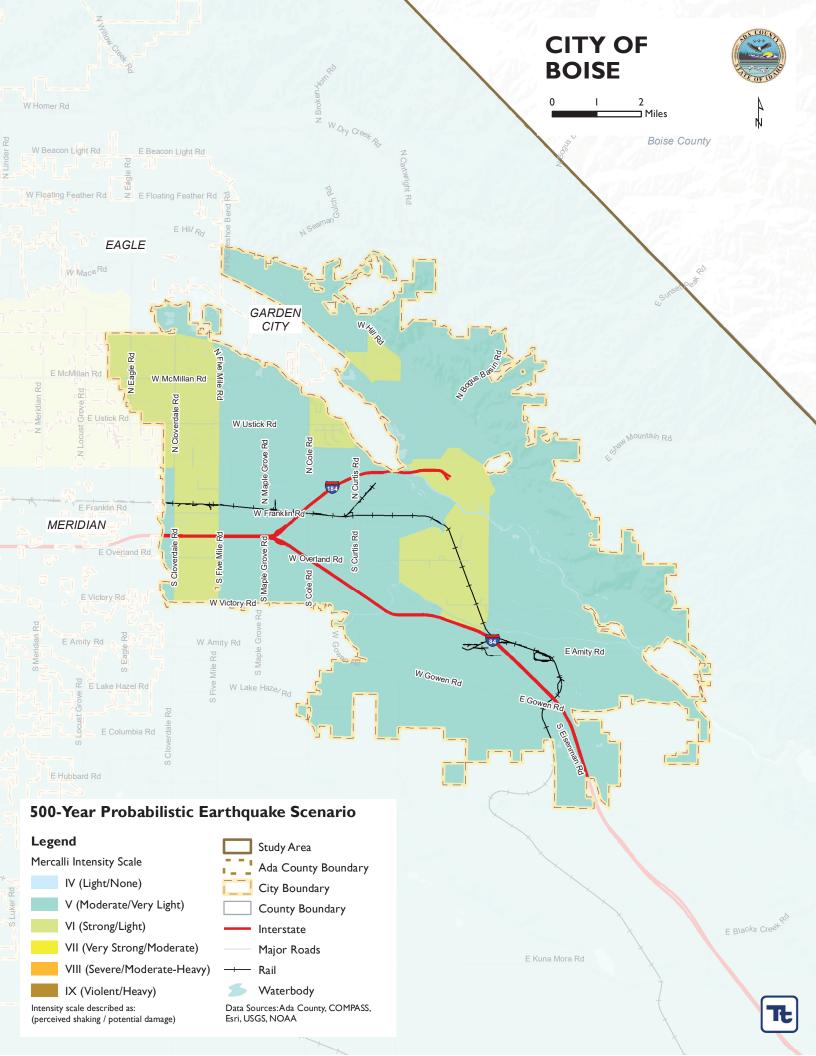
The following outside resources and references were reviewed:

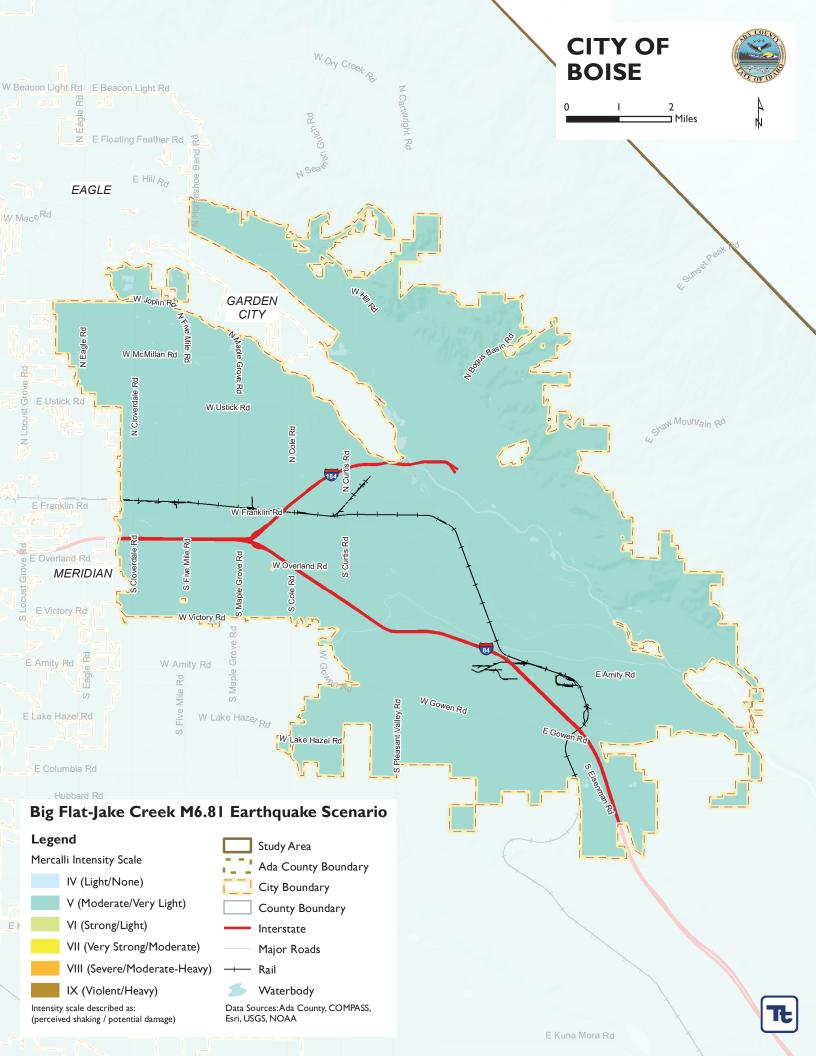
• Hazard Mitigation Plan Annex Development Toolkit—The toolkit was used to support the identification of past hazard events and noted vulnerabilities, the risk ranking, and the development of the mitigation action plan.

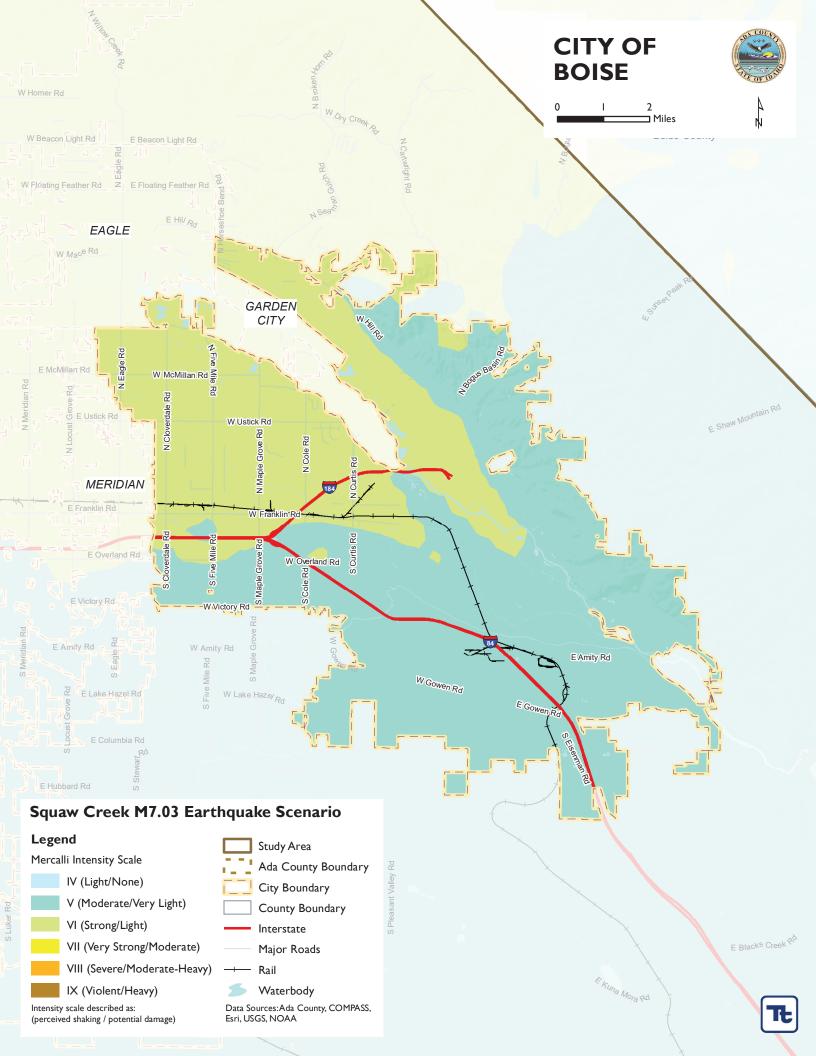


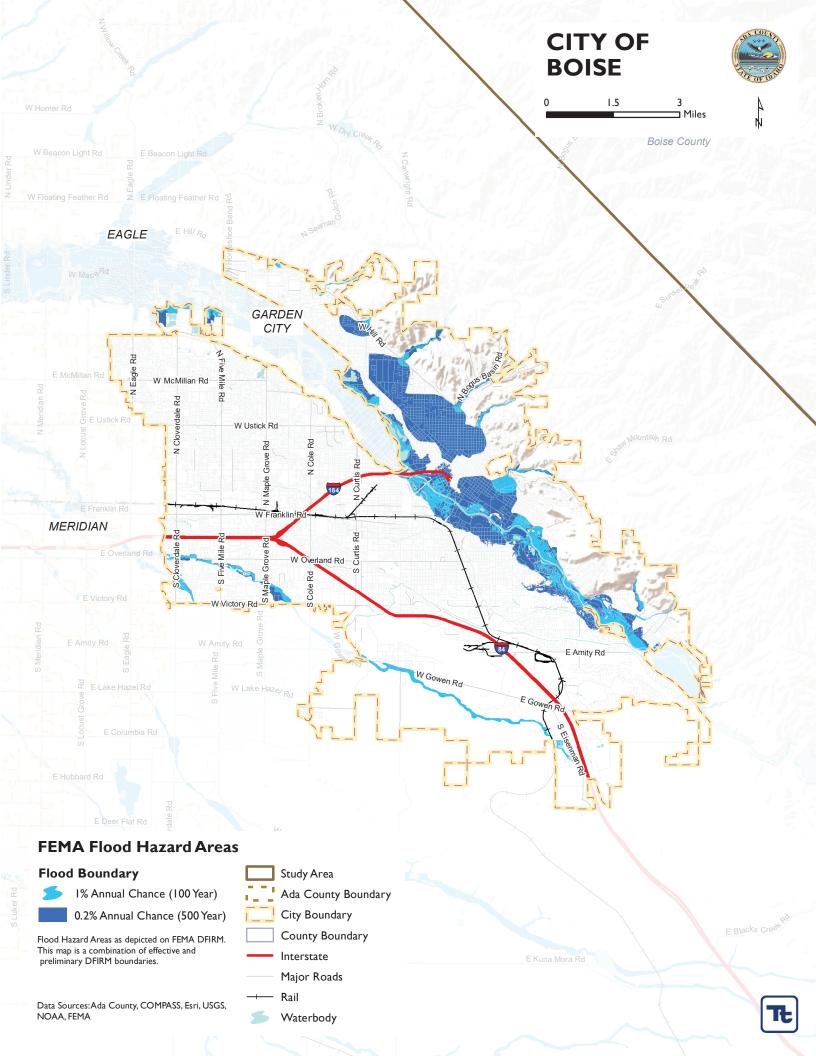


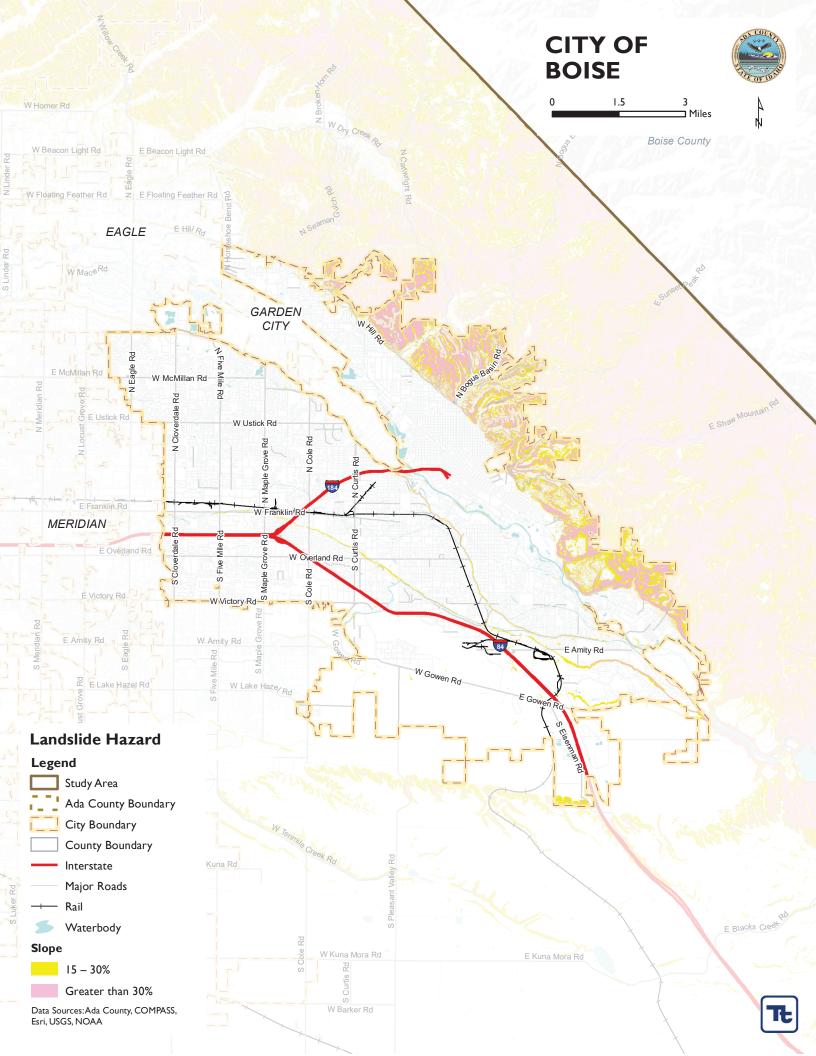


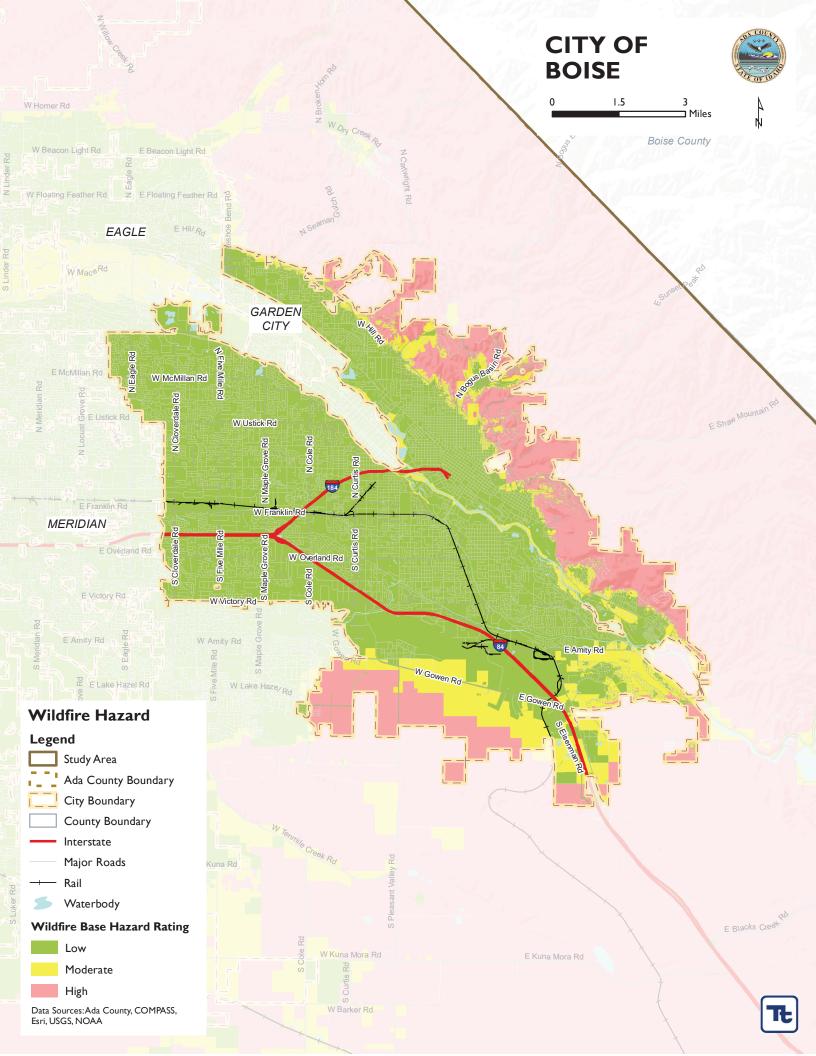












3. CITY OF EAGLE

3.1 LOCAL HAZARD MITIGATION PLANNING TEAM

Primary Point of Contact

Michael Williams, CFM, Floodplain Administrator/Planner III Morgan Bessaw, CFM, Planner II 660 East Civic Lane Eagle, Idaho 83616 Telephone: 208-489-8774

e-mail Address: mwilliams@cityofeagle.org

Alternate Point of Contact

660 East Civic Lane Eagle, Idaho 83616 Telephone: 208-489-8776

e-mail Address: mbessaw@cityofeagle.org

This annex was developed by the local hazard mitigation planning team, whose members are listed in Table 3-1.

| Table 3-1. Local Hazard Mitigation Planning Team Members | | | | |
|--|--------------------------|--|--|--|
| Name Title | | | | |
| Michael Williams, CFM | Floodplain Administrator | | | |
| Morgan Bessaw, AICP, CFM | Planner II | | | |

3.2 JURISDICTION PROFILE

3.2.1 Location and Features

The City of Eagle covers approximately 31 square miles, with elevation range from 2,566 feet to 3,100 feet. Strategically placed between the Boise foothills and the Boise River, Eagle has much to offer in the way of walking, horse and bike riding, a state-of-the-art skateboard park, ponds, and other water amenities. With the intersection of the state's primary north-south highway (Highway 55) and a major east-west route (Highway 44) located in Eagle, access to and from the community is efficient and diverse.

Eagle, Idaho climate is warm during summer when temperatures tend to be in the 70s and very cold during winter when temperatures tend to be in the 30s. The warmest month of the year is July with an average maximum temperature of 87.60 degrees Fahrenheit, while the coldest month of the year is January with an average minimum temperature of 22.00 degrees Fahrenheit. Temperature variations between night and day tend to be relatively big during summer with a difference that can reach 31 degrees Fahrenheit, and fairly limited during winter with an average difference of 15 degrees Fahrenheit. The annual average precipitation at Eagle is 19.20 inches. Rainfall in is fairly evenly distributed throughout the year. The wettest month of the year is March with an average rainfall of 2.24 inches.

3.2.2 History

The City of Eagle was incorporated on May 27, 1971. Eagle's early history was set in motion when gold was discovered in the Boise Basin in 1862, as well as in other Idaho mountain locations farther north. Many chose to seek their fortune mining, but a select few came to understand that the mining towns desperately needed the agricultural products that were fast becoming the mainstay of Boise and its river valley to the west, and they centered their efforts on those needs.

3.2.3 Governing Body Format

Eagle is governed by a mayor/council form of government, with four elected council members and an elected mayor. The City Council is responsible for the adoption of this plan, the mayor is responsible for its implementation.

3.3 CURRENT TRENDS

3.3.1 Population

According to COMPASS, the population of the City of Eagle as of April 2022 was 33,960. Since 2017, the population has grown at an average annual rate of 5.2 percent.

3.3.2 Development

Single family housing still is still the most common development, however, multi-family development, and commercial development is increasing in Eagle.

Identifying previous and future development trends is achieved through a comprehensive review of permitting since completion of the previous plan and in anticipation of future development. Tracking previous and future growth in potential hazard areas provides an overview of increased exposure to a hazard within a community. Table 3-2 summarizes development trends in the performance period since the preparation of the previous hazard mitigation plan, as well as expected future development trends.

| Table 3-2. Recent and Expected Future Development Trends | | | | | |
|---|---|------------------------|--|--|--|
| Criterion | | Response | | | |
| Has your jurisdiction annexed any land since the preparation of the previous hazard mitigation plan? If yes, give the estimated area annexed and estimated number of parcels or structures. 851-acres containing approximately 15 structures. Most of the annexed to develop residential subdivisions. | | | | | |
| Is your jurisdiction expected to annex any areas during If yes, describe land areas and dominant uses. If yes, who currently has permitting authority over these areas? | the performance period of this plan? Primarily the foothills north of the city. The dominant use will be residential Ada County, Boise County, and Gem County | Yes e single-family | | | |
| Are any areas targeted for development or major redevelopment in the next five years? If yes, briefly describe, including whether any of the areas are in known hazard risk areas The city is experiencing exponential growth along with the other within the Treasure Valley. The city anticipates the growth will continue through the next HMP timeframe. Some of the area where the Continue anticipating growth is located within an area without base flood of The area is currently being studied for submittal of a Conditional Map Revision (CLOMR). | | | | | |

3-2 TETRA TECH

| Criterion | | | | | Res | ponse |
|--|---|------|------|------|------|-------|
| How many permits for new construction were issued | | 2016 | 2017 | 2018 | 2019 | 2020 |
| in your jurisdiction since the preparation of the | Single Family | 494 | 670 | 699 | 492 | 523 |
| previous hazard mitigation plan? | Multi-Family | 0 | 18 | 9 | 18 | 1 |
| | Other | 23 | 26 | 18 | 33 | 11 |
| | Total | 517 | 714 | 726 | 543 | 535 |
| Provide the number of new-construction permits for each hazard area or provide a qualitative description of where development has occurred. | Special Flood Hazard Areas: 0 Landslide: 0 High Liquefaction Areas: 0 Wildfire Risk Areas: 0 | | | | | |
| Describe the level of buildout in the jurisdiction, based on your jurisdiction's buildable lands inventory. If no such inventory exists, provide a qualitative description. | | | | | | |

3.4 CAPABILITY ASSESSMENT

This section describes an assessment of existing capabilities for implementing hazard mitigation strategies. The introduction at the beginning of this volume of the hazard mitigation plan describes the components included in the capability assessment and their significance for hazard mitigation planning.

Findings of the capability assessment were reviewed to identify opportunities to expand, initiate or integrate capabilities to further hazard mitigation goals and objectives. Where such opportunities were identified and determined to be feasible, they are included in the action plan. The "Analysis of Mitigation Actions" table in this annex identifies these as community capacity building mitigation actions. The findings of the assessment are presented as follows:

- An assessment of planning and regulatory capabilities is presented in Table 3-3.
- Development and permitting capabilities are presented in Table 3-4.
- An assessment of fiscal capabilities is presented in Table 3-5.
- An assessment of administrative and technical capabilities is presented in Table 3-6.
- An assessment of education and outreach capabilities is presented in Table 3-7.
- Information on National Flood Insurance Program (NFIP) compliance is presented in Table 3-8.
- Classifications under various community mitigation programs are presented in Table 3-9.

| | Local | Other Jurisdiction | State | Integration |
|---|-----------------------|-----------------------|-----------------|------------------|
| Codes, Ordinances, & Requirements | Authority | Authority | Mandated | Opportunity? |
| · · · · · · · · · · · · · · · · · · · | Yes | No | Yes | Yes |
| Building Code Comment: Title 7, Chapter 1, Article A adopts the 2012 Internat | | _ | | 162 |
| Zoning Code | Yes | No | Yes | Yes |
| Comment: Title 8, Chapters 1 thru 11. Adopted 4/11/2003 | 163 | NO | 163 | 163 |
| Subdivisions | Yes | No | No | Yes |
| ABAINSIONS | 100 | 140 | 110 | 100 |
| Comment: Title 9, Chapters 1 thru 6. Adopted: 11/15/1983 | | | | |
| Stormwater Management | Yes | No | No | No |
| Comment: Title 9, Chapter 4 (9-4-1-10) includes provisions for they pertain to roads. | drainage. Adopted | d 1979. *Note-ACHD de | ploys stormwa | ter standards as |
| Post-Disaster Recovery | No | No | No | No |
| Comment: | | | | |
| Real Estate Disclosure | No | Yes | Yes | No |
| Comment: Realtor Listing Disclosure Page shows if flood insura | ance is required. | | | |
| Growth Management | Yes | No | No | Yes |
| Comment: Title 7, Chapter 6 (Ord. 345, 5-11-1999)includes nev | | elopment | | |
| Site Plan Review | No | No | No | No |
| Comment: | | | | |
| Environmental Protection | No | No | No | No |
| Comment: | | | | |
| Flood Damage Prevention | Yes | No | No | Yes |
| Comment: Flood Damage Prevention Ordinance, Title 10. Last | | | NI- | NI- |
| Emergency Management | No | No | No | No |
| Comment: | No | No | No | No |
| Climate Change Comment: | INU | INO | INU | INO |
| Planning Documents | | | | |
| General Plan | Yes | No | Yes | Yes |
| s the plan equipped to provide linkage to this mitigation plan? Comment: City of Eagle Comprehensive Plan adopted 11/15/20 | Yes | INO | 163 | 163 |
| Capital Improvement Plan | Yes | No | No | Yes |
| How often is the plan updated? Yearly Comment: City of Eagle FY 2021-2025 Capital Plan Adopted O | October 27, 2020, I | Resolution 20-25 | | |
| Disaster Debris Management Plan | No | No | No | No |
| Comment: | | | | |
| Floodplain or Watershed Plan | Yes | No | No | Yes |
| Comment: The 2022 Ada County Multi-Hazard Mitigation Plan its completion and adoption. | will qualify as a flo | ood hazard managemen | t plan under Cl | RS criteria upon |
| Stormwater Plan | No | No | No | No |
| Comment: | | | | |
| Jrban Water Management Plan | No | No | No | No |

3-4 TETRA TECH

| | Local Authority | Other Jurisdiction Authority | State Mandated | Integration Opportunity? |
|---|--------------------|---------------------------------|-------------------|--------------------------|
| Habitat Conservation Plan Comment: | No | No | No | No |
| Economic Development Plan | Yes | No | No | Yes |
| Comment: Economic Development component added as part of t | he Comprehens | ive Plan | | |
| Shoreline Management Plan | No | No | No | No |
| Comment: | | | | _ |
| Community Wildfire Protection Plan | Yes | No | No | No |
| Comment: The 2022 Ada County Multi-Hazard mitigation Plan is | being prepared a | as a CWPP for the Ada | County plannii | ng area. |
| Forest Management Plan | No | No | No | No |
| Comment: | | | | |
| Climate Action Plan | No | No | No | No |
| Comment: | | | | |
| Comprehensive Emergency Management Plan | No | No | No | No |
| Comment: | | | | |
| Threat & Hazard Identification & Risk Assessment (THIRA) | Yes | No | No | Yes |
| Comment: EMCR has prepared and maintains a THIRA for the A | da county opera | tional area | | _ |
| Post-Disaster Recovery Plan | No | No | No | No |
| Comment: | | | | |
| Continuity of Operations Plan | No | No | No | No |
| Comment: | | | | _ |
| Public Health Plan | No | Yes | No | No |
| Comment: Central District Health Department Emergency Operation | tions Plan, 2013 | | | |

| Table 3-4. Development and Permitting Capability | | | | | |
|--|------------|--|--|--|--|
| Criterion | Response | | | | |
| Does your jurisdiction issue development permits? If no, who does? If yes, which department? Planning and Zoning Department. | Yes ent | | | | |
| Does your jurisdiction have the ability to track permits by hazard area? Does your jurisdiction have a buildable lands inventory? | Yes No | | | | |

| Table 3-5. Fiscal Ca | apability |
|--|--------------------------------|
| Financial Resource | Accessible or Eligible to Use? |
| Community Development Block Grants | Yes |
| Capital Improvements Project Funding | Yes |
| Authority to Levy Taxes for Specific Purposes | Yes |
| User Fees for Water, Sewer, Gas or Electric Service | Yes |
| If yes, specify: Water | |
| Incur Debt through General Obligation Bonds | Yes |
| Incur Debt through Special Tax Bonds | Yes |
| Incur Debt through Private Activity Bonds | No |
| Withhold Public Expenditures in Hazard-Prone Areas | Yes |
| State-Sponsored Grant Programs | Yes |
| Development Impact Fees for Homebuyers or Developers | Yes |

| | Table 3-6. Administrative and Technical Capability | |
|--|--|------------|
| Staff/Personnel Resource | | Available? |
| Planners or engineers with known of Yes, Department /Position: | owledge of land development and land management practices Eagle Planning and Zoning | Yes |
| | ined in building or infrastructure construction practices | Yes |
| Planners or engineers with an If Yes, Department /Position: | understanding of natural hazards Floodplain Administrator | Yes |
| Staff with training in benefit/co | | Yes |
| Surveyors If Yes, Department /Position: | | No |
| Personnel skilled or trained in If Yes, Department /Position: | | Yes |
| Scientist familiar with natural I | hazards in local area | Yes |
| Emergency manager If Yes, Department /Position: | Ada County Emergency Management | Yes |
| Grant writers If Yes, Department /Position: | Steve Noyes, Trails and Pathways Superintendent | Yes |
| Other If Yes, Department /Position: | , · | No |

| Table 3-7. Education and Outreach Capability | |
|---|---------------------|
| Criterion | Response |
| Do you have a public information officer or communications office? | Yes (Ellen Mattila) |
| Do you have personnel skilled or trained in website development? | Yes (Ellen Mattila) |
| Do you have hazard mitigation information available on your website? If yes, briefly describe: Floodplain Information | Yes |
| Do you use social media for hazard mitigation education and outreach? If yes, briefly describe: Ada County & City Social Media | Yes |
| Do you have any citizen boards or commissions that address issues related to hazard mitigation? If yes, briefly describe: Planning & Zoning, Comprehensive Plan | Yes |
| Do you have any other programs in place that could be used to communicate hazard-related information? If yes, briefly describe: Website, email blast, PSA | Yes |
| Do you have any established warning systems for hazard events? If yes, briefly describe: Code Red/ISAWS – residents may sign up to receive emergency notifications and Both systems are IPAWS enabled and may additionally access that integrated systems. | |

| Table 3-8. National Flood Insurance Program Compliance | | | |
|--|--|--|--|
| Criterion | Response | | |
| What local department is responsible for floodplain management? | Eagle Planning and Zoning | | |
| Who is your floodplain administrator? (department/position) | Mike Williams, CFM, Planning and Zoning, Planner III | | |
| Are any certified floodplain managers on staff in your jurisdiction? | Yes (Mike Williams/Morgan Bessaw) | | |

3-6 TETRA TECH

| Criterion | Response |
|---|------------|
| What is the date that your flood damage prevention ordinance was last amended? | 07/23/2019 |
| Does your floodplain management program meet or exceed minimum requirements? If exceeds, in what ways? Higher Standards | Exceed |
| When was the most recent Community Assistance Visit or Community Assistance Contact? | 10/2020 |
| Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? If so, state what they are. | No |
| Are any RiskMAP projects currently underway in your jurisdiction? If so, state what they are. | No |
| Do your flood hazard maps adequately address the flood risk within your jurisdiction? <i>If no, state why.</i> | Yes |
| Does your floodplain management staff need any assistance or training to support its floodplain management program? If so, what type of assistance/training is needed? Continuing Education | Yes |
| Does your jurisdiction participate in the Community Rating System (CRS)? If yes, is your jurisdiction interested in improving its CRS Classification? Yes If no, is your jurisdiction interested in joining the CRS program? | Yes |
| How many flood insurance policies are in force in your jurisdiction? ^a What is the insurance in force? \$113,010,600 What is the premium in force? \$209,571 | 312 |
| How many total loss claims have been filed in your jurisdiction? ^a What were the total payments for losses? \$198,703 | 15 |

a. According to FEMA statistics as of March 31, 2022

| Table 3-9. Community Classifications | | | | |
|--|----------------|----------------|-----------------|--|
| | Participating? | Classification | Date Classified | |
| FIPS Code | Yes | 1600120380 | N/A | |
| DUNS# | Yes | 024950599 | N/A | |
| Community Rating System | Yes | 7 | 07/19/2021 | |
| Building Code Effectiveness Grading Schedule | Yes | C3/R4 | N/A | |
| Public Protection | Yes | 3/9 | N/A | |
| Storm Ready | Yes | Participant | N/A | |
| Firewise | No | N/A | N/A | |

3.5 INTEGRATION REVIEW

For hazard mitigation planning, "integration" means that hazard mitigation information is used in other relevant planning mechanisms, such as general planning and capital facilities planning, and that relevant information from those sources is used in hazard mitigation. This section identifies where such integration is already in place, and where there are opportunities for further integration in the future. Resources listed at the end of this annex were used to provide information on integration. The progress reporting process described in Volume 1 of the hazard mitigation plan will document the progress of hazard mitigation actions related to integration and identify new opportunities for integration.

3.5.1 Existing Integration

Some level of integration has already been established between local hazard mitigation planning and the following other local plans and programs:

- Eagle Comprehensive Plan, Chapter 6
- Eagle Comprehensive Plan, Chapter 7
- Eagle Comprehensive Plan, Chapter 11

3.5.2 Opportunities for Future Integration

The capability assessment presented in this annex indicates opportunities to integrate this mitigation plan with other jurisdictional planning/regulatory capabilities. Capabilities were identified as integration opportunities if they can support or enhance the actions identified in this plan or be supported or enhanced by components of this plan. The capability assessment identified the following plans and programs that do not currently integrate hazard mitigation information but provide opportunities to do so in the future:

- All future updates to the City of Eagle Comprehensive Plan—the comprehensive plan will continue to use hazard mapping and hazard data in updates of the land use, hazard areas, and implementation chapters.
- Future Emergency Operation Plan updates for the City of Eagle—updates to the EOP will consider the natural and human-caused hazards in this HMP when developing strategies for emergency operations.

Taking action to integrate each of these programs with the hazard mitigation plan was considered as a mitigation action to include in the action plan in this annex.

3.6 RISK ASSESSMENT

3.6.1 Jurisdiction-Specific Natural Hazard Event History

Table 3-10 lists past occurrences of natural hazards for which specific damage was recorded in this jurisdiction Other hazard events that broadly affected the entire planning area, including this jurisdiction, are listed in the risk assessments in Volume 1 of this hazard mitigation plan.

3.6.2 Hazard Risk Ranking

Table 3-11 presents a local ranking of all hazards of concern for which this hazard mitigation plan provides complete risk assessments. As described in detail in Volume 1, the ranking process involves an assessment of the likelihood of occurrence for each hazard, along with its potential impacts on people, property and the economy. Mitigation actions target hazards with high and medium rankings.

3-8 TETRA TECH

| Table 3-10. Past Natural Hazard Events | | | | |
|--|-----------------|----------------------|-------------------------|--|
| Type of Event | FEMA Disaster # | Date | Damage Assessment | |
| COVID-19 Pandemic | DR-4534 | 1/20/2020-present | unknown | |
| Flooding | DR-4342 | 3/29/2017-06/15/2017 | Countywide: \$4,493,792 | |
| Rain on Snow Flood | N/A | 2012 | N/A | |
| Wildfire | N/A | 07/28/2010 | \$7,000,000 | |
| Wildland Fire | N/A | 07/11/2010 | N/A | |
| Wildland Fire | N/A | 08/29/2009 | N/A | |
| Severe Storm | N/A | 01/02/2009 | N/A | |
| Wildland Fire | N/A | 09/18/2008 | N/A | |
| Wildland Fire | N/A | 08/08/2006 | N/A | |
| Severe Storm | N/A | 07/04/2006 | N/A | |
| Flood | N/A | 6/2006 | \$500,000.00 | |
| Flood | N/A | 6/2006 | \$100,000.00 | |
| Flood | N/A | 1/1-5/1997 | No estimates available | |
| Flood | N/A | 7/1983 | \$50,000 | |

| | | Table 3-11. Hazard Risk Ranking | |
|------|-------------------|---------------------------------|---------------|
| Rank | Hazard | Risk Ranking Score | Risk Category |
| 1 | Extreme Weather | 33 | High |
| 2 | Flood | 24 | Medium |
| 3 | Wildfire | 22 | Medium |
| 4 | Dam/Canal Failure | 18 | Medium |
| 5 | Earthquake | 16 | Medium |
| 6 | Landslide | 12 | Low |
| 7 | Drought | 9 | Low |
| 8 | Volcano | 6 | Low |

3.6.3 Jurisdiction-Specific Vulnerabilities

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. This section provides information on a few key vulnerabilities for this jurisdiction. Available jurisdiction-specific risk maps of the hazards are provided at the end of this annex.

Repetitive Loss Properties

Repetitive loss records are as follows:

- Number of FEMA-identified Repetitive-Loss Properties: 1
- Number of FEMA-identified Severe-Repetitive-Loss Properties: N/A
- Number of Repetitive-Loss Properties or Severe-Repetitive-Loss Properties that have been mitigated: N/A

TETRA TECH

Other Noted Vulnerabilities

The following jurisdiction-specific issues have been identified based on a review of the results of the risk assessment, public involvement strategy, and other available resources:

- Isolation Some access in and out of the City are on State Highways and ACHD roadways which are located within areas of special flood hazard. These facilities may be impacted during a flood event (ie. bridges) and adjacent roadways which may not allow vehicular access.
- ITD and ACHD roadway drainage facilities may become overburdened and cause flooding in some areas of the City.
- A hospital is located within an area of special flood hazard and may not be accessible during a 1%-chance flood event.
- The Eagle Sewer District wastewater treatment plant is located in close proximity to the river and may be breached during a major flood event.
- Irrigation canal failures There are several irrigation canals located throughout the City which in the event of a bank failure would cause damage to surrounding properties and structures.

Mitigation actions addressing these issues were prioritized for consideration in the action plan in this annex.

3.7 STATUS OF PREVIOUS PLAN ACTIONS

Table 3-12 summarizes the actions that were recommended in the previous version of the hazard mitigation plan and their implementation status at the time this update was prepared.

| Table 3-12. Status of Previous Plan Ac | tions | | | |
|---|-----------|-----------------------|--------------|-----------------------|
| | | Removed; | | ed Over to Update |
| Action Item from Previous Plan | Completed | No Longer Feasible | Check if Yes | Action # in Update |
| Action E-1 —Partner with Federal Agencies to install electronic flow monitoring stations on the North Channel of the Boise River Eagle Rd Bridge and Dry Creek Drainage at the Eagle Rd Bridge. Both monitoring stations shall be capable of feeding data to USGS stream flow web site, or other applicable collection sources. | | | ✓ | E-10 |
| Comment: No progress | | | | |
| Action E-2 —Partner with ACHD on bridge replacement of Dry Creek Bridge @ Floating Feather, w/o Eagle Rd Replacement. Replace structure to increase freeboard reduce restriction on Dry Creek. | ✓ | | | |
| Comment: Completed in 2018 | | | | |
| Action E-3 —Maintain good standing under the National Flood Insurance Program by implementing programs that meet or exceed the minimum NFIP requirements. Such programs include but are not limited to; enforcing an adopted flood damage prevention ordinance, participating in floodplain mapping updates, and providing public assistance and information on floodplain requirements and impacts. | | | ✓ | E-4 |
| Comment: Ongoing | | | | |
| Action E-4 —Continue to maintain/enhance the City's classification under the Community Rating System Comment: Ongoing | | | ✓ | E-11 |

3-10 TETRA TECH

| | | Removed; | | ed Over to 1 Update |
|--|-----------|-----------------------|--------------|------------------------|
| Action Item from Previous Plan | Completed | No Longer Feasible | Check if Yes | Action # in Update |
| Action E-5—Integrate Multi-Hazard Mitigation Plan into future updates to the City of Eagle Comprehensive Plan. Comment: Ongoing | | | ✓ | E-2 |
| Action E-6 —Where appropriate, support retrofitting, purchase, or relocation of structures located in hazard-prone areas to protect structures from future damage, with properties with exposure to repetitive losses as a priority. | | | ✓ | E-1 |
| Comment: Retain as ongoing since the city has a repetitive loss property Action E-7 —Consider appropriate higher regulatory standards that prevent or reduce risk to the built environment from the known hazards of concern. | | | ✓ | E-12 |
| Comment: Ongoing – working on wildland urban interface ordinance | | | | |
| Action E-8 —Consider the formation of a Surface Water Utility district and/or a Capital Improvements program for drainage, as a method of funding the mitigation of stormwater impacts created by new development. | | ✓ | | |
| Comment: Remove – ACHD jurisdiction | | | | |
| Action E-9—Partner with other appropriate agencies within the planning area, such as Ada County, in the development of a comprehensive stormwater management plan that will evaluate the projected impacts of future development in the watersheds that impact the City of Eagle and make regional recommendations to mitigate those impacts. *Comment: Remove – ACHD jurisdiction* | | √ | | |
| Action E-10—Support County-wide initiatives identified in Volume 1. | | | √ | E-13 |
| Comment: Ongoing | | | ' | E-13 |
| Action E-11 —Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Volume 1. | | | ✓ | E-3 |
| Comment: Ongoing Action E-12 —In partnership with Eagle Fire Protection district, continue to support wildfire mitigation projects such as those sponsored by the Healthy Hills initiative within the eagle City limits or urban growth area. | | | ✓ | E-7 |
| Comment: Working with Eagle Fire Protection District on a Wildland Urban Interface O | rdinance | | | |
| Action E-13—Whenever possible, coordinate with local experts and employ natural environmental processes in mitigation activities that increase ecosystem resilience and reduce the impacts of flooding on the built environment. | | | ✓ | E-8 |
| Comment: Working with Karl Gebhardt from Natural Resources Inc. | | | | |

3.8 HAZARD MITIGATION ACTION PLAN

Table 3-13 lists the identified actions, which make up the hazard mitigation action plan for this jurisdiction. Table 3-14 identifies the priority for each action. Table 3-15 summarizes the mitigation actions by hazard of concern and mitigation type.

| | Та | able 3-13. Hazar | d Mitigation Actio | on Plan Matrix | | |
|--|--|--|--|------------------------|---|-----------------------|
| Benefits New or Existing Assets | Objectives Met | Lead Agency | Support Agency | Estimated Cost | Sources of Funding | Timeline ^a |
| Action E-1—Where | e appropriate, support | retrofitting, purchase | e or relocation of stru | ctures located in ha | | |
| have experienced representation Hazards Mitigated: | repetitive losses and/or | • | or medium-risk haza n/Canal Failure, Eartl | | | |
| | 3, 8, 9 | Eagle Planning & | EMCR | High | HMGP, BRIC, | Short-term |
| Existing | 5, 0, 9 | Zoning & | EWICK | пуп | FMA, Increased Cost of Compliance (ICC) | Short-term |
| _ | rate the hazard mitigations are the hazard mitigations are the city of | • | | programs that dicta | te land use decisio | ns in the |
| Hazards Mitigated: | • | | n/Canal Failure, Eartl | hquake, Landslide | | |
| New & Existing | 2, 5, 6 | Eagle Planning & Zoning | N/A | Low | Staff Time, General Funds | Ongoing |
| | ely participate in the pla | • | | | • . | |
| Hazards Mitigated: | | | n/Canal Failure, Eartl | · | | |
| New & Existing | All | City of Eagle | EMCR | Low | Staff Time, General Funds | Short-term |
| programs that, at aEnforce the floorParticipate in floor | nue to maintain good s minimum, meet the NF d damage prevention o odplain identification a ssistance/information of Flood | FIP requirements: ordinance. Indinance indinan | 3 . | - ' | · | ū |
| New & Existing | 2, 3, 4, 6, 8, 9 | City of Eagle | N/A | Low | Staff Time, General Funds | Ongoing |
| strategies that coul | dinate with community statements | esilience in relation | to future climate con | | y and pursue adapt | ve capacity |
| Hazards Mitigated: New & Existing | 2, 3, 4, 6, 9, 10 | Flood, Wildfire, Dro City of Eagle | bugni | Low | Staff Time, | Short-term |
| New & Existing | 2, 3, 4, 0, 9, 10 | City of Eagle | | LOW | General Funds | Short-term |
| | hase generators for crit | | | adequate backup p | ower, including Lex | ington Hills well. |
| Hazards Mitigated: | | Earthquake, Drough | nt | | 0, 5, 7 | • |
| Existing | 1, 6, 10 | City Water Department | | Med | Staff Time, General Funds, HMBP, BRIC | Ongoing |
| support wildfire mit | rtnership with Eagle Fi igation projects such a Eagle Fire Protection D Wildfire | s those sponsored b | y the Healthy Hills In | nitiative within the E | agle city limits or un | |
| New & Existing | 2, 4, 5, 6, 7, 8, 9 | City of Eagle | Eagle Fire Protection, Middleton Rural Fire District, Star Fire Protection District | Low | Staff Time HMGP, BRIC | Ongoing |

3-12 TETRA TECH

Acronyms used here are defined at the beginning of this volume.

| Benefits New or Existing Assets | Objectives Met | Lead Agency | Support Agency | Estimated Cost | Sources of Funding | Timeline ^a |
|---|--|---|---|-----------------------|--|-----------------------|
| Action E-8—Wher | never possible, coordina | ate with local expert | s and employ natural | environmental pro | | activities that |
| - | n resilience and reduce | • | _ | ronment. | | |
| lazards Mitigated: | | | | | | |
| New & Existing | 2, 4, 5, 6, 8 | City of Eagle | EMCR, Fire Departments, USACE | Low | Staff Time, HMG, BRIC | Ongoing |
| olan is necessary t nis all-discipline ad District Action ESD | lop a Joint Emergency of o establish a single, conction, but Eagle Sewer ID-7 and Eagle Fire Prote | mprehensive frame District and Eagle F | work for the manager ire District will aid in p | ment of domestic in | cidents. The City of | Eagle will lead |
| lazards Mitigated: | | | | l | | . |
| New and Existing | All | City of Eagle | Eagle Sewer District, Eagle Fire District | Medium | City Funds, District Funds, HMGP | Short-term |
| | | | nall be capable of fee | | | |
| Action E-11— Cor | ntinue to maintain/enha | nce the City's classi | | mmunity Rating Sy | rstem | |
| - Hazards Mitigated: | | • | | , , , | | |
| New and Existing | 2, 3, 4, 6, 8, 9 | City of Eagle | | Low | General Funds | Ongoing |
| Action E-12— Cor azards of concerr | nsider appropriate highe | er regulatory standa | rds that prevent or re | duce risk to the bui | It environment from | the known |
| lazards Mitigated: | Extreme Weather, | Flood, Wildfire, Da | m/Canal Failure, Earl | thquake, Landslide, | , Drought | |
| New and Existing | 4, 6 | Eagle Planning and Zoning | | Low | General Funds | Short-term |
| | pport County-wide initiat | | | | | |
| lazards Mitigated: | | | m/Canal Failure, Earl | thquake, Landslide, | | |
| Januara Distriction | 1, 2, 3, 4, 5, 6, 7, 8, 9, | City of Eagle | EMCR | Low | General Funds, Staff Time | Ongoing |
| new and Existing | 10 | | | | | |
| Action E-14— Cre connect to the larg current pathways a | eate green infrastructure er pathway that adjoins as alternate transportation ir canal systems as nee | the Boise River. Thon, which will reduc | is system will provide | e additional routes t | for bicyclists who al | ready use the |

| Table 3-14. Mitigation Action Priority | | | | | | | | |
|--|---------------------------|----------|--------|---|-----------------------------------|---|---|---|
| Action # | # of Objectives Met | Benefits | Costs | Do Benefits Equal or Exceed Cost? | Is Project Grant- Eligible? | Can Project Be Funded Under Existing Programs/ Budgets? | Implementation Priority ^a | Grant Pursuit Priority ^a |
| 1 | 3 | High | High | Yes | Yes | No | Medium | High |
| 2 | 7 | Medium | Low | Yes | No | Yes | High | Low |
| 3 | 3 | Low | Low | Yes | No | Yes | High | Low |
| 4 | 6 | Medium | Low | Yes | No | Yes | High | Low |
| 5 | 6 | Medium | Low | Yes | No | Yes | High | Low |
| 6 | 3 | High | Medium | Yes | Yes | No | Medium | High |
| 7 | 7 | Medium | Low | Yes | Yes | No | Medium | Medium |
| 8 | 5 | Medium | Low | Yes | Yes | No | Medium | Medium |
| 9 | 10 | Low | Low | Yes | Yes | Yes | High | Medium |
| 10 | 4 | Low | Medium | No | Yes | No | Low | Medium |
| 11 | 6 | Medium | Low | Yes | No | Yes | High | Low |
| 12 | 2 | Medium | Low | Yes | No | Yes | High | Low |
| 13 | 10 | Low | Low | Yes | No | Yes | High | Low |
| 14 | 2 | Low | High | No | Yes | No | Low | Medium |

a. See the introduction to this volume for explanation of priorities.

| Table 3-15. Analysis of Mitigation Actions | | | | | | | | | |
|--|---------------------|---|------------------------------------|-----------------------------------|-----------------------|------------------------|-----------------------|--|--|
| | | Action Addressing Hazard, by Mitigation Type ^a | | | | | | | |
| Hazard Type | Prevention | Property Protection | Public Education & Awareness | Natural Resource Protection | Emergency Services | Structural Projects | Climate Resilience | Community Capacity Building ^b | |
| High-Risk Hazards | | | | | | | | | |
| Extreme Weather | E-12 | E-1 | | | E-6 | | E-5 | E-2, 3, 8, 9, 10, 13 | |
| Medium-Risk Haza | Medium-Risk Hazards | | | | | | | | |
| Flood | E-4, 11, 12 | E-1, 11 | E-4 | | | | E-5 | E-2, 3, 4, 8, 9, 10, 13 | |
| Wildfire | E-12 | E-1 | | E-7 | | | E-5 | E-2, 3, 9, 10, 13 | |
| Dam/Canal Failure | E-12 | E-1 | | E-14 | | E-14 | | E-2, 3, 7, 8, 9, 10, 13, 14 | |
| Earthquake | E-12 | E-1 | | | E-6 | | | E-2, 3, 9, 13 | |
| | | | | | | | | | |
| Landslide | E-12 | E-1 | | | | | | E-2, 3, 9, 13 | |
| Drought | E-12 | | | | E-6 | | E-5 | E-3, 9, 13 | |
| Volcano | | | | | | | | E-3, 9, 13 | |

a. See the introduction to this volume for explanation of mitigation types.

3-14 TETRA TECH

b. In addition to the community capacity building actions listed in this table, this jurisdiction is expanding its financial capabilities through its participation in and adoption of this hazard mitigation plan, which establishes grant-funding eligibility.

3.9 PUBLIC OUTREACH

Table 3-16 lists public outreach activities for this jurisdiction.

| Table 3-16. Local Public Outreach | | | | | | |
|---|-------|------------------------------|--|--|--|--|
| Local Outreach Activity | Date | Number of People Involved | | | | |
| Meeting with Banbury HOAs | 03/17 | 100+ | | | | |
| Flood Insurance Rate Map Information (Realtors, Lending Institutions) | 01/18 | 100+ | | | | |
| Property owners within ASFH | 01/20 | 50 | | | | |
| Property owners within ASFH | 01/21 | 50 | | | | |

3.10 INFORMATION SOURCES USED FOR THIS ANNEX

The following technical reports, plans, and regulatory mechanisms were reviewed to provide information for this annex.

- **2017 Ada County Multi-Hazard Mitigation Plan** The previous HMP was reviewed to update this annex.
- **City of Eagle Municipal Code**—The municipal code was reviewed for the full capability assessment and for identifying opportunities for action plan integration.
- City of Eagle Flood Damage Prevention Ordinance—The flood damage prevention ordinance was reviewed for compliance with the National Flood Insurance Program.

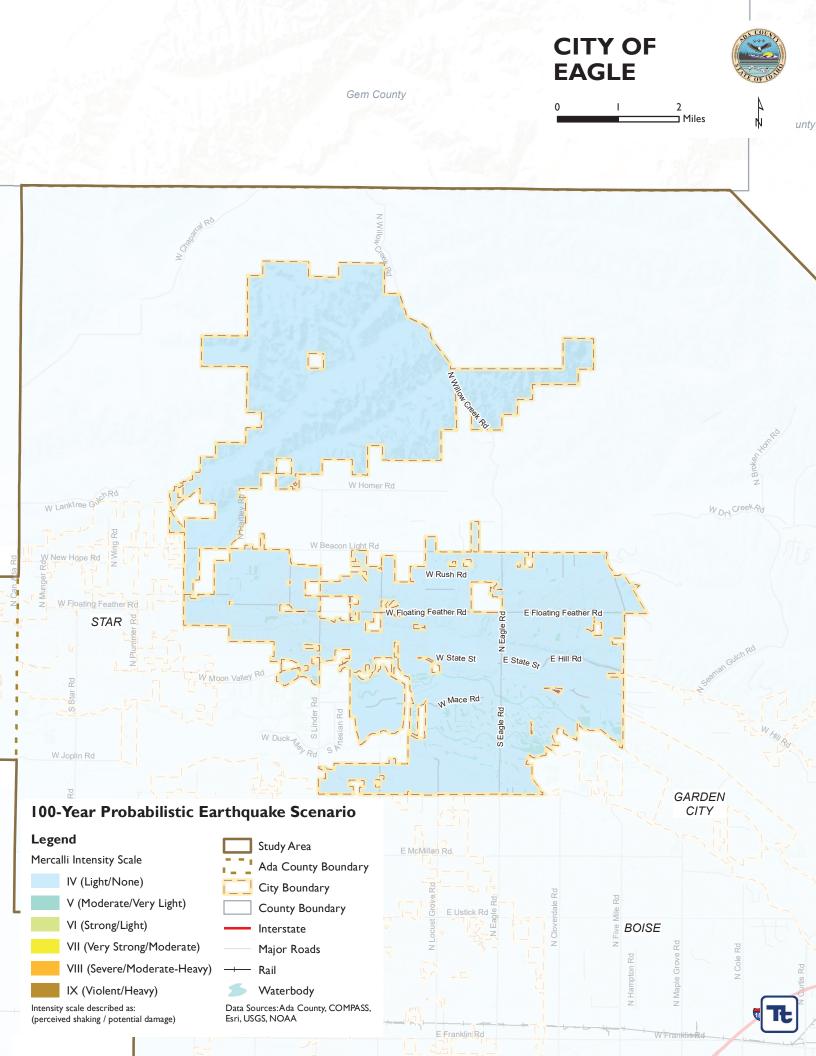
The following outside resources and references were reviewed:

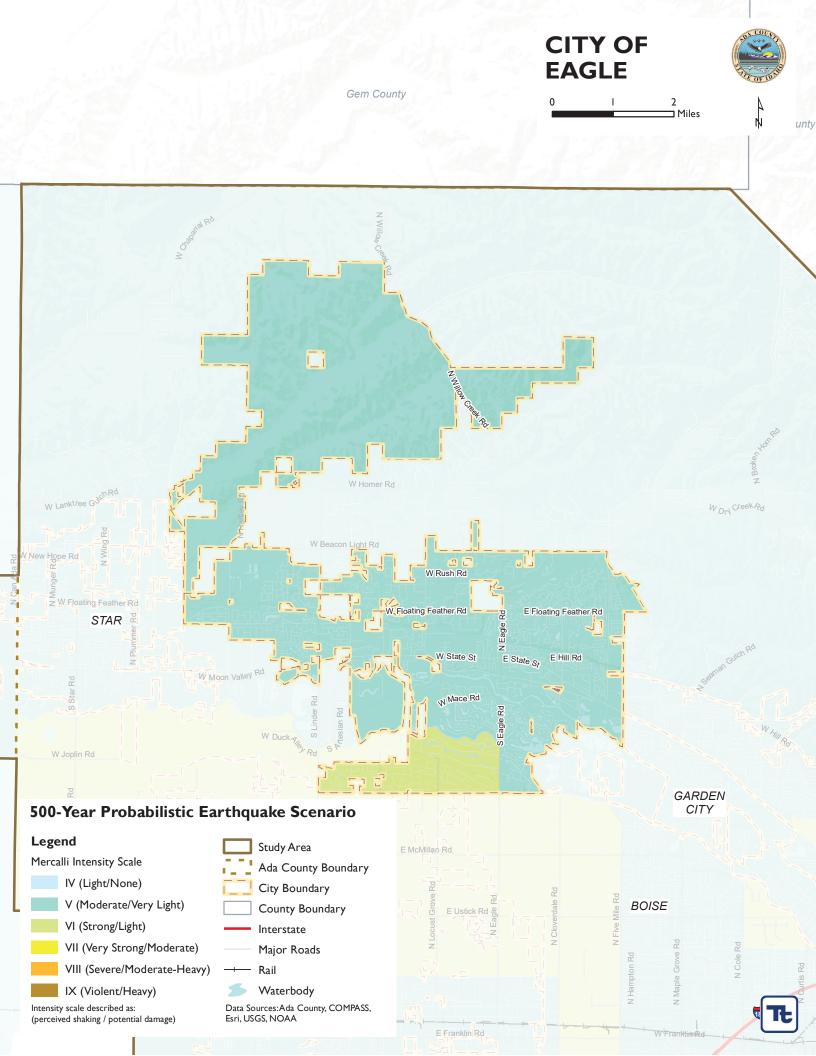
• Hazard Mitigation Plan Annex Development Toolkit—The toolkit was used to support the identification of past hazard events and noted vulnerabilities, the risk ranking, and the development of the mitigation action plan.

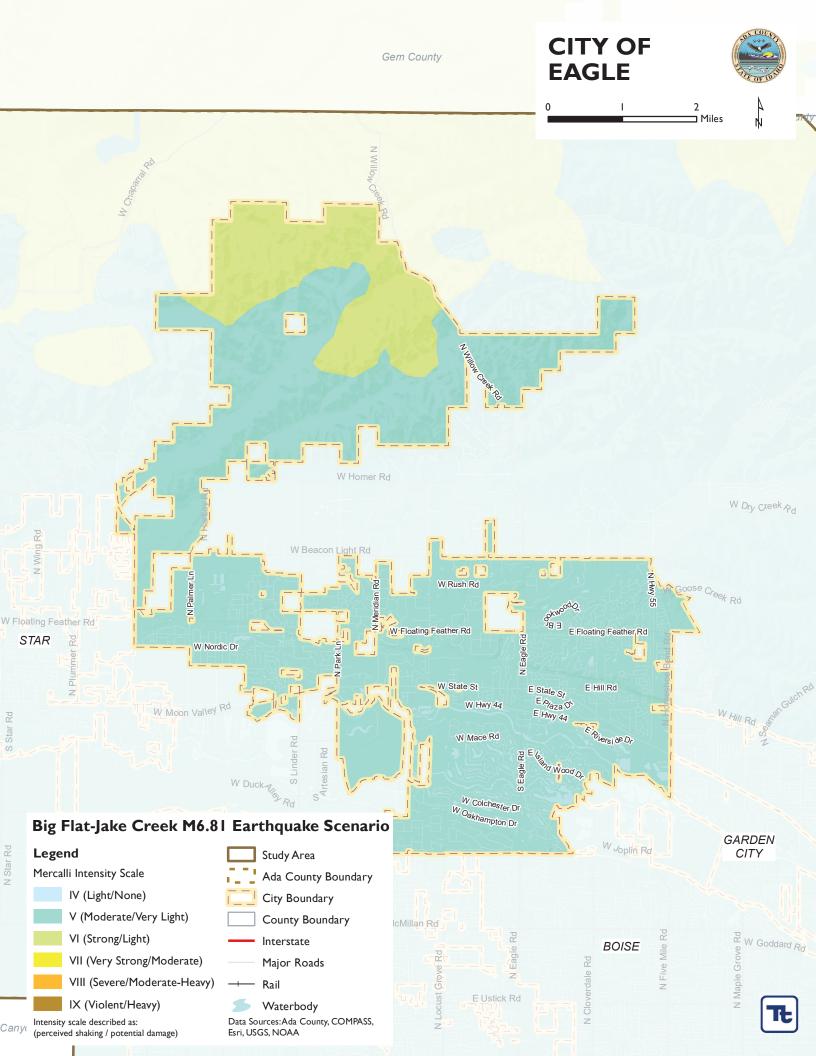
CITY OF EAGLE Gem County ☐ Miles W Rush Rd W Floating Feather Rd E Floating Feather Rd W State St E State St E Hill Rd N Mace Rd **GARDEN** CITY

Lucky Peak Dam Failure **Inundation Area** Legend Maximum Pool Inundation Area Area inundated by dam failure occuring when pool elevation is at the top of the impounding structure. Study Area Ada County Boundary City Boundary **MERIDIAN** County Boundary Interstate Major Roads BOISE 2 Rail Waterbody Data Sources: Ada County, COMPASS, Esri, USGS, Can NOAA, IDWR

CITY OF Gem County **EAGLE** W Homer Rd W Dry Creek Rd W Rush Rd W Floating Feather Rd W-Floating Feather Rd E Floating Feather Rd STAR N Eagle Rd W State St E State St E Hill Rd W HILL Rd **NEHRP Soil Classes** W Mace Rd Legend S Eagle Rd C (Dense soil/soft rock) D (Stiff soil) E (Soft clay) GARDEN Study Area W Joplin Rd CITY Ada County Boundary City Boundary DIAN County Boundary Interstate BOISE Major Roads W Goddard Rd Rail Waterbody Data Sources: Ada County, COMPASS, Esri, USGS, NOAA, Idaho Geological Survey County







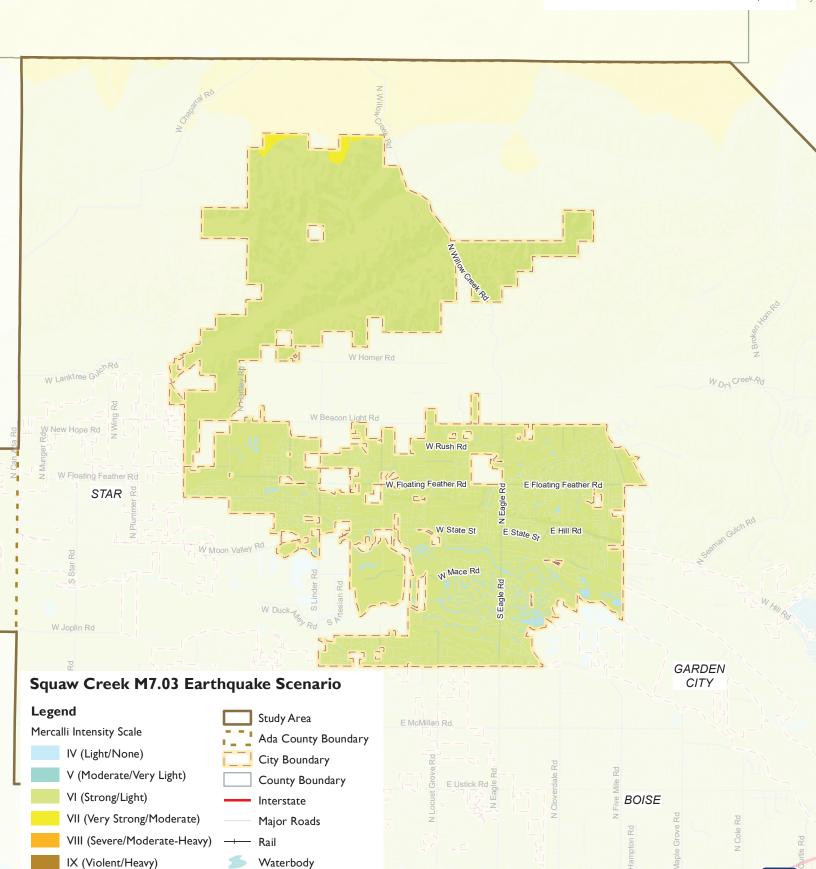
Gem County











E Franklin Rd

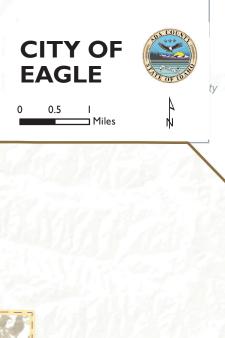
Data Sources: Ada County, COMPASS,

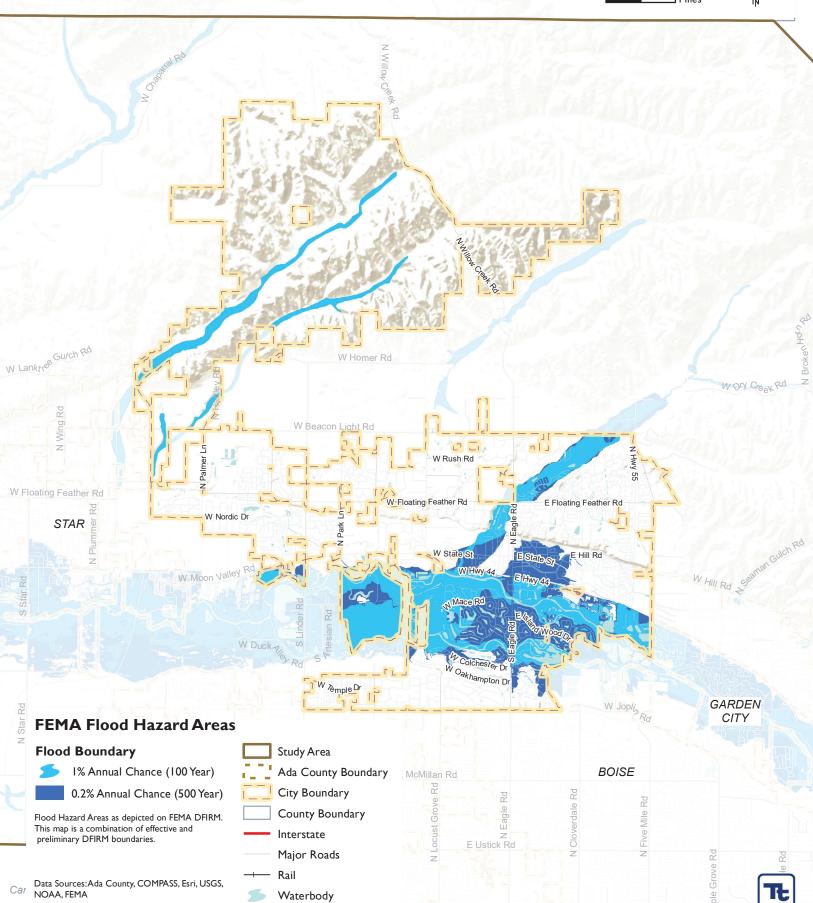
Esri, USGS, NOAA

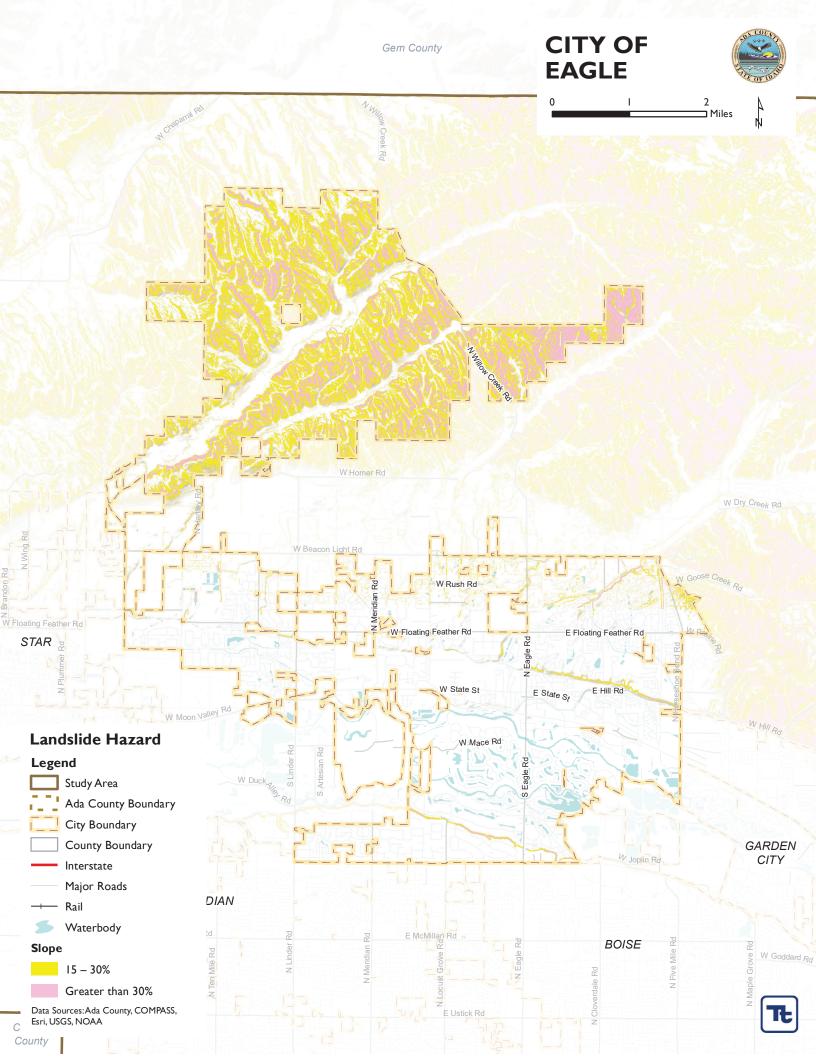
Intensity scale described as:

(perceived shaking / potential damage)

Gem County







4. CITY OF GARDEN CITY

4.1 LOCAL HAZARD MITIGATION PLANNING TEAM

Primary Point of Contact

Jenah Thornborrow, Development Services Director 6015 N Glenwood Garden City, ID 83714

Telephone: (208) 472-2924

e-mail Address: jthorn@gardencityidaho.org

Alternate Point of Contact

Colin Schmidt, Public Works Director 6015 N Glenwood

Garden City, ID 83714 Telephone: (208) 472-2949

e-mail Address: cschmidt@gardencityidaho.org

This annex was developed by the local hazard mitigation planning team, whose members are listed in Table 4-1.

| Table 4-1. Local Hazard Mitigation Planning Team Members | | |
|--|---|--|
| Name | Title | |
| Colin Schmidt | Public Works Director | |
| Jenah Thornborrow | Development Services Director | |
| Kena Champion | Development Services Administrative Assistant | |

4.2 JURISDICTION PROFILE

4.2.1 Location and Features

Garden City is nestled between Boise, Meridian, and Eagle lining the north and south banks of the Boise River. City elevations range from 2,550 feet to 2,698 feet, with an average of 2,620.9 feet. Garden City spans over the townships, sections, and ranges; 3N2E05 to 06, 4N1E14, 4N1E23 to 26, 4N1E36, 4N2E19, and 4N2E30 to 32.

Garden City has an average temperature of 52.0°F and receives an average of 12.19 inches of annual precipitation since 1865. Summers are typically warm to hot and dry averaging 71.9°F for June, July, and August since 1865. Winters are generally cold and dry with occasional snow showers averaging 32.5°F for December, January, and February since 1865. Spring and Fall are both mild with light precipitation averaging 51.0°F for March, April, and May and 52.3°F for September, October, and November since 1865.

4.2.2 History

Garden City was incorporated on May 22, 1949. The history of Garden City is tied to the Boise River which runs the length of the city. Native Americans camped on the riverbanks. The higher ground, known as "Government

Island," was first a temporary military camp and later used by the U.S. Cavalry for pastures. The river often flooded the entire city area to the bench and deposited silt that created the rich agricultural soil.

During the 1920s, Thomas Jefferson Davis bought Government Island for agricultural use. Chinese farmed the area in small gardens, providing produce for residents and miners. Over time, the Chinese were forced out and by the 1940s just two families remained in the area. However, the legacy of the Chinese remains in the name of the city, which is derived from their gardens, and Chinden Boulevard, which was named in a contest, is derived from the "Chinese Garden."

The "Village of Garden City" was incorporated in 1949 primarily for gambling. The "original townsite" encompassed 100 acres, including the area from 32nd to 37th streets. Before 1949, the area was unincorporated Ada County land. Developers had a vision for duplex housing and filed a subdivision with 50- by 150-foot lots along Chinden and 100- by 300-foot commercial lots. The streets were numbered in different directions to distinguish the area from Boise.

Gambling proceeds made Garden City a boomtown. The next year, annexations doubled the population of the village to approximately 800. Gambling provided funding for sewer, water, and street lighting. Gambling was outlawed by the state Legislature in 1953, and Garden City was expected to go away. Boise coveted Garden City's liquor license revenues and there were several attempts at disincorporation. But in 1967, the village was chartered as a city. Much of the development of Garden City over the next few decades was a result of few landuse regulations or oversite.

In 2006 there was a large planning effort in the form of a new comprehensive plan and subsequent supportive zoning. This effort garnered considerable public support and supported a revisioning of the city.

The city has grown to incorporate roughly 4 square land miles from the Boise Bench on the south State Street on the north and Horseshoe Bend Road/ Branstetter Road on the west. The city is essentially built out but is in the process of infill development. While at one time the City had a sordid reputation, the City is becoming increasingly popular and is of the highest valued property in the valley.

4.2.3 Governing Body Format

Garden City is governed by a Mayor and four City Council members. There is a Planning and Zoning Commission, Library Board, and Design Review Committee with certain decision-making abilities. Recommending bodies include the Planning and Zoning Commission, Design Review Committee, and Parks and Waterways Committee.

The City Council is responsible for the adoption of this plan, the effected city departments are responsible for its implementation.

4.3 CURRENT TRENDS

4.3.1 Population

According to COMPASS, the population of Garden City as of April 2022 was 13,040. Since 2017, the population has grown at an average annual rate of 2.7 percent.

4-2 TETRA TECH

4.3.2 Development

Garden City sees a mix of commercial and residential uses. There is diversity in the residential stock of housing ranging from affordable to higher-end homes. Traditionally due to lenient zoning standards, much of the nonresidential uses were industrial, and much of the housing in the eastern portion of the city was in mobile/manufactured home parks. The developments north of the river and west of Glenwood are newer and mostly built with commercial uses that enjoy heavy automobile use along the arterials, with residential subdivisions on slightly larger lots that reflect a suburban character with curvilinear streets and cul-de-sacs.

Garden City has an enviable location. It is adjacent to the Boise River, is linked with major transportation arterials, and is close to downtown Boise, the commercial center of the Treasure Valley. While there is very little property available for greenfield development, many properties are under-utilized and ideal for infill development. As the valley continues to spread out and vehicle commuting becomes more difficult, and as trends continue to favor more compact development with a mix of uses, Garden City will continue to become even more desirable. Considering these factors, Garden City provides a market for the redevelopment of under-utilized properties.

Garden City is seeing fewer industrial uses. As the valley grows the housing types are shifting where the city is redeveloping. Many of the properties that were previously mobile/manufactured home communities are being redeveloped. Garden City continues to see an increase in mixed-use development, particularly artisans and small businesses, and increasing residential densities.

Identifying previous and future development trends are achieved through a comprehensive review of permitting since completion of the previous plan and in anticipation of future development. Tracking previous and future growth in potential hazard areas provides an overview of increased exposure to a hazard within a community. Table 1-2 summarizes development trends in the performance period since the preparation of the previous hazard mitigation plan, as well as expected future development trends.

| Table 4-2. Recent and Expected Future Development Trends | | | | | | |
|---|----------------------------------|------------|----------|------------|---------------------------------|-----------------|
| Criterion | | | | Respo | onse | |
| Has your jurisdiction annexed any land since the preparties, give the estimated area annexed and estimated number of parcels or structures. | | | | I to conta | Ye ain 24 lots. | - |
| Is your jurisdiction expected to annex any areas during | the performance period of this | s plan? | | | This is r driv | |
| If yes, describe land areas and dominant uses. If yes, who currently has permitting authority over these areas? | TBD If annexed, Garden City | | | | | |
| Are any areas targeted for development or major redev | elopment in the next five years | ? | | | The city is infill deve through | lopment out the |
| If yes, briefly describe, including whether any of the areas are in known hazard risk areas | Flood Hazard risks are anticipat | ed to affe | ct 74% o | f the City | ' . | |
| How many permits for new construction were issued | | 2016 | 2017 | 2018 | 2019 | 2020 |
| in your jurisdiction since the preparation of the | Single Family | 57 | 67 | 33 | 14 | 43 |
| previous hazard mitigation plan? | Multi-Family | N/A | N/A | 1 | 3 | 12 |
| Other 7 7 2 3 | | | | 11 | | |
| | Total | 64 | 74 | 36 | 20 | 66 |

| Criterion | | Response |
|---|---|--------------------|
| Provide the number of new-construction permits for each hazard area or provide a qualitative description of where development has occurred. | Special Flood Hazard Areas: There have been 105 perr floodplain during between 2016-2020. Landslide: 0 High Liquefaction Areas: 0 Wildfire Risk Areas: 0 | nits issued in the |

Describe the level of buildout in the jurisdiction, based Garden City is predominantly infill development on your jurisdiction's buildable lands inventory. If no such inventory exists, provide a qualitative description.

4.4 CAPABILITY ASSESSMENT

This section describes an assessment of existing capabilities for implementing hazard mitigation strategies. The introduction at the beginning of this volume of the hazard mitigation plan describes the components included in the capability assessment and their significance for hazard mitigation planning.

Findings of the capability assessment were reviewed to identify opportunities to expand, initiate or integrate capabilities to further hazard mitigation goals and objectives. Where such opportunities were identified and determined to be feasible, they are included in the action plan. The "Analysis of Mitigation Actions" table in this annex identifies these as community capacity-building mitigation actions. The findings of the assessment are presented as follows:

- An assessment of planning and regulatory capabilities is presented in Table 4-3.
- Development and permitting capabilities are presented in Table 4-4.
- An assessment of fiscal capabilities is presented in Table 4-5.
- An assessment of administrative and technical capabilities is presented in Table 4-6.
- An assessment of education and outreach capabilities is presented in Table 4-7.
- Information on National Flood Insurance Program (NFIP) compliance is presented in Table 4-8.
- Classifications under various community mitigation programs are presented in Table 4-9.

| | | | | | Integration |
|-------------|--|---|---|--------------------------------------|----------------------------------|
| | | Local Authority | Other Jurisdiction Authority | State Mandated | Opportunity ? |
| Codes, Ord | inances, & Requirements | | | | |
| Building Co | ode | Yes | Yes | Yes | No |
| | Title 7 of Garden City Code currently adopts the 20′ is updated on a three year cycle following the State responsible for implementing the fire code, which is Idaho's requirements. | of Idaho's required also required to be | ments . North Ada Coul e updated on a three ye | nty Fire and Re ear cycle followi | scue District ising the State of |
| Zoning Cod | | Yes | No | Yes | Yes |
| | Title 8 of Garden City Code. Title 8 is reviewed on a | | | 1 | |
| Subdivisio | | Yes | No | Yes | No |
| Comment: | Title 8-5 of Garden City Code. Title 8 is reviewed on | a biannual basis. | | 1 | |
| | · Management | Yes | No | No | Yes |
| Comment: | Garden City complies with the requirements as per Resources (IDWR) requirements | EPA requirements | in NPDES, and Idaho | Department of \ | Water |
| Post-Disas | er Recovery | Yes | No | No | Yes |
| Comment: | Garden City participates in regional planning for mit Management & Community Resilience (EMCR) | igation, preparatio | n and recovery through | Ada County Ci | ty Emergency |
| Real Estate | Disclosure | Yes | No | No | Yes |
| Comment: | This is part of the Floodplain management are requi | red to remain in co | ompliance with FEMA r | equirements | |
| Growth Ma | nagement | Yes | No | No | Yes |
| Comment: | Garden City creates and maintains a Comprehensiv COMPASS CIM projections. | e Plan to manage | growth. Garden City h | as also adopted | I the |
| Site Plan R | eview | Yes | No | No | Yes |
| Comment: | Garden City conducts a site inspections to ensure c and through code enforcement actions. | ompliance with Cit | ty regulations and code | s at the time of | redevelopmen |
| Environme | ntal Protection | Yes | No | No | Yes |
| Comment: | Title 6 of Garden City Code Last Update 2015 | | | | |
| Flood Dama | age Prevention | Yes | No | No | Yes |
| Comment: | Titles 7 and 8 of Garden City Code | | | | |
| Emergency | Management | Yes | No | No | Yes |
| Comment: | Police Department | | | | |
| Climate Ch | ange | No | No | No | NA |
| Comment: | | | | | |
| Other | | No | No | No | NA |
| Comment: | | | | | |
| Planning D | ocuments | | | | |
| General Pla | ın | Yes | No | Yes | Yes |
| • | equipped to provide linkage to this mitigation planed Garden City creates and maintains a Comprehensiv | | 2021 | | |
| | rovement Plan | Yes | No | No | Yes |
| How often i | is the plan updated? Annually Garden City has a Capital Improvement Plan that er | nsures infrastructu | re is being maintained | and replaced to | maintain |
| | optimal performance. The Garden City Capital Impro and pathways. This plan is updated on an annual ba | | cio walci aliu SEWEI IIII | าสอแนบเนเษ สิริ โ | veli as paiks |
| Disaster Da | bris Management Plan | Yes | Yes | No | No |
| | Work with EMCR | 100 | 100 | 110 | . 10 |

| | Local Authority | Other Jurisdiction Authority | State Mandated | Integration Opportunity ? |
|---|--------------------|---------------------------------|-------------------|---------------------------------|
| Floodplain or Watershed Plan | Yes | Yes | No | Yes |
| Comment: The Ada County All Hazards Mitigation Plan-update is the planning area that participate in the CRS program | | nanagement plan of rec | cord for all comr | nunities within |
| Stormwater Plan | Yes | Yes | No | No |
| Comment: Garden City complies with the requirements as per EF | PA requirements | in NPDES | | |
| Urban Water Management Plan Comment: | No | Yes | No | No |
| Habitat Conservation Plan | No | Yes | Yes | Yes |
| Comment: Under Title 36 of the Idaho State Statues Garden City wetland preservation areas- BREN, Boise River Enha | | | | |
| Economic Development Plan | Yes | Yes | No | Yes |
| Comment: Garden City has established a Comprehensive Plan, 6 Economic Plan | Capital Improver | ment, and is also incorp | orated in the Bo | oise Valley |
| Shoreline Management Plan | No | No | No | NA |
| Comment: | | | 1 | |
| Community Wildfire Protection Plan | No | Yes | No | Yes |
| Comment: The 2017 Ada County Multi-hazard Mitigation Plan is planning area | being developed | to be a qualifying CWI | PP for the Ada (| County |
| Forest Management Plan | No | No | No | NA |
| Comment: | | | | |
| Climate Action Plan Comment: | No | No | No | NA |
| Comprehensive Emergency Management Plan Comment: Work with EMCR | Yes | No | No | Yes |
| Threat & Hazard Identification & Risk Assessment (THIRA) | Yes | No | No | Yes |
| Comment: Ada County Multi-Hazard Mitigation Plan, Ada County | THIRA 2015 | | | |
| Post-Disaster Recovery Plan Comment: | No | No | No | Yes |
| Continuity of Operations Plan Comment: Work with EMCR | Yes | No | No | Yes |
| Public Health Plan | No | Yes | No | No |
| Comment: Central District Health Department Emergency Opera. | | | | |
| Other | Yes | No | No | Yes |
| Comment: Ada County Flood Response Plan. Adopted: January, Ada County Mass Casualty Incident Plan. Adopted: 12 Ada County HAZMAT Response Plan. Adopted: April Ada County Wildfire Response Plan. Adopted: May 20 | 2/16/2010 2011 | | | |

| Table 4-4. Development and Permitting Capability | | |
|--|-----|--|
| Criterion Response | | |
| Does your jurisdiction issue development permits? If no, who does? If yes, which department? Development Services | Yes | |
| Does your jurisdiction have the ability to track permits by hazard area? | No | |
| Does your jurisdiction have a buildable lands inventory? | | |

4-6 TETRA TECH

| Table 4-5. Fiscal Capability | | |
|--|--------------------------------|--|
| Financial Resource | Accessible or Eligible to Use? | |
| Community Development Block Grants | Yes | |
| Capital Improvements Project Funding | Yes | |
| Authority to Levy Taxes for Specific Purposes | No | |
| User Fees for Water, Sewer, Gas or Electric Service | Yes | |
| If yes, specify: Monthly Water/sewer base rate | | |
| Incur Debt through General Obligation Bonds | Yes | |
| Incur Debt through Special Tax Bonds | No | |
| Incur Debt through Private Activity Bonds | No | |
| Withhold Public Expenditures in Hazard-Prone Areas | No | |
| State-Sponsored Grant Programs | No | |
| Development Impact Fees for Homebuyers or Developers | No | |

| | Table 4-6. Administrative and Technical Capability | |
|-----------------------------------|---|------------|
| Staff/Personnel Resource | | Available? |
| Planners or engineers with known | owledge of land development and land management practices | Yes |
| If Yes, Department /Position: | Development Services/Garden City/ Planning Staff/ City Engineer | |
| Engineers or professionals tra | nined in building or infrastructure construction practices | Yes |
| If Yes, Department /Position: | Public Works/Garden City/ Water, Sewer, and Engineering Staff | |
| Planners or engineers with an | understanding of natural hazards | Yes |
| If Yes, Department /Position: | Public Works and Development Services/Garden City/ Staff | |
| Staff with training in benefit/co | ost analysis | No |
| If Yes, Department /Position: | | |
| Surveyors | | Yes |
| If Yes, Department /Position: | Public Works/Garden City/Engineer | |
| Personnel skilled or trained in | GIS applications | No |
| If Yes, Department /Position: | | |
| Scientist familiar with natural l | hazards in local area | No |
| If Yes, Department /Position: | | |
| Emergency manager | | Yes |
| If Yes, Department /Position: | Ada County/Director of EMCR | |
| Grant writers | | No |
| If Yes, Department /Position: | | |

| Table 4-7. Education and Outreach Capability | |
|---|----------|
| Criterion | Response |
| Do you have a public information officer or communications office? | Mayor |
| Do you have personnel skilled or trained in website development? | No |
| Do you have hazard mitigation information available on your website? If yes, briefly describe: gardencityidaho.org | Yes |
| Do you use social media for hazard mitigation education and outreach? If yes, briefly describe: EMCR website and floodplain page | Yes |
| Do you have any citizen boards or commissions that address issues related to hazard mitigation? If yes, briefly describe: | No |

| Criterion | | Response |
|---------------------------|--|-------------------|
| | rograms in place that could be used to communicate hazard-related information? | Yes |
| If yes, briefly describe: | Social Media, emergency broadcasting, geo Notify | |
| Do you have any establis | shed warning systems for hazard events? | Yes |
| If yes, briefly describe: | Code Red/ISAWS - residents may sign up to receive emergency notifications and critical | community alerts. |
| - · · | Both systems are IPAWS enabled and may additionally access that integrated system for | public warnings. |

| Table 4-8. National Flood Insurance Program Con | npliance |
|---|--|
| Criterion | Response |
| What local department is responsible for floodplain management? | Development Services |
| Who is your floodplain administrator? (department/position) | Development Services Director |
| Are any certified floodplain managers on staff in your jurisdiction? | No |
| What is the date that your flood damage prevention ordinance was last amended? | 2020 |
| Does your floodplain management program meet or exceed minimum requirements? <i>If exceeds, in what ways?</i> Adopted higher regulatory standards and improving CRS classi | Exceed fication |
| When was the most recent Community Assistance Visit or Community Assistance Contact? | 2018 visit/ annual contact via audit |
| Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? If so, state what they are. | No |
| Are any RiskMAP projects currently underway in your jurisdiction? If so, state what they are. | No |
| Do your flood hazard maps adequately address the flood risk within your jurisdiction? <i>If no, state why.</i> Flooding will not adhere to a model. There will be debris, etc. Irrigation structure. | No tures are not included in model. |
| Does your floodplain management staff need any assistance or training to support its floodplain management program? If so, what type of assistance/training is needed? Ongoing | Yes |
| Does your jurisdiction participate in the Community Rating System (CRS)? If yes, is your jurisdiction interested in improving its CRS Classification? Yes If no, is your jurisdiction interested in joining the CRS program? | Yes |
| How many flood insurance policies are in force in your jurisdiction? ^a What is the insurance in force? \$148,653,700 What is the premium in force? \$357,118 | 485 |
| How many total loss claims have been filed in your jurisdiction? ^a What were the total payments for losses? \$44,557 | 18 |

a. According to FEMA statistics as of March 31, 2022

| Table 4-9. Community Classifications | | | | | | | | | |
|---|----------------|------------------------|-----------------|--|--|--|--|--|--|
| | Participating? | Classification | Date Classified | | | | | | |
| FIPS Code | No | 1600129620 | N/A | | | | | | |
| DUNS # | Yes | 169195369 | N/A | | | | | | |
| Community Rating System | Yes | 8 | 2013 | | | | | | |
| Building Code Effectiveness Grading Schedule | No | 10 (not participating) | N/A | | | | | | |
| Public Protection | Yes | 3/8/9 (NACFR) | N/A | | | | | | |
| Storm Ready | Yes | Blue | N/A | | | | | | |
| Firewise | No | N/A | N/A | | | | | | |

4-8 TETRA TECH

4.5 INTEGRATION REVIEW

For hazard mitigation planning, "integration" means that hazard mitigation information is used in other relevant planning mechanisms, such as general planning and capital facilities planning, and that relevant information from those sources is used in hazard mitigation. This section identifies where such integration is already in place, and where there are opportunities for further integration in the future. Resources listed at the end of this annex were used to provide information on integration. The progress reporting process described in Volume 1 of the hazard mitigation plan will document the progress of hazard mitigation actions related to integration and identify new opportunities for integration.

4.5.1 Existing Integration

Some level of integration has already been established between local hazard mitigation planning and the following other local plans and programs:

- Comprehensive Plan—Goal 5: Focus on the River, Goal 7: Connect the City; Goal 8: Maintain a Safe City; Goal 9: Develop a Sustainable City; Goal 10: Plan for the Future Goal 11: Serve the City and the future Land Use Map integrate the goals and recommendation of the Multi-Hazard Mitigation Plan.
- Comprehensive Plan—Parks and Waterway Plan and Multi-Hazard Mitigation Plan.
- Master Parks and Pathways Plan—The Master Parks and Waterways Plan seeks to preserve floodplain as a high priority for park land acquisition. Utilizing parks for drainage is also addressed in the plan.

4.5.2 Opportunities for Future Integration

The capability assessment presented in this annex indicates opportunities to integrate this mitigation plan with other jurisdictional planning/regulatory capabilities. Capabilities were identified as integration opportunities if they can support or enhance the actions identified in this plan or be supported or enhanced by components of this plan. The capability assessment identified the following plans and programs that do not currently integrate hazard mitigation information but provide opportunities to do so in the future:

- **Zoning Code**—The City is conducting a comprehensive update to its zoning code. Additional mitigation and abatement measures may be considered for incorporation into the code.
- Capital Improvement Projects—Capital improvement project proposals may take into consideration hazard mitigation potential as a means of evaluating project prioritization.

Taking action to integrate each of these programs with the hazard mitigation plan was considered as a mitigation action to include in the action plan in this annex.

4.6 RISK ASSESSMENT

4.6.1 Jurisdiction-Specific Natural Hazard Event History

Table 4-10 lists past occurrences of natural hazards for which specific damage was recorded in this jurisdiction Other hazard events that broadly affected the entire planning area, including this jurisdiction, are listed in the risk assessments in Volume 1 of this hazard mitigation plan.

| | Table 4-10. Past Natural Hazard Events | | | | | | | | | |
|---|--|----------------------------------|--|--|--|--|--|--|--|--|
| Type of Event | FEMA Disaster # | Date | Damage Assessment | | | | | | | |
| COVID-19 Pandemic | DR-4534 | January 20, 2020, and continuing | \$7,223,399 noted for State of Idaho. This caused medical illnesses, loss of life, economic impacts due to loss of work. | | | | | | | |
| Weather- Heat | N/A | Summer 2021 | 18 days of over 100 degrees reaching to 107 on July 6, 2021. | | | | | | | |
| Weather- Rain | N/A | August 1, 2021 | Heavy thunderstorm rain | | | | | | | |
| Weather- Heat | N/A | Summer 2020 | 11 days of over 100 degrees reaching to 105 on July 30, 2020. | | | | | | | |
| Earthquake | N/A | March 31, 2020 | 6.5 magnitude near Stanley, Idaho Personal property damages. | | | | | | | |
| Weather- Heat | N/A | Summer 2018 | 11 days of over 100 degrees reaching to 110 on August 10, 2018. | | | | | | | |
| Weather- Heat | | Summer 2017 | 8 days of over 100 degrees. | | | | | | | |
| Flooding | DR-4342 | March 29-June 15, 2017 | \$3,341,756 noted for all areas affected. Garden City specifically had flooding resulting in some minor damages to the private property. There were scouring of greenbelt paths, removal of a bridge, and considerable resources to monitoring, emergency prevention (sandbagging, etc.) | | | | | | | |
| Weather- Snow | N/A | December 2016- March 2017 | Local emergency declarations. 39" of snow Regionally, millions in claims related to structural damages. | | | | | | | |
| Weather- Thunderstorm | N/A | August 22, 2013 | | | | | | | | |
| Weather- Thunderstorm | N/A | August 6, 2012 | | | | | | | | |
| Flood | N/A | May 8, 2012 | \$540,000 (including ACHD and Ada County) | | | | | | | |
| Water Main Break at Remington Street | N/A | April 1, 2012 | \$500,000 | | | | | | | |
| Weather- Wind | N/A | March 29, 2009 | \$33,000 | | | | | | | |
| Weather- Hail | N/A | August 6, 2009 | | | | | | | | |
| Weather- Hail | N/A | May 20, 2008 | | | | | | | | |
| Weather- Thunderstorm | N/A | September 4, 2007 | | | | | | | | |
| Weather- Thunderstorm | N/A | June 29, 2006 | | | | | | | | |
| Weather- Hail | N/A | June 13, 2006 | | | | | | | | |
| Weather- Thunderstorm | N/A | May 19, 2004 | | | | | | | | |
| Weather- Thunderstorm | N/A | August 31, 2004 | | | | | | | | |
| Weather- Thunderstorm | N/A | August 21, 2004 | | | | | | | | |
| Weather- Hail | N/A | June 29, 2004 | | | | | | | | |
| Weather- Hail | N/A | May 18, 2004 | | | | | | | | |
| Weather- Thunderstorm | N/A | January 30, 2004 | | | | | | | | |
| Weather- Thunderstorm | N/A | May 30, 2003 | | | | | | | | |

4-10 TETRA TECH

| | FEMA Disaster | D. (| |
|---------------------------|----------------------|-------------------|-----------------------------|
| Type of Event | # | Date | Damage Assessment |
| Weather- Heat | N/A | Summer 2003 | 20 days of over 100 degrees |
| Weather- Thunderstorm | N/A | July 26, 2002 | |
| Weather- Thunderstorm | N/A | July 22, 2002 | |
| Weather- Thunderstorm | N/A | July 14, 2002 | |
| Weather- Thunderstorm | N/A February 7, 2002 | | |
| Weather- Hail | N/A | May 16, 2000 | |
| | N/A | September 1998 | \$38,000 |
| Weather- Storm | N/A | April 1998 | \$20,000 |
| Flood | N/A | September 1997 | \$57,000 |
| Flood | N/A | March 7, 1997 | \$50,000,000 |
| Flood | N/A | January 1997 | \$65,000,000 |
| Weather-Lightning | N/A | July 1995 | \$5,000 |
| Weather-Storm | N/A | April 27, 1995 | \$50,000 |
| Weather-Snow | N/A | November 1992 | \$9,800.00 |
| Weather-Wind | N/A | October 1992 | \$6,250.00 |
| Flood | N/A | August 1992 | \$4,545 |
| Drought | N/A | 1987-1992 | \$500,000,000 |
| Weather-Storm | N/A | January 1988 | \$8,700 |
| Weather-Wind | N/A | July 1987 | \$10,000 |
| Flooding | N/A | February 1986 | \$20,000 |
| Weather- Snow | N/A | Winter 1985-1986 | 39.5" of snow |
| Earthquake | N/A | October 1983 | \$4,000,000 |
| Flood | N/A | June 1983 | \$147,000 |
| Weather- Snow | N/A | Winter 1983-1984 | 37.4" of snow |
| Weather- Wind | N/A | June 1981 | \$50,000 |
| Weather-Wind | N/A | March 1981 | \$36,000 |
| Flood | N/A | January 1979 | \$50,000 |
| Weather- Rain Flooding | DR-186 | December 31, 1964 | |
| Flood | DR-120 | February 14, 1963 | |
| Flood | DR-116 | June 26, 1961 | |
| Flood | DR-76 | May 27, 1957 | |
| Flood | DR-55 | April 21, 1956 | |
| Weather- Snow | N/A | Winter 1948-1949 | 45.4" of snow |
| Weather- Snow | N/A | Winter 1929-1930 | 48.8" of snow |
| Weather- Snow | N/A | Winter 1916-1917 | 50" of snow |

4.6.2 Hazard Risk Ranking

Table 4-11 presents a local ranking of all hazards of concern for which this hazard mitigation plan provides complete risk assessments. As described in detail in Volume 1, the ranking process involves an assessment of the likelihood of occurrence for each hazard, along with its potential impacts on people, property, and the economy. Mitigation actions target hazards with high and medium rankings.

| | Table 4-11. Hazard Risk Ranking | | | | | | | | | | |
|------|---------------------------------|--------------------|---------------|--|--|--|--|--|--|--|--|
| Rank | Hazard | Risk Ranking Score | Risk Category | | | | | | | | |
| 1 | Flood | 48 | High | | | | | | | | |
| 2 | Extreme Weather | 33 | High | | | | | | | | |
| 3 | Dam/Canal Failure | 18 | Medium | | | | | | | | |
| 4 | Earthquake | 16 | Medium | | | | | | | | |
| 5 | Wildfire | 12 | Low | | | | | | | | |
| 6 | Drought | 9 | Low | | | | | | | | |
| 7 | Volcano | 6 | Low | | | | | | | | |
| 8 | Landslide | 3 | Low | | | | | | | | |

4.6.3 Jurisdiction-Specific Vulnerabilities

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. This section provides information on a few key vulnerabilities for this jurisdiction. Available jurisdiction-specific risk maps of the hazards are provided at the end of this annex.

Repetitive Loss Properties

Repetitive loss records are as follows:

- Number of FEMA-identified Repetitive-Loss Properties: 1
- Number of FEMA-identified Severe-Repetitive-Loss Properties: N/A
- Number of Repetitive-Loss Properties or Severe-Repetitive-Loss Properties that have been mitigated: N/A

Other Noted Vulnerabilities

The following jurisdiction-specific issues have been identified based on a review of the results of the risk assessment, public involvement strategy, and other available resources:

- Flood—With an estimated 74% of Garden City located in the 100-year floodplain, flooding from the Lower Boise River is the city's highest risk because of the probability of anticipated flooding. Many structures were constructed before being designated in the floodplain and are lower than the anticipated base flood elevation. Aging and compact water and sewer infrastructure could increase water or sewer failure or contamination during flooding. This hazard forms safety and health concerns during and after the flood. There may be a loss of water, sewer, electrical, or gas services. Garden City has vital evacuation routes through the city with a small police department. The police department will have to manage the city's evacuation and much of the surrounding municipalities' evacuation moving through Garden City. Being a small city with limited resources may result in a prolonged recovery period, especially for the vulnerable populations east of Glenwood Street.
- Flood—Settlers Canal is at a higher elevation than the city. If the canal is not adequately maintained, it could pose a flood threat. This threat is not identified in the FEMA Special Flood Hazard Area (SFHA).
- Flooding—The ITD system through Garden City, for the most part, does not have a drainage system. The
 ACHD drainage system is undersized. ACHD and ITD roadway drainage could cause flooding in Garden
 City if the drainage system is lacking, undersized, or not maintained. Since 2002 there have been 7 flash
 floods in Ada County, with an identified \$10,000 of damages. The impervious nature of urbanization

4-12 TETRA TECH

- exacerbates this risk. It is anticipated that the one repetitive loss of property in Garden City is due to inadequate street drainage.
- Air Quality, Wildfire—While the direct risk of wildfires is low, the air quality associated with the
 wildfires in other areas of Idaho and nearby states creates an air quality concerns for Garden City. From
 2017-2021 there have been 199 days of impacted air quality of moderate/yellow category (AQI 51+) or
 above due to wildfires.
- Air Quality, Inversion—The air quality associated with the inversion is a vulnerability for Garden City. The inversion is generally during the winter months when low cloud formations and fog create dense air and traps air pollutants on the valley floor. From 2017-2021 there have been 234 days of impacted air quality of moderate/yellow category (AQI 51+) or above due to the inversion.
- Weather, Snow—There is a correlation between the heavy snow years and the flood years; there is also a direct vulnerability associated with each snow event. There are increased accidents and increased strain on the utility systems used to heat. In heavy snow years, the region has inadequate snow removal capabilities that limit access to goods, services, employment, and medical or emergency services.
- Weather, Heat—7 of the top 10 hottest summers in the Boise-wide area have been in the last 20 years (up to and including 2021). High heat can affect the air quality, and ancillary conditions result in health concerns. The heat can reduce outdoor activities resulting in economic impacts on private industries. Over strain on the utilities, particularly electricity and water, during these heat events is a vulnerability. Over-taxation of the electrical system can cause failure. Over-taxation on water systems could result in adverse effects on potable water.
- All Hazards—Access to power is imperative in weather events for life safety and needed in all hazardous events. There is an increased need for electrical resiliency. Recent growth trends have resulted in more people utilizing the electrical system. Additionally, there may be an increased need in addition to the growing population. For example, with the cost of gasoline prices increasing and the availability of electric cars, it is anticipated that there may be a shift in energy sources for vehicles. From May 4, 2017, to April 29, 2022, in Garden City, there have been 1,386 electrical power outages resulting in 703,490.4 customer hours of outages (the number of customers affected by each outage X the hours of each outage). An estimated 43% of the outages were identified as events related to conflicts from infrastructure being above ground. The events include outages related to weather events such as lightning or that cause ice loading or wind/ vegetation damage, animals or other foreign objects like balloons or kites, vandalism, and vehicular collisions. Events that are not considered to be due to the system being above ground might include planned maintenance, operator error, underground facility damage, corrosion, contamination, mechanical fail, improper installation, hardware fail, or unknown causes. Downed power lines increase the risk of electrocution.
- All Hazards—The evacuation routes are limited due to infrastructure and geography. Many of the roadways, especially the eastern portion of the city where there is an area of persistent poverty, are not designed to facilitate movement except for those in automobiles. Not all residents have access to personal vehicles. Moreover, Chinden, the principal evacuation route, is inadequate for non-vehicular mobility purposes. Chinden does not accommodate bike lanes, has few and unsafe crossings, irregular sidewalks, and uncontrolled access points. Additionally, many residents or businesses utilize Boise in their addressing. This could be confusing during an emergency response.

Mitigation actions addressing these issues were prioritized for consideration in the action plan in this annex.

4.7 STATUS OF PREVIOUS PLAN ACTIONS

Table 4-12 summarizes the actions that were recommended in the previous version of the hazard mitigation plan and their implementation status at the time this update was prepared.

| Table 4-12. Status of Previous Plan A | ctions | | | |
|--|-----------------------------------|----------------------------|-------------------------|--------------------------|
| | | Removed; | Plar | ed Over to i Update |
| Action Item from Previous Plan | Completed | No Longer Feasible | Check if Yes | Action # in Update |
| Action GC-1—Green Infrastructure Flood Mitigation—Garden City needs a plan that identify strategic locations for alternate flood mitigation efforts, with an emphasis on green infrastructure to reduce floodplain and anticipated Base Flood Elevations. An example of such an effort may be identifying a location for an engineered parkland that is utilized to provide additional floodplain capacity and groundwater recharge. Comment: In Process. Garden City has entered into an agreement with USACE for a Comment. | | | ✓ | GC-7 |
| Action GC-2—Levees Analysis Levee Analysis—There are a number of unaccredited levees in Garden City. Garden City needs an inventory of levees to determine condition and viability of the levees in Garden City and their hydraulic significance. If any of the levees could be hydrologically significant; include a cost estimate and a cost benefit analysis of accrediting or provisionally accrediting each levee, and the sustainability of required maintenance. | | | √ | GC8 |
| Comment: In Process. Garden City has entered into an agreement with USACE for a C | al study | | | 00.0 |
| Action GC-3—Water and Sewer Pipe replacement | | | ✓ | GC-9 |
| Comment: Public Works continues with sewer and water pipe replacements. | | | | 22.1 |
| Action GC-4 —Maintain good standing under the National Flood Insurance Program by implementing programs that meet or exceed the minimum NFIP requirements. Such programs include but are not limited to: enforcing an adopted flood damage prevention ordinance, participating in floodplain mapping updates, and providing public assistance and information on floodplain requirements and impacts. | | | ✓ | GC-4 |
| Comment: Ongoing. The City adopted a FEMA approved flood hazard ordinance with I flood hazard area maps (SFHA) June of 2020. The city continues to provide in the Garden City Library, and on requested basis through the Development continuing to adopt any necessary amendments to the flood hazard code, u | public assista at Services Dep | nce and informartment. The | mation or city inter | n its website, nds on |
| Action GC-5—Continue to maintain/enhance the City's classification under the Community Rating System (CRS) | | | ✓ | GC-10 |
| Comment: Ongoing. The city had a five-year cycle visit March of 2022. The materials pactivities the code adopted in 2020 includes enhanced higher regulatory states in the classification during this visit. The results have not been received at the classification the city will endeavor to maintain its classification under the Cartina and the city will endeavor to maintain its classification. | ndards. Follow nis time. Regar | ing, the city r | equested | l a reduction |
| Action GC-6 —Where appropriate, support retrofitting, purchase, or relocation of structures located in hazard-prone areas to protect structures from future damage, with properties with exposure to repetitive losses as a priority. | | | ✓ | GC-1 |
| Action GC-7—Integrate Multi-Hazard Mitigation Plan into the Garden City Comprehensive Plan. | ✓ | | ✓ | GC-2 |
| Comment: Adopted by reference in the Comprehensive Plan on July 22, 2019. This will | l be updated to | carry over. | | |
| Action GC-8 —Establish emergency preparedness inventory with inspection and replacement plan | | | ✓ | GC-11 |
| Comment: Ongoing. Equipment is inventoried. The backup generators have monthly to will be needed as the equipment ages. | sting and inspe | ection. Furthe | r replace | ment plans |

4-14 TETRA TECH

| | | Removed; | | ed Over to Update |
|---|------------------|-----------------------|-------------|-----------------------|
| Action Item from Previous Plan | Completed | No Longer Feasible | | Action # in Update |
| Action GC-9 —Maintain Capital Improvement Plan for capital facilities/infrastructure within the City. | | | ✓ | GC-12 |
| Comment: Ongoing. The City maintains a CIP for capital infrastructure within the City. | This plan is up | । dated annuall | V. | |
| Action GC-10—Consider appropriate higher regulatory standards that prevent or reducerisk to the built environment from the known hazards of concern | | | | |
| Comment: Garden City has adopted higher regulatory standards through the flood haz | ard ordinance i | in June of 202 | 20. | |
| Action GC-11—Support County-wide initiatives | | | ✓ | GC-13 |
| Comment: Ongoing. | | | 1 | |
| Action GC-12—Continuing of Operations Plan | | | ✓ | GC-14 |
| Comment: Ongoing. | | | | |
| Action GC-13—EOP Emergency Operations Plan | | | ✓ | GC-15 |
| Comment: Adopted RES1013-16 on June 27, 2016. Annual Reviews are required. | ' | | | |
| Action GC-14—Recovery Plan | | ✓ | | |
| Comment: A recovery plan is likely largely based on the funding that is available after a intends on maintaining a fund balance. | a disaster. Fund | ding often is v | ery spec | ific. The city |
| Action GC-15—Garden City Parks security camera installation | | | ✓ | GC-16 |
| Comment: The parks security cameras have been installed. Additional cameras will be vegetation that are removed along the banks of the Boise River. Additional | | | | |
| Action GC-16—Streetlight replacement/conversion to alternative energy streetlights | | | ✓ | GC-17 |
| Comment: Ongoing. | | | | |
| Action GC-17—Acquisition of vulnerable property for use as parks. | | | ✓ | GC-7 |
| Comment: The city has been in contact with Ada County requesting that Lady Bird Par can be constructed to provide flood conveyance and potentially naturally full | | | nt to the r | iver so that i |
| Action GC-18—Purchase of stand-by generator for City Hall and Operations Center | | | ✓ | GC-6 |
| Action GC-19 —Obtain portable generators for use in Ada County during power outages and other emergency situations. | | | ✓ | GC-6 |
| Comment: There is one portable generator for this use. | | | | |
| Action GC-20 —Whenever possible, coordinate with local experts and employ natural environmental processes in mitigation activities that increase ecosystem resilience and reduce the impacts of flooding on the built environment. | | | ✓ | GC-18 |
| Comment: Ongoing. Garden City has developed partnerships with Boise River Enhance appropriate plantings. This list is made available to the public. The City Code requires th 25' of the greenbelt. | | | | |

4.8 HAZARD MITIGATION ACTION PLAN

Table 4-13 lists the identified actions, which make up the hazard mitigation action plan for this jurisdiction. Table 4-14 identifies the priority for each action. Table 4-15 summarizes the mitigation actions by hazard of concern and mitigation type.

| | Ta | able 4-13. Hazar | d Mitigation Action Plan I | Matrix | | | | | | |
|--|--|-------------------------|--|-----------------|---------------------------|-----------------------|--|--|--|--|
| Benefits New or Existing Assets | Objectives Met | Lead Agency | Support Agency | Estimated Cost | Sources of Funding | Timeline ^a | | | | |
| Action GC-1—Wh | ere appropriate, suppo | rt retrofitting, purcha | se or relocation of structures l | ocated in haza | · | | | | | |
| · | • | are located in high- | or medium-risk hazard areas. | | | | | | | |
| Hazards Mitigated: | | Division | LICAGE D. LI'. W. J. | 1 12.1 | LIMOR BRIO | 0 | | | | |
| Existing | 1, 3, 8, 10 | Planning | USACE, Public Works, EMCR | High | HMGP, BRIC, FMA | Ongoing | | | | |
| | | ation plan into other | plans, ordinances and prograr | ns that dictate | land use decision | s in the | | | | |
| community as draft | | than Dam/Canal Ea | ilura Earthauaka Wildfira Dr | aught Landalid | 0 | | | | | |
| New & Existing | 1, 2, 4, 5, 6, 8, 9, 10 | Planning | ilure, Earthquake, Wildfire, Dro All City Departments, Planning Partners | Low | Local | Ongoing | | | | |
| Action GC-3—Acti | ively participate in the r | olan maintenance pr | otocols outlined in Volume 1 o | f this hazard m | itigation plan. | | | | | |
| Hazards Mitigated: | • • • • • | · | ilure, Earthquake, Wildfire, Dro | | • | | | | | |
| New & Existing | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 | All City Departments | All Planning Partners | Low | Local | Short-term Ongoing | | | | |
| Action GC-4—Cor | ntinue to maintain good | standing and comp | liance under the NFIP through | implementatio | n of floodplain ma | anagement | | | | |
| Participate in flo | d damage prevention of podplain identification a assistance/information of Flood | nd mapping updates | | | | | | | | |
| New & Existing | 1, 4, 5, 6, 8 | Development Services | EMCR, FCD10, Environmental Division | Low | Local | Short-term Ongoing | | | | |
| | that could improve cor | nmunity resilience ir | oth the public and private secton relation to future climate conditional relation to future, Wildfire, Dro | ditions. | | /e | | | | |
| New & Existing | 1, 2, 3, 4, 5, 6, 7, 8, | All Departments | Planning Partners, BSU, | Low | HMGP, | Short-term | | | | |
| 9 | 9, 10 | | NOAA | | Local | Ongoing | | | | |
| Action GC-6—Purchase generators and backup power capabilities for critical facilities and infrastructure that lack adequate backup power including: City Hall Operations Center Obtain portable generators Obtain a fuel truck that can fuel the generators at the police department, public works, wells, lift stations, and city hall. Hazards Mitigated: Flood, Extreme Weather, Dam/Canal Failure, Earthquake, Wildfire, Landslide New & Existing 1, 9, 10 Public Works EMCR, Public Works, Medium HMGP, BRIC, Short-term | | | | | | | | | | |
| . tott & Exioting | 1, 0, 10 | T GOILO TTOTAG | Private, Ada County | Modium | Local | SHOTE TOTAL | | | | |
| mitigation efforts, w | vith an emphasis on gro be identifying a locatio rge. | een infrastructure to | n City needs a plan that identif reduce floodplain and anticipa parkland that is utilized to pro- | ited Base Floor | d Elevations. An e | example of | | | | |
| New & Existing | 1, 2, 3, 4, 6, 9 | Development Services | Public Works, USACE, IDWR | High | HMGP, BRIC, FMA, USACE | Long-term | | | | |

4-16 TETRA TECH

| Benefits New or Existing Assets | Objectives Met | Lead Agency | Support Agency | Estimated Cost | Sources of Funding | Timeline ^a |
|--|--|-------------------------|---|-------------------|---|-----------------------|
| | | | ccredited levees in Garden Cit | | | |
| to determine condi hydrologically sign sustainability of red | tion and viability of the ificant; include a cost equired maintenance. | levees in Garden Ci | ty and their hydraulic significar enefit analysis of accrediting o | ice. If any of th | e levees could be | ; |
| Hazards Mitigated: New & Existing | Flood 1, 2, 3, 4, 6, 9, 10 | Development Services | USACE, FEMA | High | FMA, USACE | Long-term |
| Action GC-9— Wa | ater and Sewer Pipe re | | | | I I | |
| | | | ilure, Earthquake, Wildfire, Dro | ught Landslid | e | |
| New & Existing | 1, 3, 4, 6, 9, 10 | Public Works | ilato, Latalquano, vvilano, Die | High | HMGP, BRIC, FMA, Local, Urban Renewal | Long-term Ongoing |
| Action GC-10— C | ontinue to maintain/enl | nance the City's clas | sification under the Communit | y Rating Syste | m (CRS) | |
| Hazards Mitigated: | Flood | | | | | |
| New & Existing | 8, 9 | Development Services | FEMA, FCD10, EMCR, ACHD | Low | Local | Ongoing |
| Action GC-11— M | laintain emergency pre | paredness inventory | inspections and establish a re | placement pla | n. | |
| Hazards Mitigated: | | | ilure, Earthquake, Wildfire, Dro | • | | |
| New & Existing | 1, 9, 10 | Public Works | Police Department | Low | Local | Ongoing |
| | laintain Capital Improve | ement Plan for capita | al facilities/infrastructure within | the city. | | |
| Hazards Mitigated: | | • | ilure, Earthquake, Wildfire, Dro | • | e | |
| New & Existing | 1, 3, 6, 7, 8, 9, 10 | Treasurer's Office | Public Works, Police, Development Services | Low | Local | Ongoing |
| Action GC-13— S | upport County-wide ini | tiatives. | | | | |
| Hazards Mitigated: | | | ilure, Earthquake, Wildfire, Dro | ought, Volcano | , Landslide | |
| New & Existing | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 | All City Departments | Planning Partners | Low | Local | Ongoing |
| Action GC-14— C | ontinuing of Operations | | | | | |
| Hazards Mitigated: | • | | ilure, Earthquake, Wildfire, Dro | ought, Volcano | Landslide | |
| Existing | 1, 9, 10 | Mayor's Office | All departments, Planning Partners | Low | Local | Short-term Ongoing |
| Action GC-15— A | nnually review the EOF | Emergency Operat | tions Plan. | | | |
| Hazards Mitigated: | Flood, Extreme Wea | ther, Dam/Canal Fa | ilure, Earthquake, Wildfire, Dro | ought, Volcano | , Landslide | |
| Existing | 1, 7, 8, 9, 10 | Police Department | Public Works, Mayor's Office, Treasure's Office, Development Services, Planning Partners | Low | Local, HMGP | Ongoing |
| Action GC-16— G | arden City parks and r | ver security camera | | | | |
| Hazards Mitigated: | - · | | | | | |
| New & Existing | 1, 3, 10 | Public Works | Police Department, Development Services, IDL, IDWR, USACE | Medium | Local | Short-term Ongoing |
| Action GC-17— S | treetlight replacement/ | conversion to alterna | ative energy streetlights. | | | |
| Hazards Mitigated: | | | - | | | |
| New & Existing | 1, 3, 4, 7, 9 | Public Works | Idaho Power, ACHD | High | HMGP, BRIC, Urban Renewal | Long-term Ongoing |

| Benefits New or | | | | Estimated | Sources of | |
|----------------------|--------------------------|-------------------------|---|------------------|----------------------|-----------------------|
| Existing Assets | Objectives Met | Lead Agency | Support Agency | Cost | Funding | Timeline ^a |
| Action GC-18—Co | oordinate with stakehol | ders, local experts to | establish a plan and policies | for wetland, ha | bitat, and stream | protection |
| and restoration for | conveyance, resiliency | , and habitat. | | | | |
| Hazards Mitigated: | Flood, Extreme Wea | ther, Dam/Canal Fa | ilure, Wildfire, Drought, Landsl | ide | | |
| New & Existing | 1, 2, 4, 6, 9, 10 | Development | ACHD, IDWR, BREN, | Medium | HMGP | Ongoing |
| _ | | Services | USACE, US Fish and | | | |
| | | | Wildlife, BSU | | | |
| Action GC-19—De | evelop a roadway drain | age plan that includ | es elevating the street above th | ne 100-year flo | odplain for Chind | en Boulevard, |
| a major evacuation | route for the city and | /alley. | | | | |
| Hazards Mitigated: | Flood, Dam/Canal F | ailure, Extreme Wea | ather | | | |
| New & Existing | 1, 2, 3, 4, 5, 6, 7, 9, | ITD | Garden City, ACHD | High | BRIC, ITD | Long-term |
| | 10 | | | | | |
| Action GC-20—De | evelop a system draina | ge plan for all of city | to address undersized drainage | ge for street ne | twork. | |
| Hazards Mitigated: | Flood, Dam/Canal F | ailure, Weather | | | | |
| New & Existing | 1, 2, 3, 4, 5, 6, 7, 9, | ACHD | ITD, ACHD | High | BRIC, ACHD | Long-term |
| | 10 | | | | | |
| Action GC-21—Re | emedy the repetitive los | ss property. | | | | |
| Hazards Mitigated: | Flood | | | | | |
| Existing | 3, 9 | Development | ACHD | High | HMGP, BRIC, | Long-term |
| | | Services | | | FMA | |
| Action GC-22—Pla | acement of free Wi-Fi i | n public locations su | ich as parks to provide access | to internet and | l emergency mes | saging. |
| Hazards Mitigated: | Flood, Extreme Wea | ther, Dam/Canal Fa | ilure, Earthquake, Wildfire, Dro | ought, Volcano | , Landslide | |
| New & Existing | 7, 8, 9 | Library | | Medium | BRIC | Short-term |
| This assists also in | the allowance of stree | t trees which then re | ectrical grid more resilient by neduces the urban stormwater ru | unoff, can be c | ooling in extreme | weather, and |
| | | | of utilities should be strategical | | ines that include of | critical |
| | | | ude a number of tall adjacent tr | ees. | | |
| | Extreme Weather, W | | | | | |
| New & Existing | 1, 3, 4, 9, 10 | Development | Idaho Power, ACHD, ITD | High | HMGP,BRIC, | Long-term |
| A : (1 - 00 04 - 1 | | Services | (b 1 (c 1 (f) | | FMA | de de ODO |
| | nprove open space pre | servation practices | that target floodplain capacity a | and will ensure | optimal points ur | ider the CRS |
| 420 activity. | Flood | | | | | |
| Hazards Mitigated: | | Davidanmant | Dublic Works Divor Club | 1 | Local | Chart tarra |
| New & Existing | 9 | Development Services | Public Works, River Club Golf Course | Low | Local | Short-term Ongoing |
| Action GC 25 Ok | atain and maintain 00 d | | r potable water in case of a we | II outogo | | Origonity |
| | | • | • | • | _ | |
| Hazards Mitigated: | | | ilure, Earthquake, Wildfire, Dro | _ | | Ob |
| New & Existing | 1, 3, 4, 9, 10 | Public Works | | Medium | BRIC | Short-term |
| Action GC 26 Im | plament IT technologie | a that facilitate the | ability to work remotely. | | | Ongoing |
| | | | • | waht Valoona | Landalida | |
| Hazards Mitigated: | | | ilure, Earthquake, Wildfire, Dro | • | | Chart tarns |
| New & Existing | 1, 7, 10 | IT | All departments | Medium- | HMGP, BRIC | Short-term |
| A-4i-m 00 07 | | tht | 4- 4h | High | | Ongoing |
| | • | | ss to the system in case of loss | • | | |
| Hazards Mitigated: | | | ilure, Earthquake, Wildfire, Dro | _ | | 01 |
| New & Existing | 1, 7, 10 | IT | All departments | Medium- | HMGP, BRIC | Short-term |
| | | | | High | | Ongoing |

4-18 TETRA TECH

| Benefits New or Existing Assets | Objectives Met | Lead Agency | Support Agency | Estimated Cost | Sources of Funding | Timeline ^a | | | | | |
|---|----------------|-------------------------|----------------|-------------------|--------------------|-----------------------|--|--|--|--|--|
| Action GC-28— Work with stakeholders to establish a regional plan for public outreach and education that can be utilized for CRS credit for the 330 Program for Public Information PPI activity. The outreach must include information related to hazard risks and critical information dissemination. Improve open space preservation practices that target floodplain capacity and will ensure optimal points under the CRS 420 activity. Hazards Mitigated: Flood | | | | | | | | | | | |
| New & Existing | 1, 4, 7, 8, 9 | Development Services | | Medium | Local | Short-term Ongoing | | | | | |
| Action GC-29— Work with the Post Office to encourage the use of a Garden City specific address within Garden City to better inform residents' knowledge of hazards and emergency response activities in their city. Hazards Mitigated: Flood, Extreme Weather, Dam/Canal Failure, Earthquake, Wildfire, Drought, Volcano, Landslide | | | | | | | | | | | |
| New & Existing | 1, 6, 9 | Development Services | | Low | Local | Short-term Ongoing | | | | | |

a. Short-term = Completion within 5 years; Long-term = Completion within 10 years; Ongoing= Continuing new or existing program with no completion date

Acronyms used here are defined at the beginning of this volume.

| | Table 4-14. Mitigation Action Priority | | | | | | | | | | |
|----------|--|----------|--------|--|-----------------------------------|---|---|---|--|--|--|
| Action # | # of Objectives Met | Benefits | Costs | Do Benefits Equal or Exceed Cost? | Is Project Grant- Eligible? | Can Project Be Funded Under Existing Programs/ Budgets? | Implementation Priority ^a | Grant Pursuit Priority ^a | | | |
| 1 | 4 | High | High | Yes | Yes | No | Low | High | | | |
| 2 | 8 | Medium | Low | Yes | No | Yes | High | Low | | | |
| 3 | 10 | Medium | Low | Yes | No | Yes | High | Low | | | |
| 4 | 5 | Medium | Low | Yes | No | Yes | High | Low | | | |
| 5 | 7 | Medium | Low | Yes | Yes | Yes | High | Medium | | | |
| 6 | 3 | High | Medium | Yes | Yes | No | Medium | High | | | |
| 7 | 6 | Medium | High | No | Yes | No | Low | Medium | | | |
| 8 | 7 | High | High | Yes | Yes | No | Medium | High | | | |
| 9 | 6 | High | High | Yes | Yes | No | Medium | High | | | |
| 10 | 10 | Low | Low | Yes | No | Yes | High | Low | | | |
| 11 | 3 | High | Low | Yes | No | Yes | High | Low | | | |
| 12 | 7 | Low | Low | Yes | No | Yes | High | Low | | | |
| 13 | 10 | Medium | Low | Yes | No | Yes | High | Low | | | |
| 14 | 3 | High | Low | Yes | No | Yes | High | Low | | | |
| 15 | 5 | High | Low | Yes | Yes | Yes | High | Low | | | |
| 16 | 3 | Low | Medium | No | No | No | Medium | Low | | | |
| 17 | 5 | Low | High | No | Yes | No | Low | Medium | | | |
| 18 | 6 | Medium | Medium | Yes | Yes | No | Medium | Medium | | | |
| 19 | 9 | High | High | Yes | Yes | No | Low | High | | | |
| 20 | 9 | High | High | Yes | Yes | No | Low | High | | | |
| 21 | 2 | High | High | Yes | Yes | No | Low | High | | | |
| 22 | 3 | High | Medium | Yes | Yes | No | Medium | High | | | |
| 23 | 5 | High | High | Yes | Yes | No | Low | High | | | |

| Action # | # of Objectives Met | Benefits | Costs | Do Benefits Equal or Exceed Cost? | Is Project Grant- Eligible? | Can Project Be Funded Under Existing Programs/ Budgets? | Implementation Priority ^a | Grant Pursuit Priority ^a |
|----------|---------------------------|----------|--------|--|-----------------------------------|---|---|---|
| 24 | 1 | Low | Low | Yes | No | Yes | High | Low |
| 25 | 5 | High | Medium | Yes | Yes | Maybe | High | Medium |
| 26 | 3 | High | Medium | Yes | Yes | Maybe | Medium | Medium |
| 27 | 3 | High | Medium | Yes | Yes | Maybe | Medium | Medium |
| 28 | 5 | Medium | Medium | Yes | No | Maybe | Medium | Low |
| 29 | 3 | Medium | Low | Yes | No | Yes | High | Low |

a. See the introduction to this volume for explanation of priorities.

| Table 4-15. Analysis of Mitigation Actions | | | | | | | | | |
|--|-------------------------------|---|------------------------------------|-----------------------------------|--|----------------------------------|-----------------------|---|--|
| | | Action Addressing Hazard, by Mitigation Type ^a | | | | | | | |
| Hazard Type | Prevention | Property Protection | Public Education & Awareness | Natural Resource Protection | Emergency Services | Structural Projects | Climate Resilience | Community Capacity Building ^b | |
| High-Risk Hazards | | | | | | | | | |
| Flood | GC-2, 3, 4, 10, 12, 13, 18 | GC-1, 4, 11, 13, 21 | GC-2, 4, 10, 13, 18, 29 | GC-7, 13, 18 | GC-2, 6, 13, 14, 15, 25, 26, 27, 29 | GC-7, 8, 9, 13, 19, 20, 23 | GC-4, 5, 7, 13 | GC-2, 3, 4, 10, 13, 14, 15, 16, 24, 28 | |
| Extreme Weather | GC-2, 3, 5, 12, 13 | GC-1, 5, 11, 13 | GC-2, 5 , 3, 29 | GC-5, 13 | GC-2, 5, 6, 13, 14, 15, 25, 26, 27, 29 | GC-5, 9, 13, 19, 20, 23 | GC-5, 13, 17, 23 | GC-2, 3, 13, 14, 15 | |
| Medium-Risk Hazards | | | | | | | | | |
| Dam/Canal Failure | GC-2, 3, 12, 13 | GC-1, 11, 13 | GC-2, 13, 29 | GC-13 | GC-2, 6, 13, 14, 15, 25, 26, 27, 29 | GC-9, 13, 19, 20 | GC-5, 13 | GC-2, 3, 5, 13, 14, 15 | |
| Earthquake | GC-2, 3, 12, 13 | GC-1, 11, 13 | GC-2, 13, 29 | GC-13 | GC-2, 6, 13, 14, 15, 25, 26, 27, 29 | GC-9, 13 | GC-5, 13 | GC-2, 3, 13, 14, 15 | |
| Low-Risk Hazards | | | | | | | | | |
| Wildfire | GC-2, 3, 12, 13 | GC-1, 11, 13 | GC-2, 13, 29 | GC-13 | GC-2, 6, 13, 14, 15, 25, 26, 27, 29 | GC-9, 13, 23 | GC-5, 13 | GC-2, 3, 13, 14, 15 | |
| Drought | GC-2, 3, 12, 13 | GC-1, 11, 13 | GC-2, 13, 29 | GC-13 | GC-2, 6, 13, 14, 15, 25, 26, 27, 29 | GC-9, 13 | GC-5, 13, 17 | GC-2, 3, 13, 14, 15 | |
| Volcano | | | GC-29 | | | | | GC-3, 13, 14, 15 | |
| Landslide | GC-2, 3, 12, 13 | GC-1, 11, 13 | GC-2, 13, 29 | GC-13 | GC-2, 6, 13, 14, 15, 25, 26, 27, 29 | GC-9, 13 | GC-5, 13 | GC-2, 3, 13, 14, 15 | |

a. See the introduction to this volume for explanation of mitigation types.

4-20 TETRA TECH

b. In addition to the community capacity building actions listed in this table, this jurisdiction is expanding its financial capabilities through its participation in and adoption of this hazard mitigation plan, which establishes grant-funding eligibility.

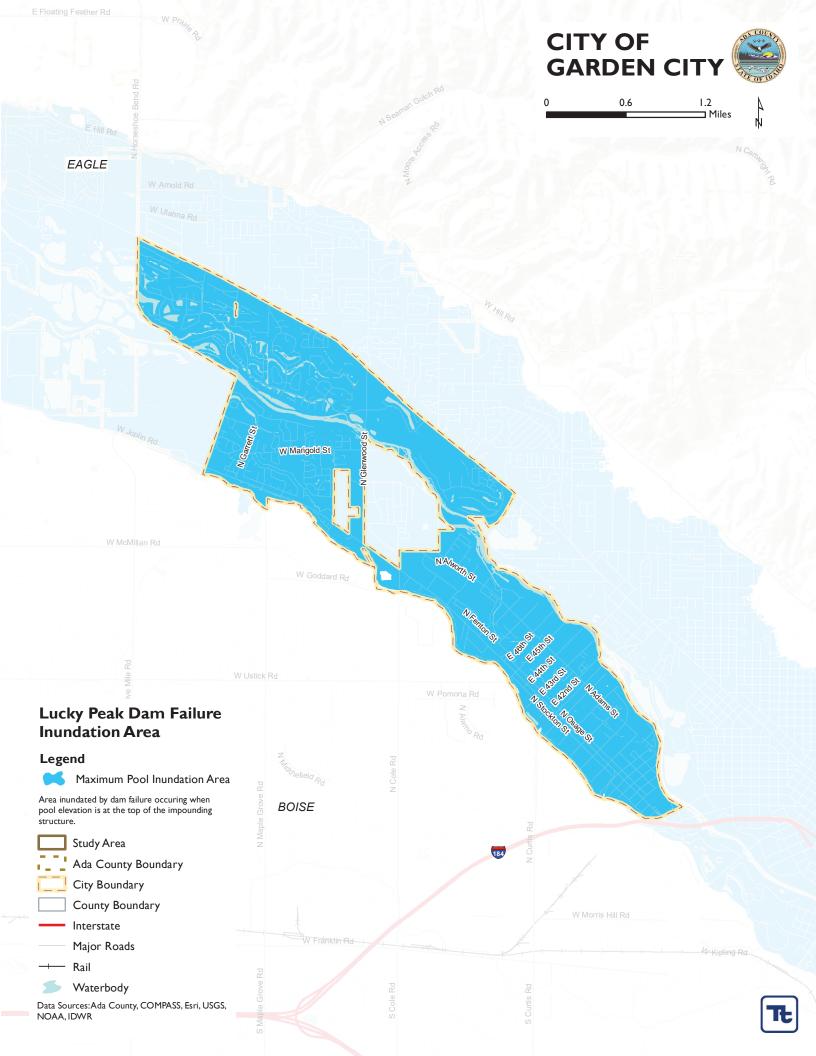
4.9 INFORMATION SOURCES USED FOR THIS ANNEX

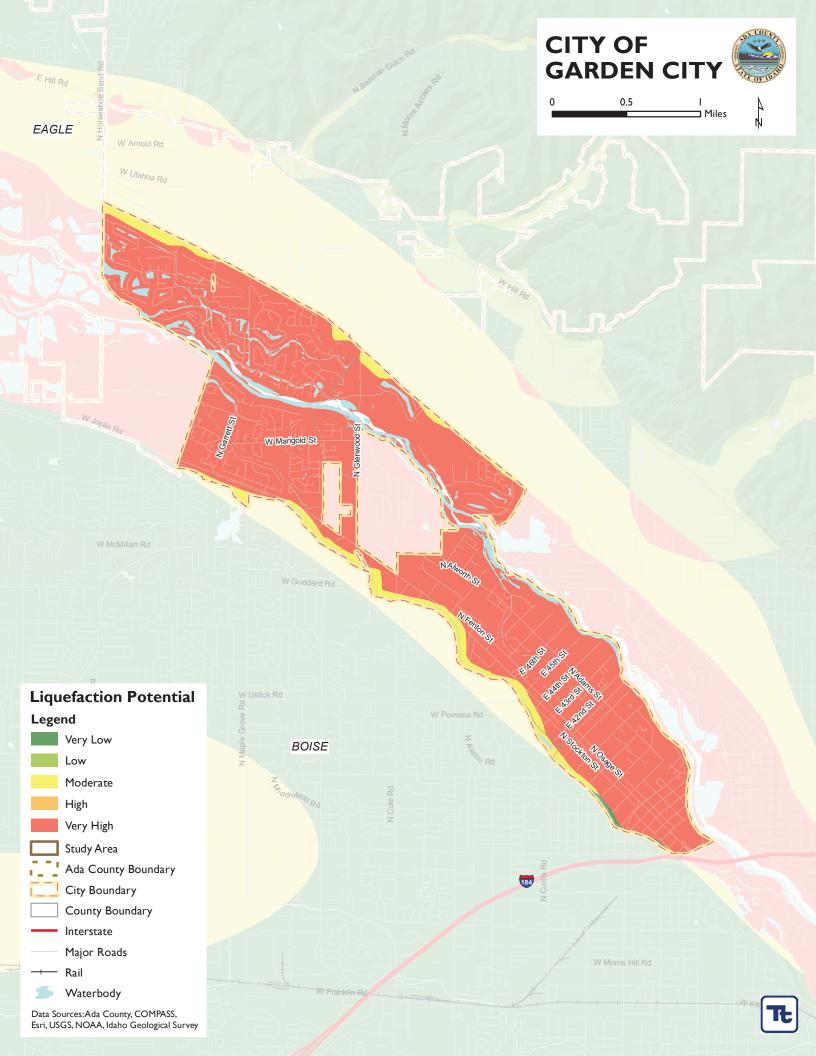
The following technical reports, plans, and regulatory mechanisms were reviewed to provide information for this annex.

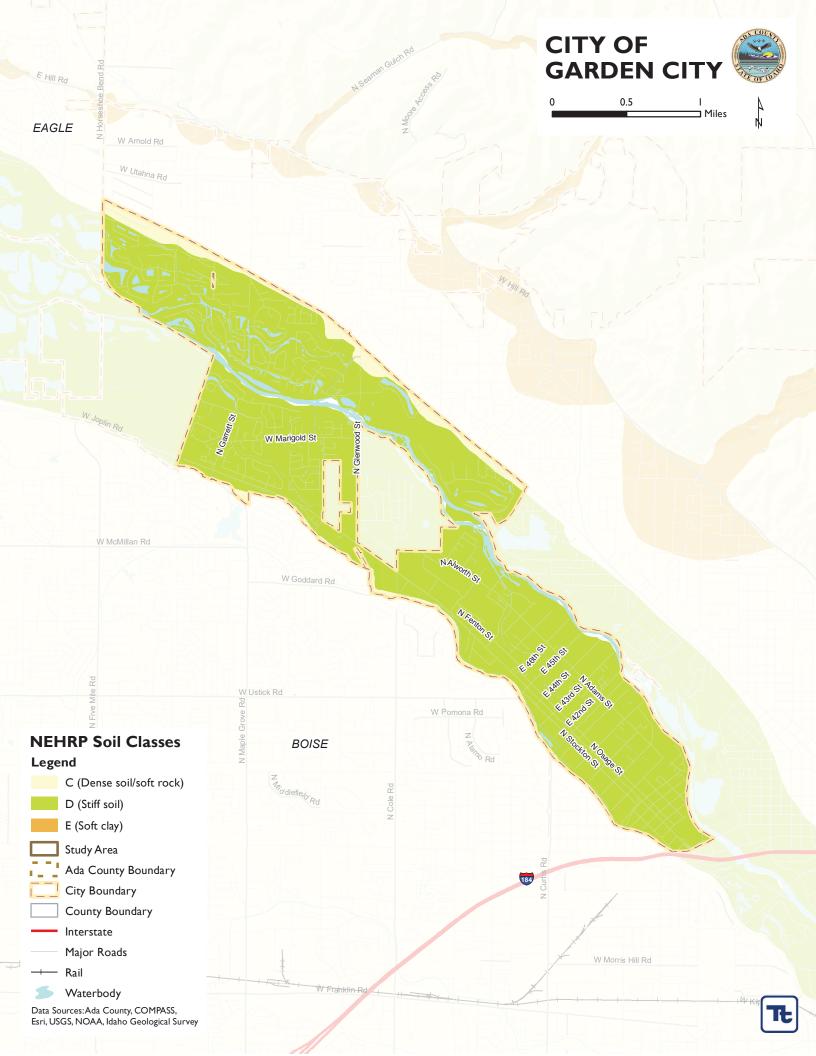
- **2017 Ada County Multi-Hazard Mitigation Plan** The previous HMP was reviewed to update this annex.
- **Garden City Municipal Code**—The municipal code was reviewed for the full capability assessment and for identifying opportunities for action plan integration.
- Garden City Flood Damage Prevention Ordinance—The flood damage prevention ordinance was reviewed for compliance with the National Flood Insurance Program.

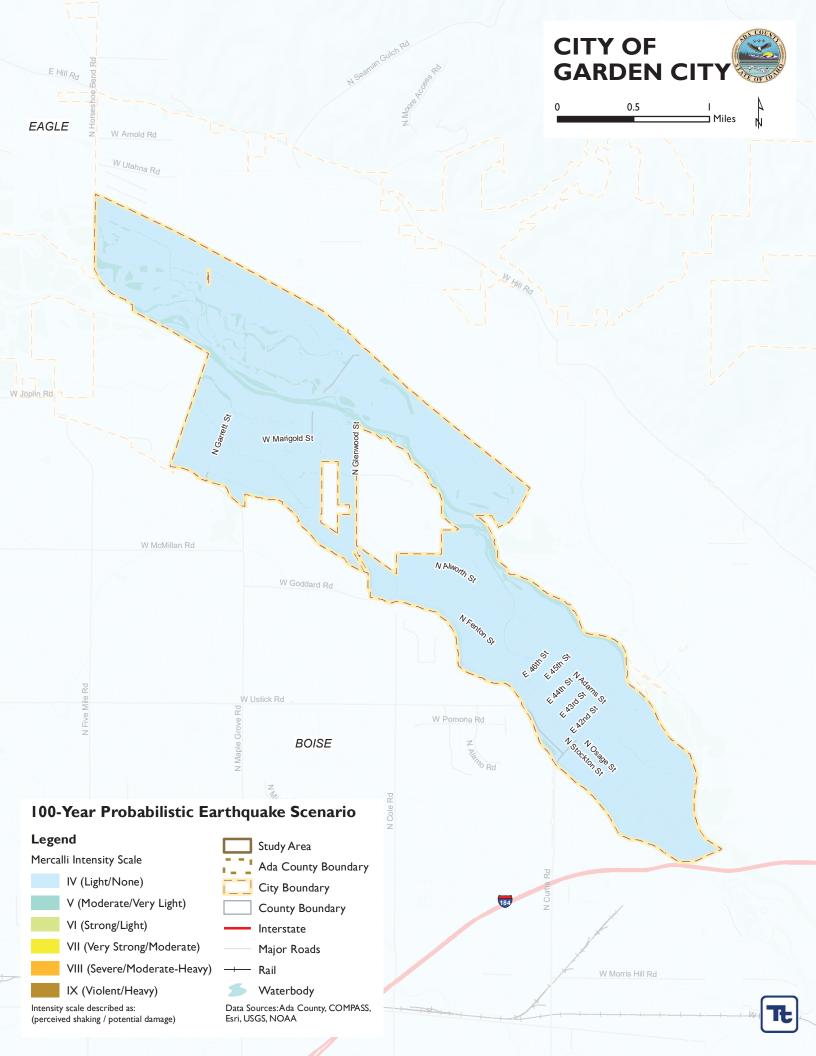
The following outside resources and references were reviewed:

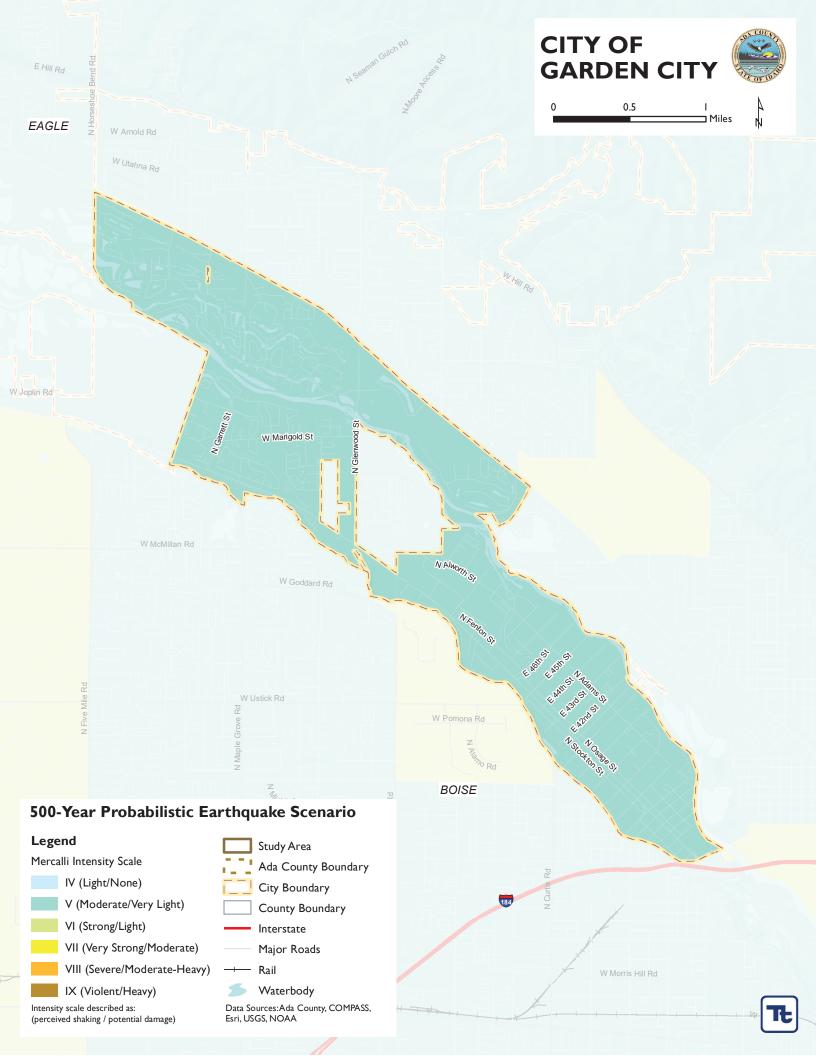
• Hazard Mitigation Plan Annex Development Toolkit—The toolkit was used to support the identification of past hazard events and noted vulnerabilities, the risk ranking, and the development of the mitigation action plan.

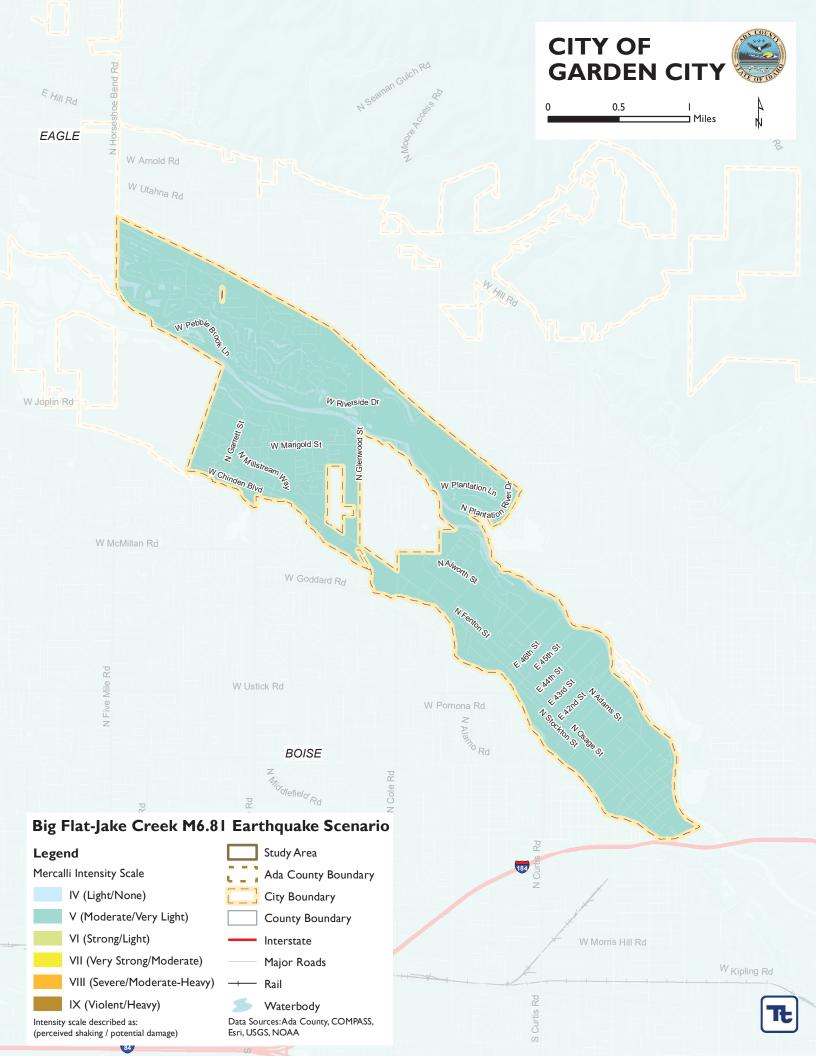


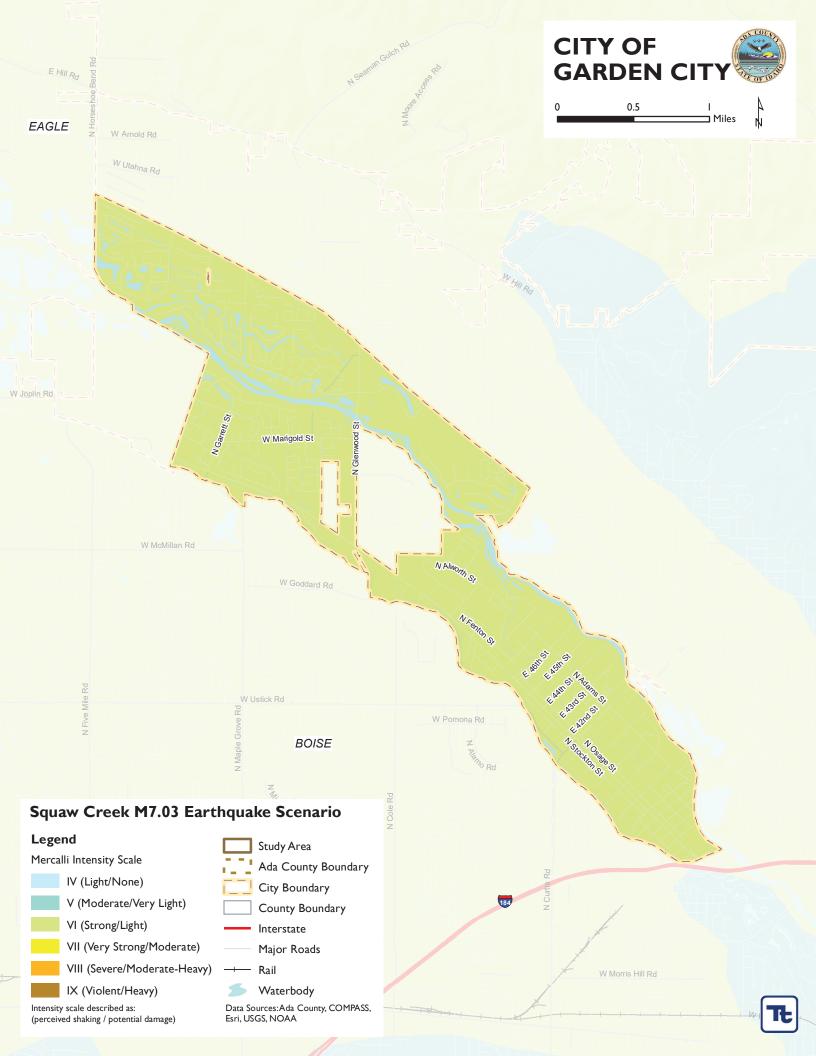


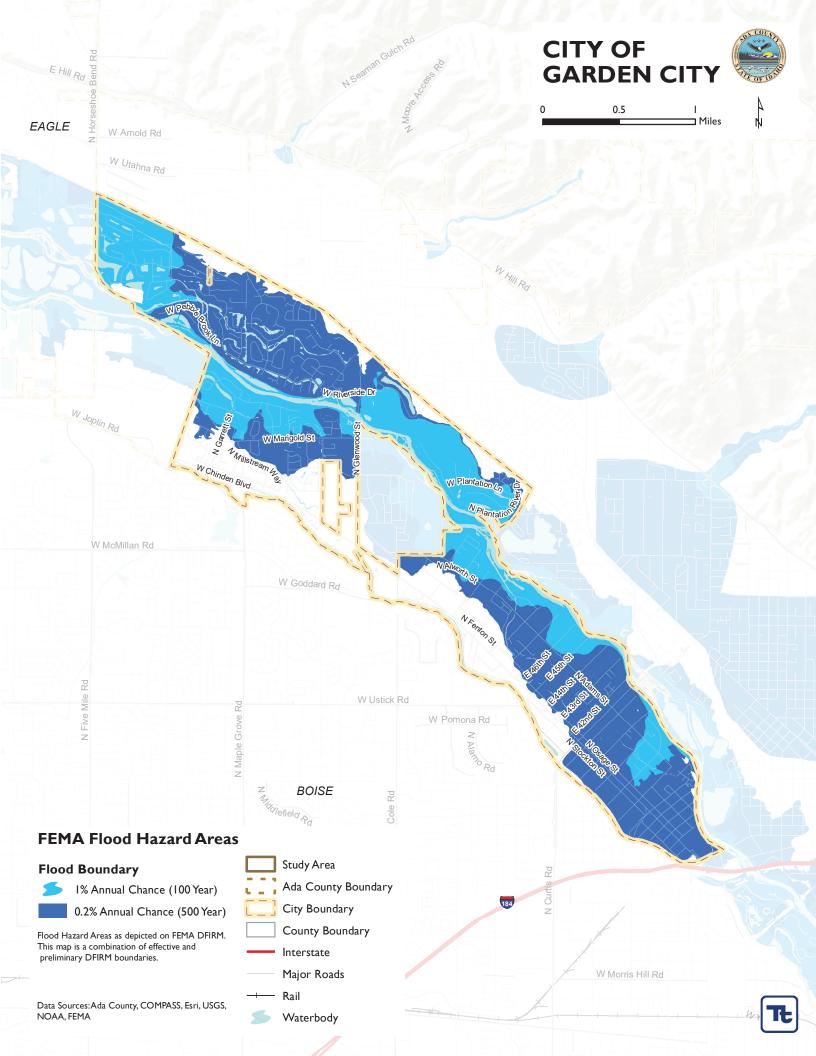


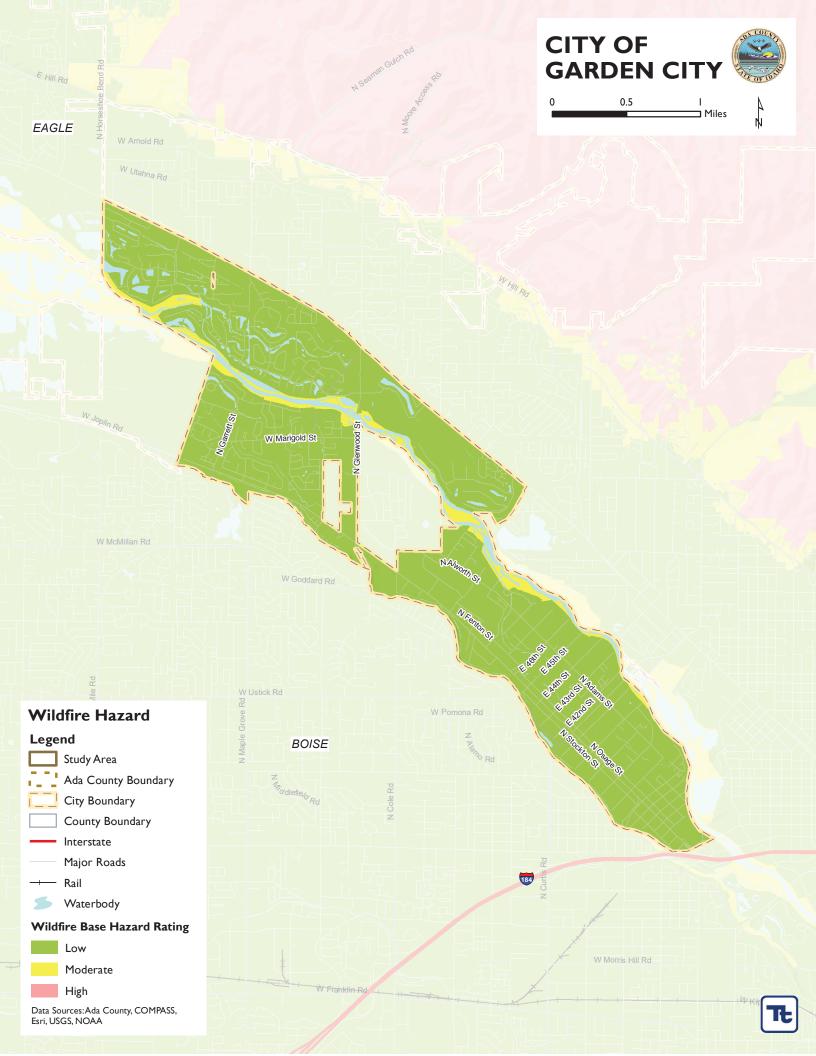












5. CITY OF KUNA

5.1 LOCAL HAZARD MITIGATION PLANNING TEAM

Primary Point of Contact

Mike Borzick, GIS Manager 6950 S Ten Mile Rd Meridian, ID 83642 Telephone: 208-287-1726

Telephone: 208-28/-1/26

e-mail Address: MBorzick@KunaID.gov

Alternate Point of Contact

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Telephone: 208-287-1722

e-mail Address: Bbarrosa@KunaID.com

This annex was developed by the local hazard mitigation planning team, whose members are listed in Table 5-1.

| Table 5-1. Local Hazard Mitigation Planning Team Members | | | | | |
|--|--------------------------|--|--|--|--|
| Name | Title | | | | |
| Mike Borzick | GIS Manager | | | | |
| Doug Hansen | Planning and Zoning Dir | | | | |
| Morgan Treasure | Economic Development Dir | | | | |
| Brady Barrosa | Staff Engineer | | | | |
| Troy Behunin | Planner | | | | |

5.2 JURISDICTION PROFILE

5.2.1 Location and Features

The City of Kuna's business district is located approximately 18 miles southwest of Boise and about 8 miles south of Meridian's business districts and is part of the Boise City-Nampa, Idaho Metropolitan Statistical Area. Kuna is located about 8 miles south of U.S. Interstate 84 and intersects with State Highway 69.

The nearby Morley Nelson Snake River Birds of Prey National Conservation Area holds North America's densest population of nesting raptors. The Western Heritage Historic Byway, designated as a national as well as a state scenic byway, travels around a number of historic sites in the area.

5.2.2 Climate

Kuna's climate is semi-arid, with four distinct seasons. Kuna experiences hot and dry summers with highs exceeding 100 °F 5.6 days in a typical year and 90 °F on 46 days. Due to the aridity, summer nights often offer significant and crisp cool-downs. Winters are cold, with a January average of 30.2 °F, and lows falling to 0 °F or

below on around 4 nights per year. Snowfall averages 19 inches, but typically falls in bouts of 3 inches or less. Spring and fall are generally mild, with autumn being a quick transition period whereas spring is quite gradual. Precipitation is usually infrequent and light, and especially more lacking during the summer months.

5.2.3 History

The City of Kuna was incorporated on September 15, 1915. Kuna is located in the Ada County, which was established on December 22, 1864 by the Idaho Territorial Legislature. Kuna originated as a railroad stop with coach transport to Boise but after the branch line was complete, there was no need for a depot at Kuna and the settlement closed down. With the prospects of irrigation water, settlers were attracted to the area again. The principle industry was agricultural and in the early 1900s, over 700 acres were planted with vineyards, apples and prune orchards. Agricultural is still a major local industry today.

5.2.4 Governing Body Format

The City of Kuna is governed by a mayor-city council form of government; with four-elected City Council members and the Mayor. The City consists of seven departments: Finance; Economic Development; Parks; Public Works; Planning & Zoning, Police and City Clerk. The city government structure also includes a planning & zoning commission and design review committee. The City Council is responsible for the adoption of this plan, Planning and Zoning Department is responsible for its implementation.

5.3 CURRENT TRENDS

5.3.1 Population

According to COMPASS the population of the City of Kuna as of April 2022 was 27,480. Since 2017, the population has grown at an average annual rate of 7.9 percent.

5.3.2 Development

Based on data from Compass (Community Planning Association) and Kuna's Comprehensive Plan, Kuna remains one of the fastest growing cities in the Treasure Valley. Kuna's population increased from 15,210 in 2010 to 24,011 in 2020. This represents a 57.9 percent increase in population growth in 10 years. Kuna was a contender for CNN/Money's "Best Place to Live 2005" list. Kuna is transitioning from a rural community to a suburban city, and residential development has outpaced commercial development. Kuna has identified additional commercial areas as a component of the Comprehensive Land Use Plan. The next step is to implement the plan by establishing new zoning districts, rezoning property, and possibly forming an urban renewal district. City actions relating to land use, annexations, zoning, subdivision and design review, redevelopment and capital improvements must be consistent with the Comprehensive Plan. Future growth and development will be managed according to the Comprehensive Land Use Plan and it will be reviewed and amended as necessary.

Identifying previous and future development trends is achieved through a comprehensive review of permitting since completion of the previous plan and in anticipation of future development. Tracking previous and future growth in potential hazard areas provides an overview of increased exposure to a hazard within a community. Table 5-2 summarizes development trends in the performance period since the preparation of the previous hazard mitigation plan, as well as expected future development trends.

5-2 TETRA TECH

| Table 5-2. Recent and | Expected Future Development | nent Tre | ends | | | |
|---|---|----------|------|------|------|------------|
| Criterion | | | | | Res | ponse |
| Has your jurisdiction annexed any land since the preparation of the previous hazard mitigation plan? If yes, give the estimated area annexed and estimated number of parcels or structures. Approximately 61 parcels containing 2,810.91 acres have been since 2016 | | | | | | Yes xed |
| Is your jurisdiction expected to annex any areas during the performance period of this plan? If yes, describe land areas and dominant uses. Areas withing the Area of City Impact | | | , | Yes | | |
| If yes, who currently has permitting authority over these areas? | If yes, who currently has permitting authority over Planning and Zoning | | | | | |
| Are any areas targeted for development or major redevelopment, briefly describe, including whether any of the areas are in known hazard risk areas | | | | | | |
| How many permits for new construction were issued | | 2016 | 2017 | 2018 | 2019 | 2020 |
| in your jurisdiction since the preparation of the | Single Family | 258 | 365 | 551 | 706 | 880 |
| previous hazard mitigation plan? | Multi-Family | 11 | 32 | 8 | 28 | 1 |
| | Other | N/A | N/A | N/A | N/A | N/A |
| | Total | 269 | 397 | 559 | 734 | 881 |
| Provide the number of new-construction permits for each hazard area or provide a qualitative description of where development has occurred. | Special Flood Hazard Areas: 14 Landslide: 0 High Liquefaction Areas: 0 Wildfire Risk Areas: 0 | | | | | |
| Describe the level of buildout in the jurisdiction, based on your jurisdiction's buildable lands inventory. If no such inventory exists, provide a qualitative description. | The city doesn't have an inventory of lands, but from the normal build cycles once a subdivision is constructed the builder generally pulls all the Building Permits for the entire subdivision. Only a couple of the projects have Custom builders that fill slowly. | | | | | |

5.4 CAPABILITY ASSESSMENT

This section describes an assessment of existing capabilities for implementing hazard mitigation strategies. The introduction at the beginning of this volume of the hazard mitigation plan describes the components included in the capability assessment and their significance for hazard mitigation planning.

Findings of the capability assessment were reviewed to identify opportunities to expand, initiate or integrate capabilities to further hazard mitigation goals and objectives. Where such opportunities were identified and determined to be feasible, they are included in the action plan. The "Analysis of Mitigation Actions" table in this annex identifies these as community capacity building mitigation actions. The findings of the assessment are presented as follows:

- An assessment of planning and regulatory capabilities is presented in Table 5-3.
- Development and permitting capabilities are presented in Table 5-4.
- An assessment of fiscal capabilities is presented in Table 5-5.
- An assessment of administrative and technical capabilities is presented in Table 5-6.
- An assessment of education and outreach capabilities is presented in Table 5-7.
- Information on National Flood Insurance Program (NFIP) compliance is presented in Table 5-8.
- Classifications under various community mitigation programs are presented in Table 5-9.

| | Table 5-3. Plannii | | 1 | | |
|-------------|--|-------------------------|------------------------------|-------------------|--------------------------|
| | | Local Authority | Other Jurisdiction Authority | State Mandated | Integration Opportunity? |
| Codes, Ord | dinances, & Requirements | Additionty | Authority | Manuateu | Opportunity: |
| Building Co | <u> </u> | Yes | No | No | No |
| _ | Comment: Title 4, Chapter 1 Kuna Municipal Coo | | e 2012 IBC per state ma | andate. (12/201 | |
| Zoning Cod | <u> </u> | Yes | No | No | No |
| • | Comment: Title 5, KMC, Adopted 1996 | , 50 | | | |
| Subdivisio | · | Yes | No | No | No |
| | Comment: Title 65, KMC, Adopted 1977 | | | | |
| | r Management | No | Yes | Yes | Yes |
| | Comment: Ada County Highway Department (AC | | | | |
| | ter Recovery | No | No | No | Yes |
| Comment: | , | | | | |
| | e Disclosure | No | No | No | No |
| Comment: | 2.00.004.0 | 110 | | 110 | |
| Growth Ma | nagement | Yes | No | No | No |
| | Comment: Kuna Comprehensive Plan, adopted 2 | | | | |
| Site Plan R | | Yes | No | No | No |
| | Comment: Title 5, Chapter 4, KMC adopted 8/21 | | | | |
| | ental Protection | No | No | No | Yes |
| Comment: | | | | | |
| | age Prevention | Yes | No | No | Yes |
| | Comment : Flood Damage Prevention-Title 4, Ch. | | | | |
| | / Management | No | No | No | Yes |
| Comment: | , | | | | |
| Climate Ch | ange | No | No | No | No |
| Comment: | | | | - | |
| Planning D | ocuments | | | | |
| General Pla | | Yes | No | Yes | Yes |
| | equipped to provide linkage to this Yes | | | | |
| mitigation | | | | | |
| | Policy was adopted under objective # 5.1 of Goal | 5 or the Natural Res | sources and Hazardous | Areas element | of the 2015 |
| | Comprehensive Plan for the City of Kuna, adopte | | | | |
| Capital Imp | provement Plan | Yes | No | No | No |
| | is the plan updated? Annually | | | | |
| | Enter Comment | | | | |
| | ebris Management Plan | Yes | Yes | No | Yes |
| | Enter Comment | | | | I |
| • | or Watershed Plan | Yes | No | No | Yes |
| Comment: | Comment: The 2017 Ada County Multi-Hazard M criteria upon its completion and adoption. | itigation Plan will qua | alify as a flood hazard m | nanagement pla | an under CRS |
| Stormwate | r Plan | Yes | No | Yes | Yes |
| Comment: | Comment: Kuna City complies with the requiremental holds NPDES Permit. City is responsible for Storr | | | | ements. ACHD |
| Urban Wate | er Management Plan | No | No | No | No |
| | - | | | | |
| Comment: | | | | | |
| | nservation Plan | No | No | No | Yes |

5-4 TETRA TECH

| | Local Authority | Other Jurisdiction Authority | State Mandated | Integration Opportunity? |
|--|--------------------|---------------------------------|-------------------|--------------------------|
| Economic Development Plan | Yes | No | No | Yes |
| Comment: | | | | |
| Shoreline Management Plan | No | No | No | No |
| Comment: | | | | |
| Community Wildfire Protection Plan | Yes | No | No | Yes |
| Comment: The 2017 Ada County Multi-hazard Mitigation plan is | being developed | as a CWPP for the Ad | a County plann | ing area. |
| Forest Management Plan | No | No | No | No |
| Comment: | | | | |
| Climate Action Plan | No | No | No | No |
| Comment: | | | | |
| Comprehensive Emergency Management Plan | No | No | No | Yes |
| Comment: | | | | |
| Threat & Hazard Identification & Risk Assessment (THIRA) | No | Yes | No | Yes |
| Comment: EMCR has developed and maintains a THIRA for the | Ada County plar | nning area. | | |
| Post-Disaster Recovery Plan | No | No | No | Yes |
| Comment: | | | | |
| Continuity of Operations Plan | Yes | No | No | Yes |
| Comment: City of Kuna Continuity of Operations (COOP), April 1 | 0, 2012 | | | |
| Public Health Plan | No | Yes | No | Yes |
| Comment: Comment: Central District Health Department Emerge | ency Operations | Plan, 2013 | | |

| Table 5-4. Development and Permitting Capability | | | | |
|---|---|--|--|--|
| Criterion | | Response | | |
| Does your jurisdiction issue development permits? If no, who does? If yes, which department? Development isn't "Permitted "Permit" is issued. | | No – it does go through an approval process, but no | | |
| Does your jurisdiction have the ability to track permits Does your jurisdiction have a buildable lands inventor | - | No Yes | | |

| Table 5-5. Fiscal Capability | | | | | |
|--|--------------------------------|--|--|--|--|
| Financial Resource | Accessible or Eligible to Use? | | | | |
| Community Development Block Grants | Yes | | | | |
| Capital Improvements Project Funding | Yes | | | | |
| Authority to Levy Taxes for Specific Purposes | Yes | | | | |
| User Fees for Water, Sewer, Gas or Electric Service | Yes | | | | |
| If yes, specify: Sewer, Water, Irrigation (Pressure and Gravity) | | | | | |
| Incur Debt through General Obligation Bonds | Yes | | | | |
| Incur Debt through Special Tax Bonds | Yes | | | | |
| Incur Debt through Private Activity Bonds | Yes | | | | |
| Withhold Public Expenditures in Hazard-Prone Areas | No | | | | |
| State-Sponsored Grant Programs | Yes | | | | |
| Development Impact Fees for Homebuyers or Developers | Yes | | | | |

| | Table 5-6. Administrative and Technical Capability | |
|---|--|------------|
| | Staff/Personnel Resource | Available? |
| Planners or engineers with known | owledge of land development and land management practices | Yes |
| If Yes, Department /Position: | Public Works/Director Public Works/City Engineer Public Works/Staff Engineers Public Works/GIS Manager, Plan Reviewer Planning/Director Planning/Staff | |
| Engineers or professionals tra | ined in building or infrastructure construction practices | Yes |
| If Yes, Department /Position: | Public Works/Director Public Works/City Engineer Public Works/Staff Engineers Public Works/GIS Manager, Plan Reviewer | |
| Planners or engineers with an | understanding of natural hazards | Yes |
| If Yes, Department /Position: | Public Works/Director Public Works/City Engineer Public Works/Staff Engineers Public Works/GIS Manager, Plan Reviewer | |
| Staff with training in benefit/co | ost analysis | Yes |
| If Yes, Department /Position: | Public Works/Director | |
| Surveyors | | Yes |
| | Public Works/GIS Manager – Contract as needed | |
| Personnel skilled or trained in | •• | Yes |
| If Yes, Department /Position: | • | |
| Scientist familiar with natural h | | Yes |
| If Yes, Department /Position: | Contract as needed | W |
| Emergency manager | Ada Caushi | Yes |
| If Yes, Department /Position: Grant writers | Aua County | Yes |
| | City Clerk/Director - Contract as needed | 168 |
| , = -pa | The second secon | |

| Table 5-7. Education and Outreach Capability | |
|--|-------------------------------|
| Criterion | Response |
| Do you have a public information officer or communications office? | Yes, Economic Developer |
| Do you have personnel skilled or trained in website development? | Yes |
| Do you have hazard mitigation information available on your website? | No |
| Do you use social media for hazard mitigation education and outreach? | No |
| Do you have any citizen boards or commissions that address issues related to hazard mitigation? | No |
| If yes, briefly describe: | |
| Do you have any other programs in place that could be used to communicate hazard-related information? If yes, briefly describe: Approved COOP | Yes |
| Do you have any established warning systems for hazard events? | Yes |
| If yes, briefly describe: Code Red/ISAWS – residents may sign up to receive emergency notifications and critical common Both systems are IPAWS enabled and may additionally access that integrated system for public | |

5-6 TETRA TECH

| Table 5-8. National Flood Insurance Program Compliance | | | | | |
|---|------------------------------------|--|--|--|--|
| Criterion | Response | | | | |
| What local department is responsible for floodplain management? | GIS Department / Planning & Zoning | | | | |
| Who is your floodplain administrator? (department/position) | Public Works / GIS Manager | | | | |
| Are any certified floodplain managers on staff in your jurisdiction? | No | | | | |
| What is the date that your flood damage prevention ordinance was last amended? | 10/02/2003 | | | | |
| Does your floodplain management program meet or exceed minimum requirements? If exceeds, in what ways? | Meet | | | | |
| When was the most recent Community Assistance Visit or Community Assistance Contact? | CAV 11/18/2002 CAC 9/12/1989 | | | | |
| Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? If so, state what they are. | No | | | | |
| Are any RiskMAP projects currently underway in your jurisdiction? If so, state what they are. We had LiDar flown with the hope STARR was updating our Riskl | Yes MAP | | | | |
| Do your flood hazard maps adequately address the flood risk within your jurisdiction? <i>If no, state why.</i> Mapping is grossly inaccurate | No | | | | |
| Does your floodplain management staff need any assistance or training to support its floodplain management program? If so, what type of assistance/training is needed? CFM training | Yes | | | | |
| Does your jurisdiction participate in the Community Rating System (CRS)? If yes, is your jurisdiction interested in improving its CRS Classification? If no, is your jurisdiction interested in joining the CRS program? Yes | No | | | | |
| How many flood insurance policies are in force in your jurisdiction? ^a What is the insurance in force? \$187,300 What is the premium in force? \$1,114 | 1 | | | | |
| How many total loss claims have been filed in your jurisdiction? ^a What were the total payments for losses? \$0 | 0 | | | | |
| a. According to FEMA statistics as of March 31, 2022 | | | | | |

| Table 5-9. Community Classifications | | | | |
|---|----------------|----------------|-----------------|--|
| | Participating? | Classification | Date Classified | |
| FIPS Code | Yes | 1600144290 | N/A | |
| DUNS# | Yes | 126045272 | N/A | |
| Community Rating System | No | N/A | N/A | |
| Building Code Effectiveness Grading Schedule | No | 10/10 | N/A | |
| Public Protection | Yes | 3/9 | N/A | |
| Storm Ready | Yes | Participant | N/A | |
| Firewise | No | N/A | N/A | |
| Tsunami Ready | No | N/A | N/A | |

5.5 INTEGRATION REVIEW

For hazard mitigation planning, "integration" means that hazard mitigation information is used in other relevant planning mechanisms, such as general planning and capital facilities planning, and that relevant information from those sources is used in hazard mitigation. This section identifies where such integration is already in place, and

where there are opportunities for further integration in the future. Resources listed at the end of this annex were used to provide information on integration. The progress reporting process described in Volume 1 of the hazard mitigation plan will document the progress of hazard mitigation actions related to integration and identify new opportunities for integration.

5.5.1 Existing Integration

Some level of integration has already been established between local hazard mitigation planning and the following other local plans and programs:

- City of Kuna Continuity of Operations (COOP), April 10, 2012
- Policy was adopted under objective # 5.1 of Goal 5 or the Natural Resources and Hazardous Areas element of the 2015 Comprehensive Plan for the City of Kuna

5.5.2 Opportunities for Future Integration

The capability assessment presented in this annex indicates opportunities to integrate this mitigation plan with other jurisdictional planning/regulatory capabilities. Capabilities were identified as integration opportunities if they can support or enhance the actions identified in this plan or be supported or enhanced by components of this plan. The capability assessment identified the following plans and programs that do not currently integrate hazard mitigation information but provide opportunities to do so in the future:

- Future updates to the **City of Kuna's Comprehensive Plan**—the comprehensive plan will continue to use hazard mapping and hazard data in updates of the land use and safety sections.
- Continued **CWPP** integration with the Hazard Mitigation Plan wildfire maps and hazard data.

Taking action to integrate each of these programs with the hazard mitigation plan was considered as a mitigation action to include in the action plan in this annex.

5.6 RISK ASSESSMENT

5.6.1 Jurisdiction-Specific Natural Hazard Event History

Table 5-10 lists past occurrences of natural hazards for which specific damage was recorded in this jurisdiction Other hazard events that broadly affected the entire planning area, including this jurisdiction, are listed in the risk assessments in Volume 1 of this hazard mitigation plan.

5.6.2 Hazard Risk Ranking

Table 5-11 presents a local ranking of all hazards of concern for which this hazard mitigation plan provides complete risk assessments. As described in detail in Volume 1, the ranking process involves an assessment of the likelihood of occurrence for each hazard, along with its potential impacts on people, property and the economy. Mitigation actions target hazards with high and medium rankings.

5-8 TETRA TECH

| Table 5-10. Past Natural Hazard Events | | | | | |
|--|-----------------|----------------------------------|--|--|--|
| Type of Event | FEMA Disaster # | Date | Damage Assessment | | |
| COVID-19 Pandemic | DR-4534 | January 20, 2020, and continuing | N/A | | |
| Flooding | DR-4342 | March 29 – June 15, 2017 | Public Assistance Countywide: \$4,493,792 | | |
| Thunderstorm Wind | N/A | 10/19/2019 | Several large trees, power lines and fences down, and car damage | | |
| Thunderstorm Wind | N/A | 8/11/2015 | Downed trees and power outages | | |
| Severe Wind | N/A | 3/29/2009 | \$33,000 (countywide) | | |
| Canal Breach | N/A | 6/5/2006 | Unknown (40 homes) | | |
| Severe Wind | N/A | 4/27/1995 | \$50,000 (countywide) | | |
| Flooding | N/A | 6/1983 | \$147,000 (countywide) | | |

| | Table 5-11. Hazard Risk Ranking | | | | | |
|------|---------------------------------|--------------------|---------------|--|--|--|
| Rank | Hazard | Risk Ranking Score | Risk Category | | | |
| 1 | Extreme Weather | 33 | High | | | |
| 2 | Flood | 18 | Medium | | | |
| 3 | Earthquake | 16 | Medium | | | |
| 4 | Wildfire | 12 | Low | | | |
| 5 | Drought | 9 | Low | | | |
| 6 | Volcano | 6 | Low | | | |
| 7 | Dam/Canal Failure | 0 | Low | | | |
| 8 | Landslide | 0 | Low | | | |

5.6.3 Jurisdiction-Specific Vulnerabilities

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. This section provides information on a few key vulnerabilities for this jurisdiction. Available jurisdiction-specific risk maps of the hazards are provided at the end of this annex.

Repetitive Loss Properties

Repetitive loss records are as follows:

- Number of FEMA-identified Repetitive-Loss Properties: 0
- Number of FEMA-identified Severe-Repetitive-Loss Properties: 0
- Number of Repetitive-Loss Properties or Severe-Repetitive-Loss Properties that have been mitigated: N/A

Other Noted Vulnerabilities

The following jurisdiction-specific issues have been identified based on a review of the results of the risk assessment, public involvement strategy, and other available resources:

- Manmade Canal failures
- Wildfires around Transmission Power Lines

Mitigation actions addressing these issues were prioritized for consideration in the action plan in this annex.

5.7 STATUS OF PREVIOUS PLAN ACTIONS

Table 5-12 summarizes the actions that were recommended in the previous version of the hazard mitigation plan and their implementation status at the time this update was prepared.

| | | | Removed; | Plar | ed Over to Update |
|--|---|----------------|-----------------------|-----------------|-----------------------|
| Action Item | ı from Previous Plan | Completed | No Longer Feasible | Check if Yes | Action # ir Update |
| Action K-1- facilities. | Provide redundancy with Conduit and Fiber hard-wired into all critical | | | ✓ | K-1 |
| Comment: | Ongoing. Staff is continually budgeting, requesting development to design an holes or complete loops. | d build condu | it in needed 2 | zones to | close any |
| | Develop and maintain an inventory of City Critical Facilities Ongoing. This action is complete as of this planning period, but needs to stay completed. | in the forefro | nt and can ne | ✓ ever truly | K-7 be |
| | Open Space Preservation in identified high risk hazard area This is being completed with our Comprehensive Plan, it is currently in the lasshould be heading to the County sometime thereafter. In approval process 8/ | | eing approve | √ d at the 0 | K-2 City level and |
| implementir programs in ordinance, ¡ | —Maintain good standing under the National Flood Insurance Program by programs that meet or exceed the minimum NFIP requirements. Such clude but are not limited to: enforcing an adopted flood damage prevention participating in floodplain mapping updates, and providing public assistance tion on floodplain requirements and impacts. | | | ✓ | K-4 |
| Comment: | Hiring of our new Staff Engineers. Staff is dedicated and supported by the Puand to ultimately become Floodplain Manager Certified. | blic Works Di | rector to get i | more FE | MA training |
| | —Continue to integrate Multi-Hazard Mitigation Plan into future updates of the rehensive Plan | | | ✓ | K-2 |
| Comment: | Comprehensive Plan is currently under its last stages of review. | | | | |
| located in h | —Where appropriate, support retrofitting, purchase, or relocation of structures azard-prone areas to protect structures from future damage, with properties re to repetitive losses as a priority. | | | ✓ | K-10 |
| Comment: | No known properties that have sustained any damage more or less repeated | damages | | | |
| | —Consider appropriate higher regulatory standards that prevent or reduce uilt environment from the known hazards of concern. | ✓ | | | |
| Comment: | In our Comprehensive Plan we have created buffer areas and riparian zone is several other large canals to push homes and structures back from those was also to hopefully mitigate any potential damages during a flood type event. | | | | |
| Action K-8- | —Support County-wide initiatives identified in Volume 1. | | | ✓ | K-8 |
| Comment: | Continue this process as the city grows. | | | | |
| | —Continue to support the implementation, monitoring, maintenance, and this Plan, as defined in Volume 1. | | | ✓ | K-3 |
| | We will gladly continue our support of this plan | | | | |
| sites use ra | D—Update SCADA links to all critical facilities via Cell service. Many of our dio repeaters to the water tower, if we lose the water tower we lose ALL | | | ✓ | K-9 |
| communica | tion | | | | |

5-10 TETRA TECH

| | | Removed; | Carried Over to Plan Update | |
|--|-----------|-----------------------|--------------------------------|-----------------------|
| Action Item from Previous Plan | Completed | No Longer Feasible | | Action # in Update |
| Action K-11 —Provide fire safety, fire prevention and Firewise education to neighborhoods, schools and community via the internet, social media and direct public outreach. | | ✓ | | |

5.8 HAZARD MITIGATION ACTION PLAN

Table 5-13 lists the identified actions, which make up the hazard mitigation action plan for this jurisdiction. Table 5-14 identifies the priority for each action. Table 5-15 summarizes the mitigation actions by hazard of concern and mitigation type.

| Table 5-13. Hazard Mitigation Action Plan Matrix | | | | | | | | | |
|--|--|--------------------|-------------------------|-------------------|---|-----------------------|--|--|--|
| Benefits New or Existing Assets | Objectives Met | Lead Agency | Support Agency | Estimated Cost | Sources of Funding | Timeline ^a | | | |
| | Action K-1—Where appropriate support development lead construction of conduit infrastructure to close any loops or holes in the City of Kuna's Fiber Infrastructure. Where needed, budget for and construct needed infrastructure. | | | | | | | | |
| | Extreme Weather, Fl | • | l ' | 1 | | | | | |
| Existing | 1, 3, 8, 9, 10 | City of Kuna | EMCR | High | HMGP, BRIC, FMA, ICC | Short-term | | | |
| | rate the hazard mitigating the Kuna Comprehe | | lans, ordinances and | programs that | at dictate land use decisions | in the | | | |
| Hazards Mitigated: | Extreme Weather, Fl | ood, Earthquake, W | /ildfire, Dam/Canal Fa | ailure, Landsli | de | | | | |
| New & Existing | 3, 4, 5, 8, 9 | City of Kuna | EMCR | Low | Staff Time, General Funds | Ongoing | | | |
| Action K-3—Active | ely participate in the pla | n maintenance prot | cocols outlined in Volu | ume 1 of this I | nazard mitigation plan. | | | | |
| Hazards Mitigated: | Extreme Weather, Fl | ood, Earthquake, W | lidfire, Drought, Volc | ano, Dam/Ca | nal Failure, Landslide | | | | |
| New & Existing | All | City of Kuna | EMCR | Low | Staff Time, General Funds, FEMA Mitigation Grant Funding for 5-year update | Short-term | | | |
| Action K-4—Continue to maintain good standing and compliance under the NFIP through implementation of floodplain management programs that, at a minimum, meet the NFIP requirements: • Enforce the flood damage prevention ordinance. • Participate in floodplain identification and mapping updates. • Provide public assistance/information on floodplain requirements and impacts. | | | | | | | | | |
| | Flood, Dam/Canal Fa | | | | | | | | |
| New & Existing | 2 ,3, 4 ,5 ,6 ,9 | Planning & Zoning | N/A | Low | Staff Time, General Funds | Ongoing | | | |

Action K-5—Coordinate with community stakeholders in both the public and private sectors to identify and pursue adaptive capacity strategies that could improve community resilience in relation to future climate conditions including but not limited to the following:

- · Lack of Irrigation Water
- Wildfire
- Canal Failures

| Hazards Mitigated: | Extreme Weather, FI | ood, Drought, Wildfi | re | | | |
|--------------------|---------------------|----------------------|------|-----|---------------------|------------|
| New & Existing | 2, 3, 4, 5, 6, 9 | City of Kuna | EMCR | Low | Staff Time, General | Short-term |
| | | | | | Funds | |

| Benefits New or Existing Assets | Objectives Met | Lead Agency | Support Agency | Estimated Cost | Sources of Funding | Timelinea |
|------------------------------------|--|-------------------------|-------------------------|-------------------|-------------------------------|----------------|
| | _ | ical facilities and inf | rastructure that lack | adequate bacl | kup power, including City H | all and the |
| new Kuna East Ope | erations Center | | | | | |
| <u>Hazards Mitigated:</u> | Extreme Weather, FI | ood, Earthquake, W | /ildfire, Dam/Canal F | ailure, Landsli | de | |
| New & Existing | All | City of Kuna | EMCR | Low | General Funds, Development | Short Term |
| Action K-7— Deve | lop and maintain an in | ventory of City Critic | al Facilities | | | |
| Hazards Mitigated: | Extreme Weather, FI | ood, Earthquake, W | /ildfire, Drought, Volc | ano, Dam/Car | nal Failure, Landslide | |
| Existing | All | Public Works | GIS Department | Medium | General Funds | Ongoing |
| Action K-8— Supp | ort County-wide initiati | ves identified in Vol | ume 1. | | | |
| • • | Extreme Weather, FI | | | ano, Dam/Car | nal Failure, Landslide | |
| New & Existing | All | City of Kuna | EMCR | Low | Unknown | Ongoing |
| Action K-9— Conti | nually update the SCA | DA process, look fo | r redundancy with Fil | ber and Cell u | sage. | |
| Hazards Mitigated: | Extreme Weather, FI | ood, Earthquake, W | /ildfire, Drought, Volc | ano, Dam/Car | nal Failure, Landslide | |
| New & Existing | All | City of Kuna | EMCR | Medium | Budget Process | Short Term |
| | ere appropriate, suppor epetitive losses and/or | | | | ed in hazard areas, prioritiz | ing those that |
| Hazards Mitigated: | Extreme Weather, Fl | ood, Earthquake, W | /ildfire, Volcano, Dam | n/Canal Failure | e, Landslide | |
| New & Existing | 3, 8, 9 | City of Kuna | | High | HMGP, FMA, BRIC | Short Term |
| no completion of | | | | ars; Ongoing= | Continuing new or existing | program with |

| Table 5-14. | Mitigation . | Action | Priority |
|--------------------|--------------|--------|-----------------|
|--------------------|--------------|--------|-----------------|

| Action # | # of Objectives Met | Benefits | Costs | Do Benefits Equal or Exceed Cost? | ls Project Grant- Eligible? | Can Project Be Funded Under Existing Programs/ Budgets? | Implementation Priority ^a | Grant Pursuit Priority ^a |
|----------|---------------------------|----------|--------|---|-----------------------------------|---|---|---|
| 1 | 2 | High | High | Yes | Yes | No | Medium | High |
| 2 | 7 | Medium | Low | Yes | No | Yes | High | Low |
| 3 | 3 | Low | Low | Yes | No | Yes | High | Low |
| 4 | 6 | Medium | Low | Yes | No | Yes | High | Low |
| 5 | 7 | Medium | Low | Yes | No | Yes | High | Low |
| 6 | 3 | High | Medium | Yes | Yes | No | Medium | High |
| 7 | 3 | High | Low | Yes | No | Yes | High | Low |
| 8 | 7 | Medium | Low | Yes | Yes | No | Medium | Medium |
| 9 | 7 | High | Medium | Yes | Yes | Yes | High | High |
| 10 | 3 | High | High | Yes | Yes | No | Medium | High |

a. See the introduction to this volume for explanation of priorities.

5-12 TETRA TECH

| | Table 5-15. Analysis of Mitigation Actions | | | | | | | | |
|------------------------|--|------------------------|---|-----------------------------------|-----------------------|------------------------|-----------------------|--|--|
| | | | Action Addressing Hazard, by Mitigation Type ^a | | | | | | |
| Hazard Type | Prevention | Property Protection | Public Education & Awareness | Natural Resource Protection | Emergency Services | Structural Projects | Climate Resilience | Community Capacity Building ^b | |
| High-Risk Hazards | | | | | | | | | |
| Extreme Weather | 2, 4, 5 | 1, 6, 10 | 8, 9 | 2, 4, 5 | 6, 9 | | 5 | 3, 7, 8 | |
| Medium-Risk Haza | rds | | | | | | | | |
| Flood | 2, 5 | 1, 6, 10 | 8, 9 | 2, 4, 5 | 6, 9 | | 5 | 3, 7, 8 | |
| Earthquake | 2 | 1, 6, 10 | 8, 9 | 2 | 6, 9 | | | 3, 7, 8 | |
| Low-Risk Hazards | | | | | | | | | |
| Wildfire | 2, 5 | 1, 6, 10 | 8, 9 | 2, 5 | 6, 9 | | 5 | 3, 7, 8 | |
| Drought | 5 | 1, 6 | 8, 9 | 2, 5 | 6, 9 | | 5 | 3, 7, 8 | |
| Volcano | | | | | 6, 9 | | | 3, 7, 8 | |
| Dam/Canal Failure | 2, 4 | 1, 6, 10 | 8, 9 | 2, 4 | 6, 9 | | | 3, 7, 8 | |
| Landslide | 2, | 1 | | | 6, 9 | | | 3, 7, 8 | |

a. See the introduction to this volume for explanation of mitigation types.

5.9 INFORMATION SOURCES USED FOR THIS ANNEX

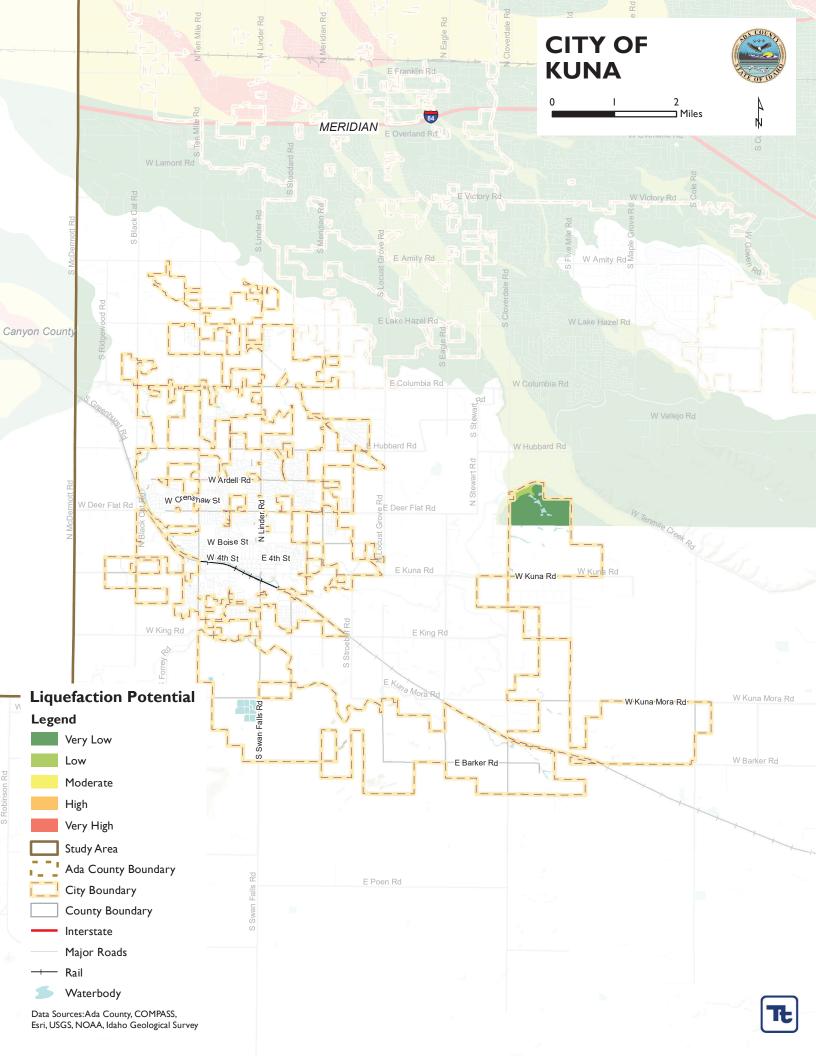
The following technical reports, plans, and regulatory mechanisms were reviewed to provide information for this annex.

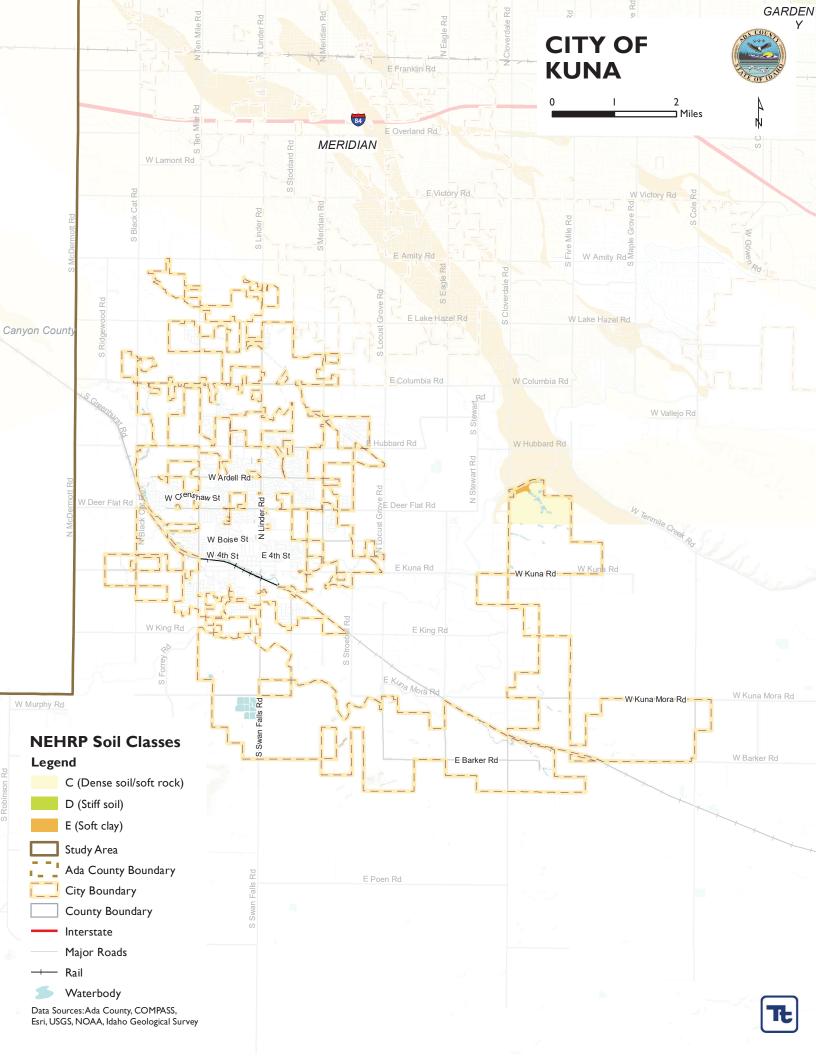
- **2017 Ada County Multi-Hazard Mitigation Plan** The previous HMP was reviewed to update this annex.
- **Kuna Municipal Code**—The municipal code was reviewed for the full capability assessment and for identifying opportunities for action plan integration.

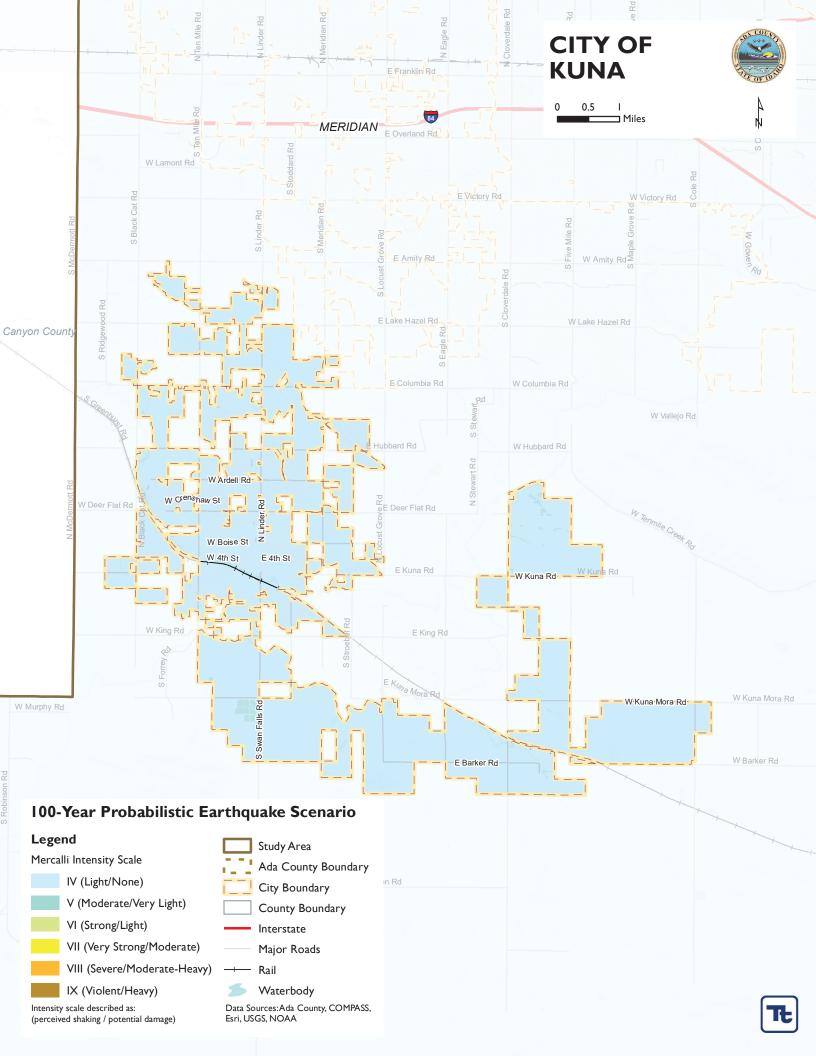
The following outside resources and references were reviewed:

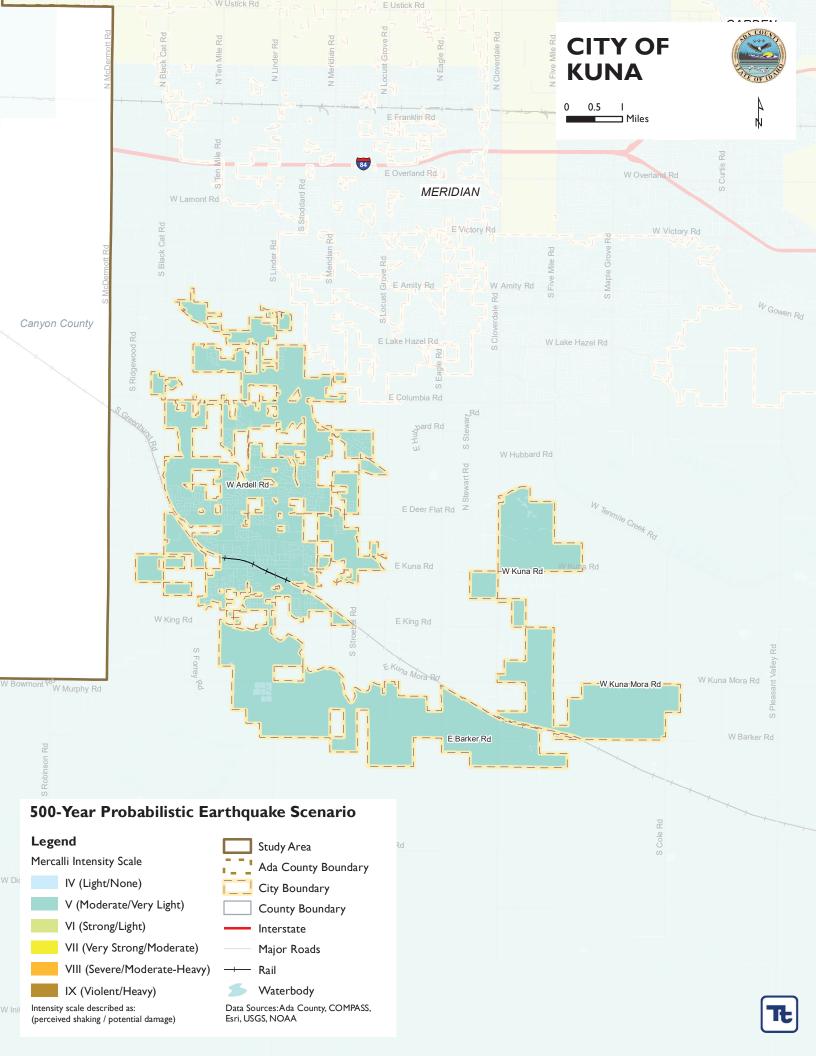
Hazard Mitigation Plan Annex Development Toolkit—The toolkit was used to support the
identification of past hazard events and noted vulnerabilities, the risk ranking, and the development of the
mitigation action plan.

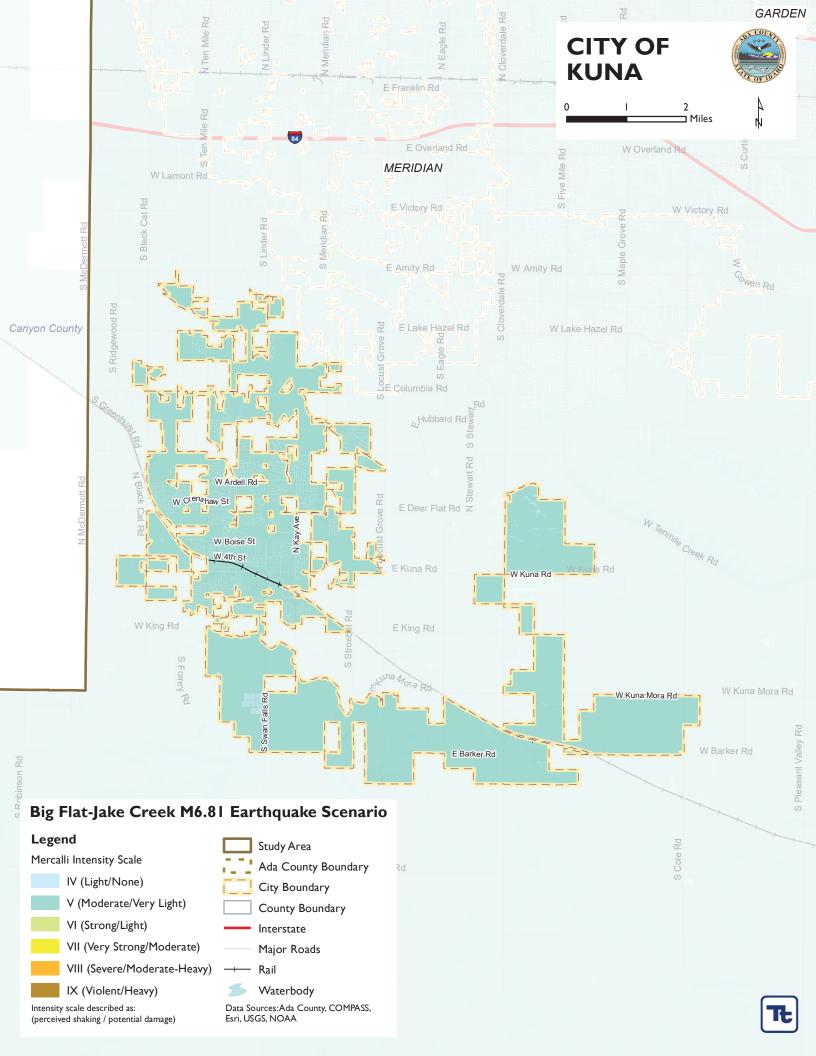
b. In addition to the community capacity building actions listed in this table, this jurisdiction is expanding its financial capabilities through its participation in and adoption of this hazard mitigation plan, which establishes grant-funding eligibility.

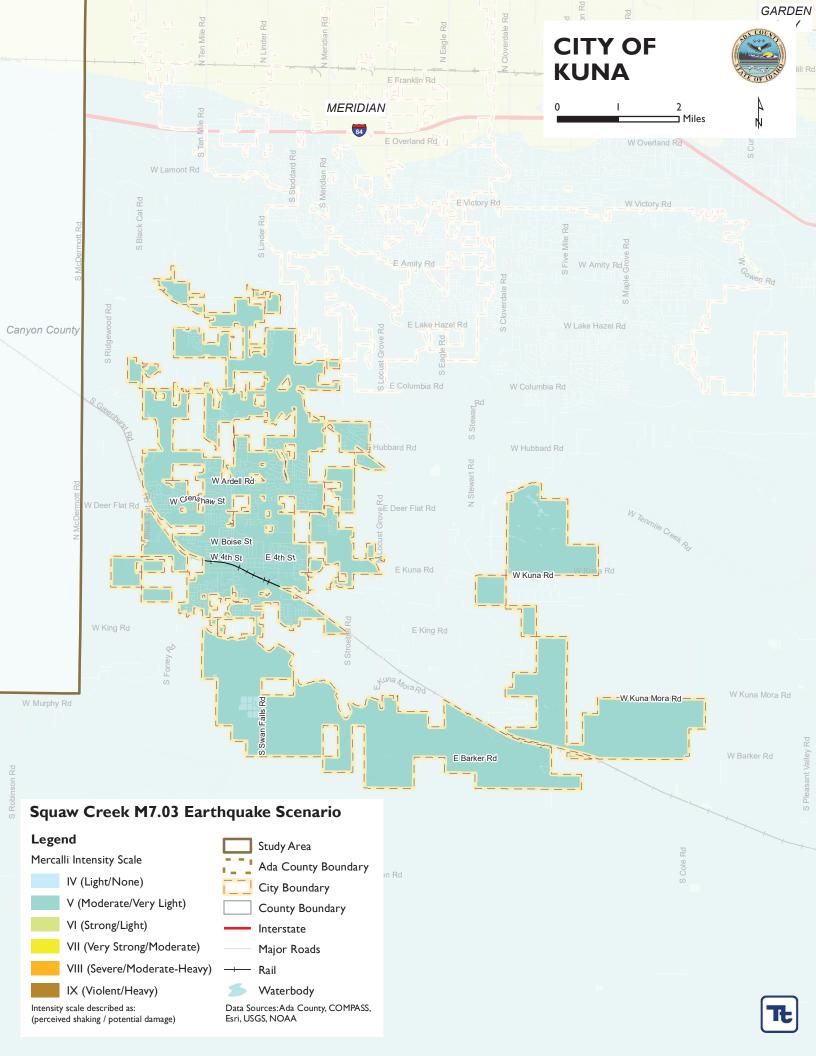


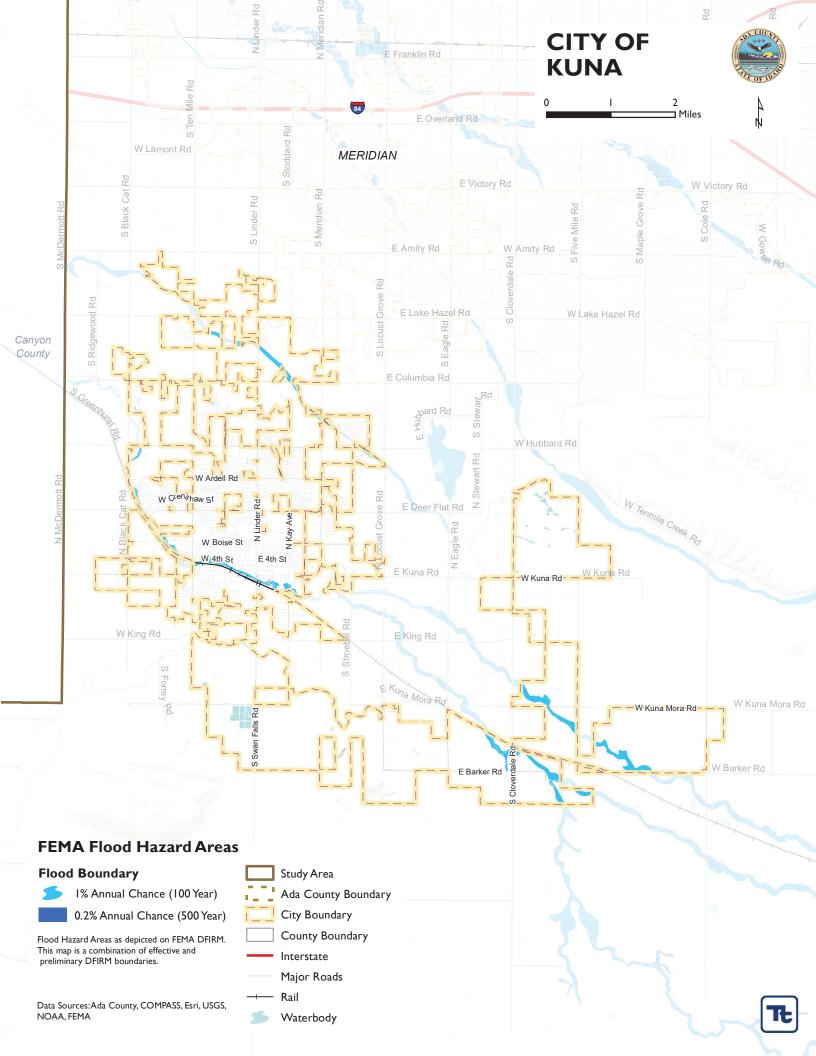


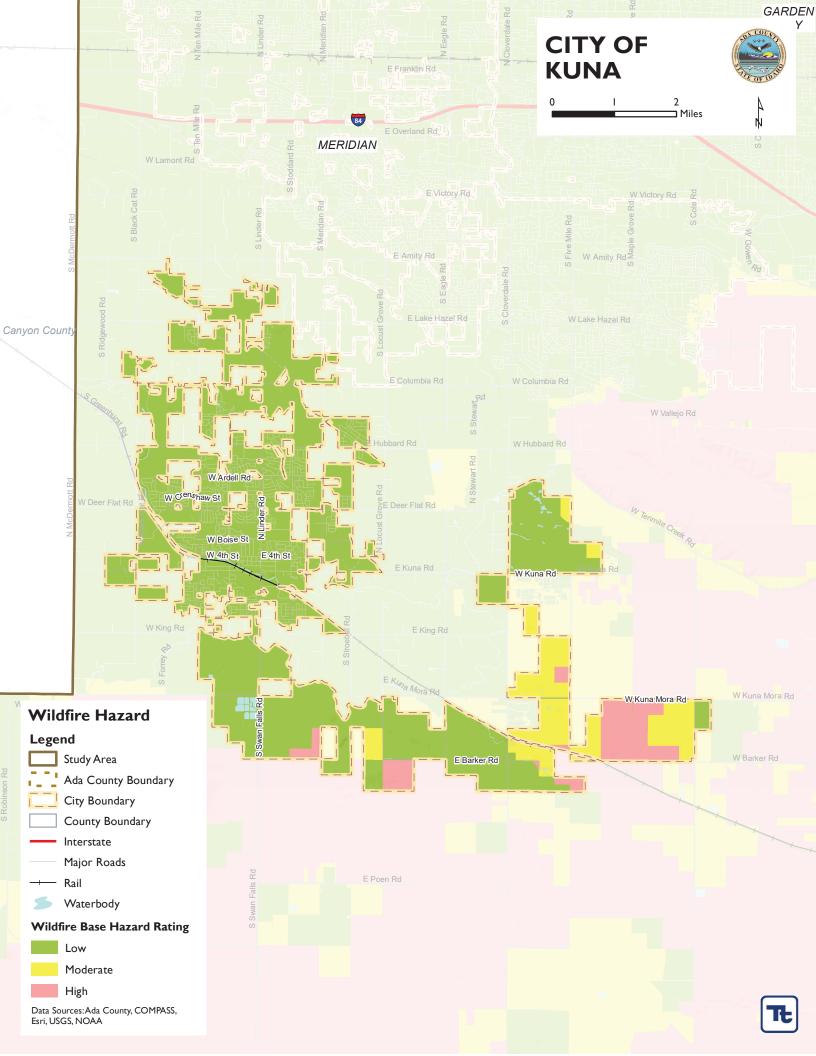












6. CITY OF MERIDIAN

6.1 LOCAL HAZARD MITIGATION PLANNING TEAM

Primary Point of Contact

Jason Korn, Environmental Programs Coordinator 33 E Broadway Ave Meridian, ID 83642 Telephone: 208-489-0364

e-mail Address: jkorn@meridiancity.org

Alternate Point of Contact

Joanna Hopson, Business Programs Manager 33 E Broadway Ave Meridian, ID 83702 Telephone: 208-898-5500

e-mail Address: jhopson@meridiancity.org

This annex was developed by the local hazard mitigation planning team, whose members are listed in Table 6-1.

| Table 6-1. Local Hazard Mitigation Planning Team Members | | | | | |
|--|------------------------------------|--|--|--|--|
| Name | Title | | | | |
| Caleb Hood | Planning Division Manager | | | | |
| Joe Bongiorno | Deputy Chief | | | | |
| Jason Korn | Environmental Programs Coordinator | | | | |
| Joanna Hopson | Business Programs Coordinator | | | | |

6.2 JURISDICTION PROFILE

6.2.1 Location and Features

Meridian is not only geographically located in the center of the Treasure Valley, but it also is the population center of the Treasure Valley; people are evenly distributed in all directions from Meridian. Downtown Meridian is approximately 10 miles from the heart of Boise.

Meridian is favored by a mild, arid climate. July is the hottest month, with the average high temperature of 90° F. January is the coldest month with an average low temperature of 22° F. The normal precipitation pattern in the Meridian area shows a winter high of 1.2 inches of precipitation per month and a very pronounced summer low of about 0.1 inches. Typically, there are 12 inches of annual precipitation.

6.2.2 History

The City of Meridian was incorporated in August 1903. Meridian has transformed from a sagebrush-filled mail drop located on the Oregon Trail in the 1880s, to a small fruit orchard center after the turn of the century through the 1930s, to a dairy-based farming community in the 1940s. Meridian is named for Idaho's principle meridian

used for the initial survey of the state which coincides with Meridian Road at the center of the City. Its character as a small farming community continued until approximately 1990, when its population was still about 10,000.

6.2.3 Governing Body Format

Meridian uses the Mayor-Council form of local government. In Meridian, the Council, which includes the Mayor, possesses both legislative and executive authority. Departments include: City Clerk, Community Development, Finance, Fire, Human Resources, Legal, Mayor's Office, Parks & Recreation, Police, and Public Works.

The City Council is responsible for the adoption of this plan, City Departments are responsible for its implementation.

6.3 CURRENT TRENDS

6.3.1 Population

According to COMPASS, the population of the City of Meridian as of April 2022 was 133,470. Since 2017, the population has grown at an average annual rate of 7.2 percent.

6.3.2 Development

As of November 2021, single family housing is the predominant development in Meridian, accounting for 82% of all dwelling units. Additionally, at the end of 2021, Meridian provided 21% of available jobs in Ada County, or 53,035. Meridian seeks to offer a diversity of housing products, create strong and sustainable jobs, improve infrastructure, and support diversified modes of transportation.

Identifying previous and future development trends is achieved through a comprehensive review of permitting since completion of the previous plan and in anticipation of future development. Tracking previous and future growth in potential hazard areas provides an overview of increased exposure to a hazard within a community. Table 6-2 summarizes development trends in the performance period since the preparation of the previous hazard mitigation plan, as well as expected future development trends.

| Table 6-2. Recent and | Expected Future Development Trends | | | | |
|---|---|---|--|--|--|
| Criterion | | Response | | | |
| Has your jurisdiction annexed any land since the preparation of the previous hazard mitigation plan? If yes, give the estimated area annexed and estimated number of parcels or structures. 1,876 acres; 10,500 parcels | | | | | |
| Is your jurisdiction expected to annex any areas during If yes, describe land areas and dominant uses. If yes, who currently has permitting authority over these areas? | the performance period of this plan? Agricultural Ada County | Yes | | | |
| Are any areas targeted for development or major redev If yes, briefly describe, including whether any of the areas are in known hazard risk areas | elopment in the next five years? West Meridian including the Fields Area west of McDermott (no south of Chinden. This area includes Tenmile and Fivemile Croudent East Meridian south of Amity and generally north of Columbetween Eagle and Meridian roads. No known hazard risk area Meridian, south of I-84 west of Tenmile Rd. No know hazard risk | eek SFHA. ´ umbia, as. South West | | | |

6-2 TETRA TECH

| Criterion | | | | | Res | ponse |
|---|--|--|--------------------------|-----------|----------|-------|
| How many permits for new construction were issued | | 2016 | 2017 | 2018 | 2019 | 2020 |
| in your jurisdiction since the preparation of the | Single Family | 1368 | 1428 | 1812 | 2109 | 1867 |
| previous hazard mitigation plan? | Multi-Family | 45 | 86 | 110 | 104 | 111 |
| | Other | 66 | 79 | 79 | 110 | 52 |
| | Total | 1569 | 1692 | 2171 | 2273 | 2076 |
| Provide the number of new-construction permits for each hazard area or provide a qualitative description of where development has occurred. | Special Flood Hazard Areas and 4 Commercial building Ninemile, Eightm Landslide: 0 High Liquefaction Areas: 0 Wildfire Risk Areas: 0 | gs all elev | ated abo | ve BFE. [| Developm | |
| Describe the level of buildout in the jurisdiction, based on your jurisdiction's buildable lands inventory. If no such inventory exists, provide a qualitative description. | Total area of Meridian area of a Land use breakdown of area cu annexed: Residential: 56% annexed / 44% Mixed Use: 17% annexed / 83% Employment: 71% annexed / 29 Civic: 84% annexed / 16 % not | rrently an 6 not ann 5 not anne 9% not an | nexed co exed exed | | | |

6.4 CAPABILITY ASSESSMENT

This section describes an assessment of existing capabilities for implementing hazard mitigation strategies. The introduction at the beginning of this volume of the hazard mitigation plan describes the components included in the capability assessment and their significance for hazard mitigation planning.

Findings of the capability assessment were reviewed to identify opportunities to expand, initiate or integrate capabilities to further hazard mitigation goals and objectives. Where such opportunities were identified and determined to be feasible, they are included in the action plan. The "Analysis of Mitigation Actions" table in this annex identifies these as community capacity building mitigation actions. The findings of the assessment are presented as follows:

- An assessment of planning and regulatory capabilities is presented in Table 6-3.
- Development and permitting capabilities are presented in Table 6-4.
- An assessment of fiscal capabilities is presented in Table 6-5.
- An assessment of administrative and technical capabilities is presented in Table 6-6.
- An assessment of education and outreach capabilities is presented in Table 6-7.
- Information on National Flood Insurance Program (NFIP) compliance is presented in Table 6-8.
- Classifications under various community mitigation programs are presented in Table 6-9.

| Table 6-3. Planning a | 1 | | | |
|--|--------------------|------------------------------|-------------------|--------------------------|
| | Local Authority | Other Jurisdiction Authority | State Mandated | Integration Opportunity? |
| Codes, Ordinances, & Requirements | | | | |
| Building Code | Yes | No | Yes | No |
| Comment: Comment: Meridian City Code Title 10, Chapter 1; A | Adopted 1/12 202 | 20; Ord. #20-1905 | | |
| Zoning Code | Yes | No | No | No |
| Comment: Comment: Meridian City Code Title 11, Chapter 2; A | dopted 7/8/2008, | ; Ord. #08-1372 | | |
| Subdivisions | Yes | No | No | No |
| Comment: Comment: Meridian City Code Title 11, Chapter 6; A | dopted 7/8/2008, | ; Ord. #08-1372 | | |
| Stormwater Management | No | Yes | No | No |
| Comment: ACHD owns and operates storm drain system of Grading and Drainage Standards. | stem on public ro | padways. City of Meridia | n Design Stan | dards Section 7, |
| Post-Disaster Recovery | No | No | No | No |
| Comment: | | | | |
| Real Estate Disclosure | No | No | No | No |
| Comment: | | | | |
| Growth Management | Yes | No | No | No |
| Comment: City of Meridian Comprehensive Plan; Ad | | 9; Resolution #19-2179 | | |
| Site Plan Review | Yes | No | No | No |
| Comment: Multiple City Ordinances and Department | | | | |
| Environmental Protection | Yes | No | No | No |
| Comment: Multiple City Ordinances and Department | | | | |
| Flood Damage Prevention | Yes | No | No | No |
| Comment: Comment: Meridian City Code Title 10, Chapter 6; A | dopted 5/12/202 | 0; Ord. #20-1879 | | |
| Emergency Management | Yes | Yes | No | Yes |
| Comment: Comment: Emergency Management for the City of M | | | EM. Meridian p | articipates |
| through the EMCR Board as well as representation of | | | NI- | NI- |
| Climate Change | No | No | No | No |
| Comment: | | | | |
| Planning Documents | Vaa | NI- | NI- | Vaa |
| General Plan | Yes | No | No | Yes |
| Is the plan equipped to provide linkage to this No | | | | |
| mitigation plan? Comments City of Maridian Comprehensive Plan: Adented 12/17 | 7/2010: Pasalutia | n #10 2170 | | |
| Comment: City of Meridian Comprehensive Plan; Adopted 12/17 | Yes | | No | No |
| Capital Improvement Plan How often is the plan updated? Every year, 10-year time fram | | No | INO | INO |
| Comment: Capital Improvement Plan has been integrated into C | | inancial Plan for FY23-F | -Y32 | |
| Disaster Debris Management Plan | No | Yes | No | Yes |
| Comment: Draft Debris Management Annex awaiting adoption in | | | | |
| Floodplain or Watershed Plan | Yes | No | No | Yes |
| Comment: The 2022 Ada County Multi-Hazard Mitigation Plan que completion and adoption | | | | |
| Stormwater Plan | No | Yes | No | No |
| Comment: ACHD owns and operates storm drain system on pub Property runoff managed by City of Meridian Design S | | | | |
| Urban Water Management Plan Comment: | No | No | No | No |
| Habitat Conservation Plan | No | No | No | No |
| Comment: | | | | |

6-4 TETRA TECH

| | Local Authority | Other Jurisdiction Authority | State Mandated | Integration Opportunity? |
|---|--------------------|---------------------------------|-------------------|--------------------------|
| Economic Development Plan | Yes | Yes | No | No |
| Comment: Meridian has economic development staff and an Urba development plans for various districts including those | | | ment Corp. (MD | OC). MDC has |
| Shoreline Management Plan | No | No | No | No |
| Comment: | | | | |
| Community Wildfire Protection Plan | No | No | No | No |
| Comment: | | | | |
| Forest Management Plan | No | No | No | No |
| Comment: | | | | |
| Climate Action Plan | Yes | No | No | No |
| Comment: | | | | |
| Comprehensive Emergency Management Plan | Yes | Yes | No | No |
| Comment: The City has adopted a Comprehensive Emergency C | perations Plan ι | ıtilizing Emergency Su | pport Functions | |
| Threat & Hazard Identification & Risk Assessment (THIRA) | No | Yes | No | No |
| Comment: Ada County THIRA – September 2018 | | | | |
| Post-Disaster Recovery Plan | No | No | No | No |
| Comment: | | | | |
| Continuity of Operations Plan | Yes | No | No | No |
| Comment: Individual Departments have updated COOP plans 20 | 21 | | | |
| Public Health Plan No Yes No N | | | | No |
| Comment: Central District Health Department Emergency Operate planning via the ACCESS EMS system. | ions Plan, 2020. | Fire Department does | have input on I | Public Health |

| Table 6-4. Development and Permitting Capability | | | | |
|---|----|--|--|--|
| Criterion Response | | | | |
| Does your jurisdiction issue development permits? | | | | |
| If no, who does? If yes, which department? Community Development, Building Services | | | | |
| Does your jurisdiction have the ability to track permits by hazard area? Yes | | | | |
| Does your jurisdiction have a buildable lands inventory? | No | | | |

| Table 6-5. Fiscal Capability | | | | |
|--|--------------------------------|--|--|--|
| Financial Resource | Accessible or Eligible to Use? | | | |
| Community Development Block Grants | Yes | | | |
| Capital Improvements Project Funding | Yes | | | |
| Authority to Levy Taxes for Specific Purposes | Yes | | | |
| User Fees for Water, Sewer, Gas or Electric Service | Yes | | | |
| If yes, specify: Water and sewer utilities | | | | |
| Incur Debt through General Obligation Bonds | No | | | |
| Incur Debt through Special Tax Bonds | No | | | |
| Incur Debt through Private Activity Bonds | No | | | |
| Withhold Public Expenditures in Hazard-Prone Areas | Yes | | | |
| State-Sponsored Grant Programs | Yes | | | |
| Development Impact Fees for Homebuyers or Developers | Yes | | | |

| Table 6-6. Administrative and Technical Capability | | | |
|--|--|------------|--|
| Staff/Personnel Resource | | Available? | |
| Planners or engineers with kn | owledge of land development and land management practices | Yes | |
| If Yes, Department /Position: | Community Development, Public Works; several positions | | |
| Engineers or professionals tra | ained in building or infrastructure construction practices | Yes | |
| If Yes, Department /Position: | Community Development, Public Works; several positions | | |
| Planners or engineers with an | understanding of natural hazards | Yes | |
| If Yes, Department /Position: | Community Development, Public Works; several positions | | |
| Staff with training in benefit/co | ost analysis | Yes | |
| If Yes, Department /Position: | Community Development, Public Works; several positions | | |
| Surveyors | | No | |
| Personnel skilled or trained in | GIS applications | Yes | |
| If Yes, Department /Position: | Information Technology, Community Development, Public Works, several positions | | |
| Scientist familiar with natural | hazards in local area | No | |
| If Yes, Department /Position: | Planning partners available through universities and Idaho Department of Homeland Secu | rity | |
| Emergency manager | | No | |
| If Yes, Department /Position: | No dedicated Emergency Manager for the City of Meridian. | | |
| Grant writers | | Yes | |
| If Yes, Department /Position: | Ability to contract for service | | |

| | TILLOT 51 10 1 10 1 17 | | | | | |
|--|---|--|--|--|--|--|
| | Table 6-7. Education and Outreach Capability | | | | | |
| Criterion | | Response | | | | |
| Do you have a public inf | formation officer or communications office? | Yes – Mayor's Office Communications Manager | | | | |
| Do you have personnel | skilled or trained in website development? | Yes – Information Technology | | | | |
| - | igation information available on your website? Links to Ada County Mitigation websites | Yes | | | | |
| <u> </u> | a for hazard mitigation education and outreach? Flood Safety Awareness Week posts | Yes | | | | |
| Do you have any citizen If yes, briefly describe: | boards or commissions that address issues related to hazard mitigation? | No | | | | |
| Do you have any other p information? | Do you have any other programs in place that could be used to communicate hazard-related Yes | | | | | |
| If yes, briefly describe: | Annual CRS mailings to property owners in floodplain, Social Media and in personal Public Works Week. | on outreach events such as | | | | |
| Do you have any establi | shed warning systems for hazard events? | Yes | | | | |
| If yes, briefly describe: Code Red – residents may sign up to receive emergency notifications and critical community alerts. Ada County EMCR developed a Joint Information System Plan that delineates the processes with developing a regional joint information system and center for coordinating public information messaging. | | | | | | |

6-6 TETRA TECH

| Table 6-8. National Flood Insurance Program Compliance | | | | |
|--|---|--|--|--|
| Criterion | Response | | | |
| What local department is responsible for floodplain management? | Community Development, Public Works | | | |
| Who is your floodplain administrator? (department/position) | Public Works; City Engineer or Appointee | | | |
| Are any certified floodplain managers on staff in your jurisdiction? | Yes | | | |
| What is the date that your flood damage prevention ordinance was last amended? | 5/12/2020 | | | |
| Does your floodplain management program meet or exceed minimum requirements? If exceeds, in what ways? Several (Low Floor 2' freeboard, Crawlspace 1' freeboard, added | Exceed d buffer of mapped boundaries, etc.) | | | |
| When was the most recent Community Assistance Visit or Community Assistance Contact? | 11/6/2017 | | | |
| Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? | No | | | |
| Are any RiskMAP projects currently underway in your jurisdiction? | No | | | |
| Do your flood hazard maps adequately address the flood risk within your jurisdiction? Many Zone A hazard areas remain on Tenmile Creek and Fivemile Creek that require additional analysis. Many areas are mis-aligned and far from the actual waterway channel. | No | | | |
| Does your floodplain management staff need any assistance or training to support its floodplain management program? Need ongoing training for CFM certification and cross training backup floodplain management staff | Yes | | | |
| Does your jurisdiction participate in the Community Rating System (CRS)? If yes, is your jurisdiction interested in improving its CRS Classification? No | Yes | | | |
| How many flood insurance policies are in force in your jurisdiction? ^a What is the insurance in force? \$32,569,900 What is the premium in force? \$87,637 | 120 | | | |
| How many total loss claims have been filed in your jurisdiction? ^a What were the total payments for losses? \$- | 1 | | | |

| Table 6-9. Community Classifications | | | |
|--------------------------------------|----------------|----------------|--|
| | Participating? | Classification | |

| | Participating? | Classification | Date Classified |
|--|----------------|----------------|-----------------|
| FIPS Code | Yes | 1600152120 | N/A |
| DUNS# | Yes | 028451367 | N/A |
| Community Rating System | Yes | 8 | 7/25/2016 |
| Building Code Effectiveness Grading Schedule | Yes | 5 | 10/19/2020 |
| Public Protection | Yes | ISO Class 3 | 2020 |
| Storm Ready | Yes | Blue | N/A |
| Firewise | No | N/A | N/A |

6.5 INTEGRATION REVIEW

According to FEMA statistics as of March 31, 2022

For hazard mitigation planning, "integration" means that hazard mitigation information is used in other relevant planning mechanisms, such as general planning and capital facilities planning, and that relevant information from those sources is used in hazard mitigation. This section identifies where such integration is already in place, and where there are opportunities for further integration in the future. Resources listed at the end of this annex were used to provide information on integration. The progress reporting process described in Volume 1 of the hazard

mitigation plan will document the progress of hazard mitigation actions related to integration and identify new opportunities for integration.

6.5.1 Existing Integration

Some level of integration has already been established between local hazard mitigation planning and the following other local plans and programs:

- City of Meridian Comprehensive Plan—The Comprehensive Plan for Meridian currently includes mitigation related policies as they related to the protection of human life and property from flood events. Additionally, the Comprehensive plan addresses the need for natural resource protection and the identification of known hazards within the County.
- **Meridian Flood Damage Prevention Ordinance**—Ordinance integrates with Ada County Multi-Hazard Mitigation Plan goals and objectives.
- COOP The COOP plan for the City of Meridian was completed in 2012 and adopted by City Council.

6.5.2 Opportunities for Future Integration

The capability assessment presented in this annex indicates opportunities to integrate this mitigation plan with other jurisdictional planning/regulatory capabilities. Capabilities were identified as integration opportunities if they can support or enhance the actions identified in this plan or be supported or enhanced by components of this plan. The capability assessment identified the following plans and programs that do not currently integrate hazard mitigation information but provide opportunities to do so in the future:

- Comprehensive Plan Existing Conditions Report (ECR)—Integrate mitigation plan risk assessment into hazardous areas section and reference mitigation actions in specific hazard sections.
- Comprehensive Financial Plan (CFP)—Mitigation may be funded, in part, through the City CFP plan and if grant funds are awarded for mitigation they need to be programmed into the CFP.

Taking action to integrate each of these programs with the hazard mitigation plan was considered as a mitigation action to include in the action plan in this annex.

6.6 RISK ASSESSMENT

6.6.1 Jurisdiction-Specific Natural Hazard Event History

Table 6-10 lists past occurrences of natural hazards for which specific damage was recorded in this jurisdiction Other hazard events that broadly affected the entire planning area, including this jurisdiction, are listed in the risk assessments in Volume 1 of this hazard mitigation plan.

6.6.2 Hazard Risk Ranking

Table 6-11 presents a local ranking of all hazards of concern for which this hazard mitigation plan provides complete risk assessments. As described in detail in Volume 1, the ranking process involves an assessment of the likelihood of occurrence for each hazard, along with its potential impacts on people, property and the economy. Mitigation actions target hazards with high and medium rankings.

6-8 TETRA TECH

| Table 6-10. Past Natural Hazard Events | | | | | | |
|--|-----------------|-----------|---|--|--|--|
| Type of Event | FEMA Disaster # | Date | Damage Assessment | | | |
| Thunderstorm/Microburst | N/A | 6/22/2021 | Tree broken in half due to thunderstorm outflow winds. Estimated 60MPH wind gusts | | | |
| Cloudburst Rain Event | N/A | Sept 2013 | Unknown | | | |
| Cloudburst Rain Events | N/A | Aug 2010 | Unknown | | | |
| Wildfires | N/A | Sept 2000 | Unknown | | | |
| Rain & Flooding | N/A | Dec 1964 | Unknown | | | |

| | Table 6-11. Hazard Risk Ranking | | | | | |
|------|---------------------------------|--------------------|---------------|--|--|--|
| Rank | Hazard | Risk Ranking Score | Risk Category | | | |
| 1 | Extreme Weather | 33 | High | | | |
| 2 | Flood | 18 | Medium | | | |
| 3 | Earthquake | 16 | Medium | | | |
| 4 | Drought | 9 | Low | | | |
| 5 | Dam/Canal Failure | 6 | Low | | | |
| 6 | Landslide | 6 | Low | | | |
| 7 | Volcano | 6 | Low | | | |
| 8 | Wildfire | 0 | Low | | | |

6.6.3 Jurisdiction-Specific Vulnerabilities

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. This section provides information on a few key vulnerabilities for this jurisdiction. Available jurisdiction-specific risk maps of the hazards are provided at the end of this annex.

Repetitive Loss Properties

Repetitive loss records are as follows:

- Number of FEMA-identified Repetitive-Loss Properties: 0
- Number of FEMA-identified Severe-Repetitive-Loss Properties: 0
- Number of Repetitive-Loss Properties or Severe-Repetitive-Loss Properties that have been mitigated: N/A

Other Noted Vulnerabilities

The following jurisdiction-specific issues have been identified based on a review of the results of the risk assessment, public involvement strategy, and other available resources:

• Canal failure is a potential vulnerability. Refer to local irrigation districts for vulnerability assessments.

Mitigation actions addressing these issues were prioritized for consideration in the action plan in this annex.

6.7 STATUS OF PREVIOUS PLAN ACTIONS

Table 6-12 summarizes the actions that were recommended in the previous version of the hazard mitigation plan and their implementation status at the time this update was prepared.

| | | | Removed; | Carried Over to Plan Update | |
|---|--|-------------------|-----------------------|--------------------------------|-----------------------|
| Action Iten | from Previous Plan | Completed | No Longer Feasible | Check if Yes | Action # in Update |
| power gene Supervisory severe wea | —Conduct a survey of water, sewer, fire, and police infrastructure including ration equipment, wastewater treatment plant facilities, communications, and Control and Data Acquisition (SCADA) equipment to analyze vulnerability to her and earthquake, then design and execute improvements to mitigate. Wastewater treatment plant installed new switch for backup generator and here. | ✓ as moved abo | ve ground po | ower lines | |
| | underground in 2021. Added new item to address backup power availability a | at other critica | l facilities. | | |
| | —Become a "Firewise Community" | | | √ | M-8 |
| Comment: | Becoming a Firewise community is still a goal of the Meridian Fire Department areas. | nt as the City | expands into | more wil | dfire prone |
| implementir programs ir ordinance, _l | —Maintain good standing under the National Flood Insurance Program by g programs that meet or exceed the minimum NFIP requirements. Such clude but are not limited to: enforcing an adopted flood damage prevention participating in floodplain mapping updates, and providing public assistance tion on floodplain requirements and impacts. | | | ✓ | M-4 |
| Comment: | City of Meridian maintains good standing under the NFIP and continues to enthrough floodplain administration program. | nforce flood da | amage preve | ntion ordi | inance |
| | —Maintain, and improve where beneficial, participation rating in the Rating System (CRS) | | | ✓ | M-15 |
| Comment: | City of Meridian currently maintains a CRS Rating of 8 and underwent Cycle | Verification in | 2020. | | |
| restoration, | Evaluate surface water protection program, including surface water stormwater management, capital improvement program integration, and julatory and fee impacts. | | ✓ | | |
| | The Ada County Highway District operates the storm drain system and mains of Meridian. Potential stream restoration and flood mitigation projects are list | | • | | an in the City |
| | —Partner with ACHD to implement a culvert replacement program for sly 15 crossings of Fivemile, Ninemile, and Tenmile Creeks including design | | Ū | ✓ | M-14 |
| Comment: | Culverts that have yet to be replaced are carried over to new plan. | | | | |
| construct cu Interchange | —Partner with Idaho Transportation Department (ITD) to design and Ivert improvements on Fivemile Creek at Eagle Rd and the I-84 / Eagle Road according to recommendations of "Fivemile Creek at Interstate 84—Eagle Ils Street" Hydraulic Report, November 2008. | √ | | | |
| Comment: | ITD completed culvert improvements , LOMR effective November 2, 2018 | | | | |
| | —Assist local irrigation districts with vulnerability assessments on the and New York Canal systems in the Meridian Area of Impact. | | ✓ | | |
| Comment: | Project is considered no longer feasible, remove from plan. | | | | |
| from founda | —Perform an assessment to determine housing areas that would benefit tion elevation projects; and where appropriate, support and assist in grant ortunities for retrofitting, purchase or relocation projects. | | ✓ | | |
| | This action has been re-worded to include all high or medium risk hazard are | as. | | | |

6-10 TETRA TECH

| | | | Removed; | Carried Over to Plan Update | |
|----------------------|---|-----------------|----------------------------|--------------------------------|-----------------------|
| Action Item | from Previous Plan | Completed | | Check if Yes | Action # in Update |
| Action M-1 Comprehen | D—Integrate Multi-Hazard Mitigation Plan into the City of Meridian's sive Plan. | ✓ | | | |
| Comment: | The Meridian City Council adopted a new Comprehensive Plan by resolution Hazard Mitigation Plan is integrated and referenced in the new comp plan. S and coordination. | | | | |
| | I—Consider appropriate higher regulatory standards that prevent or reduce uilt environment from the known hazards of concern. | ✓ | | | |
| Comment: | To date, flood standards are consistent with community needs. Standards highlood damage prevention ordinance effective 6/19/20. Other standards will be | | | | n in the new |
| Action M-1 | 2—Support County-wide initiatives identified in Volume 1. | | | ✓ | M-19 |
| Comment: | The city continues to support County-wide initiatives | | | | |
| | B—Continue to support the implementation, monitoring, maintenance, and this Plan, as defined in Volume 1. | | | ✓ | M-3 |
| Comment: | Meridian continues to support the Ada County Multi-Jurisdictional Hazard Mil reporting using BATool. | tigation Plan p | lanning proce | ess. Anno | ual progress |
| | 4—Provide fire safety, fire prevention and Firewise education to ods, schools and community via the internet, social media and direct public | | | ✓ | M-7 |
| Comment: | Fire safety and prevention education and outreach program is an ongoing eff | fort of the Mer | idian Fire De _l | partment | • |
| environmen | 5—Whenever possible, coordinate with local experts and employ natural tal processes in mitigation activities that increase ecosystem resilience and empacts of flooding on the built environment. | | | ✓ | M-18 |
| Comment: | Continue to evaluate projects as opportunity arises. | | | | |

6.8 HAZARD MITIGATION ACTION PLAN

Table 6-13 lists the identified actions, which make up the hazard mitigation action plan for this jurisdiction. Table 6-14 identifies the priority for each action. Table 6-15 summarizes the mitigation actions by hazard of concern and mitigation type.

| Table 613. Hazard Mitigation Action Plan Matrix | | | | | | | | |
|---|---|---------------------|---------------------|-------------------|---------------------------|-----------------------|--|--|
| Benefits New or Existing Assets | Objectives Met | Lead Agency | Support Agency | Estimated Cost | Sources of Funding | Timeline ^a | | |
| | Action M-1 —Where appropriate, support retrofitting, purchase or relocation of structures located in hazard areas, prioritizing those that have experienced repetitive losses and/or are located in high- or medium-risk hazard areas. | | | | | | | |
| Hazards Mitigated: | Wildfire, Extreme We | ather, Flood, Earth | quake, Dam/Canal Fa | ailure, Landslide | P | | | |
| Existing | 3, 8, 9 | City of Meridian | N/A | High | HMGP, BRIC, FMA | Short-term | | |
| Action M-2— Integrate the hazard mitigation plan into other plans, ordinances and programs that dictate land use decisions in the community, including Flood Damage Prevention Ordinance, Community Risk Assessment and Comprehensive Plan. | | | | | | | | |
| | Hazards Mitigated: Wildfire, Extreme Weather, Flood, Earthquake, Dam/Canal Failure, Landslide, Drought | | | | | | | |
| New & Existing | 2, 5, 6 | City of Meridian | Ada County | Low | Staff Time, General Funds | Ongoing | | |

| Benefits New or | Objection | | | Estimated | Course of E | T:!! | | |
|--|--|---|--|--|--|--|--|--|
| Existing Assets | Objectives Met | Lead Agency | Support Agency | Cost | Sources of Funding | Timelinea | | |
| Action M-3—Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan. Hazards Mitigated: Wildfire, Extreme Weather, Flood, Earthquake, Dam/Canal Failure, Landslide, Drought, Volcano | | | | | | | | |
| | All | I ' | i . | | 1' | Short-term | | |
| New & Existing | | City of Meridian | Ada County | Low | Staff Time, General Funds | | | |
| programs that, at a Enforce the floorParticipate in floProvide public a | n minimum, meet the NF d damage prevention o podplain identification ar assistance/information o | FIP requirements: ordinance. ord mapping updates | S. | through implem | nentation of floodplain man | agement | | |
| Hazards Mitigated: New & Existing | Flood 2, 3, 4, 6, 8, 9 | City of Meridian | N/A | Low | Staff Time, General | Ongoing | | |
| Nation M.E. Coo | rdinata with community | stakahaldara in hat | h the public and prive | ata agotora ta id | Funds, Enterprise Funds entify and pursue adaptive | oonooit. | | |
| | ld improve community r | esilience in relation | to future climate con- | | entiny and pursue adaptive | Сараспу | | |
| New & Existing | New & Existing | City of Meridian | N/A | Low | Staff Time, General Funds | Short-term | | |
| | | | | | | | | |
| Hazards Mitigated: Existing | Flood, Extreme Wear 1, 3, 10 | ther, Earthquake City of Meridian | N/A | Medium | General Funds, Enterprise Funds, BRIC, | Long-term | | |
| · | 1, 3, 10 | City of Meridian | | | | _ | | |
| Existing Action M-7— Prove media and direct pure | 1, 3, 10 ride fire safety, fire prevublic outreach. | City of Meridian | | | Enterprise Funds, BRIC, HMGP | Long-term | | |
| Existing Action M-7— Provemedia and direct put | 1, 3, 10 ride fire safety, fire prevublic outreach. | City of Meridian | | | Enterprise Funds, BRIC, HMGP | _ | | |
| Existing Action M-7— Prove media and direct publicated: New & Existing Action M-8— Becombers | 1, 3, 10 ride fire safety, fire prevublic outreach. Wildfire 4, 5, 7, 8, 9 ome a "Firewise Common" | City of Meridian vention and Firewise City of Meridian | education to neighbo | orhoods, schoo | Enterprise Funds, BRIC, HMGP Is and community via the in | nternet, socia | | |
| Existing Action M-7— Prov media and direct pu Hazards Mitigated: New & Existing | 1, 3, 10 ride fire safety, fire prevublic outreach. Wildfire 4, 5, 7, 8, 9 ome a "Firewise Common" | City of Meridian vention and Firewise City of Meridian | education to neighbo | orhoods, schoo | Enterprise Funds, BRIC, HMGP Is and community via the in | nternet, social | | |
| Existing Action M-7— Provemedia and direct publicated: New & Existing Action M-8— Becong Mitigated: New & Existing Action M-9— Update Precent, highest resoluted to a satisfactor consisting of (1) a reconsisting of (1) | 1, 3, 10 ride fire safety, fire prevublic outreach. Wildfire 4, 5, 7, 8, 9 ome a "Firewise Commit Wildfire 4, 5, 7, 8, 9 ate the Black's Creek Rolution GIS data availability recognize and addressity recognize and addressity reflood failure (aka "senon-flood failure (aka "sen | City of Meridian City of Meridian City of Meridian unity" City of Meridian Reservoir breach anable. The model suggest the hydrologic ir each analysis will meanny day"), and (2) | N/A N/A N/A alysis and the resultingested for use should the reservoir at a codel the reservoir at a code code code code code code code code | Low Low g downstream be HEC-RAS oftural and constread full pool condi | Enterprise Funds, BRIC, HMGP Is and community via the in Staff Time | Ongoing Long-term the most sional model that are scenarios | | |
| Existing Action M-7— Provemedia and direct publicated: New & Existing Action M-8— Becondards Mitigated: New & Existing Action M-9— Update action M-9— Update and satisfactoricated downstrear consisting of (1) a recent. | 1, 3, 10 ride fire safety, fire prevublic outreach. Wildfire 4, 5, 7, 8, 9 ome a "Firewise Commit Wildfire 4, 5, 7, 8, 9 ate the Black's Creek Rolution GIS data availability recognize and addressity recognize and addressity reflood failure (aka "senon-flood failure (aka "sen | City of Meridian City of Meridian City of Meridian unity" City of Meridian Reservoir breach anable. The model suggest the hydrologic ir each analysis will meanny day"), and (2) | N/A N/A N/A alysis and the resultingested for use should the reservoir at a codel the reservoir at a code code code code code code code code | Low Low g downstream be HEC-RAS oftural and constread full pool condi | Enterprise Funds, BRIC, HMGP Is and community via the in Staff Time Staff Time flood inundation map using or an equivalent two-dimen ructed geographic features tion and will include two (2) | Ongoing Long-term g the most sional mode that are) scenarios O-year flood) | | |
| Existing Action M-7— Provemedia and direct publicated: New & Existing Action M-8— Becondards Mitigated: New & Existing Action M-9— Updated: Action M-9— Updated: Action Modern Section ocated downstrear consisting of (1) a representation of the existing New & Existing Action M-10— Ensemble Section ocated downstrear consisting of the existing Action M-10— Ensemble Section ocated downstrear consisting of the existing | 1, 3, 10 ride fire safety, fire prevublic outreach. Wildfire 4, 5, 7, 8, 9 ome a "Firewise Commo Wildfire 4, 5, 7, 8, 9 ate the Black's Creek Rolution GIS data availabily recognize and addrem of the facility. The brenon-flood failure (aka "second food failure (aka "second food failure (aka "second food failure (aka "second food food food food food food food f | City of Meridian rention and Firewise City of Meridian unity" City of Meridian Reservoir breach anable. The model suggest the hydrologic ir each analysis will meanny day"), and (2) ailure City of Meridian upply in drought con | N/A N/A N/A alysis and the resultingested for use should the reservoir at a a flood event failure N/A | Low Low g downstream be HEC-RAS of tural and constreation full pool condituduring the 1% i | Enterprise Funds, BRIC, HMGP Is and community via the in Staff Time Staff Time flood inundation map using or an equivalent two-dimentucted geographic features tion and will include two (2 inflow design flood (aka 10 include two (2 inflow design flood). | Ongoing Long-term g the most sional mode that are scenarios D-year flood) Short-term | | |
| Existing Action M-7— Provemedia and direct publicated: New & Existing Action M-8— Becong Maction M-8— Becong Maction M-9— Update arecent, highest resoluted downstrear consisting of (1) a real macards Mitigated: New & Existing New & Existing | 1, 3, 10 ride fire safety, fire prevublic outreach. Wildfire 4, 5, 7, 8, 9 ome a "Firewise Commo Wildfire 4, 5, 7, 8, 9 ate the Black's Creek Rolution GIS data availabily recognize and addrem of the facility. The brenon-flood failure (aka "second food failure (aka "second food failure (aka "second food failure (aka "second food food food food food food food f | City of Meridian rention and Firewise City of Meridian unity" City of Meridian Reservoir breach anable. The model suggest the hydrologic ir each analysis will meanny day"), and (2) ailure City of Meridian upply in drought con | N/A N/A N/A alysis and the resultingested for use should the reservoir at a a flood event failure N/A | Low Low g downstream be HEC-RAS of tural and constreation full pool condituduring the 1% i | Enterprise Funds, BRIC, HMGP Is and community via the in Staff Time Staff Time Staff Time flood inundation map using or an equivalent two-dimentucted geographic features tion and will include two (2 Inflow design flood (aka 10 Inflow design flood) BRIC, FMA, HMGP | Ongoing Long-term g the most sional model that are) scenarios O-year flood) Short-term | | |
| Existing Action M-7— Provemedia and direct publicated: New & Existing Action M-8— Becondards Mitigated: New & Existing Action M-9— Updated: Action M-9— Updated: Action M-9— Updated: Action M-10— Ensemble Action M-10— | 1, 3, 10 ride fire safety, fire prevublic outreach. Wildfire 4, 5, 7, 8, 9 ome a "Firewise Common Wildfire 4, 5, 7, 8, 9 ate the Black's Creek Rolution GIS data availabily recognize and addressing recognize and addressing file of the facility. The bression-flood failure (aka "second Dam/Canal Face 2, 6, 7, 8, 9 sure adequate water sure Drought, Dam/Canal 1, 9, 10 | City of Meridian Ceservoir breach anable. The model suggests the hydrologic ir each analysis will meanny day"), and (2) ailure City of Meridian City of Meridian City of Meridian City of Meridian | N/A N/A N/A alysis and the resultingested for use should the reservoir at a a flood event failure N/A IDWR | Low Low g downstream be HEC-RAS of tural and constreation full pool condiduring the 1% i Medium asing space in High | Enterprise Funds, BRIC, HMGP Is and community via the in Staff Time Staff Time Staff Time flood inundation map using or an equivalent two-dimentucted geographic features tion and will include two (2 nflow design flood (aka 10 BRIC, FMA, HMGP) BRIC, FMA, HMGP new surface water storage Enterprise Funds, Federal Grants | Ongoing Long-term g the most sional mode that are) scenarios O-year flood) Short-term projects. | | |

6-12 TETRA TECH

| Existing Assets | Objectives Met | Lead Agency | Support Agency | Estimated Cost | Sources of Funding | Timeline |
|---|--|--|---|--|---|--|
| <u> </u> | | | | | rading/drainage policies th | |
| | ns in steep topography | | • | | 5 5 1 | · |
| lazards Mitigated | Landslide, Flood | | | | | |
| New | 2, 4, 5 | City of Meridian | N/A | Low | Staff Time | Long-tern |
| felines. The propo | osed improvements incl | ude constructing sto | orm drain infrastructu | re and pipeline | risk to people, property and from Story Park to the outl Meridian Development Co | et into the |
| lazards Mitigated | : Flood | | | | | |
| Existing | 1, 3, 9, 10 | City of Meridian | MDC | \$4.5 Million | HMGP, BRIC, MDC, FMA | Short-terr |
| ivemile, Ninemile | rtner with ACHD to faci , Eightmile and Tenmile : Flood, Extreme Wea | e Creeks. (Coordina | | | sign and construction of cro t Action ACHD-5) | ossings on |
| Existing | 1, 3, 9, 10 | ACHD | City of Meridian | High | ACHD, General Funds, BRIC, FMA, HMGP | Long -terr |
| Action M-15— Co | ntinue to maintain/enha | ance the City's class | ification under the Co | mmunity Ratin | * | |
| Hazards Mitigated | : Flood | | | | | |
| iazaius iviiliyaleu. | | | | | | |
| New & Existing | 3, 4, 5, 6, 8 | City of Meridian | N/A | Low | Staff Time, General Funds, Enterprise Funds | |
| New & Existing Action M-16— Co Fenmile Creeks to | 3, 4, 5, 6, 8 rrect alignment issues of more accurately reflect | on the National Floo | | | | |
| New & Existing Action M-16— Co Fenmile Creeks to | 3, 4, 5, 6, 8 rrect alignment issues of more accurately reflect | on the National Floo | | | Funds, Enterprise Funds | nile and |
| New & Existing Action M-16— Co Fenmile Creeks to Hazards Mitigated New & Existing Action M-17—Cor maps through LOM | 3, 4, 5, 6, 8 rrect alignment issues of more accurately reflect Endough Endou | on the National Floot flood risk. City of Meridian analysis on remain | d Hazard Layer to co | rrectly align wit | Funds, Enterprise Funds h creek channels on Fiven General Funds, Enterprise Funds, | Long-Terr |
| New & Existing Action M-16— Co Tenmile Creeks to Hazards Mitigated New & Existing Action M-17—Cor | 3, 4, 5, 6, 8 rrect alignment issues of more accurately reflect Endough Endou | on the National Floot flood risk. City of Meridian analysis on remain | d Hazard Layer to co | rrectly align wit | Funds, Enterprise Funds h creek channels on Fiven General Funds, Enterprise Funds, Federal Grants | nile and Long-Terr |
| New & Existing Action M-16— Co Tenmile Creeks to Hazards Mitigated New & Existing Action M-17—Cor naps through LON Hazards Mitigated New & Existing Action M-18— Whencrease ecosystem | 3, 4, 5, 6, 8 rrect alignment issues of more accurately reflect 2, 9 Induct detailed hydraulic AIR to accurately reflect 5. Flood 2, 9 Induct detailed hydraulic 2, 9 | on the National Floot flood risk. City of Meridian analysis on remain flood risk. City of Meridian | FEMA FEMA FEMA FEMA FEMA | Low A areas on Fi Low ral environment | Funds, Enterprise Funds th creek channels on Fiven General Funds, Enterprise Funds, Federal Grants vemile and Tenmile Creek General Funds, Enterprise Funds, | Long-Tens. Update |
| New & Existing Action M-16— Colemnile Creeks to Mazards Mitigated New & Existing Action M-17—Contages through LONder Mitigated New & Existing Action M-18— What crease ecosystem Mazards Mitigated Mazards Mitigated Mazards Mitigated Marchael Mitigated Marchael Mitigated Marchael Mitigated Marchael Mitigated Marchael Mitigated | 3, 4, 5, 6, 8 rrect alignment issues of more accurately reflect 2, 9 Induct detailed hydraulic AIR to accurately reflect 5. Flood 2, 9 Induct detailed hydraulic 2, 9 | on the National Floot flood risk. City of Meridian analysis on remain flood risk. City of Meridian | FEMA FEMA FEMA FEMA FEMA | Low A areas on Fi Low ral environment | Funds, Enterprise Funds th creek channels on Fiven General Funds, Enterprise Funds, Federal Grants vemile and Tenmile Creek General Funds, Enterprise Funds, Federal Grants | Long-Ten Long-Ten Long-Ten activities tha |
| New & Existing Action M-16— Corenmile Creeks to Hazards Mitigated New & Existing Action M-17—Corenaps through LON Hazards Mitigated New & Existing Action M-18— Who crease ecosystem Hazards Mitigated New & Existing New & Existing | 3, 4, 5, 6, 8 rrect alignment issues of more accurately reflect 2, 9 induct detailed hydraulic I/IR to accurately reflect 2, 9 nenever possible, coord 2, 9 nenever possible, coord 2, 5, 9 inpport County-wide in | on the National Floor the National Floor the National Floor the Indian City of Meridian City of Meridian City of Meridian City of Meridian City of Meridian | FEMA ing FEMA Flood Zone FEMA erts and employ nature ding on the built environment. | Low A areas on Fi Low ral environment | Funds, Enterprise Funds th creek channels on Fiven General Funds, Enterprise Funds, Federal Grants vemile and Tenmile Creek General Funds, Enterprise Funds, Federal Grants tal processes in mitigation General Funds, BRIC, | Long-Tens. Update |

| Table 6-14. Mitigation Action Priority | | | | | | | | |
|--|---------------------------|----------|--------|---|-----------------------------------|---|---|---|
| Action # | # of Objectives Met | Benefits | Costs | Do Benefits Equal or Exceed Cost? | Is Project Grant- Eligible? | Can Project Be Funded Under Existing Programs/ Budgets? | Implementation Priority ^a | Grant Pursuit Priority ^a |
| 1 | 3 | High | High | Yes | Yes | No | Medium | High |
| 2 | 7 | Medium | Low | Yes | No | Yes | High | Low |
| 3 | 3 | Low | Low | Yes | No | Yes | High | Low |
| 4 | 6 | Medium | Low | Yes | No | Yes | High | Low |
| 5 | 7 | Medium | Low | Yes | No | Yes | High | Medium |
| 6 | 3 | High | Medium | Yes | Yes | No | Medium | High |
| 7 | 5 | Low | Low | Yes | No | Yes | Medium | Low |
| 8 | 5 | Low | Low | Yes | No | Yes | Medium | Low |
| 9 | 5 | Medium | Medium | Yes | Yes | No | Medium | High |
| 10 | 3 | High | High | Yes | Yes | No | Medium | Medium |
| 11 | 5 | Medium | Low | Yes | Yes | Yes | Medium | Low |
| 12 | 3 | Medium | Low | Yes | No | Yes | Medium | Low |
| 13 | 4 | High | High | Yes | Yes | No | High | High |
| 14 | 4 | High | High | Yes | Yes | No | Medium | Medium |
| 15 | 5 | Medium | Low | Yes | No | Yes | High | Low |
| 16 | 2 | Medium | Low | Yes | Yes | No | Medium | Medium |
| 17 | 2 | High | Medium | Yes | Yes | No | Medium | Medium |
| 18 | 3 | High | Medium | Yes | Yes | No | Medium | Medium |
| 19 | 10 | Low | Low | Yes | No | Yes | High | Low |

a. See the introduction to this volume for explanation of priorities.

| Table 6-15. Analysis of Mitigation Actions | | | | | | | | |
|--|---|------------------------|------------------------------------|-----------------------------------|-----------------------|------------------------|-----------------------|--|
| | Action Addressing Hazard, by Mitigation Type ^a | | | | | | | |
| Hazard Type | Prevention | Property Protection | Public Education & Awareness | Natural Resource Protection | Emergency Services | Structural Projects | Climate Resilience | Community Capacity Building ^b |
| High-Risk Hazards | | | | | | | | |
| Extreme Weather | M-2 | M-1 | M-5 | | M-6 | M-14 | M-5 | M-3, 5, 19 |
| Medium-Risk Haza | rds | | | | | | | |
| Flood | M-2, 4, 12, 15, 16, 17 | M-1 | M-4, 5, 9 | M-18 | M-6 | M-13, 14 | M-5, 18 | M-3, 4, 5, 9, 12, 15, 16, 17, 18, 19 |
| Earthquake | M-2 | M-1 | | | M-6 | | | M-3, 19 |
| Low-Risk Hazards | | | | | | | | |
| Drought | M-2, 11 | | M-5 | M-10 | | M-10 | M-5 | M-3, 5, 10, 11, 19 |
| Dam/Canal Failure | M-2 | M-1 | M-9 | M-10 | | M-10 | | M-3, 9, 10, 19 |
| Landslide | M-2, 12 | M-1 | | | | | | M-3, 12, 19 |
| Volcano | | | | | | | | M-3, 19 |
| Wildfire | M-2 | M-1 | M-5, 7, 8 | | | | M-5 | M-3, 5, 8, 19 |

a. See the introduction to this volume for explanation of mitigation types.

6-14 TETRA TECH

b. In addition to the community capacity building actions listed in this table, this jurisdiction is expanding its financial capabilities through its participation in and adoption of this hazard mitigation plan, which establishes grant-funding eligibility.

6.9 PUBLIC OUTREACH

Table 6-16 lists public outreach activities for this jurisdiction.

| Table 6-16. Local Public Outreach | | | | | | |
|---|-----------|---------|--|--|--|--|
| Number of People Local Outreach Activity Date Involved | | | | | | |
| Social Media share of Ada County survey posts | 12/8/2021 | unknown | | | | |
| Meridian Public Works Week – Floodplain Booth HMP information | 6/8/2022 | unknown | | | | |

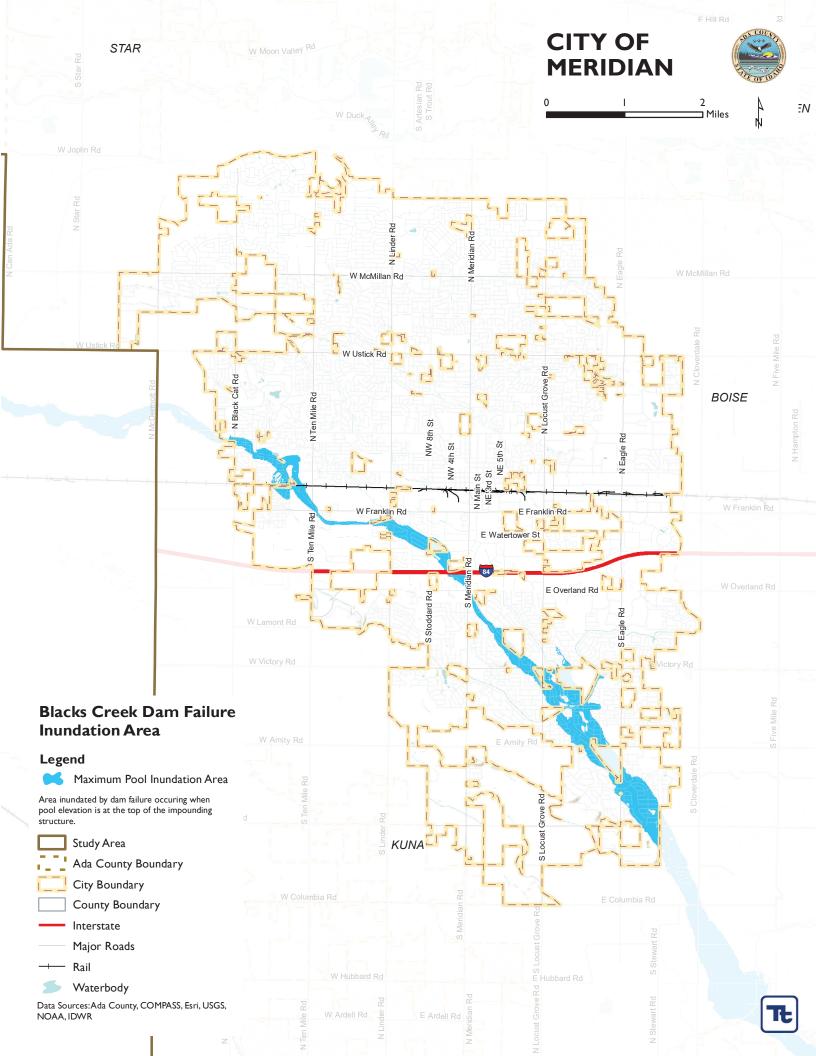
6.10 INFORMATION SOURCES USED FOR THIS ANNEX

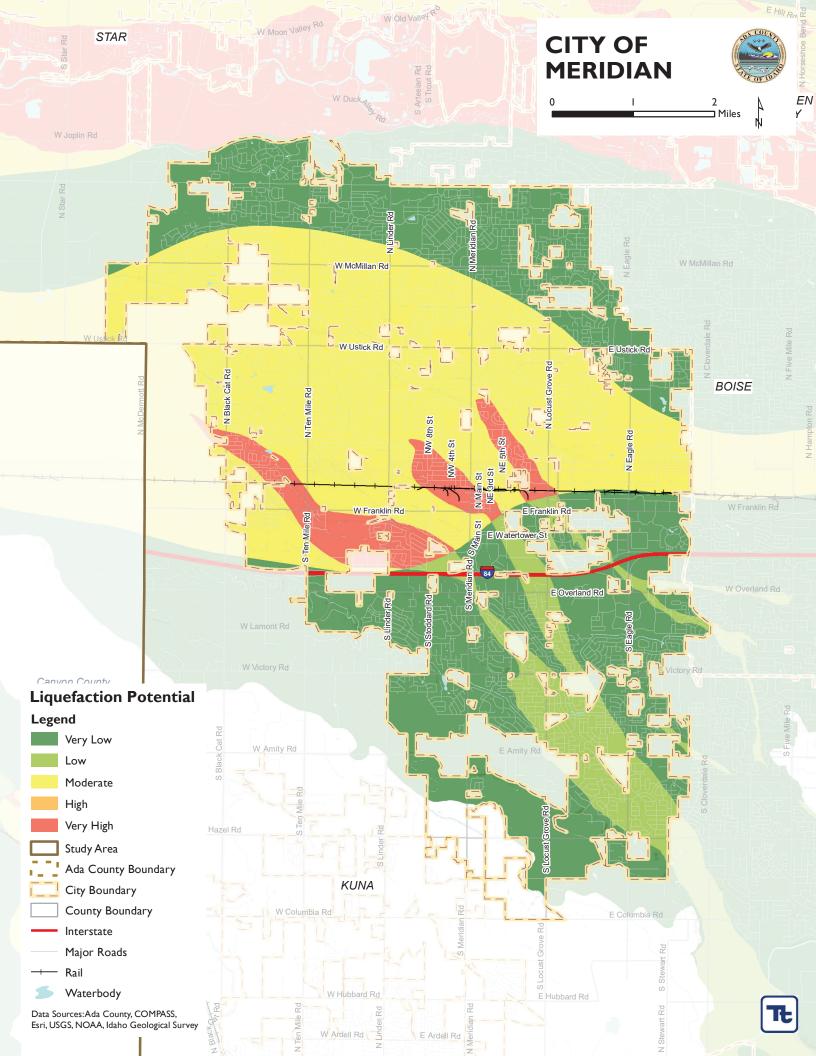
The following technical reports, plans, and regulatory mechanisms were reviewed to provide information for this annex.

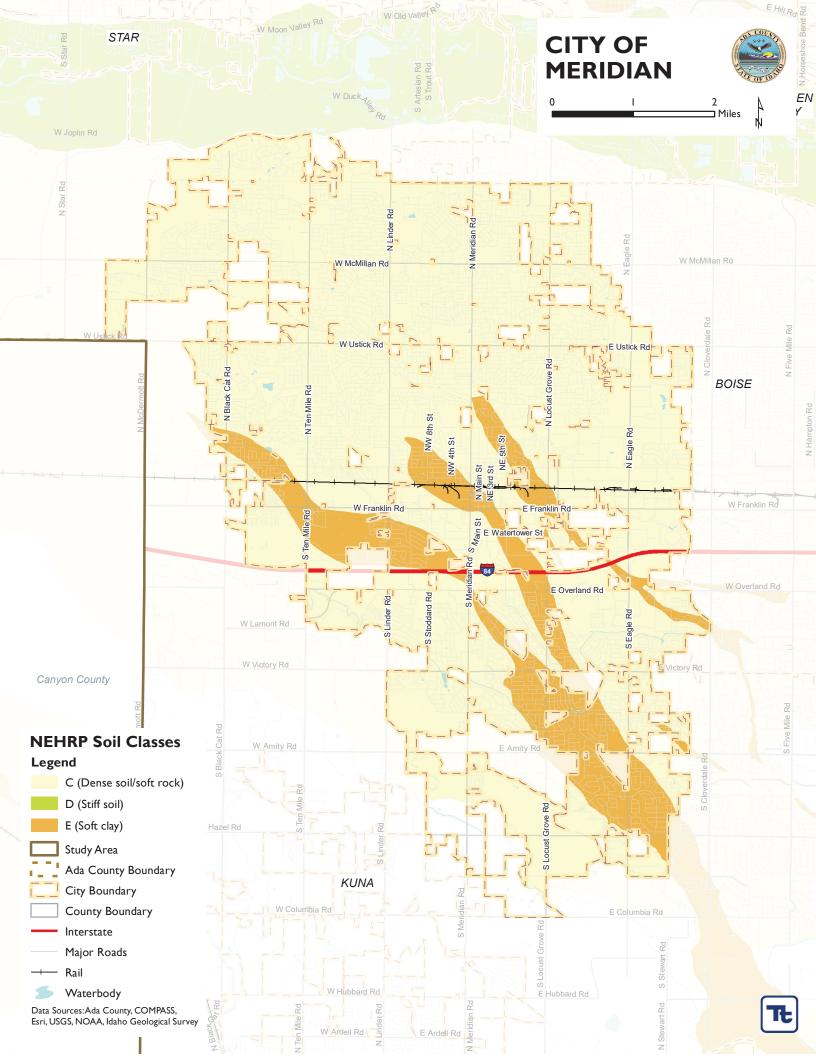
- **2017 Ada County Multi-Hazard Mitigation Plan** The previous HMP was reviewed to update this annex.
- **City of Meridian Municipal Code**—The municipal code was reviewed for the full capability assessment and for identifying opportunities for action plan integration.
- City of Meridian Flood Damage Prevention Ordinance—The flood damage prevention ordinance was reviewed for compliance with the National Flood Insurance Program.

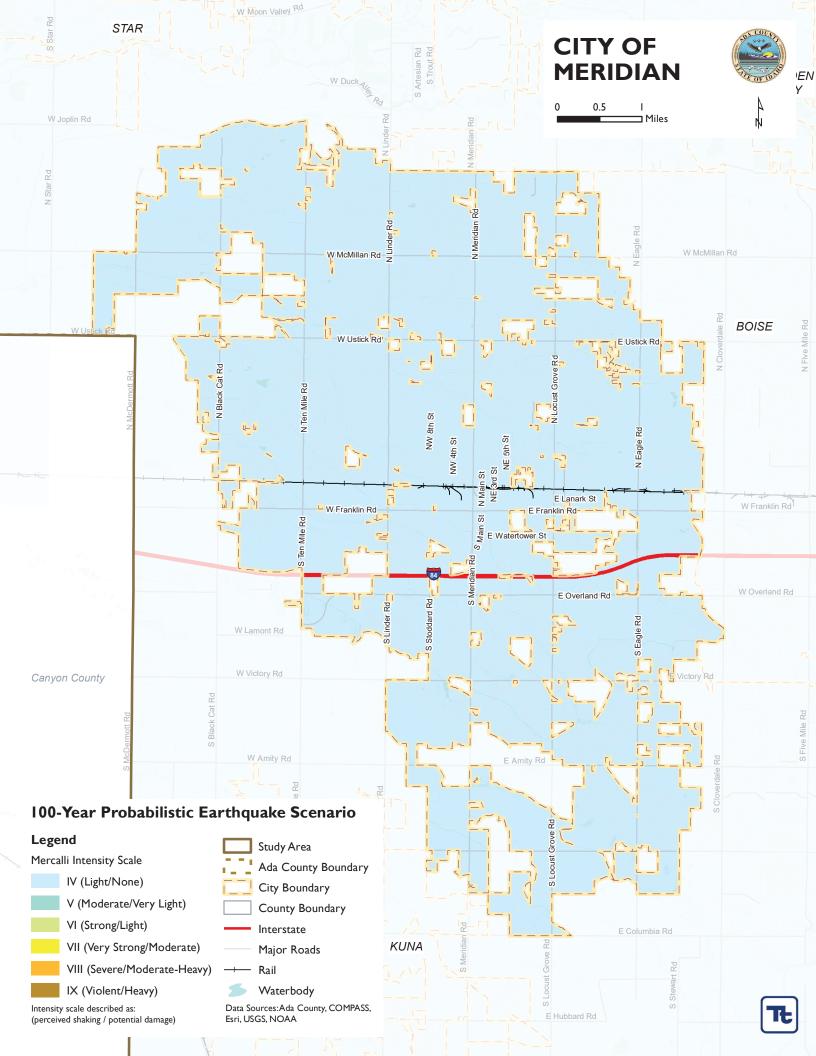
The following outside resources and references were reviewed:

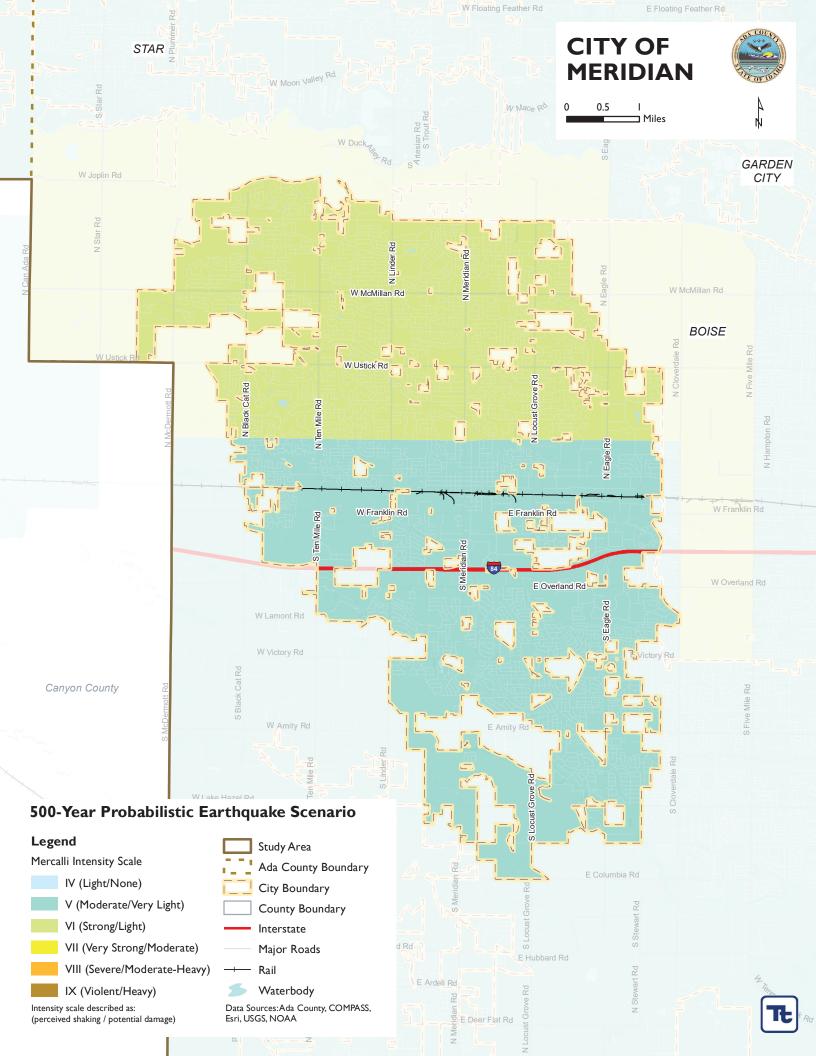
• Hazard Mitigation Plan Annex Development Toolkit—The toolkit was used to support the identification of past hazard events and noted vulnerabilities, the risk ranking, and the development of the mitigation action plan.

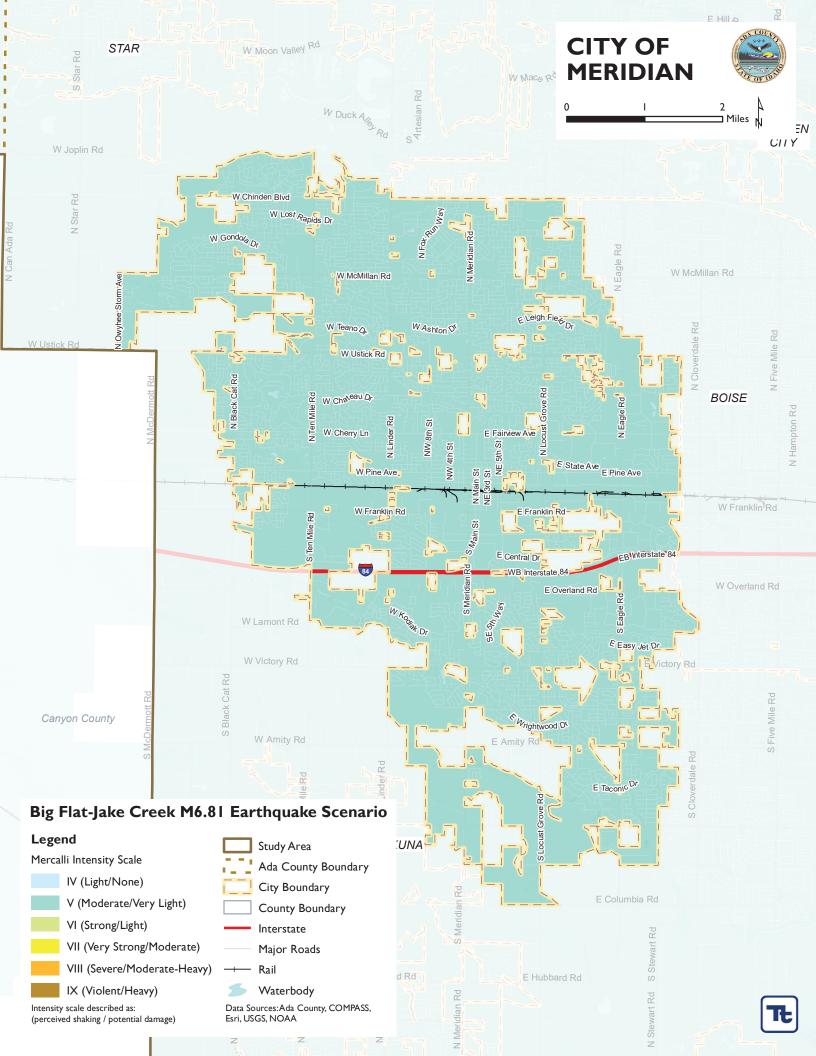


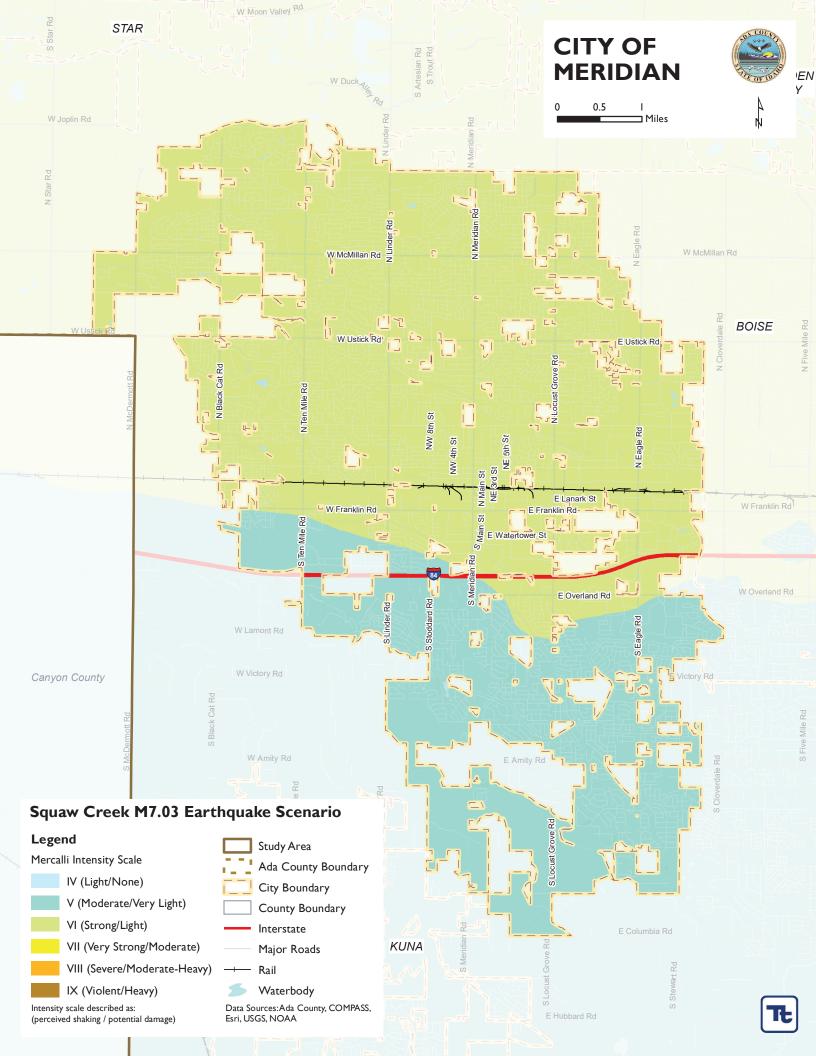


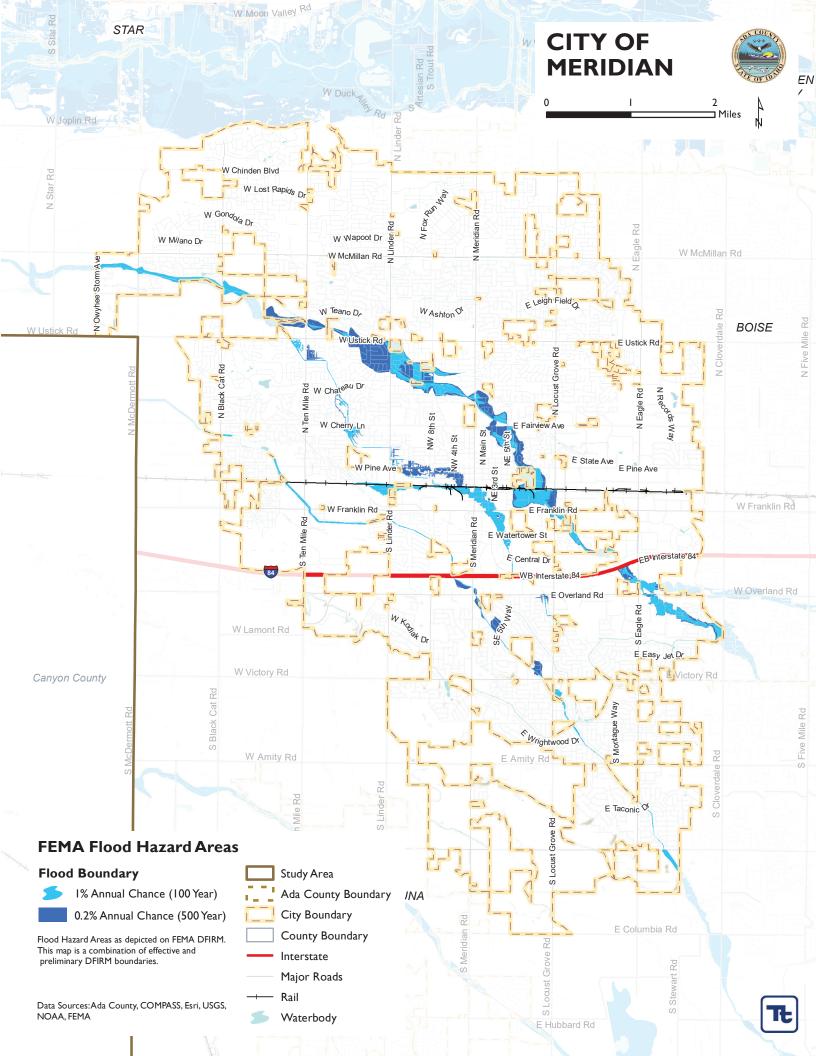


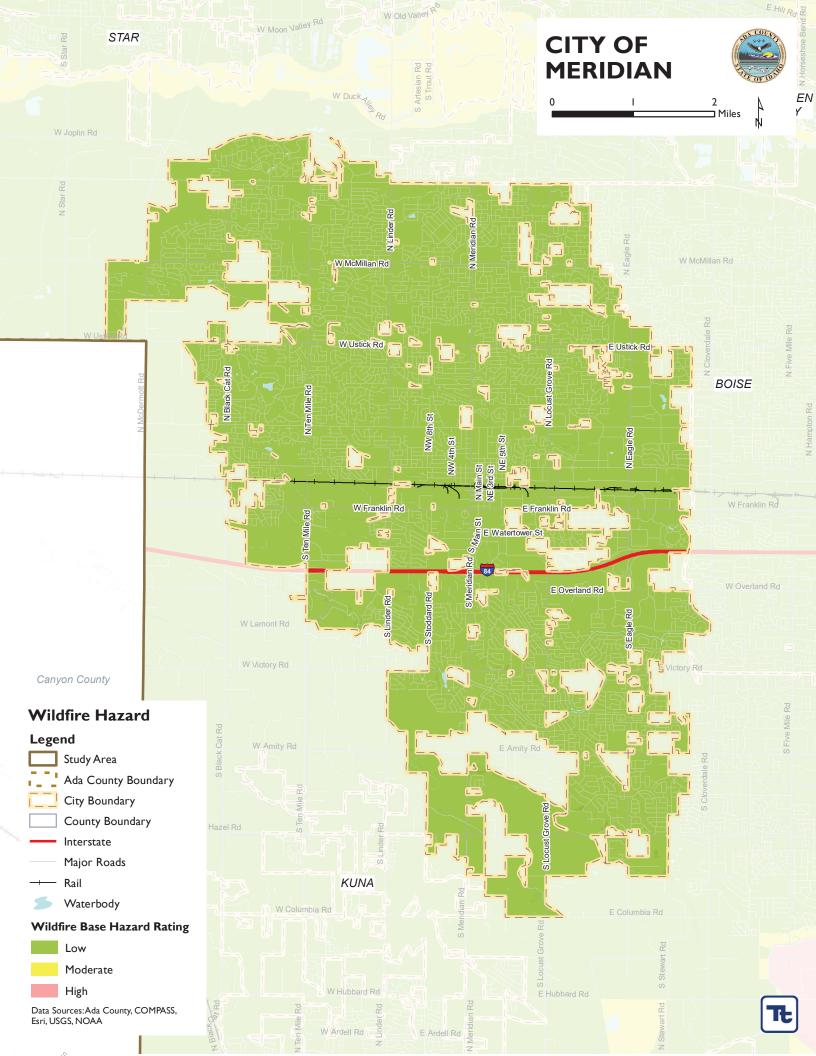












7. CITY OF STAR

7.1 LOCAL HAZARD MITIGATION PLANNING TEAM

Primary Point of Contact

Jacob Qualls, City Clerk / Treasurer 10769 West State Street PO Box 130 Star, ID 83669

Telephone: 208-908-5452

e-mail Address: jqualls@staridaho.org

Alternate Point of Contact

Trevor A. Chadwick, Mayor 10769 West State Street PO Box 130

Star, ID 83669

Telephone: 208-286-7247

e-mail Address: tchadwick@staridaho.org

This annex was developed by the local hazard mitigation planning team, whose members are listed in Table 7-1.

| Table 7-1. Local Hazard Mitig | ation Planning Team Members |
|-------------------------------|--|
| Name | Title |
| Jacob Qualls | City Clerk / Treasurer |
| Trevor Chadwick | Mayor |
| Shawn Nickel | City Planner |
| Ryan Field | Assistant City Planner |
| Bob Little | Buildings & Grounds Maintenance Supervisor |
| Ryan Morgan | Floodplain Administrator |
| Dana Partridge | Public Information Officer |
| Eddie Gomez | Building Permit Technician Lead |

7.2 JURISDICTION PROFILE

7.2.1 Location and Features

The City of Star is located on the Boise River 10 miles west of Boise.

The current boundaries generally extend from Highway 20/26 (Chinden), Highway 16, Floating Feather Road, CanAda Road and into Kinsgbury within Canyon County, encompassing an area of about 25 square miles.

The City of Star is located approximately 2,467-feet above sea-level and enjoys a mild climate. Star has an annual average precipitation of 11.76-inches. Most of the precipitation occurs between the months of November to May. The average annual snowfall is 9.7-inches, with killing frosts as early as December and as late as February. There

are approximately 212-frost free days in Star from December to March. This allows for a relatively long growing season. Winters in Star, though cold, are generally not severe. Summer days are hot, while nights are relatively cool. The average maximum temperature is 62.9-degrees Fahrenheit and the average minimum temperature is 39.5-degrees Fahrenheit. Northwesterly winds prevail with intermittent southeasterly winds in winter and spring. The climate is favorable for many agricultural pursuits in the area. The current crops in the area vary widely from wheat, oats, corn, beans, mint, hay, pasture, alfalfa and clover seed, to sugar beets, potatoes, and many specialty seed crops.

7.2.2 History

The City of Star was incorporated on December 22, 1905 and dis-incorporated around the 1929 and then reincorporated on December 10, 1997. The first location of the village of Star is approximately one mile to the east of the present City of Star; approximately halfway between the present town of Star and Star Emmett junction. The first schoolhouse was built there in the 1870s on land donated by B.F. Swalley. When the settlers finished building the schoolhouse, they could not decide on a name for the building. One of the men carved out a star and nailed it to the front door; pounding nails all around the edge of the star. This became an important landmark for miles around and was a guide for travelers and miners. When the visitors came to the schoolhouse with the star on the door, they could travel west one mile and find board and lodging for the night. So in time, the town became known as Star. In 1905, Star incorporated and established City limits reaching four miles in all directions. During the early part of the 20th century the town flourished with places growing rapidly and merchants doing good business. The town had a mayor, marshal, constable, and justice of the peace. The jail was a frame building located just east of the Odd fellows Lodge Hall. By the time the new interurban arrived, at least 20 new buildings had been erected.

Rapid growth came with the of the Boise Interurban Railway. Growth continued in 1909 with at least 30 new buildings erected. In the early 1900s, Main Street periodically served as a race track. Horse races were a big event with most everyone and often followed by a baseball game. Impromptu races down Main Street were not limited to specific holidays but could arise from on-the-spot challenges. Other activities included a weekly debating society where issues of the day such as railroads, Sunday laws, and women's rights were discussed. Also, there was a literary society, Star School sporting events, and skating rink. An evening outing for a party of young people included chartering a trolley excursion to Boise and back. Star Trading Days were stock sales held every third Saturday of each month.

7.2.3 Governing Body Format

Star has a strong-mayor form of Municipal Government with four council members. The Council assumes responsibility for the adoption of this plan, and is responsible for its implementation.

7.3 CURRENT TRENDS

7.3.1 Population

According to COMPASS, the population of the City of Star as of April 2022 was 15,230. Since 2017, the population has grown at an average annual rate of 12.8 percent.

7-2 TETRA TECH

7.3.2 Development

- Presidential Land Uses—Rural-Urban Interface Issues—Citizens of the Treasure Valley and beyond have been moving to the City of Star and surrounding area. Land, which was part of the Area of City Impact of Star, has been purchased and entitlements have been received for residential development. There are concerns of the farming and the former farming community that they are losing the quaint small rural City. It is recognized that the City of Star is going through a transition, where the rural community is interfacing the urban community.
- Existing Residential Development—Residential land use patterns in the City limits include existing parcels of 1 to 5- acres, single family subdivisions, Planned Unit Development and Master Planned Communities. Housing types include, attached and detached single family dwelling units, patio homes and multi-family dwelling units.
- Civic Land Uses—The Star City hall houses all City offices. The Star Library, which is managed by the Ada County Library District, the Star Water and Sewer District and the Star Fire District Station are located in the Central Business District on Highway 44. The Star Senior Center is located at 102 Main Street.
- Open Spaces—The most important amenity is the Boise River which is located one mile south of Highway 44. It is available for fishing, hiking and viewing of wildlife. Currently, a greenbelt does not exist, but the City has approximately 60-acres along the river for recreation development. Blake Haven Park is located on Star Road across from Star Elementary School. Hunter's Creek and Pavilion Park are the newest additions to the city's park system. Pavilion Park has an additional dog park within it called Waggin Tails Dog Park. Some of the new subdivisions have developed open space for their residents, but not all are public facilities. The city is also requiring many of the new developments which abut canals to provide a pathway along these canals and waterways and tie into the city's pathway system.
- Commercial—Commercial land uses are generally located along Highway 44 and Star Road. A range of
 professional offices, retail, restaurant and other services are located along these corridors. There are a
 number of home occupations in Star, but the actual numbers have not been identified.
- Industrial and High Technical Land Uses—Industrial manufacturing or high-tech land uses are currently LIMITED in Star, with the exception of a new development at Highway 44 and Highway 16 in the northwest corner.

Identifying previous and future development trends is achieved through a comprehensive review of permitting since completion of the previous plan and in anticipation of future development. Tracking previous and future growth in potential hazard areas provides an overview of increased exposure to a hazard within a community. Table 7-2 summarizes development trends in the performance period since the preparation of the previous hazard mitigation plan, as well as expected future development trends.

| Table 7-2. Recent and | Expected Future Development Trends | |
|---|---|----------|
| Criterion | | Response |
| Has your jurisdiction annexed any land since the preparation of the previous hazard mitigation plan? If yes, give the estimated area annexed and estimated number of parcels or structures. 2,039.38 acres 896 homes 196 apartments 4,075 open lots | | Yes |
| Is your jurisdiction expected to annex any areas during If yes, describe land areas and dominant uses. If yes, who currently has permitting authority over these areas? | the performance period of this plan? Residential Planning and Building Department | Yes |

| Criterion | | | | Res | ponse | |
|--|--|------|------|---------|-------|------|
| Are any areas targeted for development or major redevelopment in the next five years? If yes, briefly describe, including whether any of the areas are in known hazard risk areas Development in the next five years? Development is planned for 4,500 buildable mixed-use lots end 1,500 acres (approximately 95% residential, 5% commercial, a in the WUI on the northern boundary of the city. | | | | encompa | - | |
| How many permits for new construction were issued | | 2016 | 2017 | 2018 | 2019 | 2020 |
| in your jurisdiction since the preparation of the | Single Family | 206 | 334 | 269 | 326 | 592 |
| previous hazard mitigation plan? | Multi-Family | 7 | 0 | 0 | 0 | 0 |
| | Other | 63 | 73 | 139 | 173 | 109 |
| | Total | 276 | 407 | 408 | 499 | 701 |
| Provide the number of new-construction permits for each hazard area or provide a qualitative description of where development has occurred. | The state of the s | | | | | |
| Describe the level of buildout in the jurisdiction, based on your jurisdiction's buildable lands inventory. If no such inventory exists, provide a qualitative description. | | | | | | |

7.4 CAPABILITY ASSESSMENT

This section describes an assessment of existing capabilities for implementing hazard mitigation strategies. The introduction at the beginning of this volume of the hazard mitigation plan describes the components included in the capability assessment and their significance for hazard mitigation planning.

Findings of the capability assessment were reviewed to identify opportunities to expand, initiate or integrate capabilities to further hazard mitigation goals and objectives. Where such opportunities were identified and determined to be feasible, they are included in the action plan. The "Analysis of Mitigation Actions" table in this annex identifies these as community capacity building mitigation actions. The findings of the assessment are presented as follows:

- An assessment of planning and regulatory capabilities is presented in Table 7-3.
- Development and permitting capabilities are presented in Table 7-4.
- An assessment of fiscal capabilities is presented in Table 7-5.
- An assessment of administrative and technical capabilities is presented in Table 7-6.
- An assessment of education and outreach capabilities is presented in Table 7-7.
- Information on National Flood Insurance Program (NFIP) compliance is presented in Table 7-8.
- Classifications under various community mitigation programs are presented in Table 7-9.

7-4 TETRA TECH

| Codes, Ordinances, & Requirements Yes No Yes No No Comment: Title 7.1, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Yes No No No No No No No N | | | | Local Authority | Other Jurisdiction Authority | State Mandated | Integration Opportunity? |
|---|--------------|---|---|--|--|----------------------------------|---------------------------------|
| Comment: Title 7.1, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Yes No No No Yes Comment: Title 8.6, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Subdivisions Yes No No No No No Comment: Title 8.6, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Stormwater Management Yes No Yes Yes Comment: Title 8.6, Star City Code: Local Land Use Planning Act, Idaho Code 67-6508 Post-Disaster Recovery No | Codes, Ord | inances, & Requirement | S | | | | |
| Zoning Code Comment: Title 8, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Subdivisions Comment: Title 8.6, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Stormwater Management Title 8.4, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Post-Disaster Recovery No N | Building Co | ode | | Yes | No | Yes | No |
| Comment: Title 8, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Subdivisions Yes No No No No Comment: Title 8.6, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Stormwater Management Yes No Yes Yes Comment: Title 8.4, Star City Code: Local Land Use Planning Act, Idaho Code 67-6508 Post-Disaster Recovery No No No No No No No Comment: Real Estate Disclosure No No No No No No No No No Comment: Growth Management No Yes No | Comment: | Title 7.1, Star City Code; | Local Land Use Planning A | ct, Idaho Code 67 | 7-6508 | | |
| Subdivisions Comment: Title 8.6, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Stormwater Management Comment: Title 8.4, Star City Code: Local Land Use Planning Act, Idaho Code 67-6508 Post-Disaster Recovery No N | Zoning Cod | le | | Yes | No | No | Yes |
| Comment: Title 8.6, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Yes No Yes Yes | Comment: | Title 8, Star City Code; L | ocal Land Use Planning Act | Idaho Code 67-0 | 6508 | | |
| Stormwater Management Comment: Title 8.4, Star City Code: Local Land Use Planning Act, Idaho Code 67-6508 Post-Disaster Recovery Comment: Real Estate Disclosure No No No No No No No No Comment: Growth Management Comment: Rowth Management No Yes No | Subdivisio | ns | | Yes | No | No | No |
| Comment: Title 8.4, Star City Code: Local Land Use Planning Act, Idaho Code 67-6508 Post-Disaster Recovery No No No No No No Comment: Real Estate Disclosure Comment: Growth Management No Yes No No No Comment: Growth Management No Yes No No No No Comment: Title 8.4 County Comprehensive Plan, adopted 11/26/2007; Ada Co. Zoning ordinance-Title 8, ACC, adopted 12/8/2010 Site Plan Review Yes No No No No Comment: Title 8, Chapter 4-ACC adopted: 12/8/2010 Environmental Protection Yes No No Yes No No Yes Comment: Titles 3, 5, 7, 8, 10, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Flood Damage Prevention Yes No No Yes No Yes Comment: Title 10, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Emergency Management No Yes No Yes No Yes Comment: Ada County Emergency Management Plan Climate Change No No No No No No No No No Comment: Planning Documents General Plan Yes No No Yes Mo Yes Mo Yes Indigatory Plan Start Plan Yes No No Yes Mo Yes Moligation Plan once again in 2022. Additionally, there is a South of the River Sub-Area Plan whice was adopted in 2021/2022 as a supplement to the Star Comprehensive Plan - Shining Bright Into the Future – 2040 and Beyond' and 2021 and the Plan is being updated as of the creation of this All-Hazard Mitigation Plan once again in 2022. Additionally, there is a South of the River Sub-Area Plan whice was adopted in 2021/2022 as a supplement to the Star Comprehensive Plan. Capital Improvement Plan As required by law for Impact Fee Implementation and as CIP Projects are completed. Comment: The city has many capital improvement Plans; which include the city's own Parks. Other plans the City utilizes are the Canyon Highway District 4 Capital Improvement Plans, Ada County Highway District Capital Improvement Plans, Star Water & Sever District Capital Improvement Plans and; Ada County Sheriff's Office Capital Improvements Plans which are being developed, | Comment: | Title 8.6, Star City Code; | Local Land Use Planning A | ct, Idaho Code 6 | 7-6508 | | |
| Post-Disaster Recovery Comment: Real Estate Disclosure Comment: Real Estate Disclosure No No No No No No No No Comment: Growth Management No Yes No No No Comment: Growth Management No Yes No No No No Comment: Title 8, Chapter 4-ACC adopted: 12/8/2010 Site Plan Review Yes No No No No No Comment: Title 8, Chapter 4-ACC adopted: 12/8/2010 Environmental Protection Yes No No No Yes Comment: Title 8, 7, 8, 10, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Flood Damage Prevention Yes No No Yes Comment: Title 10, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Flood Damage Prevention No Yes No No Yes Comment: Title 10, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Flood Damage Prevention No Yes No No Yes Comment: Ada County Emergency Management Plan Climate Change No N | Stormwate | · Management | | Yes | No | Yes | Yes |
| Real Estate Disclosure No No No No No No No Comment: Growth Management No Yes No No No Comment: Growth Management No Yes No | Comment: | Title 8.4, Star City Code: | Local Land Use Planning A | ct, Idaho Code 6 | 7-6508 | | |
| Real Estate Disclosure Comment: Growth Management No Yes No No No Comment: Growth Management No Yes No | Post-Disast | ter Recovery | | No | No | No | No |
| Comment: Growth Management Ada County Comprehensive Plan, adopted 11/26/2007; Ada Co. Zoning ordinance-Title 8, ACC, adopted 12/8/2010 Site Plan Review Yes No No No No Comment: Title 8, Chapter 4-ACC adopted: 12/8/2010 Environmental Protection Yes No No No Yes Comment: Title 3, 5, 7, 8, 10, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Flood Damage Prevention Yes No No Yes Comment: Title 10, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Emergency Management No Yes No Yes Comment: Ada County Emergency Management Plan Comment: Ada County Emergency Management Plan Comment: Planning Documents General Plan Yes No No No Yes Is the plan equipped to provide linkage to this Yes mitigation plan? Comment: Comprehensive Plan, 2008; It was updated in 2020 with additions and changes and it now called "City of Star Comprehensive Plan Shining Bright Into the Future – 2040 and Beyond" and 2021 and the Plan is being updated as of the creation of this All-Hazard Mitigation Plan once again in 2022. Additionally, there is a South of the River Sub-Area Plan which was adopted in 2021/2022 as a supplement to the Star Comprehensive Plan. Capital Improvement Plan The city has many capital improvement plans; which include the city's own Parks. Other plans the City utilizes are the Canyon Highway District 4 Capital Improvement Plans and Policies; Star Fire Capital Improvement Plans the being developed, | Comment: | | | | | | |
| Growth Management | Real Estate | Disclosure | | No | No | No | No |
| Comment: Ada County Comprehensive Plan, adopted 11/26/2007; Ada Co. Zoning ordinance-Title 8, ACC, adopted 12/8/2010 Site Plan Review Yes No No No No No Comment: Title 8, Chapter 4-ACC adopted: 12/8/2010 Environmental Protection Yes No No No Yes Comment: Titles 3, 5, 7, 8, 10, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Flood Damage Prevention Yes No No Yes Comment: Title 10, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Emergency Management No Yes No No Yes No Yes Comment: Ada County Emergency Management Plan Climate Change No | Comment: | | | | | | |
| Site Plan Review Comment: Title 8, Chapter 4-ACC adopted: 12/8/2010 Environmental Protection Title 8, Chapter 4-ACC adopted: 12/8/2010 Environmental Protection Yes No No Yes Comment: Titles 3, 5, 7, 8, 10, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Flood Damage Prevention Yes No No Yes Comment: Title 10, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Emergency Management No Yes No Yes Comment: Ada County Emergency Management Plan Climate Change No N | Growth Ma | nagement | | No | Yes | No | No |
| Comment: Title 8, Chapter 4-ACC adopted: 12/8/2010 Environmental Protection Yes No No Yes Comment: Titles 3, 5, 7, 8, 10, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Flood Damage Prevention Yes No No Yes Comment: Title 10, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Emergency Management No Yes No Yes Comment: Ada County Emergency Management Plan Climate Change No | Comment: | Ada County Comprehens | sive Plan, adopted 11/26/200 | 07; Ada Co. Zonii | ng ordinance-Title 8, AC | CC, adopted 12 | /8/2010 |
| Environmental Protection Comment: Titles 3, 5, 7, 8, 10, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Flood Damage Prevention Title 10, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Emergency Management No Yes No Yes Comment: Ada County Emergency Management Plan Climate Change No N | Site Plan R | eview | | Yes | No | No | No |
| Comment: Titles 3, 5, 7, 8, 10, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Flood Damage Prevention Yes No No Yes Comment: Title 10, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Emergency Management No Yes No Yes Comment: Ada County Emergency Management Plan Climate Change No N | Comment: | Title 8, Chapter 4-ACC a | dopted: 12/8/2010 | | | | |
| Flood Damage Prevention Comment: Title 10, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Emergency Management No Yes No Yes Comment: Ada County Emergency Management Plan Climate Change No N | Environme | ntal Protection | | Yes | No | No | Yes |
| Comment: Title 10, Star City Code; Local Land Use Planning Act, Idaho Code 67-6508 Emergency Management No Yes No Yes Comment: Ada County Emergency Management Plan Climate Change No | Comment: | Titles 3, 5, 7, 8, 10, Star | City Code; Local Land Use F | Planning Act, Idal | ho Code 67-6508 | | |
| Emergency Management Comment: Ada County Emergency Management Plan Climate Change No N | Flood Dama | age Prevention | | Yes | No | No | Yes |
| Comment: Ada County Emergency Management Plan Climate Change No No No No No No Roment: Planning Documents General Plan Yes No No No Yes Is the plan equipped to provide linkage to this Is the plan equipped to provide linkage to this State plan equipped to provide linkage to this Comment: Comprehensive Plan, 2008; It was updated in 2020 with additions and changes and it now called "City of Star Comprehensive Plan - Shining Bright Into the Future – 2040 and Beyond" and 2021 and the Plan is being updated as of the creation of this All-Hazard Mitigation Plan once again in 2022. Additionally, there is a South of the River Sub-Area Plan whice was adopted in 2021/2022 as a supplement to the Star Comprehensive Plan. Capital Improvement Plan How often is the plan updated? As required by law for Impact Fee Implementation and as CIP Projects are completed. Comment: The city has many capital improvement plans; which include the city's own Parks. Other plans the City utilizes are the Canyon Highway District 4 Capital Improvement Plan; Ada County Highway District Capital Improvement policies; Idaho Transportation Capital Improvement Plans and Policies; Star Fire Capital Improvement Plans, Star Water & Sewer District Capital Improvement Plans and; Ada County Sheriff's Office Capital Improvements Plans which are being developed, | Comment: | Title 10, Star City Code; | Local Land Use Planning Ac | t, Idaho Code 67 | '-6508 | | |
| Comment: Planning Documents General Plan Yes No No No No Yes Step plan equipped to provide linkage to this yes mitigation plan? Comment: Comprehensive Plan, 2008; It was updated in 2020 with additions and changes and it now called "City of Star Comprehensive Plan – Shining Bright Into the Future – 2040 and Beyond" and 2021 and the Plan is being updated as of the creation of this All-Hazard Mitigation Plan once again in 2022. Additionally, there is a South of the River Sub-Area Plan which was adopted in 2021/2022 as a supplement to the Star Comprehensive Plan. Capital Improvement Plan Yes Yes Yes Yes Yes Yes Yes Ye | Emergency | Management | | No | Yes | No | Yes |
| Comment: Planning Documents General Plan Yes No No Yes Step plan equipped to provide linkage to this Yes mitigation plan? Comment: Comprehensive Plan, 2008; It was updated in 2020 with additions and changes and it now called "City of Star Comprehensive Plan – Shining Bright Into the Future – 2040 and Beyond" and 2021 and the Plan is being updated as of the creation of this All-Hazard Mitigation Plan once again in 2022. Additionally, there is a South of the River Sub-Area Plan which was adopted in 2021/2022 as a supplement to the Star Comprehensive Plan. Capital Improvement Plan Yes Yes Yes Yes Yes Yes Yes Comment: The city has many capital improvement plans; which include the city's own Parks. Other plans the City utilizes are the Canyon Highway District 4 Capital Improvement Plans; Ada County Highway District Capital Improvement policies; Idaho Transportation Capital Improvement Plans and Policies; Star Fire Capital Improvement Plans which are being developed, | Comment: | Ada County Emergency | Management Plan | | | | |
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| Is the plan equipped to provide linkage to this Yes mitigation plan? Comment: Comprehensive Plan, 2008; It was updated in 2020 with additions and changes and it now called "City of Star Comprehensive Plan – Shining Bright Into the Future – 2040 and Beyond" and 2021 and the Plan is being updated as of the creation of this All-Hazard Mitigation Plan once again in 2022. Additionally, there is a South of the River Sub-Area Plan whice was adopted in 2021/2022 as a supplement to the Star Comprehensive Plan. Capital Improvement Plan Yes Yes Yes Yes Yes Yes Yes Comment: The city has many capital improvement plans; which include the city's own Parks. Other plans the City utilizes are the Canyon Highway District 4 Capital Improvement Plan; Ada County Highway District Capital Improvement policies; Idaho Transportation Capital Improvement Plans and Policies; Star Fire Capital Improvement Plans; Star Water & Sewer District Capital Improvement Plans and; Ada County Sheriff's Office Capital Improvements Plans which are being developed, | Comment: | | | | | | |
| Is the plan equipped to provide linkage to this Yes mitigation plan? Comment: Comprehensive Plan, 2008; It was updated in 2020 with additions and changes and it now called "City of Star Comprehensive Plan – Shining Bright Into the Future – 2040 and Beyond" and 2021 and the Plan is being updated as of the creation of this All-Hazard Mitigation Plan once again in 2022. Additionally, there is a South of the River Sub-Area Plan which was adopted in 2021/2022 as a supplement to the Star Comprehensive Plan. Capital Improvement Plan Yes Yes Yes Yes Yes Yes Yes Comment: The city has many capital improvement plans; which include the city's own Parks. Other plans the City utilizes are the Canyon Highway District 4 Capital Improvement Plan; Ada County Highway District Capital Improvement policies; Idaho Transportation Capital Improvement Plans and Policies; Star Fire Capital Improvement Plans which are being developed, | Planning D | ocuments | | | | | |
| Comment: Comprehensive Plan, 2008; It was updated in 2020 with additions and changes and it now called "City of Star Comprehensive Plan – Shining Bright Into the Future – 2040 and Beyond" and 2021 and the Plan is being updated as of the creation of this All-Hazard Mitigation Plan once again in 2022. Additionally, there is a South of the River Sub-Area Plan whice was adopted in 2021/2022 as a supplement to the Star Comprehensive Plan. Capital Improvement Plan As required by law for Impact Fee Implementation and as CIP Projects are completed. Comment: The city has many capital improvement plans; which include the city's own Parks. Other plans the City utilizes are the Canyon Highway District 4 Capital Improvement Plans; Ada County Highway District Capital Improvement policies; Idaho Transportation Capital Improvement Plans and Policies; Star Fire Capital Improvement Plans; Star Water & Sewer District Capital Improvement Plans and; Ada County Sheriff's Office Capital Improvements Plans which are being developed, | General Pla | ın | | Yes | No | No | Yes |
| Capital Improvement Plan How often is the plan updated? As required by law for Impact Fee Implementation and as CIP Projects are completed. Comment: The city has many capital improvement plans; which include the city's own Parks. Other plans the City utilizes are the Canyon Highway District 4 Capital Improvement Plan; Ada County Highway District Capital Improvement policies; Idaho Transportation Capital Improvement Plans and Policies; Star Fire Capital Improvement Plans; Star Water & Sewer District Capital Improvement Plans and; Ada County Sheriff's Office Capital Improvements Plans which are being developed, | ب mitigation | olan? Comprehensive Plan, 20 Comprehensive Plan – S creation of this All-Hazar | 08; It was updated in 2020 v hining Bright Into the Future d Mitigation Plan once again | - 2040 and Bey in 2022. Addition | ond" and 2021 and the nally, there is a South o | Plan is being u _l | pdated as of the |
| As required by law for Impact Fee Implementation and as CIP Projects are completed. Comment: The city has many capital improvement plans; which include the city's own Parks. Other plans the City utilizes are the Canyon Highway District 4 Capital Improvement Plan; Ada County Highway District Capital Improvement plans; Star Water & Sewer District Capital Improvement Plans and; Ada County Sheriff's Office Capital Improvements Plans which are being developed, | Capital Imp | • | 11 2 2 3 3 4 5 6 6 | | | Yes | Yes |
| Canyon Highway District 4 Capital Improvement Plan; Ada County Highway District Capital Improvement policies; Idaho Transportation Capital Improvement Plans and Policies; Star Fire Capital Improvement Plans; Star Water & Sewer District Capital Improvement Plans and; Ada County Sheriff's Office Capital Improvements Plans which are being developed, | | is the nian undated? | s required by law for Impact | Fee Implementa | - | | |
| | Comment: | Canyon Highway District Transportation Capital In | 4 Capital Improvement Plar approvement Plans and Polici | ı; Ada County Hiç es; Star Fire Cap | ghway District Capital In oital Improvement Plans | nprovement pol ; Star Water & | licies; Idaho Sewer District |
| | Disaster De | • | , , , , , , , , , , , , , , , , , , , | No | No | No | No |

| | Local Authority | Other Jurisdiction Authority | State Mandated | Integration Opportunity? |
|--|--|---|-------------------|--------------------------|
| Floodplain or Watershed Plan | Yes | No | No | Yes |
| Comment: Title 10, Star City Code, 2008 Comprehens 67-6508. Note: once complete, the Ada County All Harplan of record for all communities within the planning a Flood Control Code in 2021 – Ordinance 336 (Title 10 | zards Mitigation area that particip | Plan-update will becor ate in the CRS program | ne the floodplair | n management |
| Stormwater Plan | Yes | No | No | Yes |
| Comment: Star City complies with the requirements as per EPA r Permit. City is responsible for Stormwater Pollution Pr | | | uirements. ACH | ID holds NPDES |
| Urban Water Management Plan | No | No | No | No |
| Comment: | | | | |
| Habitat Conservation Plan | Yes | No | No | Yes |
| Comment: Comprehensive Plan – Chapter 9 | | | | |
| Economic Development Plan | Yes | No | No | Yes |
| Comment: 2011- Downtown Revitalization Plan | | | | |
| Shoreline Management Plan | Yes | No | No | Yes |
| Comment: Comprehensive Plan – Chapter 9 | | | | |
| Community Wildfire Protection Plan | No | No | No | Yes |
| Comment: Comprehensive Plan – Chapter 9 | | | | |
| Forest Management Plan | No | No | No | No |
| Comment: | | | | |
| Climate Action Plan | Yes | No | No | Yes |
| Comment: Title 10, Star City Code, 2008 Comprehensive Plan, re Note: once complete, the Ada County All Hazards Miti record for all communities within the planning area that | gation Plan-upda | ate will become the floo | | |
| Comprehensive Emergency Management Plan Comment: | No | No | No | No |
| Threat & Hazard Identification & Risk Assessment (THIRA) Comment: | No | No | No | No |
| Post-Disaster Recovery Plan Comment: | No | No | No | No |
| Continuity of Operations Plan Comment: | No | No | No | No |
| Public Health Plan | No | Yes | No | No |
| Comment: Central District Health Department Emergency Operat | ions Plan, 2013 | | | |

| Table 7-4. Development and Permitting Capability | | | | |
|--|---|--|--|--|
| Criterion | Response | | | |
| Does your jurisdiction issue development permits? If no, who does? If yes, which department? Planning & Zoning Department | Yes | | | |
| Does your jurisdiction have the ability to track permits by hazard area? | We are developing a computer system to help track. Currently we are using local knowledge, city engineer to help identify these areas. | | | |
| Does your jurisdiction have a buildable lands inventory? | Yes | | | |

7-6 TETRA TECH

| Table 7-5. Fiscal Capability | | | |
|--|--------------------------------|--|--|
| Financial Resource | Accessible or Eligible to Use? | | |
| Community Development Block Grants | Yes | | |
| Capital Improvements Project Funding | Yes | | |
| Authority to Levy Taxes for Specific Purposes | Yes | | |
| User Fees for Water, Sewer, Gas or Electric Service | No | | |
| If yes, specify: | | | |
| Incur Debt through General Obligation Bonds | Yes | | |
| Incur Debt through Special Tax Bonds | Yes | | |
| Incur Debt through Private Activity Bonds | No | | |
| Withhold Public Expenditures in Hazard-Prone Areas | Yes | | |
| State-Sponsored Grant Programs | Yes | | |
| Development Impact Fees for Homebuyers or Developers | Yes | | |
| Other | None | | |
| If yes, specify: | | | |

| | Table 7-6. Administrative and Technical Capability | | | |
|---|---|------------|--|--|
| Staff/Personnel Resource | | Available? | | |
| • | owledge of land development and land management practices Building & Planning Department | Yes | | |
| Engineers or professionals tra If Yes, Department /Position: | nined in building or infrastructure construction practices Building & Planning Department | Yes | | |
| - | understanding of natural hazards Building & Planning Department | Yes | | |
| Staff with training in benefit/co | | Yes | | |
| Surveyors If Yes, Department /Position: | Planning / City Engineer (hired and contracted) | Yes | | |
| Personnel skilled or trained in If Yes, Department /Position: | GIS applications | No | | |
| Scientist familiar with natural If Yes, Department /Position: | | Yes | | |
| Emergency manager If Yes, Department /Position: | Ada County Emergency Management | Yes | | |
| Grant writers If Yes, Department /Position: | Can contract with County | Yes | | |
| Other If Yes, Department /Position: | | No | | |

| | Table 7-7. Education and Outreach Capability | | |
|---|--|----------|--|
| Criterion | | Response | |
| Do you have a public inf | ormation officer or communications office? | Yes | |
| Do you have personnel | skilled or trained in website development? | Yes | |
| Do you have hazard miti If yes, briefly describe: | gation information available on your website? | No | |
| | for hazard mitigation education and outreach? Facebook, Instagram, Website, Mailchimp, Star Courier | Yes | |
| Do you have any citizen If yes, briefly describe: | boards or commissions that address issues related to hazard mitigation? | No | |
| Do you have any other programs in place that could be used to communicate hazard-related information? No lf yes, briefly describe: We are developing processes to reverse 911 and communicate with our citizens as needed during an emergency. | | | |
| Do you have any establis | shed warning systems for hazard events? | Yes | |
| If yes, briefly describe: | If yes, briefly describe: Code Red/ISAWS – residents may sign up to receive emergency notifications and critical community alerts. Both systems are IPAWS enabled and may additionally access that integrated system for public warnings. | | |

| Table 7-8. National Flood Insurance Program Compliance | | | |
|---|--|--|--|
| Criterion | Response | | |
| What local department is responsible for floodplain management? | Planning | | |
| Who is your floodplain administrator? (department/position) | Planning / Engineer / City Clerk | | |
| Are any certified floodplain managers on staff in your jurisdiction? | Yes | | |
| What is the date that your flood damage prevention ordinance was last amended? | 05/04/2021 | | |
| Does your floodplain management program meet or exceed minimum requirements? If exceeds, in what ways? 2-foot freeboard, more open space than federal requirements, so BFE. | Exceeds urface utilities are required to be 6" above | | |
| When was the most recent Community Assistance Visit or Community Assistance Contact? | CAV 1/24/2007, CAC 4/10/2008 \Update | | |
| Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? If so, state what they are. | No | | |
| Are any RiskMAP projects currently underway in your jurisdiction? If so, state what they are. | No | | |
| Do your flood hazard maps adequately address the flood risk within your jurisdiction? If no, state why. | Yes | | |
| Does your floodplain management staff need any assistance or training to support its floodplain management program? If so, what type of assistance/training is needed? General floodplain management training | Yes ng. | | |
| Does your jurisdiction participate in the Community Rating System (CRS)? If yes, is your jurisdiction interested in improving its CRS Classification? If no, is your jurisdiction interested in joining the CRS program? Yes | No | | |
| How many flood insurance policies are in force in your jurisdiction? ^a What is the insurance in force? \$25,245,100 What is the premium in force? \$53,249 | 80 | | |
| How many total loss claims have been filed in your jurisdiction? ^a What were the total payments for losses? \$0 | 0 | | |
| a. According to FEMA statistics as of March 31, 2022 | | | |

7-8 TETRA TECH

| Table 7-9. Community Classifications | | | | |
|---|----------------|----------------|-----------------|--|
| | Participating? | Classification | Date Classified | |
| FIPS Code | Yes | 1600176870 | N/A | |
| DUNS# | Yes | 788973753 | N/A | |
| Community Rating System | No | N/A | N/A | |
| Building Code Effectiveness Grading Schedule | No | 10/10 | N/A | |
| Public Protection | Yes | 4/9 | N/A | |
| Storm Ready | Yes | Blue | N/A | |
| Firewise | No | N/A | N/A | |
| Tsunami Ready | No | N/A | N/A | |

7.5 INTEGRATION REVIEW

For hazard mitigation planning, "integration" means that hazard mitigation information is used in other relevant planning mechanisms, such as general planning and capital facilities planning, and that relevant information from those sources is used in hazard mitigation. This section identifies where such integration is already in place, and where there are opportunities for further integration in the future. Resources listed at the end of this annex were used to provide information on integration. The progress reporting process described in Volume 1 of the hazard mitigation plan will document the progress of hazard mitigation actions related to integration and identify new opportunities for integration.

7.5.1 Existing Integration

Some level of integration has already been established between local hazard mitigation planning and the following other local plans and programs:

- **City of Star Comprehensive Plan**—The 2021 Comprehensive Plan includes mitigation related policies as they relate to the protection of human life and property from natural hazard events.
- Star City Code—The city code defines construction regulations for areas of the City within a floodplain.
- Ada County Comprehensive Plan—The Comprehensive Plan for Ada County currently includes mitigation related policies as they relate to the protection of human life and property from flood events. Additionally, the Comprehensive plan addresses the need for natural resource protection and the identification of known hazards within the County.
- Ada County Wildfire Response Plan—The Wildfire Response Plan for Ada County includes procedures that will mitigate risk to human life and property from a wildfire.

7.5.2 Opportunities for Future Integration

The capability assessment presented in this annex indicates opportunities to integrate this mitigation plan with other jurisdictional planning/regulatory capabilities. Capabilities were identified as integration opportunities if they can support or enhance the actions identified in this plan or be supported or enhanced by components of this plan. The capability assessment identified the following plans and programs that do not currently integrate hazard mitigation information but provide opportunities to do so in the future:

• Star City, Star Sewer & Water District, and Star Joint Fire Protection District Joint Emergency Operation Plan (EOP)—This joint plan has not been developed, but the Multi-Hazard Mitigation Plan hazard and risk data will inform the EOP.

• City of Star Continuity of Operation Plan (COOP)—This plan has not been developed, but the Multi-Hazard Mitigation Plan hazard and risk data will inform the COOP.

Taking action to integrate each of these programs with the hazard mitigation plan was considered as a mitigation action to include in the action plan in this annex.

7.6 RISK ASSESSMENT

7.6.1 Jurisdiction-Specific Natural Hazard Event History

Table 7-10 lists past occurrences of natural hazards for which specific damage was recorded in this jurisdiction Other hazard events that broadly affected the entire planning area, including this jurisdiction, are listed in the risk assessments in Volume 1 of this hazard mitigation plan.

| Table 7-10. Past Natural Hazard Events | | | | |
|--|-----------------|--------------------------|--|--|
| Type of Event | FEMA Disaster # | Date | Damage Assessment | |
| COVID-19 Pandemic | DR-4534 | 1/20/2020 - ongoing | N/A | |
| Flooding | DR-4342 | March 29 – June 15, 2017 | Public Assistance Countywide: \$4,493,792 | |
| Hail | N/A | 3/21/2016 | One-inch hail | |
| Hail | N/A | 5/26/2015 | Hail up to 1.5 inches at Floating Feather Road and Pollard Lane | |
| Severe Wind | N/A | 3/29/2009 | \$33,000 (countywide) | |
| Severe Wind | N/A | 4/27/1995 | \$50,000 (countywide) | |
| Borah Peak M7.3 Earthquake | N/A | 1988 | <u>-</u> | |
| Flooding | N/A | 6/1983 | \$147,000 (countywide) | |
| Hebgen Lake M7.5 Earthquake | N/A | 1959 | - | |
| Flooding | N/A | 1943 | Unknown | |

7.6.2 Hazard Risk Ranking

Table 7-11 presents a local ranking of all hazards of concern for which this hazard mitigation plan provides complete risk assessments. As described in detail in Volume 1, the ranking process involves an assessment of the likelihood of occurrence for each hazard, along with its potential impacts on people, property and the economy. Mitigation actions target hazards with high and medium rankings.

| | Table 7-11. Hazard Risk Ranking | | | | | | |
|------|---------------------------------|--------------------|---------------|--|--|--|--|
| Rank | Hazard | Risk Ranking Score | Risk Category | | | | |
| 1 | Extreme Weather | 33 | High | | | | |
| 2 | Dam/Canal Failure | 18 | Medium | | | | |
| 3 | Flood | 18 | Medium | | | | |
| 4 | Earthquake | 16 | Medium | | | | |
| 5 | Landslide | 12 | Low | | | | |
| 6 | Wildfire | 12 | Low | | | | |
| 7 | Drought | 9 | Low | | | | |
| 8 | Volcano | 6 | Low | | | | |

7-10 TETRA TECH

7.6.3 Jurisdiction-Specific Vulnerabilities

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. This section provides information on a few key vulnerabilities for this jurisdiction. Available jurisdiction-specific risk maps of the hazards are provided at the end of this annex.

Repetitive Loss Properties

Repetitive loss records are as follows:

- Number of FEMA-identified Repetitive-Loss Properties: 0
- Number of FEMA-identified Severe-Repetitive-Loss Properties: 0
- Number of Repetitive-Loss Properties or Severe-Repetitive-Loss Properties that have been mitigated: N/A

Other Noted Vulnerabilities

The following jurisdiction-specific issues have been identified based on a review of the results of the risk assessment, public involvement strategy, and other available resources:

• County levee along Boise River in Star area is not functional or maintained.

Mitigation actions addressing these issues were prioritized for consideration in the action plan in this annex.

7.7 STATUS OF PREVIOUS PLAN ACTIONS

Table 7-12 summarizes the actions that were recommended in the previous version of the hazard mitigation plan and their implementation status at the time this update was prepared.

| Table 7-12. Status of Previous Plan Actions | | | | | | | |
|---|-----------------|-----------------------|--------------|----------------------|--|--|--|
| | | Removed; | | ed Over to Update | | | |
| Action Item from Previous Plan | Completed | No Longer Feasible | Check if Yes | Action # in Update | | | |
| Action S-1—Consider participation in the Community Rating System | | | ✓ | S-9 | | | |
| Comment: Still pending consideration. | | | | | | | |
| Action S-2—Integrate Multi-Hazard Mitigation Plan into City of Star Comprehensive Plan | ✓ | | | | | | |
| Comment: Once adopted it will be in the new update of the comprehensive plan adopted | d by council re | esolution | | | | | |
| Action S-3 —Consider appropriate higher regulatory standards that prevent or reduce risk to the built environment from the known hazards of concern. | ✓ | | | | | | |
| Comment: May 4, 2021 – Title 10 of the Star City Code | | | | | | | |
| Action S-4 —Where appropriate, support retrofitting, purchase, or relocation of structures located in hazard-prone areas to protect structures from future damage, with properties with exposure to repetitive losses as a priority. | | | ✓ | S-1 | | | |
| Comment: No properties have been identified yet. | | | | | | | |

| | | Removed; | | ed Over to Update |
|--|----------------|-----------------------|--------------|-----------------------|
| Action Item from Previous Plan | Completed | No Longer Feasible | Check if Yes | Action # in Update |
| Action S-5 —Evaluate riverbank integrity of the Boise River in the areas of interface with buildings and infrastructure. Determine and employ the best methodology to either repair damaged areas or harden other areas that may directly threaten buildings or infrastructure during high flow events. | | | ✓ | S-10 |
| Comment: Working with FCD 10 to identify and make improvements. | ı | | | |
| Action S-6 —Develop a Joint Emergency Operation Plan with Star City and Star Joint Fire Protection District: This plan is necessary to establish a single, comprehensive framework for the management of domestic incidents. The City of Star will lead this all-discipline action, but Star Sewer & Water District will aid in planning for all hazards. | | | ✓ | S-7 |
| Comment: Need to review and edit the 2014 EOP as needed per AAR's from exercises | and real world | l events. | | |
| Action S-7 —Develop a Continuity of Operation Plan: This plan will provide specific policies and procedures that will be carried out in the event of an emergency, including localized acts of nature, accidents, and technological or attack-related emergencies. The plan will address how the District will continue to perform essential functions in the event of compromised facilities or leadership, and how the District will return to normal operations. | | | ✓ | S-8 |
| Comment: Carry over. Will address when staff time is available. | | | | |
| Action S-8—Support County-wide Initiatives Identified in Volume 1 of the Multi-Hazard Mitigation Plan | | | ✓ | |
| Comment: Ongoing | | | | |
| Action S-9 —Actively Participate in the Plan Maintenance Protocols Outlines in Volume 1 of the Multi-Hazard Mitigation Plan | | | ✓ | S-3 |
| Comment: Ongoing | I | | | |
| Action S-10 —Maintain good standing under the National Flood Insurance Program by implementing programs that meet or exceed the minimum NFIP requirements. Such programs include but are not limited to; enforcing an adopted flood damage prevention ordinance, participating in floodplain mapping updates, and providing public assistance and information on floodplain requirements and impacts. | | | √ | S-4 |
| Comment: May 5, 2021 – Title 10 of the Star City Code | ı | | | |
| Action S-11—Provide fire safety, fire prevention and Firewise education to neighborhoods, schools and community via the internet, social media and direct public outreach. Comment: Ongoing effort in partnership with Star Joint Fire District. | | | ✓ | S-11 |

7.8 HAZARD MITIGATION ACTION PLAN

Table 7-13 lists the identified actions, which make up the hazard mitigation action plan for this jurisdiction. Table 7-14 identifies the priority for each action. Table 7-15 summarizes the mitigation actions by hazard of concern and mitigation type.

7-12 TETRA TECH

| Table 7-13. Hazard Mitigation Action Plan Matrix | | | | | | | |
|--|--|---|---|--|---|--|--|
| Benefits New or Existing Assets | Objectives Met | Lead Agency | Support Agency | Estimated Cost | Sources of Funding | Timelinea | |
| Action S-1—Wher nave experienced in | e appropriate, support i repetitive losses and/or | retrofitting, purchase are located in high- | e or relocation of stru or medium-risk haza | ctures located in ha | | | |
| Hazards Mitigated: | · | | | | | | |
| Existing | 3, 8, 9 | Star Building Department | N/A | High | HMGP, BRIC, FMA | Short-term | |
| Action S-2— Integrommunity. | rate the hazard mitigati | on plan into other p | lans, ordinances and | programs that dicta | ate land use decision | ons in the | |
| Hazards Mitigated: | Extreme Weather, Da | am/Canal Failure, F | lood, Earthquake, La | ndslide, Wildfire, D | rought | | |
| New & Existing | 2, 5, 6 | Planning | N/A | Low | Staff Time, General Funds | Ongoing | |
| Action S-3—Active | ely participate in the pla | • | | | • . | | |
| Hazards Mitigated: | · | | | ndslide, Wildfire, D | • | | |
| New & Existing | 1, 2, 6, 7, 8, 9, 10 | City of Star | N/A | Low | Staff Time, General Funds | Short-term | |
| Enforce the flood damage prevention ordinance. Participate in floodplain identification and mapping updates. Provide public assistance/information on floodplain requirements and impacts. | | | | | | | |
| Provide public a | odplain identification ar assistance/information o | nd mapping updates | | | | | |
| Provide public a | odplain identification ar assistance/information o | nd mapping updates | | Low | Staff Time, General Funds | Ongoing | |
| Provide public a Hazards Mitigated: New & Existing Action S-5—Coord | odplain identification ar assistance/information of Flood 1, 2, 4, 5, 6, 8 dinate with community s | nd mapping updates on floodplain require Planning stakeholders in both | N/A the public and privat | e sectors to identify | General Funds | | |
| Provide public a Hazards Mitigated: New & Existing Action S-5—Coord strategies that coul | odplain identification are assistance/information of Flood 1, 2, 4, 5, 6, 8 dinate with community state of the community of | nd mapping updates on floodplain require Planning stakeholders in both esilience in relation | N/A the public and privat to future climate con- | e sectors to identify | General Funds | | |
| Provide public a Hazards Mitigated: New & Existing Action S-5—Coord strategies that could hazards Mitigated: | odplain identification ar assistance/information of Flood 1, 2, 4, 5, 6, 8 dinate with community sold improve community of Drought, Flood, Extre | nd mapping updates on floodplain require Planning stakeholders in both esilience in relation eme Weather, Wildf | N/A the public and private to future climate conditions. | e sectors to identify ditions. | General Funds and pursue adapt | ive capacity | |
| Provide public a Hazards Mitigated: New & Existing Action S-5—Coord strategies that coul Hazards Mitigated: New & Existing | dinate with community sold improve community of Drought, Flood, Extre 2, 3, 4, 6, 9, 10 | nd mapping updates on floodplain require Planning stakeholders in both esilience in relation eme Weather, Wildf Public Works | N/A the public and privat to future climate confire N/A | e sectors to identify ditions. Low | General Funds and pursue adapt Staff Time, General Funds | | |
| Provide public a Hazards Mitigated: New & Existing Action S-5—Coord strategies that could Hazards Mitigated: New & Existing Action S-6—Purc | odplain identification are ssistance/information of Flood 1, 2, 4, 5, 6, 8 dinate with community stid improve community of Drought, Flood, Extre 2, 3, 4, 6, 9, 10 hase generators for crit | nd mapping updates in floodplain require Planning stakeholders in both esilience in relation eme Weather, Wildf Public Works ical facilities and inf | N/A the public and private to future climate conditions N/A frastructure that lack a | te sectors to identify ditions. Low adequate backup possible sectors to identify the sectors the sect | General Funds and pursue adapt Staff Time, General Funds | ive capacity | |
| Provide public and Action S-5—Coord Strategies that could hazards Mitigated: New & Existing New & Existing Action S-6—Purchazards Mitigated: | odplain identification are assistance/information of Flood 1, 2, 4, 5, 6, 8 dinate with community of improve community of Drought, Flood, Extre 2, 3, 4, 6, 9, 10 hase generators for crit Extreme Weather, Da | nd mapping updates in floodplain require Planning stakeholders in both esilience in relation eme Weather, Wildf Public Works ical facilities and inf am/Canal Failure, F | N/A the public and private to future climate confire N/A frastructure that lack a flood, Earthquake, La | te sectors to identify ditions. Low adequate backup pondslide, Wildfire | General Funds y and pursue adapt Staff Time, General Funds ower. | ive capacity Short-term | |
| Provide public a Hazards Mitigated: New & Existing Action S-5—Coord strategies that coul Hazards Mitigated: New & Existing Action S-6— Purc Hazards Mitigated: Existing | dinate with community sold improve community rought, Flood, Extre 2, 3, 4, 6, 9, 10 hase generators for critical Extreme Weather, Days 1, 3, 10 | nd mapping updates on floodplain require Planning stakeholders in both esilience in relation eme Weather, Wildf Public Works ical facilities and inf am/Canal Failure, F Public Works | N/A the public and private to future climate conditions N/A frastructure that lack a flood, Earthquake, Lack N/A | Low adequate backup productions. High | General Funds of and pursue adapt Staff Time, General Funds ower. HMGP, BRIC | ive capacity Short-term Short-term | |
| Provide public a Hazards Mitigated: New & Existing Action S-5—Coord Strategies that coult Hazards Mitigated: New & Existing Action S-6— Purch Hazards Mitigated: Existing Action S-7— Development of Star will lead for all hazards. (Co | dinate with community sold improve community rought, Flood, Extre 2, 3, 4, 6, 9, 10 hase generators for crit Extreme Weather, Day 1, 3, 10 elop a Joint Emergency This plan is necessary dinates with Star Seviordinates with Star Seviordinates with Star Seviordinates. | Planning Planning Stakeholders in both esilience in relation eme Weather, Wildf Public Works ical facilities and infam/Canal Failure, Fublic Works Operation Plan with to establish a single on, but Star Sewer a wer and Water Distr | N/A the public and private to future climate conditions ire N/A frastructure that lack a clood, Earthquake, Lack N/A the City of Star, Star, comprehensive france that Water District and ict Action SSW-4 and | Low adequate backup productions. High r Sewer and Water mework for the mand Star Joint Fire Pro | General Funds of and pursue adapt Staff Time, General Funds ower. HMGP, BRIC District, and Star J agement of domes tection District will tection District SFD | Short-term Short-term oint Fire tic incidents. The | |
| Provide public a Hazards Mitigated: New & Existing Action S-5—Coord Strategies that could Hazards Mitigated: New & Existing Action S-6— Purchazards Mitigated: Existing Action S-7— Development of Star will lead or all hazards. (Co | dinate with community sold improve community no Drought, Flood, Extre 2, 3, 4, 6, 9, 10 hase generators for crit Extreme Weather, Day 1, 3, 10 elop a Joint Emergency This plan is necessary did this all-discipline action | Planning Planning Stakeholders in both esilience in relation eme Weather, Wildf Public Works ical facilities and infam/Canal Failure, Fublic Works Operation Plan with to establish a single on, but Star Sewer a wer and Water Distr | N/A the public and private to future climate conditions ire N/A frastructure that lack a clood, Earthquake, Lack N/A the City of Star, Star, comprehensive france that Water District and ict Action SSW-4 and | Low adequate backup productions. High r Sewer and Water mework for the mand Star Joint Fire Pro | General Funds of and pursue adapt Staff Time, General Funds ower. HMGP, BRIC District, and Star J agement of domes tection District will tection District SFD | Short-term Short-term oint Fire tic incidents. The | |
| Provide public a Hazards Mitigated: New & Existing Action S-5—Coord Strategies that could Hazards Mitigated: New & Existing Action S-6— Purchazards Mitigated: Existing Action S-7— Development of Star will lead or all hazards. (Co | dinate with community sold improve community rought, Flood, Extre 2, 3, 4, 6, 9, 10 hase generators for crit Extreme Weather, Day 1, 3, 10 elop a Joint Emergency This plan is necessary dinates with Star Seviordinates with Star Seviordinates with Star Seviordinates. | Planning Planning Stakeholders in both esilience in relation eme Weather, Wildf Public Works ical facilities and infam/Canal Failure, Fublic Works Operation Plan with to establish a single on, but Star Sewer a wer and Water Distr | N/A the public and private to future climate conditions ire N/A frastructure that lack a clood, Earthquake, Lack N/A the City of Star, Star, comprehensive france that Water District and ict Action SSW-4 and | Low adequate backup productions. High r Sewer and Water mework for the mand Star Joint Fire Pro | General Funds of and pursue adapt Staff Time, General Funds ower. HMGP, BRIC District, and Star J agement of domes tection District will tection District SFD | Short-term Short-term oint Fire tic incidents. The | |
| Action S-5—Coord trategies that could azards Mitigated: New & Existing Action S-5—Coord trategies that could azards Mitigated: New & Existing Action S-6—Purc dazards Mitigated: Existing Action S-7—Development of Star will lead or all hazards. (Codazards Mitigated: New & Existing Action S-8—Development of Star Mitigated: New & Existing | dinate with community sold improve community rought, Flood, Extreme Weather, Day 1, 3, 10 elop a Joint Emergency This plan is necessary dinates with Star Severe Extreme Weather, Day All | Planning Planning Stakeholders in both esilience in relation eme Weather, Wildf Public Works ical facilities and infam/Canal Failure, Fublic Works Operation Plan with to establish a single on, but Star Sewer and Water Distram/Canal Failure, Fuer and Vater Distram/Canal Failure, Forty of Star | nments and impacts. N/A the public and private to future climate conditions ire N/A frastructure that lack a clood, Earthquake, Lack now, comprehensive framed Water District and ict Action SSW-4 and Clood, Earthquake, Lack SSW District, Star Joint Fire Protection District an will provide specifican will provide specificans. | Low adequate backup produced by the sectors to identify ditions. Low adequate backup produced by the sector backup produced | General Funds of and pursue adapt Staff Time, General Funds ower. HMGP, BRIC District, and Star J agement of domes stection District will tection District SFD rought, Volcano City Funds, District Funds, HMGP edures that will be | Short-term Short-term oint Fire tic incidents. The aid in planning 0-5) Short-term | |
| Action S-5—Coord trategies that could azards Mitigated: New & Existing Action S-5—Coord trategies that could azards Mitigated: New & Existing Action S-6—Purc dazards Mitigated: Existing Action S-7—Development of Star will lead or all hazards. (Codazards Mitigated: New & Existing Action S-8—Development of Star Mitigated: New & Existing | dinate with community state of the series of | Planning Stakeholders in both esilience in relation eme Weather, Wildf Public Works ical facilities and infam/Canal Failure, F Public Works Operation Plan with to establish a single on, but Star Sewer and Water Distram/Canal Failure, F City of Star eration Plan: This plad acts of nature, according to the control of | nments and impacts. N/A I the public and private to future climate conditions in the public and private to future climate conditions in the City of Star, Start and Water District and Water District and Clood, Earthquake, Late SSW District, Start Joint Fire Protection District and will provide specificidents, and technological conditions in the conditions in the city of Start Start Joint Fire Protection District and will provide specificidents, and technological conditions in the city of the | Low adequate backup produced by the sectors to identify ditions. Low adequate backup produced by the sector backup produced | Staff Time, General Funds Staff Time, General Funds ower. HMGP, BRIC District, and Star J agement of domes tection District will tection District SFD rought, Volcano City Funds, District Funds, HMGP edures that will be ded emergencies. | Short-term Short-term oint Fire tic incidents. Ti aid in planning 0-5) Short-term | |

| Benefits New or Existing Assets | Objectives Met | Lead Agency | Support Agency | Estimated Cost | Sources of Funding | Timeline ^a | |
|--|---------------------------|------------------------|--|----------------------|---|-----------------------|--|
| Action S-9— Consider feasibility of participation in the Community Rating System | | | | | | | |
| Hazards Mitigated: | Flood | | | | | | |
| New & Existing | 1, 2, 4, 5, 6, 7, 8, 9 | City of Star | N/A | Low | General Fund, Surface Water Utility Fund | Short-term | |
| Action S-10 — Evaluate riverbank integrity of the Boise River in the areas of interface with buildings and infrastructure. Determine and employ the best methodology to either repair damaged areas or harden other areas that may directly threaten buildings or infrastructure during high flow events. (Coordinates with Flood Control District #10 Action FCD10-16) | | | | | | | |
| Hazards Mitigated: | Flood, Severe Weath | er, Dam/Canal Fail | ure | | | | |
| New & Existing | 1, 2, 9, 10 | City of Star | FCD#10 | Medium | HMGP, FCD #10, City of Star CIP Funding | Long-term | |
| Action S-11— Incr | ease GIS capacity by p | providing training for | existing staff or hirin | g staff to support G | IS needs. | | |
| Hazards Mitigated: | Extreme Weather, Da | am/Canal Failure, F | lood, Earthquake, La | ndslide, Wildfire, D | rought, Volcano | | |
| New & Existing | 1, 2, 7 | City of Star | N/A | Medium | City Funds | Short-term | |
| Action S-12— Provide fire safety, fire prevention and Firewise education to neighborhoods, schools and community via the internet, social media and direct public outreach. (Coordinates with Star Joint Fire Protection District Action SFD-6) Hazards Mitigated: Wildfire | | | | | | | |
| New & Existing | 8, 9 | City of Star | Star Joint Fire Protection District | Low | City Funds, District Funds | Ongoing | |

a. Short-term = Completion within 5 years; Long-term = Completion within 10 years; Ongoing= Continuing new or existing program with no completion date

Acronyms used here are defined at the beginning of this volume.

| Table 7-14. Mitigation Action Priority | | | | | | | | |
|--|---------------------------|----------|--------|---|-----------------------------------|---|---|---|
| Action # | # of Objectives Met | Benefits | Costs | Do Benefits Equal or Exceed Cost? | Is Project Grant- Eligible? | Can Project Be Funded Under Existing Programs/ Budgets? | Implementation Priority ^a | Grant Pursuit Priority ^a |
| 1 | 3 | High | High | Yes | Yes | No | Medium | High |
| 2 | 7 | Medium | Low | Yes | No | Yes | High | Low |
| 3 | 3 | Low | Low | Yes | No | Yes | High | Low |
| 4 | 6 | Medium | Low | Yes | No | Yes | High | Low |
| 5 | 7 | Medium | Low | Yes | No | Yes | High | Medium |
| 6 | 3 | High | Medium | Yes | Yes | No | Medium | High |
| 7 | 10 | Low | Low | Yes | Yes | No | High | Medium |
| 8 | 10 | Low | Low | Yes | Yes | No | High | Medium |
| 9 | 8 | Medium | Low | Yes | No | Yes | High | Low |
| 10 | 4 | Medium | Medium | Yes | Yes | No | Medium | Medium |
| 11 | 3 | Low | Low | Yes | No | Yes | High | Low |
| 12 | 2 | Low | Low | Yes | No | Yes | High | Low |

a. See the introduction to this volume for explanation of priorities.

7-14 TETRA TECH

| Table 7-15. Analysis of Mitigation Actions | | | | | | | | | | |
|--|------------|---|------------------------------------|-----------------------------------|-----------------------|------------------------|-----------------------|--|--|--|
| | | Action Addressing Hazard, by Mitigation Type ^a | | | | | | | | |
| Hazard Type | Prevention | Property Protection | Public Education & Awareness | Natural Resource Protection | Emergency Services | Structural Projects | Climate Resilience | Community Capacity Building ^b | | |
| High-Risk Hazards | | | | | | | | | | |
| Extreme Weather | S-2 | S-1 | | | S-6, 7, 8 | S-10 | S-5 | S-2, 3, 5, 7, 8, 10, 11 | | |
| Medium-Risk Hazard | S | | | | | | | | | |
| Dam/Canal Failure | S-2 | S-1 | | | S-6, 7, 8 | S-10 | | S-2, 3, 7, 8, 10, 11 | | |
| Flood | S-2, 4, 9 | S-1, 9 | S-4 | | S-6, 7, 8 | S-10 | S-5 | S-2, 3, 4, 5, 7, 8, 9, 10, 11 | | |
| Earthquake | S-2 | S-1 | | | S-6, 7, 8 | | | S-2, 3, 7, 8, 11 | | |
| Low-Risk Hazards | | | | | | | | | | |
| Landslide | S-2 | S-1 | | | S-6, 7, 8 | | S-5 | S-2, 3, 5, 7, 8, 11 | | |
| Wildfire | S-2 | S-1 | S-12 | | S-6, 7, 8 | | | S-2, 3, 7, 8, 11 | | |
| Drought | S-2 | | | | S-7, 8 | | S-5 | S-2, 3, 5, 7, 8, 11 | | |
| Volcano | | | | | S-7, 8 | | | S-3, 7, 8, 11 | | |

a. See the introduction to this volume for explanation of mitigation types.

7.9 PUBLIC OUTREACH

Table 7-16 lists public outreach activities for this jurisdiction.

| Table 7-16. Local Public Outreach | | | | | | | |
|--|---------------------|-----------------------------------|--|--|--|--|--|
| Local Outreach Activity | Date | Number of People Involved | | | | | |
| South of the River Plan community involvement | April, 2021 | 200+ at one event | | | | | |
| Continually of adoption of ordinances and annexations | ongoing | 500+ | | | | | |
| New updates to the Comprehensive Plan - mailing to 6,443 households & commercial businesses (2.9 factor) | June 2022 - planned | approximately 18,000 people reach | | | | | |
| Monthly newsletter to all rooftops and PO boxes within zip code utilizing Star Courier and email blasts, social media interactions | Ongoing | 1800 email addresses | | | | | |

7.10 INFORMATION SOURCES USED FOR THIS ANNEX

The following technical reports, plans, and regulatory mechanisms were reviewed to provide information for this annex.

- **2017 Ada County Multi-Hazard Mitigation Plan** The previous HMP was reviewed to update this annex.
- City of Star Municipal Code—The municipal code was reviewed for the full capability assessment and for identifying opportunities for action plan integration.

b. In addition to the community capacity building actions listed in this table, this jurisdiction is expanding its financial capabilities through its participation in and adoption of this hazard mitigation plan, which establishes grant-funding eligibility.

• City of Star Flood Damage Prevention Ordinance—The flood damage prevention ordinance was reviewed for compliance with the National Flood Insurance Program.

The following outside resources and references were reviewed:

• Hazard Mitigation Plan Annex Development Toolkit—The toolkit was used to support the identification of past hazard events and noted vulnerabilities, the risk ranking, and the development of the mitigation action plan.

7-16 TETRA TECH

