8. ADA COUNTY HIGHWAY DISTRICT

8.1 LOCAL HAZARD MITIGATION PLANNING TEAM

Primary Point of Contact
Lloyd Carnegie, Maintenance Manager
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This annex was developed by the local hazard mitigation planning team, whose members are listed in Table 8-1.

Table 8-1. Local Hazard Mitigation Planning Team Members

Name	Title
Tom Ferch	Transportation Funding Coordinator
Lloyd Carnegie	Maintenance Manager
Dale Kuperus	District Engineer

8.2 JURISDICTION PROFILE

8.2.1 Overview

The Ada County Highway District (ACHD) owns and maintains 5,274 lane miles of roads and streets and approximately 826 bridges in Ada County with an estimated non-depreciated value of $2.125 billion. ACHD was established by referendum on May 25, 1971 and commenced operations on January 1, 1972. It is a separate unit of local government responsible for all roads, bridges, streets, alleys and public rights-of-way in Ada County, except for those designated as part of the state or federal Highway system. ACHD has approximately 383 employees. Funding comes from various sources including property taxes, State Highway Users Funds, Development Impact Fees, cost sharing payments, Ada County Registration Fees, State Sales Tax and other miscellaneous sources. ACHD is governed by a five-member Commission.

The ACHD Commission assumes responsibility for the adoption of this plan; The ACHD Director will oversee its implementation.

8.2.2 Service Area

The district serves a population of 518,300 as of 2021. Its service area covers an area of 1,060 square miles, which has a total value of $68,519,741,700.

8.2.3 Assets

Table 8-2 summarizes the assets of the District and their value.

Table 8-2. Special Purpose District Assets

Asset	Value
Property	
227 acres of land	$30,776,000
Equipment	
(1) **Forklift**	$140,000
(4) Graders	$1,800,000
(5) Backhoe / Excavators	$800,000
(6) Platform / Bucket Trucks	$1,150,000
(1) **Crane Truck**	$350,000
(2) Heavy Duty Tractors	$300,000
(6) Dump Trucks – 5 yard	$1,440,000
(46) Heavy Duty TA Dump Trucks – 12 Yard	$11,270,000
(7) Heavy Duty Vacuum Trucks	$3,710,000
(11) Mechanical Sweepers	$4,015,000
(23) Vacuum Sweepers	$8,395,000
(7) Track Excavators	$1,075,000
(1) **Dozer**	$500,000
(7) Wheel Loaders	$2,450,000
(14) Rollers	$1,750,000
(3) Skid Steers	$240,000
(4) Forklifts	$500,000
(17) Air Compressors	$510,000
(6) Arrow Board Trailers	$36,000
(4) Flood Light Trailers	$120,000
(5) Message Board Trailers	$100,000
(9) Large Equipment Trailers	$315,000
(1) **Low Boy Trailer**	$50,000
(6) Pup Trailers	$390,000
(1) **Trash Compactor**	$80,000
Total:	***$41,486,000***
Critical Facilities	
Traffic Signal Junction Building	$19,000
A-5 Kit Mobile Office/Utility Retreat	$70,000
A-10 Communication Tower	$15,000
A-10 Traffic Operations Building	$761,000
A-11 Carpentry Shop	$16,000
A-12 Shop 3	$38,000
A-13 Shop 4	$205,000
A-14 Shop 2	$565,000
A-15 Salt Shed	$21,000
A-21 Salt/Sand Shed	$300,000
A-8 Shop 1	$380,000
A-9 Fleet Services	$35,000

Asset	Value
A-7 Maintenance Office	$380,000
Pump/Shed/Well	$5,000
A-1 Office Space	$2,630,000
A-16 Warehouse	$123,000
A-2 Administration Building	$2,020,000
Cooling Tower	$84,897
Hazardous Material Storage	$23,000
C-1 Office and Shop	$870,000
C-2 Drainage Shed	$300,000
C-3 Tire Shop	$242,000
C-4 Carpenter Shop & Parking Bays	$346,000
C-5 Decant Station	$18,000
C-6 Wash Bay	$112,000
C-7 Salt Storage Shed	$17,000
Communication Tower	$15,000
Salt/Sand Shed	$687,264
Shop	$49,000
Office Building	$534,000
Dwelling 5513	$270,000
Storage Shed with Pump	$55,000
Total:	***$11,206,161***

8.3 CURRENT TRENDS

According to COMPASS, Ada County experienced an annual population increase of 3.1% between 2011 and 2021. That trend is expected to increase as economic growth continues.

8.4 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 8-3.
- An assessment of fiscal capabilities is presented in Table 8-4.
- An assessment of administrative and technical capabilities is presented in Table 8-5.
- An assessment of education and outreach capabilities is presented in Table 8-6.
- Classifications under various community mitigation programs are presented in Table 8-7.

Table 8-3. Planning and Regulatory Capability

Plan, Study or Program	Date of Most Recent Update	Comment
ACHD Capital Improvement Plan	August 19, 2020	N/A
Resolution 812 – ACHD Standard Operating Plan for Right-of-Way Spill, Container, and Debris Response	February 1, 2021	N/A
Sections 7000, 7100, and 7200 of the ACHD Policy Manual pertaining to Land Development Requirements	December 16, 2020	N/A
Sections 8000, 8200, and 8300 of the ACHD Policy Manual pertaining to Stormwater Management and Discharge Requirements	December 16, 2020	N/A
ACHD Integrated Five Year Work Plan	January 26, 2022	N/A

Table 8-4. 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
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	Yes
Development Impact Fees for Homebuyers or Developers	Yes
Other	Yes
If yes, specify: Vehicle Registration Fees, Special Impact Fees, Gas Tax, Sales Tax, Highway User Fund Fees	

Table 8-5. Administrative and Technical Capability

Staff/Personnel Resource	Available?
Planners or engineers with knowledge of land development and land management practices	Yes
If Yes, Department /Position: Development Services, Capital Projects, and Planning Departments	
Engineers or professionals trained in building or infrastructure construction practices	Yes
If Yes, Department /Position: Engineering, Maintenance, and Capital Projects Departments	
Planners or engineers with an understanding of natural hazards	Yes
If Yes, Department /Position: Engineering and Maintenance Departments	
Staff with training in benefit/cost analysis	Yes
If Yes, Department /Position: Accounting and Capital Projects	
Surveyors	Yes
If Yes, Department /Position: Engineering Department	
Personnel skilled or trained in GIS applications	Yes
If Yes, Department /Position: GIS Department	
Scientist familiar with natural hazards in local area	No
Emergency manager	No
Grant writers	Yes
If Yes, Department /Position: Planning Department	

Table 8-6. Education and Outreach Capability

Criterion	Response
Do you have a public information officer or communications office?	Yes
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
Do you have any other programs in place that could be used to communicate hazard-related information?	Yes
If yes, briefly describe: Facebook, Instagram, Twitter, ACHD Website, Media Releases	
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 community alerts. Both systems are IPAWS enabled and may additionally access that integrated system for public warnings.	

Table 8-7. Community Classifications

	Participating?	Classification	Date Classified
FIPS Code	Yes	16001	N/A
DUNS#	Yes	099312712	N/A
Community Rating System	N/A	N/A	N/A
Building Code Effectiveness Grading Schedule	N/A	N/A	N/A
Public Protection	N/A	N/A	N/A
Storm Ready	No	N/A	N/A
Firewise	No	N/A	N/A

8.5 INTEGRATION REVIEW

For hazard mitigation planning, "integration" means that hazard mitigation information is used in other relevant planning mechanisms, such as 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.

8.5.1 Existing Integration

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

- **ACHD Integrated Five Year Work Plan -** Sets forth the strategies, projects (roads, intersections, and bridges), and priorities which ACHD will pursue over the next five years.
- **ACHD Capital Improvement Plan (CIP)** - A long-range transportation plan (20 years) identifying existing transportation facilities and any existing deficiencies, identifying future network deficiencies, and identifying capacity expansion projects on arterial roads and intersections of arterial roads that are eligible for impact fees.

8.5.2 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:

- **ACHD Strategic Plan -** The first focus area (Looking Ahead) establishes a planning framework for ACHD. This framework includes a discussion of common values that ACHD shares with it partner agencies, a description of context and demographics for Ada County, and goals and objectives. The second focus area (Moving Forward) concentrates on asset management and resource allocation. The Plan also contains actions items and policy guidance that will help ACHD staff implement Commission directives. The goals, objectives, and action items in the Hazard Mitigation Plan may be used to inform the strategic plan.

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.

8.6 RISK ASSESSMENT

8.6.1 Jurisdiction-Specific Natural Hazard Event History

Table 8-8 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 8-8. Past Natural Hazard Events

Type of Event	FEMA Disaster #	Date	Damage Assessment
Flood	DR-4534	March 2017	Flooding of Boise River in Boise, Eagle Island and Garden City
Landslide	N/A	February 2016	Alto Via Court Closed by Commission
Flood	N/A	April 2014	Flooding of Dry Creek
Flood	N/A	May 2012	$40,145 Flooding of Little Pioneer Irrigation Ditch
Flood	N/A	December 2009	Flooding of Boise River in Boise
Wildfire	N/A	August 2008	Oregon Trial Fire in SE Boise
Flood	N/A	April 2006	Flooding of Dry Creek
Flood	N/A	September 1997	Flooding of Crane Creek and Hulls Gulch
Flood	N/A	May 1993	Flooding of Boise River in Eagle
Flood	N/A	February 1986	Flooding of Cottonwood Creek
Flood	N/A	June 1983	Flooding in Boise, Garden City, and Eagle Island
Flood	N/A	January 1979	Flooding and erosion of Crane Creek, Polecat Gulch, Stewart Gulch, Cottonwood Creek, and Three Mile, Five Mile, Eight Mile, and Ten Mile Creeks

8.6.2 Hazard Risk Ranking

Table 8-9 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 district operations. Mitigation actions target hazards with high and medium rankings.

Table 8-9. Hazard Risk Ranking

Rank	Hazard	Risk Ranking Score	Risk Category
1	Flood	45	High
2	Earthquake	36	High
3	Severe Weather	33	High
4	Landslide	16	Medium
5	Dam/Canal Failure	15	Medium
6	Drought	9	Low
7	Wildfire	0	Low
8	Volcano	0	Low

8.6.3 Jurisdiction-Specific Vulnerabilities

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. 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:

- The ACHD Adams Yard and Headquarters are both in close proximity, although out of the floodplain, to the Boise River. A significant flood event (greater than the 100 year event) or a dam inundation event could compromise these facilities.
- Both of ACHD's maintenance facilities are south of the Boise River. Without substantial prior notice, ACHD would not be able to stage equipment and vehicles accordingly.

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

8.7 STATUS OF PREVIOUS PLAN ACTIONS

Table 8-10 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 8-10. Status of Previous Plan Actions

Action Item from Previous Plan	Completed	Removed; No Longer Feasible	Carried Over to Plan Update: Check if Yes	Carried Over to Plan Update: Action # in Update
ACHD-1—Pintail/Drake/Widgeon Flooding			•	ACHD-5
Comment: *Ongoing capability. Ongoing flooding problem for 10+ years. Vactor truck must pump during routine storms. Storm drain under capacity, two 18" pipes converge and leave as one 18". ACHD is initiating topographic surveys to look at solutions.*				
ACHD-2—Meridian Culvert Replacements			•	ACHD-6
Comment: *Ongoing capability. Still needing replacement: Nine Mile Creek at: E. Watertower Lane, E. Franklin Road, W. Ustick Road. Ten Mile Creek at: Locust Grove Road. Eight Mile Creek at: Overland Road. Five Mile Creek at: S. Topaz Avenue, S. Rackham Way, S. Eagle Road, S. Wells Street.*				

Action Item from Previous Plan	Completed	Removed; No Longer Feasible	Carried Over to Plan Update: Check if Yes	Carried Over to Plan Update: Action # in Update
ACHD-3—Snowflake and Crocus Pipe Realignment			•	ACHD-7
Comment: *No progress. Need to realign storm drain from the back yards to the street and increase the pipe size to reduce restrictions. Ongoing problem for ACHD Drainage Crew. Vactor truck must pump during routine storms.*				
ACHD-4—Create a Storm Water Utility			•	ACHD-8
Comment: *No progress.*				
ACHD-5—Remove sediment from all public street storm water ponds			•	ACHD-9
Comment: *Ongoing capability for approximately 1,324 ponds.*				
ACHD-6—Support county-wide initiatives identified in Volume 1.			•	ACHD-2
Comment: *Ongoing capability.*				
ACHD-7—Continue to support the implementation, monitoring, maintenance, and updating of the Plan as defined in Volume 1.			•	ACHD-3
Comment: *Ongoing capability.*				
ACHD-8—Survey Boise River bridge structures and compare to 100 year flood water surface elevation.			•	ACHD-10
Comment: *No progress.*				
ACHD-9—Eckert Road Bridges #2147 and #2148 replacement over the Boise River.			•	ACHD-11
Comment: *Ongoing capability.*				
ACHD-10—Fairview Avenue Bridges #2196 and #2197 replacement over the Boise River.			•	ACHD-12
Comment: *In progress.*				
ACHD-11—Linder Road Bridges #1078, #2035, and #2036 replacement over the Boise River.			•	ACHD-13
Comment: *No progress.*				
ACHD-12—Relocate ACHD Traffic Management Center to a new location (to be decided) outside of floodplain**.**			•	ACHD-14
Comment: *In progress.*				
ACHD-13—Gowen Road Bridge #2173 over the New York Canal.	•			
Comment: *Completed*				
ACHD-14—Develop and implement more Green Stormwater Infrastructure standards to stabilize slopes and drainage facilities and prevent erosion.			•	ACHD-15
Comment: *Ongoing capability.*				
Actions added and completed during the previous plan maintenance period				
ACHD-15—Capitol Boulevard Bridge #2202 Scour Repair - Post 2017 Flood Add Rip Rap against 2 bridge piers	•			
Comment: *Completed*				
ACHD-16—Fairview Avenue Bridge #2197 Scour Repair- Post 2017 Flood Add Rip Rap against 2 bridge piers	•			
Comment: *Completed*				
ACHD-17—East Park Center Bridge #2208 Scour Repair - Post 2017 Flood Add Rip Rap against easterly riverbank	•			
Comment: *Completed*				
ACHD-18—Linder Rd Bridge #2036 over North Channel of Boise River: Scour Repair Add Rip Rap around pier #3	•			
Comment: *Completed*				

Action Item from Previous Plan	Completed	Removed; No Longer Feasible	Carried Over to Plan Update: Check if Yes	Carried Over to Plan Update: Action # in Update
ACHD-19—Swan Falls Bridge #2094 over Indian Creek: Scour Repair Add Rip Rap around all piers	•			
Comment: *Completed*				
ACHD-20—Americana Blvd Bridge #2200 over the Boise River: Scour Repair Add Rip Rap around pier #1	•			
Comment: *Completed*				
ACHD-21—Star Road Bridge #2030 over the Boise River: Scour Repair Add Rip Rap around piers #2 and #3, and south abutment.	•			
Comment: *Completed*				

8.8 HAZARD MITIGATION ACTION PLAN

Table 8-11 lists the actions that make up the hazard mitigation action plan for this jurisdiction. Table 8-12 identifies the priority for each action. Table 8-13 summarizes the mitigation actions by hazard of concern and mitigation type.

Table 8-11. Hazard Mitigation Action Plan Matrix

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline[a]
Action ACHD-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: Flood, Severe Weather						
Existing	1, 2, 3, 9, 10	ACHD		High	HMGP, BRIC, FMA	Short-term
Action ACHD-2— Support county-wide initiatives identified in Volume 1.						
Hazards Mitigated: All hazards						
New & Existing	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	ACHD		Low	ACHD Funds, Staff Time	Short Term
Action ACHD-3—Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan.						
Hazards Mitigated: All hazards						
New & Existing	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	ACHD		Low	ACHD Funds, Staff Time	Short Term
Action ACHD-4— Prevent Pintail/Drake/Widgeon flooding by tree removal or annual root pruning to clear roots growing into the lines.						
Hazards Mitigated: Flood, Severe Weather						
Existing	2, 3, 9	ACHD	Drainage District 4	Low	ACHD Funds	Short-term
Action ACHD-5— Partner with the City of Meridian to facilitate the replacement of roadway culverts to include design and construction of crossings on Fivemile, Ninemile, Eightmile and Tenmile Creeks. (Coordinates with City of Meridian Action M-14)						
Hazards Mitigated: Flood, Severe Weather						
Existing	1, 2, 3, 4, 9, 10	ACHD	City of Meridian	High	ACHD Funds, City of Meridian Funds, HMGP, BRIC, FMA	Long-term
Action ACHD-6— Snowflake and Crocus Pipe Realignment						
Hazards Mitigated: Flood, Severe Weather						
Existing	2, 3, 9	ACHD		Low	ACHD Funds	Short-term

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline[a]
Action ACHD-7— Create a Storm Water Utility						
Hazards Mitigated: Flood, Severe Weather, Drought						
New & Existing	1, 2, 3, 4, 5, 6, 9, 10	ACHD	Boise, Meridian, Star, Eagle, Garden City, Kuna, Ada County, and Drainage Districts	High	ACHD Funds, City and County Funds, HMGP, BRIC, FMA	Long-term
Action ACHD-8— Remove sediment from all public street storm water ponds						
Hazards Mitigated: Flood, Severe Weather						
New & Existing	1, 2, 3, 9, 10	ACHD		Medium	ACHD Funds	Short-term
Action ACHD-9— Survey Boise River bridge structures and compare to 100 year flood water surface elevation.						
Hazards Mitigated: Flood, Severe Weather, Dam/Canal Failure						
Existing	2, 3, 10	ACHD		Low	ACHD Funds	Short-term
Action ACHD-10— Eckert Road Bridges #2147 and #2148 replacement over the Boise River.						
Hazards Mitigated: Flood, Severe Weather, Dam/Canal Failure						
Existing	1, 2, 3, 10	ACHD		Medium	ACHD Funds, HMGP, BRIC, FMA	Long-term
Action ACHD-11— Fairview Avenue Bridges #2196 and #2197 replacement over the Boise River.						
Hazards Mitigated: Flood, Severe Weather, Dam/Canal Failure						
Existing	1, 2, 3, 10	ACHD		Medium	ACHD Funds, HMGP, BRIC, FMA	Long-term
Action ACHD-12— Linder Road Bridges #1078, #2035, and #2036 replacement over the Boise River.						
Hazards Mitigated: Flood, Severe Weather, Dam/Canal Failure						
Existing	1, 2, 3, 10	ACHD		Medium	ACHD Funds, HMGP, BRIC, FMA	Long-term
Action ACHD-13— Relocate ACHD Traffic Management Center to a new location (to be decided) outside of floodplain.						
Hazards Mitigated: Flood, Severe Weather, Dam/Canal Failure						
New & Existing	1, 2, 3, 10	ACHD		Medium	ACHD Funds	Short-term
Action ACHD-14— Develop and implement more Green Stormwater Infrastructure standards to stabilize slopes and drainage facilities and prevent erosion.						
Hazards Mitigated: Flood, Landslide, Dam/Canal Failure						
New & Existing	1, 2, 3, 7, 8, 10	ACHD		Low	ACHD Funds	Long-term

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 8-12. 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	10	Low	Low	Yes	No	Yes	High	Low
3	10	High	Medium	Yes	Yes	No	Medium	High
4	3	Medium	Low	Yes	Yes	Yes	Medium	Medium
5	6	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]
6	3	Medium	Low	Yes	Yes	Yes	Medium	Medium
7	8	Low	High	No	Yes	No	Low	Medium
8	5	High	Medium	Yes	No	No	High	Low
9	3	Medium	Low	Yes	Yes	Yes	Medium	Medium
10	4	High	Medium	Yes	Yes	No	Low	High
11	4	High	Medium	Yes	Yes	No	Low	High
12	4	High	High	Yes	Yes	No	Low	High
13	4	High	Low	Yes	Yes	Yes	Medium	High
14	6	Low	Low	Yes	No	Yes	High	Medium

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

Table 8-13. Analysis of Mitigation Actions

Hazard Type	Action Addressing Hazard, by Mitigation Type[a]							
	Prevention	Property Protection	Public Education & Awareness	Natural Resource Protection	Emergency Services	Structural Projects	Climate Resilient	Community Capacity Building[b]
High-Risk Hazards								
Flood	ACHD-14	ACHD-1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14	ACHD-2	ACHD-1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14		ACHD-5, 10, 11, 12, 13	ACHD-1, 5, 9	ACHD-2, 3, 7, 9, 14
Earthquake			ACHD-2					ACHD-2, 3
Severe Weather		ACHD-1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	ACHD-2	ACHD-1, 4, 5, 6, 7, 8, 9, 10, 11, 12		ACHD-5, 10, 11, 12, 13	ACHD-1, 5, 9	ACHD-2, 3, 7, 9
Medium-Risk Hazards								
Landslide	ACHD-14	ACHD-14	ACHD-2	ACHD-14				ACHD-2, 3
Dam/Canal Failure	ACHD-14	ACHD-9, 10, 11, 12, 13, 14	ACHD-2	ACHD-9, 10, 11, 12		ACHD-10, 11, 12, 13	ACHD-1, 5, 9, 10, 11, 12	ACHD-2, 3, 9
Low-Risk Hazards								
Drought		ACHD-7	ACHD-2	ACHD-7				ACHD-2, 3
Wildfire			ACHD-2					ACHD-2, 3
Volcano			ACHD-2					ACHD-2, 3

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

8.9 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.
- **ACHD Integrated Five Year Work Plan—**The work plan was used in the capability assessment and action plan development.

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.

9. EAGLE FIRE PROTECTION DISTRICT

9.1 LOCAL HAZARD MITIGATION PLANNING TEAM

Primary Point of Contact
Tyler Lewis, Fire Chief
1119 E. State St. Suite 240
Eagle, Idaho 83616
Telephone: 208-939-6463
e-mail Address: tlewis@eaglefire.org

Alternate Point of Contact
Theron Hudson, Deputy Chief
1119 E. State St. Suite 240
Eagle, Idaho 83616
Telephone: 208-939-6463
e-mail Address: thudson@eaglefire.org

This annex was developed by the local hazard mitigation planning team, whose members are listed in Table 9-1.

Table 9-1. Local Hazard Mitigation Planning Team Members

Name	Title
Tyler Lewis	Fire Chief
Jamie Vincent	Deputy Chief / Logistics
Scott Buck	Deputy Chief/Fire Marshal
Theron Hudson	Deputy Chief Operations

9.2 JURISDICTION PROFILE

9.2.1 Overview

Eagle Fire Protection District (EFD) provides fire suppression, EMS, hazardous materials mitigation, and rescue services. The District is a mix of urban, rural, interface and wildland areas. The department employs 50 Career personnel who respond to approximately 1500 + calls for service per year. The Eagle Fire Protection District is located in the North East corner of Ada County , South East corner of Gem County and the South West Corner of Boise County. The District provides service to the City of Eagle and unincorporated areas of Ada, Boise, and Gem Counties. The District is bordered by Boise to the South and East, Garden City to the South East, and the Star Joint Fire Protection District to the west.

A three-member Board of Commissioners governs this District and will assume the responsibility for the adoption and implementation of this plan.

The District participates in the Public Protection Class Rating System and currently has a rating of #3.

9.2.2 Service Area

The district serves a population of 35,000 as of 2020. Its service area covers an area of approximately 92 square miles which has a total value of $9,478,723,925.00.

9.2.3 Assets

Table 9-2 summarizes the assets of the District and their value.

Table 9-2. Special Purpose District Assets

Asset	Value
Property	
8.25 acres of land	$2,816,000.00
Equipment	
3 Type 1 Engines	$1,750,000.00
1 85' Quint Platform	$ 900,000.00
1 Heavy Rescue	$ 760,000.00
1 Water Tender	$ 350,000.00
4 Type 6 Engines **8 Command Vehicles** **1 Water Rescue Unit** **1 Dozer D6T with Trailer**	$ 360,000.00 $ 400,000.00 $ 100,000.00 $ 370,000.00
Total:	***$4,990,000.00***
Critical Facilities	
EFD Station # 1	$2,5000,000.00
EFD Station # 2	$ 1,5000,000.00
EFD Station # 3	$1,500,000.00
EFD Admin.	$1,000,000.00
Total:	***$6,500,000.00***

9.3 CURRENT TRENDS

The Eagle Fire Protection District has experienced an average 4.9% annual growth over the last five years. With a 65.1% growth rate since the 2010 census. The District's call volume has averaged 1,500 calls per year during this same time period. The District anticipates an increase in new home construction starts in the future. However, we predict calls for service will increase reaching approximately 3,000 per year by 2021. From Jan. 1, 2021 to July 20, 2021 the district has had 1,582 calls for service and anticipates reaching 3000 calls for service by year's end.

9.4 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. 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 9-3.
- An assessment of fiscal capabilities is presented in Table 9-4.
- An assessment of administrative and technical capabilities is presented in Table 9-5.
- An assessment of education and outreach capabilities is presented in Table 9-6.
- Classifications under various community mitigation programs are presented in Table 9-7.

Table 9-3. Planning and Regulatory Capability

Plan, Study or Program	Date of Most Recent Update	Comment
Ada County Flood Response Plan	December 2018	N/A
Ada County Wildfire Response Plan	August 2018	N/A
2018 International Fire Code	January 2021	Enforce the 2018 as Adopted and amended by the State of Idaho

Table 9-4. Fiscal Capability

Financial Resource	Accessible or Eligible to Use?
Community Development Block Grants	No
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for Specific Purposes	Yes
User Fees for Water, Sewer, Gas or Electric Service	No
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	Yes
Development Impact Fees for Homebuyers or Developers	Yes
Other	No

Table 9-5. Administrative and Technical Capability

Staff/Personnel Resource	Available?
Planners or engineers with knowledge of land development and land management practices	No
Engineers or professionals trained in building or infrastructure construction practices	No
Planners or engineers with an understanding of natural hazards	No
Staff with training in benefit/cost analysis	No
Surveyors	No
Personnel skilled or trained in GIS applications	No
Scientist familiar with natural hazards in local area	No
Emergency manager	No
Grant writers	No
Other	No

Table 9-6. Education and Outreach Capability

Criterion	Response
Do you have a public information officer or communications office?	No
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:*** Links on website to Firewise, National Fire Protection Association, Ada Fire Adapted Communities	Yes
Do you use social media for hazard mitigation education and outreach? ***If yes, briefly describe:*** We use Facebook and Twitter; these sites are linked back to our web page.	Yes
Do you have any citizen 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
Do you have any established warning systems for hazard events? ***If yes, briefly describe:*** Code Red and/ISAWS- Residents may signup to receive emergency notifications and critical community alerts. Both systems are IPAWS enabled and may additionally access that integrated system for public warnings.	Yes

Table 9-7. Community Classifications

	Participating?	Classification	Date Classified
FIPS Code	No	N/A	N/A
DUNS#	Yes	028591592	February 2021
Community Rating System	No	N/A	N/A
Building Code Effectiveness Grading Schedule	No	N/A	N/A
Public Protection	Yes	3/8	10/6/2016
Storm Ready	No	N/A	N/A
Firewise	No	N/A	N/A

9.5 INTEGRATION REVIEW

For hazard mitigation planning, "integration" means that hazard mitigation information is used in other relevant planning mechanisms, such as 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.

9.5.1 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 Wildfire Response Plan**— To provide for the life safety of for responders and the populace. Minimize damage to valued resources and the environment from the adverse effects of Wildfire. Develop community awareness and understanding of the wildfire hazard.
- **Ada County Flood Response Plan**— To prevent injury and loss of life due to flooding and flood related causes. Develop Community awareness and understanding of the flood hazard.

9.5.2 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 plans and programs as identified in the "Existing Integration" section above may reference hazard mapping and data in this hazard mitigation plan.

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.

9.6 RISK ASSESSMENT

9.6.1 Jurisdiction-Specific Natural Hazard Event History

Table 9-8 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 9-8. Past Natural Hazard Events

Type of Event	FEMA Disaster #	Date	Damage Assessment
Wildfire	NA	10/06/2021	$30,000.00
Wildfire	NA	7/30/2020	$30,000.00
Pandemic	DR-4534	1/20/2020	$1,133,757.74
Flooding	DR-4342	3/29-6/15/2017	Countywide: $4,493,792
Record Snow Fall	NA	2/9/2017	$ 10,000.00
Wildland Fire	N/A	5/2/2015	Fire southeast of Avimor above the WWTP
Flood	N/A	2/14/2014	Flooded areas around homes and threatened Beacon Light Road
Wildland Fire	N/A	7/20/2014	North of Spring Valley Ranch threatened wildlife habitat, multiple agency responded
Severe Weather	N/A	9/5/2013	Severe weather storm hit the area. Cause a tree to blow down on an occupied vehicle and two homes being struck by lightning depleting resources
Wildland Fire	N/A	9/5/2013	Wild fire threatening the Jasmine Mine.
Wildland Fire	N/A	8/15/2013	Fire on Spring Creek Road threatened numerous home and power transmission lines, multiple agencies responded
Wildland Fire	N/A	7/16/2013	Numerous homes threatened by wind driven fire, was resource intensive, depleted resources. Multiple agencies responded
Wildland Fire	N/A	7/4/2013	Foothills North of Eagle threatened numerous homes, multiple agencies responded.
Wildland Fire	N/A	8/24/2012	Fire West of Willow Creek road threatening several homes.
Wildland Fire	N/A	7/22/2012	Fire East of Willow Creek road threatening power lines.
Flood	N/A	5/4/2012	Flood threatened numerous home Eagle Island and west of Linder Rd. multiple agency response or several days

9.6.2 Hazard Risk Ranking

Table 9-9 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 district operations. Mitigation actions target hazards with high and medium rankings.

Table 9-9. Hazard Risk Ranking

Rank	Hazard	Risk Ranking Score	Risk Category
1	Flood	54	High
2	Wildfire	36	High
3	Extreme Weather	33	High
4	Earthquake	32	High
5	Dam Failure	18	Medium
6	Landslide	12	Low
7	Drought	6	Low
8	Volcano	6	Low

9.6.3 Jurisdiction-Specific Vulnerabilities

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. No additional jurisdiction-specific issues were identified.

9.7 STATUS OF PREVIOUS PLAN ACTIONS

Table 9-10 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 9-10. Status of Previous Plan Actions

Action Item from Previous Plan	Completed	Removed; No Longer Feasible	Carried Over to Plan Update: Check if Yes	Carried Over to Plan Update: Action # in Update
Action EFD-01—Continue to provide fire safety, fire prevention and Firewise education to neighborhoods, schools and community via web pages, signage and outreach.			•	EFD-4
Comment: *Ongoing. The fire department continually uses Twitter, Facebook, and our web page to post educational messages regarding all hazards.*				
Action EFD-02—Reduce the determined vegetation which can fuel a rapid spreading wildland fire through the means of mechanical mowing of invasive grass and brush in the wildland urban interface			•	EFD-5
Comment: *Ongoing. Reduction of fuels within Avimor PC. The planting of the Forage Kochia was completed site being monitored for new plant growth.*				
Action EFD-03—Partnering with adjoining jurisdictions in purchasing specialized equipment to reduce and eliminate invasive grasses through the means of applying herbicides and replanting of fire resistant native plant species in the wildland urban interface.	✓			
Comment: *Purchased the broadcast spreader and drag chains for replanting grasses in 2018*				

Action Item from Previous Plan	Completed	Removed; No Longer Feasible	Carried Over to Plan Update: Check if Yes	Carried Over to Plan Update: Action # in Update
Action EFD-04—Partnering with adjoining jurisdictions to rehabilitate areas impacted by wildfire for wildlife while sustaining access to recreational trails and to prevent erosion			•	EFD-6
Comment: *Ongoing. Continue to work with partner agency's on this project.*				
Action EFD-05—Partner with Federal agencies to install electronic flow monitoring stations on the North Channel of the Boise River Eagle Rd. Bridge and Dry Creek Dry Creek drainage at Eagle Rd. Bridge.		•		
Comment: *Remove. USGS can provided rapid deployment gauges.*				
Action EFD-06—Host a community wide open house to increase public awareness of all hazards within the Eagle Fire Protection district and response capabilities of the jurisdiction.			•	EFD-7
Comment: *Ongoing. Annually every October the Eagle Fire Department holds an open house. This is done to increase the public's awareness of the hazards in the fire district and what our response capabilities are. Last October we had approximately 600 + people attend our open house.*				
Action EFD-07—Partner with appropriate local authorities to establish right-of-way and construct a roadway that will allow access on to State Hwy 44 from Plaza Dr. to enhance the response capabilities for the Eagle Fire Dept. and Ada County Sheriff's Dept.	✓			
Comment: *Completed in 2021*				
Action EFD-08—Support County wide initiatives identified in Volume 1			•	EFD-3
Comment: *Ongoing.*				
Action EFD-09—Continue to support the implementation, monitoring, maintenance, and updating of the plan, as defined in Volume 1			•	EFD-2
Comment: *Ongoing.*				
Action EFD-10—Meet and coordinate with private organizations, state, federal and other local agencies to develop, conduct and maintain wildfire mitigation projects.			•	EFD-8
Comment: *Ongoing.*				

9.8 HAZARD MITIGATION ACTION PLAN

Table 9-11 lists the actions that make up the hazard mitigation action plan for this jurisdiction. Table 9-12 identifies the priority for each action. Table 9-13 summarizes the mitigation actions by hazard of concern and mitigation type.

Table 9-11. Hazard Mitigation Action Plan Matrix

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline[a]
Action EFD-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: Flood, Wildfire, Earthquake, Extreme Weather, Dam/Canal Failure, Landslide						
Existing	1, 3, 10	Eagle Fire		High	HMGP, BRIC, FMA	Short-term
Action EFD-2—Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan.						
Hazards Mitigated: All hazards						
New & Existing	All	Eagle Fire	EMCR	Low	Staff Time, General Funds	Short-term
Action EFD-3— Support County-wide initiatives identified in Volume 1						
Hazards Mitigated: All hazards						
New & Existing	All	Eagle Fire	EMCR	Low	Staff Time, General Funds	Short-term
Action EFD-4—Continue to provide fire safety, fire prevention and Fire**w**ise education to neighborhoods, schools and community via web pages, signage and outreach.						
Hazards Mitigated: Wildfire						
New & Existing	8, 9	Eagle Fire		Low	District Funds	Short-term
Action EFD-5—Reduce the determined vegetation which can fuel a rapid spreading wildland fire through the means of mechanical mowing of invasive grass and brush in the wildland urban interface						
Hazards Mitigated: Wildfire						
New & Existing	2, 8, 9	Eagle Fire		Medium	BRIC, District Funds	Ongoing
Action EFD-6—Partnering with adjoining jurisdictions to rehabilitate areas impacted by wildfire for wildlife while sustaining access to recreational trails and to prevent erosion.						
Hazards Mitigated: Wildfire, Landslide						
New & Existing	2, 8, 9	Eagle Fire	RCD	Medium	BRIC, District Funds	Long-term
Action EFD-7—Host a community wide open house to increase public awareness of all hazards within the Eagle Fire Protection district and response capabilities of the jurisdiction.						
Hazards Mitigated: Wildfire, Flood, Earthquake, Dam/Canal Failure, Severe Weather, Landslide, Drought, Volcano						
New & Existing	All	Eagle Fire	EMCR	Low	District Funds	Short-term
Action EFD-8— Develop a Joint Emergency Operation Plan with Eagle City, Eagle Sewer District, and Eagle Fire Protection District: This plan is necessary to establish a single, comprehensive framework for the management of domestic incidents. The City of Eagle will lead this all-discipline action, but Eagle Sewer District and Eagle Fire District will aid in planning for all hazards. (Coordinates with City of Eagle Action E- and Eagle Sewer District Action ESD-7)						
Hazards Mitigated: All hazards						
New & Existing	All	City of Eagle	Eagle Sewer District, Eagle Fire District	Medium	City Funds, District Funds, HMGP	Short-term
Action EFD-9— Meet and coordinate with private organizations, state, federal and other local agencies to develop, conduct and maintain wildfire mitigation projects.						
Hazards Mitigated: Wildfire						
New & Existing	1, 6, 9, 10	Eagle Fire	Boise Fire, Private Organizations, Federal, ACCEM	Low	BRIC, District Funds, Private	Ongoing

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline[a]
Action EFD-10— In partnership with Eagle Fire Protection District, Middleton Rural Fire District, and Star 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. (Coordinates with Star Joint Fire Protection District Action SFD-6, City of Eagle Action E-7)						
Hazards Mitigated: Wildfire						
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
Action EFD-11— Establish Strategic Planning process for foothills. (Coordinates with City of Boise Action B-23, North Ada County Fire & Rescue District Action NACFR-12)						
Hazards Mitigated: Wildfire						
Existing	2, 3, 4, 5, 6, 9	Boise Fire Department	Eagle Fire Protection, NACFR	Medium	Rural Fire Assistance Grant, National Fire Plan	Long-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 9-12. 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	10	Low	Low	Yes	No	Yes	High	Low
3	10	High	Medium	Yes	Yes	No	Medium	High
4	2	Medium	Low	Yes	Yes	Yes	High	Low
5	3	High	Medium	Yes	Yes	No	Medium	Medium
6	3	Medium	Medium	Yes	Yes	No	Low	Low
7	10	High	Low	Yes	Yes	Yes	High	Low
8	10	Low	Low	Yes	Yes	Yes	High	Medium
9	4	High	Low	Yes	Yes	No	High	Low
10	7	Medium	Low	Yes	Yes	No	Medium	Medium
11	6	Medium	Medium	Yes	Yes	Yes	High	High

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

Table 9-13. Analysis of Mitigation Actions

Hazard Type	Action Addressing Hazard, by Mitigation Type[a]							
	Prevention	Property Protection	Public Education & Awareness	Natural Resource Protection	Emergency Services	Structural Projects	Climate Resilient	Community Capacity Building[b]
High-Risk Hazards								
Flood	EFD-2, 3	EFD-1, 3	EFD-2, 7	EFD-3, 10				EFD-2, 3, 8
Wildfire	EFD-2, 3, 11	EFD-1, 3, 6	EFD- 4, 7, 9	EFD 3, 5, 6, 11	EFD-3, 7			EFD-2, 3, 6, 8, 9, 10, 11
Extreme Weather	EFD-2, 3	EFD-1, 3	EFD-7		EFD-3			EFD-2, 3, 8
Earthquake	EFD-2, 3	EFD-1, 3	EFD-7					EFD-2, 3, 8
Medium-Risk Hazards								
Dam Failure	EFD-2, 3	EFD-1, 3	EFD-7					EFD-2, 3, 8
Low-Risk Hazards								
Landslide	EFD-2	EFD-1	EFD-7	EFD 6				EFD-2, 3, 6, 8
Drought	EFD-2		EFD-7					EFD-2, 3, 8
Volcano	EFD-2		EFD-7					EFD-2, 3, 8

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

9.9 PUBLIC OUTREACH

Table 9-14 lists public outreach activities for this jurisdiction.

Table 9-14. Local Public Outreach

Local Outreach Activity	Date	Number of People Involved
Posted outreach material to Facebook	8/24/2021	3,722
Posted outreach material to Twitter	8/24/2021	2,476
Posted link to Ada County Multi-Hazard Mitigation Plan: Public Involvement on EFD Website	8/24/2021	N/A

9.10 INFORMATION SOURCES USED FOR THIS ANNEX

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

- **Idaho Code 41-253 Adoption of the International Fire Code, IDAPA 18.01.50**—Adoption of the International Fire Code. The Idaho Surveying & Rating Bureau Protection Class Evaluation. Reviewed during the capability assessment.
- **Ada County Wildfire Response Plan**—Reviewed to assess capability and integration.
- **Ada County Flood Response Plan**—Reviewed to assess capability and 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.

10. EAGLE SEWER DISTRICT

10.1 LOCAL HAZARD MITIGATION PLANNING TEAM

Primary Point of Contact
Neil Jenkins, General Manager
44 N. Palmetto Ave
Eagle, ID 83616
Telephone: 208-939-0132
e-mail Address: njenkins@eaglesewer.org

Alternate Point of Contact
Chris Kossow, Operations Manager
100 S. Urban Gate Ave
Eagle, ID 83616
Telephone: 208-939-0781
e-mail Address: ckossow@eaglesewer.org

This annex was developed by the local hazard mitigation planning team, whose members are listed in Table 10-1.

Table 10-1. Local Hazard Mitigation Planning Team Members

Name	Title
Erv Ballou	Board Chairman
Terry Loftus	Board Member
Neil Jenkins	General Manager
Laura Markham	Administrative Manager
Chris Kossow	Operations Manager

10.2 JURISDICTION PROFILE

10.2.1 Overview

The Eagle Sewer District (District) receives its operating authority from Idaho State Code, Title 42, Chapter 32, Sections 43-3201 to 42-3238. The District was created on December 30, 1963 in response to a need for central sewer service and currently provides service for an area that generally coincides with the City of Eagle's impact area. A five-member elected Board of Directors governs the District. The District's current service area is bounded by Highway 16 on the West, the foothills (Spring Valley development) nearly to the Gem County line north of Homer Road on the North, Highway 26 on the South and Highway 55 and Old Horseshoe Bend Road on the East. This service area essentially mirrors the City of Eagle's impact area.

Eagle Sewer District currently treats wastewater in lagoons and then pumps the treated effluent to the City of Boise's West Boise Water Renewal Facility for further treatment and discharge to the Boise River. For this treatment, the Eagle Sewer District now purchases capacity in the West Boise Water Renewal Facility and pays monthly charges that are based on the amount of flow, organic load, solids load and ammonia load.

Sewer lift stations serve as a central point of collection for gravity sewer lines. The raw sewage is conveyed by gravity to these collection points and the lift stations pressurize and lift the sewage either into other gravity collection lines or push the flow directly to the wastewater treatment plant. The District currently owns thirteen lift stations located on Stillwater, Crestpoint, Eastside, Mace Lift, Lakemoor, Creighton Woods, Ashbury, Fred Meyer, Old Valley, Palmer Lift, Moon Valley, Estrada Village, and Element Skye. Additional lift stations are in the process of planning and design.

The Eagle Sewer District operates almost exclusively on user fees. A small amount is also levied on property taxes to pay for the District's operation and maintenance costs and the property and administrative liability insurance.

The Eagle Sewer District Board assumes responsibility for the adoption of this plan; Eagle Sewer District staff will oversee its implementation.

10.2.2 Service Area

The district serves a population of 27,500 as of 2021. Its service area covers an area of 44 square miles, which has a total market value (including occupancy rolls) of $6,428,579,713.

10.2.3 Assets

Table 10-2 summarizes the assets of the District and their value.

Table 10-2. Special Purpose District Assets

Asset	Value
Property	
103.25 acres of land	$8,500,000
Equipment	
Approximately 189 miles of pipe throughout the District	$99,792,000
Generators for critical lift stations (12)	$600,000
Emergency Trailer- Mounted Generator	$50,000
Effluent Transmission Line	$11,000,000
Emergency Trailer-Mounted Pump	$75,000
Operations and Maintenance Equipment and Vehicles	$900,000
Total:	***$120,917,000***
Critical Facilities	
District Administration Office	$900,000
Wastewater Treatment Facility	$15,000,000
Blower Building	$2,000,000
Operations Building	$2,000,000
Stillwater Lift Station	$500,000
Eastside Lift Station	$350,000
Fred Meyer Lift Station	$500,000
Mace Lift Station	$2,000,000
Old Valley Lift Station	$7,000,000
Ashbury Lift Station	$350,000
Lakemoor Lift Station	$500,000

Asset	Value
Palmer Lift Station	$5,000,000
Crestpoint Lift Station	$550,000
Creighton Woods Lift Station	$550,000
Moon Valley Lift Station	$500,000
Estrada Village Lift Station	$500,000
Element Skye Lift Station	$575,000
Total:	***$38,775,000***

10.3 CURRENT TRENDS

Population trends used to estimate future population of the Eagle Sewer District service area can be approximated by utilizing existing population studies completed for the City of Eagle. From 1990 to 2007, the City of Eagle experienced a six-fold increase in population, but from 2008 to 2013 the local residential housing market experienced a significant downturn. In recent years, the housing market has increased significantly and the District has noted an increase in the number of new customers. According to COMPASS, the population of the City of Eagle as of April 2021 was 34,470. Since 2011, the population has grown at an average annual rate of 4.2 percent.

10.4 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 10-3.
- An assessment of fiscal capabilities is presented in Table 10-4.
- An assessment of administrative and technical capabilities is presented in Table 10-5.
- An assessment of education and outreach capabilities is presented in Table 10-6.
- Classifications under various community mitigation programs are presented in Table 10-7.

Table 10-3. Planning and Regulatory Capability

Plan, Study or Program	Date of Most Recent Update	Comment
Clean Water Act	1972	
Endangered Species Act	1973	
Idaho Department of Environmental Quality	N/A	
U.S. Environmental Protection Agency	N/A	
Idaho Administrative Code	N/A	
Idaho Administrative Procedure Act	N/A	
Wastewater Treatment and Facilities Plan	2016	A facilities plan update is planned for 2023.
Collection System Master Plan	2016	A master plan update is planned for 2023.
Capital Improvement Program	Updated annually	
Idaho Statewide Implementation Plan	N/A	
All other applicable laws, ordinances, codes and policies enforced by federal, state and local authorities with a sphere of influence over the District's service area.	N/A	

Table 10-4. 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 **If yes, specify:** Sewer fees	Yes
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	Yes
Development Impact Fees for Homebuyers or Developers	Yes
Other ***If yes, specify:*** LID, CID	Yes

Table 10-5. Administrative and Technical Capability

Staff/Personnel Resource	Available?
Planners or engineers with knowledge of land development and land management practices ***If Yes, Department /Position:*** Contract engineer	Yes
Engineers or professionals trained in building or infrastructure construction practices ***If Yes, Department /Position:*** Contract engineer	Yes
Planners or engineers with an understanding of natural hazards ***If Yes, Department /Position:*** Contract engineer	Yes
Staff with training in benefit/cost analysis ***If Yes, Department /Position:*** Contract engineer	Yes
Surveyors ***If Yes, Department /Position:*** Contract surveyors	Yes

Staff/Personnel Resource	Available?
Personnel skilled or trained in GIS applications ***If Yes, Department /Position:*** Eagle Sewer Staff	Yes
Scientist familiar with natural hazards in local area ***If Yes, Department /Position:*** Contract scientist	Yes
Emergency manager ***If Yes, Department /Position:*** Ada County Emergency Management & Community Resilience (EMCR)	Yes
Grant writers ***If Yes, Department /Position:*** Ability to contract for service	Yes

Table 10-6. Education and Outreach Capability

Criterion	Response
Do you have a public information officer or communications office?	Yes
Do you have personnel skilled or trained in website development?	Yes
Do you have hazard mitigation information available on your website? ***If yes, briefly describe:***	No
Do you use social media for hazard mitigation education and outreach? ***If yes, briefly describe:***	No
Do you have any citizen boards or commissions that address issues related to hazard mitigation? ***If yes, briefly describe:*** Eagle Sewer District Board	Yes
Do you have any other programs in place that could be used to communicate hazard-related information? ***If yes, briefly describe:***	No
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 critical community alerts. Both systems are IPAWS enabled and may additionally access that integrated system for public warnings.	Yes

Table 10-7. Community Classifications

	Participating	Classification	Date Classified
FIPS Code	N/A	N/A	N/A
DUNS#	Yes	036695878	N/A
Community Rating System	N/A	N/A	N/A
Building Code Effectiveness Grading Schedule	N/A	N/A	N/A
Public Protection	N/A	N/A	N/A
Storm Ready	Yes	Participant	N/A
Firewise	No	No	N/A

10.5 INTEGRATION REVIEW

For hazard mitigation planning, "integration" means that hazard mitigation information is used in other relevant planning mechanisms, such as 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. 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.

10.5.1 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 Eagle Comprehensive Plan—**The 2017 Eagle Comprehensive Plan includes mitigation related policies as they relate to the protection of human life and property from flood events.
- **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.

10.5.2 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:

- **Eagle City, Eagle Sewer District, and Eagle Fire District Joint Emergency Operation Plan (EOP)—**This joint plan has not yet been developed but will consider the natural and human-caused hazards in this HMP when developing strategies for emergency operations.
- **Eagle Sewer District Continuity of Operation Plan (COOP)—**This plan has not yet been developed but will consider the natural and human-caused hazards in this HMP when developing strategies for 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.

10.6 RISK ASSESSMENT

10.6.1 Jurisdiction-Specific Natural Hazard Event History

Table 10-8 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.

10.6.2 Hazard Risk Ranking

Table 10-9 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 district operations. Mitigation actions target hazards with high and medium rankings. The risk ranking score corresponds to that of the City of Eagle.

Table 10-8. Past Natural Hazard Events

Type of Event	FEMA Disaster #	Date	Damage Assessment
COVID-19 Pandemic	DR-4534	January 20, 2020 and continuing	$25,000+ Lost productivity from employees out sick or getting tested.
Flooding	DR-4342	March 29 – June 15, 2017	$50,000 Groundwater dewatering during construction project.
Wildfire (foothills)	N/A	7/28/2010	-
Flooding	N/A	6/2-4/1998	-
Flooding	N/A	5/15-28/1998	-
Flooding	N/A	9/11/1997	-
Flooding	DR-1154	1/11/1997	-
Severe Weather	N/A	12/1/1994	-
Flash Flooding	N/A	6/25/1992	-
Drought	N/A	3/1/1992	-
Flooding	N/A	1/12/1991	-
Severe Weather	N/A	2/4/1989	-
Severe Weather	N/A	12/19/1988	-
Drought	N/A	10/31/1988	-
Flooding	N/A	2/1986	-
Flooding	N/A	6/10/1983	-

Table 10-9. 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

10.6.3 Jurisdiction-Specific Vulnerabilities

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. 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:

- Lagoon berm integrity may be compromised in the event of a flood. This could include a pit capture event in the borrow pond(s) adjacent to the lagoons.
- Access to Mace Lift Station and Old Valley Lift Station may be limited in the event of a flood
- Nearly half of the service area is served by a pipeline 0.5 miles long located in the floodway near the WWTP. Another 0.5 miles of the same pipeline is in the floodplain. This line is especially vulnerable to being washed away or overwhelmed in a flooding event.

- Severe weather/climate change – high temperatures affect blower building equipment electronics, specifically in the blower equipment that was designed based on building codes at the time of construction. Recent weather has been hotter than design criteria which puts these systems at risk.
- Portions of the collection system are at elevations and locations close to the Boise River. In the 100-year flood, or higher, parts of the system are submerged, and floodwaters enter the collection system overwhelming the pump stations and compromising the critical pumping and treatment facilities. Severe weather/drought/climate change - brownouts/blackouts might cause interruption of electricity to the WWTP stopping treatment and resulting in uncontrolled sewer overflows to the Boise River and on streets.
- Lift stations, WWTP, manholes, pipelines, etc. are vulnerable to earthquakes that could break or separate pipelines, interrupt power supplies, and damage building housing process equipment.
- Sewer infrastructure on the bench and in Spring Valley is vulnerable to landslides based on its location in and near hillsides and slopes.
- The Spring Valley WWTP is vulnerable to wildfire because of its location in the foothills. Even if the WWTP itself was not impacted, smoke and access could inhibit operation of this critical infrastructure. Wildfire could also reduce lift station function.

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

10.7 STATUS OF PREVIOUS PLAN ACTIONS

Table 10-10 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 10-10. Status of Previous Plan Actions

Action Item from Previous Plan	Completed	Removed; No Longer Feasible	Carried Over to Plan Update	
			Check if Yes	Action # in Update
ESD-1—Lagoon Berm Evaluation and Stabilization: High flow velocities during flooding events could potentially cause erosion at the toe of the lagoon berms and, although unlikely, possibly cause structural failure. Perform hydraulic modeling of the river channel and estimate potential for erosion of the lagoon berm. If deemed necessary, the placement of rip-rap and/or other measures would be pursued to reduce lagoon dike erosion.	✓			
Comment: *Project completed in 2021 to armor the lagoons and place rip-rap to direct river away from the lagoons.*				
ESD-2—Raise Portions of the Wastewater Treatment Plant, Mace Lift Station, and Old Valley Lift Station access roads: Portions of the road leading to these facilities are below the 100-year and 500-year flood elevations. To ensure that District staff can access wastewater treatment and operation facilities during a flooding event, low sections of access roads should be raised.			A.	ESD-5
Comment: *In progress. The WWTP road was raised in 2021. The Mace and Old Valley lift station access roads still need to be raised.*				
ESD-3—Control Building and Outbuilding Berm Option: To protect the Operations and several outbuilding at the wastewater treatment site against possible flooding, a small berm might be constructed around the perimeter of this area.	✓			
Comment: *Project completed in 2021.*				

Action Item from Previous Plan	Completed	Removed; No Longer Feasible	Carried Over to Plan Update: Check if Yes	Carried Over to Plan Update: Action # in Update
ESD-4—Develop a Joint Emergency Operation Plan with Eagle City and Eagle Fire District: This plan is necessary to establish a single, comprehensive framework for the management of domestic incidents. The City of Eagle will lead this all-discipline action, but Eagle Sewer District will aid in planning for all hazards.			B.	ESD-7
Comment: *No progress. A plan was developed several years ago, however this plan has not been updated since original creation.*				
ESD-5—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.			C.	ESD-8
Comment: *Ongoing. There is a plan, however it needs updated.*				
ESD-6—Support County-wide Initiatives Identified in Volume 1 of the Multi-Hazard Mitigation Plan			D.	ESD-9
Comment: *Ongoing. Continued support and communication.*				
ESD-7—Actively Participate in the Plan Maintenance Protocols Outlined in Volume 1 of the Multi-Hazard Mitigation Plan			E.	ESD-2
Comment: *Ongoing. Continued communication and work with the other agencies.*				

10.8 HAZARD MITIGATION ACTION PLAN

Table 10-11 lists the actions that make up the hazard mitigation action plan for this jurisdiction. Table 10-12 identifies the priority for each action. Table 10-13 summarizes the mitigation actions by hazard of concern and mitigation type.

Table 10-11. Hazard Mitigation Action Plan Matrix

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline[a]
Action ESD-1—Support retrofitting, purchase or relocation of structures located in hazard areas, prioritizing those that have experienced repetitive losses and/or are located in medium-risk hazard areas.						
Hazards Mitigated: Flood, Severe Weather, Dam/Canal Failure						
Existing	1,3,10	Eagle Sewer District	N/A	High	HMGP, BRIC, FMA	Short-term
Action ESD-2—Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan.						
Hazards Mitigated: All Hazards						
New and Existing	All	Eagle Sewer District	Ada County	Low	District Funds, HMGP	Short-term
Action ESD-3— Purchase generators for critical facilities and infrastructure that lack adequate backup power. This may include solar generation capacity and battery systems for pumping and treatment facilities.						
Hazards Mitigated: Flood, Severe Weather, Wildfire, Dam/Canal Failure, Earthquake						
New and Existing	1,3,10	Eagle Sewer District	N/A	Medium	District Funds, HMGP, BRIC, FMA	Short-term

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline[a]
Action ESD-4— Relocate the collection system pipeline that serves nearly half the service area and is located in the floodway/floodplain to outside these hazard zones.						
Hazards Mitigated: Flood, Severe Weather, Dam/Canal Failure						
Existing	1,2,10	Eagle Sewer District	N/A	High	District Funds, HMGP, BRIC, FMA	Short-Term
Action ESD-5—Raise Portions of the Mace Lift Station and Old valley Lift Station access roads: Portions of the road leading to these facilities are below the 100-year and 500-year flood elevations. To ensure that District staff can access facilities during a flooding event, low sections of access roads should be raised.						
Hazards Mitigated: Flood, Severe Weather, Dam/Canal Failure						
Existing	1, 10	Eagle Sewer District	N/A	Low	District Funds, HMGP, FMA	Short-term
Action ESD-6—Protect critical electronics in WWTP blowers susceptible to higher than design temperatures by air conditioning the blower room. Also protect lift station pumping system controls by air conditioning control rooms.						
Hazards Mitigated: Severe Weather						
Existing	1,10	Eagle Sewer District	N/A	Low	District Funds, HMGP, BRIC	Short-term
Action ESD-7— Develop a Joint Emergency Operation Plan with Eagle City, Eagle Sewer District, and Eagle Fire Protection District: This plan is necessary to establish a single, comprehensive framework for the management of domestic incidents. The City of Eagle will lead this all-discipline action, but Eagle Sewer District and Eagle Fire District will aid in planning for all hazards. (Coordinates with City of Eagle Action E-9 and Eagle Fire Protection District EFD-8)						
Hazards Mitigated: All Hazards						
New and Existing	All	City of Eagle	Eagle Sewer District, Eagle Fire District	Medium	City Funds, District Funds, HMGP	Short-term
Action ESD-8—Update the Continuity of Operations 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.						
Hazards Mitigated: All Hazards						
New and Existing	All	Eagle Sewer District	N/A	Medium	District Funds, HMGP	Short-term
Action ESD-9—Support County-wide Initiatives Identified in Volume 1 of the Multi-Hazard Mitigation Plan						
Hazards Mitigated: All Hazards						
New and Existing	All	Eagle Sewer District	N/A	Medium	District Funds, HMGP, BRIC, FMA	Short-term
Action ESD-10—Convert the borrow pit ponds between the Boise River and the wastewater lagoons into wetlands. This action will reduce the risk of pit capture in a flood or dam failure event. The wetlands will also create habitat for wildlife and native black cottonwood. The removal of the heat-collecting ponds and addition of a wetland will mitigate temperature effects in the river improving habitat for aquatic species.						
Hazards Mitigated: Flood, Dam/Canal Failure, Severe Weather						
New and Existing	1,3,10	Eagle Sewer District	Army Corps, City of Boise	Medium	District Funds. HMGP, FMA	Short-term

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 10-12. 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]
ESD-1	3	High	High	Yes	Yes	No	Medium	High
ESD-2	10	Low	Low	Yes	No	Yes	High	Low
ESD-3	3	High	Medium	Yes	Yes	No	Medium	High
ESD-4	3	Medium	Medium	Yes	Yes	No	Medium	Medium
ESD-5	2	Medium	Medium	Yes	Yes	No	Medium	Medium
ESD-6	2	Medium	Medium	Yes	Yes	No	Medium	Medium
ESD-7	10	Low	Low	Yes	Yes	Yes	High	Medium
ESD-8	10	Low	Low	Yes	Yes	Yes	High	Medium
ESD-9	10	Low	Low	Yes	No	Yes	High	Low
ESD-10	3	Medium	Medium	Yes	Yes	No	Medium	Medium

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

Table 10-13. Analysis of Mitigation Actions

Hazard Type	Action Addressing Hazard, by Mitigation Type[a]							
	Prevention	Property Protection	Public Education & Awareness	Natural Resource Protection	Emergency Services	Structural Projects	Climate Resilient	Community Capacity Building[b]
High-Risk Hazards								
Extreme Weather		ESD-1, 4, 5, 6	ESD-2	ESD-10	ESD-3	ESD-10	ESD-10	ESD-2, 7, 8, 9
Medium-Risk Hazards								
Flood		ESD-1, 4, 5	ESD-2	ESD-10	ESD-3	ESD-10	ESD-10	ESD-2, 7, 8, 9
Wildfire			ESD-2		ESD-3			ESD-2, 7, 8, 9
Dam/Canal Failure		ESD-1, 4, 5	ESD-2	ESD-10	ESD-3	ESD-10	ESD-10	ESD-2, 7, 8, 9
Earthquake			ESD-2		ESD-3			ESD-2, 7, 8, 9
Low-Risk Hazards								
Landslide			ESD-2					ESD-2, 7, 8, 9
Drought			ESD-2					ESD-2, 7, 8, 9
Volcano			ESD-2					ESD-2, 7, 8, 9

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

10.9 PUBLIC OUTREACH

Table 10-14 lists public outreach activities for this jurisdiction.

Table 10-14. Local Public Outreach

Local Outreach Activity	Date	Number of People Involved
Eagle Sewer District Board Meeting	Monthly	Varies
Eagle Sewer District Website and Comment Box	Ongoing	Varies

10.10 INFORMATION SOURCES USED FOR THIS ANNEX

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

- **Eagle Sewer District Wastewater Treatment and Collection Systems Plan, 2016**—Used in the capabilities assessment and action plan. Describes District assets and critical infrastructure.
- **Eagle Sewer District Annual Audit, 2021—**Used in the capabilities assessment. Provides information on District assets.

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.

10.11 FUTURE NEEDS TO BETTER UNDERSTAND RISK/VULNERABILITY

As the climate in this part of Idaho continues to change with warmer winters and hotter summers, additional planning is necessary to protect critical infrastructure.

11. EAGLE URBAN RENEWAL AGENCY

11.1 LOCAL HAZARD MITIGATION PLANNING TEAM

Primary Point of Contact
Ashley Squyres, Administrator
Mailing Address: 104 East Fairview Ave, #239
Meridian, ID 83642
Telephone: 208-830-7786
e-mail: meridiandevelopmentcorp@gmail.com

Alternate Point of Contact
Michael Williams, CFM, Floodplain Administrator/Planner III
660 East Civic Lane
Eagle, Idaho 83616
Telephone: 208-489-8774
e-mail Address: mwilliams@cityofeagle.org

This annex was developed by the local hazard mitigation planning team, whose members are listed in Table 11-1.

Table 11-1. Local Hazard Mitigation Planning Team Members

Name	Title
Ashley Squyres	Administrator
Michael Williams	Floodplain Administrator/Planner III

11.2 JURISDICTION PROFILE

11.2.1 Overview

The Eagle Urban Renewal Agency (EURA) is an independent public redevelopment agency created in 2006 to promote community and economic development. The Eagle Urban Renewal Agency operates under Idaho Code in accordance with Idaho Urban Renewal Law and the Local Economic Development Act. The Agency's purpose is to undertake the rehabilitation, conservation, development or redevelopment of areas identified within the Eagle Urban Renewal Plan.

In Eagle, the Eagle Urban Renewal Agency uses redevelopment to address sites within the district boundaries that have deteriorated, are underutilized or vacant and need assistance to become viable again. To accomplish urban renewal, EURA forms partnerships with private entities and uses tax increment financing (TIF), a tool available only to redevelopment agencies, to breathe new life into those areas. As a result, the entire community benefits from the creation of new businesses, jobs and tax revenues.

The mission of the agency is to promote sustainable economic growth, vitality, and community enhancement through collaboration and community investment, and to encourage revitalization and rehabilitation throughout the urban renewal district. To accomplish its mission, the agency works in close partnership with the Mayor, City Council, and a variety of public entities as well as downtown and neighborhood groups.

The agency has nine commissioners made up of one City Council member and eight at-large citizens.

The Eagle Urban Renewal Agency Board assumes responsibility for the adoption of this plan; the city of Eagle will oversee its implementation.

11.2.2 Service Area

The District service area is all located withing the City of Eagle city limits. The district takes in about 31 square miles and serves a population of 34,470.

11.2.3 Assets

The District does not own property, equipment, or critical facilities.

11.3 CURRENT TRENDS

At this time, each of our TIF districts are redeveloping and growing.

11.4 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 11-2.
- An assessment of fiscal capabilities is presented in Table 11-3.
- An assessment of administrative and technical capabilities is presented in Table 11-4.
- An assessment of education and outreach capabilities is presented in Table 11-5.
- Classifications under various community mitigation programs are presented in Table 11-6.

Table 11-2. Planning and Regulatory Capability

Plan, Study or Program	Date of Most Recent Update	Comment
Idaho Urban Renewal Law in Title 50, Chapter 20, Idaho Code		
Local Economic Development Act, Title 50, Chapter 29, Idaho Code		
City of Eagle Comprehensive Plan: Economic Development Chapter	11/15/2017	

Table 11-3. Fiscal Capability

Financial Resource	Accessible or Eligible to Use?
Community Development Block Grants	Yes
Capital Improvements Project Funding	Yes, through TIF financing
Authority to Levy Taxes for Specific Purposes	This is what TIF financing is for - urban renewal
User Fees for Water, Sewer, Gas or Electric Service	No
Incur Debt through General Obligation Bonds	Available, but the board chooses not to bond.
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	Yes
Development Impact Fees for Homebuyers or Developers	No
Other	No
If yes, specify:	

Table 11-4. Administrative and Technical Capability

Staff/Personnel Resource	Available?
Planners or engineers with knowledge of land development and land management practices ***If Yes, Department /Position:*** Ashley Squyres	Yes
Engineers or professionals trained in building or infrastructure construction practices ***If Yes, Department /Position:*** City Engineer available as needed on a contracted basis	Yes
Planners or engineers with an understanding of natural hazards ***If Yes, Department /Position:*** Ashley Squyres, Michael Williams	Yes
Staff with training in benefit/cost analysis ***If Yes, Department /Position:*** Ashley Squyres	Yes
Surveyors ***If Yes, Department /Position:*** Contracted as needed	Yes
Personnel skilled or trained in GIS applications ***If Yes, Department /Position:*** City GIS available as needed	No
Scientist familiar with natural hazards in local area ***If Yes, Department /Position:*** Contracted as needed	No
Emergency manager ***If Yes, Department /Position:***	No
Grant writers ***If Yes, Department /Position:*** Ashley Squyres	Yes
Other ***If Yes, Department /Position:***	No

Table 11-5. Education and Outreach Capability

Criterion	Response
Do you have a public information officer or communications office?	Yes
Do you have personnel skilled or trained in website development?	Yes
Do you have hazard mitigation information available on your website? ***If yes, briefly describe:***	No

Criterion	Response
Do you use social media for hazard mitigation education and outreach? ***If yes, briefly describe:***	No
Do you have any citizen boards or commissions that address issues related to hazard mitigation? ***If yes, briefly describe:***	No
Do you have any other programs in place that could be used to communicate hazard-related information? ***If yes, briefly describe:***	No
Do you have any established warning systems for hazard events? ***If yes, briefly describe:***	No

Table 11-6. Community Classifications

	Participating?	Classification	Date Classified
FIPS Code	N/A	N/A	N/A
DUNS#	Yes	024950599	N/A
Community Rating System	N/A	N/A	N/A
Building Code Effectiveness Grading Schedule	N/A	N/A	N/A
Public Protection	N/A	N/A	N/A
Storm Ready	N/A	N/A	N/A
Firewise	N/A	N/A	N/A

11.5 INTEGRATION REVIEW

For hazard mitigation planning, "integration" means that hazard mitigation information is used in other relevant planning mechanisms, such as 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.

11.5.1 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 Eagle Comprehensive Plan: Economic Development Chapter** —Land planning and land availability analysis in conjunction with hazard mapping in the HMP

11.5.2 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:

- **City of Eagle Comprehensive Plan: Economic Development Chapter** —Update land planning and land availability reviews after considering revised hazard mapping in this hazard mitigation plan update.

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.

11.6 RISK ASSESSMENT

11.6.1 Jurisdiction-Specific Natural Hazard Event History

Table 11-7 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 11-7. 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

11.6.2 Hazard Risk Ranking

Table 11-8 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 district operations. Mitigation actions target hazards with high and medium rankings.

Table 11-8. 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

11.6.3 Jurisdiction-Specific Vulnerabilities

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. 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:

- Special flood hazard areas exist within the EURA boundaries.

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

11.7 HAZARD MITIGATION ACTION PLAN

Table 11-9 lists the actions that make up the hazard mitigation action plan for this jurisdiction. Table 11-10 identifies the priority for each action. Table 11-11 summarizes the mitigation actions by hazard of concern and mitigation type.

Table 11-9. Hazard Mitigation Action Plan Matrix

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline[a]
Action EURA-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:	Extreme Weather, Flood, Wildfire, Dam/Canal Failure, Earthquake, Landslide					
Existing	3, 8, 9	EURA	City of Eagle	High	HMGP, BRIC, FMA	Short-term
Action EURA-2—Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan.						
Hazards Mitigated:	Extreme Weather, Flood, Wildfire, Dam/Canal Failure, Earthquake, Landslide, Drought					
New & Existing	All	EURA		Low	Staff Time, General Funds	Short-term
Action EURA-3— Support county-wide initiatives identified in Volume 1.						
Hazards Mitigated:	Wildfire, Extreme Weather, Flood, Earthquake, Dam/Canal Failure, Landslide, Drought					
Existing	All	EURA		Low	Staff Time, General Funds	Short-term
Action EURA-4— Integrate Hazard Mitigation Plan hazard mapping into district plan updates, as applicable.						
Hazards Mitigated:	Wildfire, Extreme Weather, Flood, Earthquake, Dam/Canal Failure, Landslide					
New & Existing	1, 2, 6	EURA		Low	Staff Time, General Funds	Short-term

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 11-10. 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	3	Low	Low	Yes	No	Yes	High	Low
3	10	Low	Low	Yes	No	Yes	High	Low
4	3	Low	Low	Yes	No	Yes	High	Low

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

Table 11-11. Analysis of Mitigation Actions

Hazard Type	Action Addressing Hazard, by Mitigation Type[a]							
	Prevention	Property Protection	Public Education & Awareness	Natural Resource Protection	Emergency Services	Structural Projects	Climate Resilient	Community Capacity Building[b]
High-Risk Hazards								
Extreme Weather		EURA-1	EURA-2					EURA-2, 3, 4
Medium-Risk Hazards								
Flood		EURA-1	EURA-2					EURA-2, 3, 4
Wildfire		EURA-1	EURA-2					EURA-2, 3, 4
Dam/Canal Failure		EURA-1	EURA-2					EURA-2, 3, 4
Earthquake		EURA-1	EURA-2					EURA-2, 3, 4
Low-Risk Hazards								
Landslide		EURA-1	EURA-2					EURA-2, 3, 4
Drought			EURA-2					EURA-2, 3
Volcano			EURA-2					EURA-2, 3

a. See the introduction to this volume for explanation of mitigation types.
b. Based on current community capacity, this jurisdiction did not identify a need for expansion of administrative and technical capabilities. 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.

11.8 INFORMATION SOURCES USED FOR THIS ANNEX

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

- **City of Eagle Comprehensive Plan: Economic Development Chapter**—The chapter was reviewed for plan objectives correlating to hazard mitigation, for the capability assessment, and for identifying opportunities for action plan development.

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.

12. FLOOD CONTROL DISTRICT #10

12.1 LOCAL HAZARD MITIGATION PLANNING TEAM

Primary Point of Contact
Mike Dimmick, District Manager
8941 W. Duck Lake Dr.
Garden City, ID 83714
Telephone: 208-861-2766
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Alternate Point of Contact
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This annex was developed by the local hazard mitigation planning team, whose members are listed in Table 12-1.

Table 12-1. Local Hazard Mitigation Planning Team Members

Name	Title
Mike Dimmick	District Manager

12.2 JURISDICTION PROFILE

12.2.1 Overview

Boise River Flood Control District No. 10 is responsible for working to minimize flood damage and to protect and promote the health, safety and general welfare (Idaho Code Section 42-3102). The District was organized on October 13, 1970 through an Order by the Director of the State of Idaho, Department of Water Administration (Idaho Department of Water Resources). The District was formed to "provide control of the Boise River and its tributaries in the affected area to protect life and property, preserve the public health and welfare and conserve and develop natural resources of the State of Idaho" (Order Creating Flood Control District No. 10 of Idaho) as they relate to potential flooding in Ada and Canyon Counties within the District's boundaries. State law provides the District with statutory authority and responsibility to operate and maintain structural works of improvement for the prevention of floodwater and sediment damages, and to exercise all other powers necessary, convenient or incidental to carry out the provisions of the Flood Control District Act (Idaho Code sections 42-3101—42-3128).

Flood Control District No. 10 has observed continued rapid development along the Boise River within the jurisdictional boundaries. The District believes that land use changes significantly affect flood plain conveyance and storage, affecting individual sites and reaches above and below these sites. Development in the flood plain, combined with lack of channel forming flow events, sediment erosion and deposition, and the growth of gravel bars and associated vegetation, reduces the conveyance capacity of the Boise River, causes channel migration and increasing flooding risk. The District is also concerned that gravel pits developed adjacent to the banks of the river may be captured by the river during high flows, threatening both public and private facilities. The most

pressing issue facing the District in the future, minimizing flood impacts in the face of rapid growth requires river maintenance and protection of unimpeded access to the river, which will allow the District to continue normal maintenance activities, and effective planning for the Rivet corridor.

Historically, the District has had greater latitude to conduct responsibilities under the law and to maintain channel capacity. Flood Control District No. 10's channel maintenance activities have become progressively more difficult to accomplish due to interpretations of regulations that vary over time and increasing concerns about environmental impacts. These factors combine to increase future flooding risks and damages for the residents within the boundaries of the District and impair the District's ability to carry out responsibilities under the law.

The District is governed by a Board of three Commissioners, appointed by the Idaho Department of Water Resources. The District employs a staff of two; a District Manager and a part time Assistant District Manager. Revenues are generated through taxation collected on assessments on real property within the District.

The geographical extents of the District generally are along the Boise River and a portion of Dry Creek. Along the Boise River, the District is bounded by Chinden Blvd (State Highway 20-26) on the South, State Street (State Highway -44) on the North. The downstream limit is River Mile 22 (approximately 1- mile upstream of I-84 river bridges in Caldwell, ID), while the upstream limit is River Mile 49 (approximately 1-½ miles upstream of the Glenwood Bridge). In addition to the Boise River, a three mile long reach of Dry Creek, from the confluence with the Boise River upstream to Beacon Light Road in Eagle is included in the District boundaries.

The Boise River Flood Control District #10 Board assumes responsibility for the adoption of this plan; Boise River Flood Control District #10 will oversee its implementation.

12.2.2 Service Area

The district serves an area of 25,000 acres. The general boundary runs along the Boise River from approximately 50th Street in Garden City, Idaho to the single lane steel bridge just upstream of I-84 in Caldwell, Idaho. This covers the Flood Plain area along approximately 35 river miles.

12.2.3 Assets

Table 12-2 summarizes the assets of the District and their value.

Table 12-2. Special Purpose District Assets

Asset	Value
Property	
0 acres of land	N/A
Equipment	
9' raft	$900
Office equipment (computer/iPhone/printer)	$1,800
Total:	***$2,700***
Total:	***$0***

12.3 CURRENT TRENDS

Flood Control District No. 10 has observed continued rapid development along the Boise River within the jurisdictional boundaries. The District believes that land use changes significantly affect flood plain conveyance and storage, affecting individual sites and reaches above and below these sites. Development in the flood plain, combined with lack of channel forming flow events, sediment erosion and deposition, and the growth of gravel bars and associated vegetation, has reduced the conveyance capacity of the Boise River and increases flooding risks. The District is also concerned that gravel pits developed adjacent to the banks of the river may be captured by the river during high flows, threatening both public and private facilities. The most pressing issue facing the District in the future, minimizing flood impacts in the face of rapid growth, requires river maintenance and protection of unimpeded District access to the river, which will allow the District to continue normal maintenance activities, and effective planning for the river corridor.

Home sites and businesses along both the Boise River and Dry Creek continue to command a premium in the marketplace. Current population within the District is growing at approximately 15-percent per year. As the economy begins to stabilize, population trends within the District are anticipated to level off to an annualized growth rate of eight to ten percent per year. Real estate values have increased by over 30% causing a considerable increase in Values-at-Risk which in turn affects damage costs and emphasizes the importance of preventive mitigation efforts.

12.4 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 12-3.
- An assessment of fiscal capabilities is presented in Table 12-4.
- An assessment of administrative and technical capabilities is presented in Table 12-5.
- An assessment of education and outreach capabilities is presented in Table 12-6.
- Classifications under various community mitigation programs are presented in Table 12-7.

Table 12-3. Planning and Regulatory Capability

Plan, Study or Program	Date of Most Recent Update	Comment
State of Idaho, Stream Channel Alteration Permit	2019	Permit No. S82-20069 Permit No. S82-20080 Permit No. S82-20091
US EPA, Clean Water Act, Section 404, Administered by the U.S. Army Corps of Engineers	Created 1972	

Plan, Study or Program	Date of Most Recent Update	Comment
US EPA, Clean Water Act, National Pollutant Discharge Elimination System (NPDES)	Created 1972	
Municipal and County Floodplain Ordinances – • **Municipal: Boise, Garden City, Eagle, Meridian, Star, Middleton, Nampa, Caldwell** • **County: Ada and Canyon**	May 12, 2020	City of Boise Ord. 15-20
	June 8, 2020	City of Garden City Ord. 1016-20
	July 23, 2019	City of Eagle Ord. 815
	May 12, 2020	City of Meridian Ord. 20-1879
	May 4, 2021	City of Star Ord. 336
	April 2, 2014	City of Middleton Ord. 531
	April 18, 2011	City of Nampa Ord. 3964
	March 4, 2019	City of Caldwell Ord. 3207
	June 10, 2020	Ada County Ord. 914
	August 30, 2019	Canyon County Ord. 19-038
County Highway Districts—Policy Manuals – • **Ada County Highway District** • **Canyon County Highway District #4**	June 25, 2015	Ada County Highway District
	April 27, 2017	Canyon County Highway District #4
County Hazard Mitigation Plans • **Ada County**	Update in progress	Ada County
• **Canyon County**	2021	Canyon County
The District Board of Commissioners have passed a number of resolutions dealing with floodplain development, including a no net adverse impact provision. These Resolutions remain in effect with this plan. • **Resolution 02-2006 – A rise in BFE = Approved Flood Mitigation Plan Required** • **Resolution 07-2006 – Process for Review of Proposed Projects/Developments**	July 12, 2006	FCD #10
	November 16, 2006	FCD #10

Table 12-4. Fiscal Capability

Financial Resource	Accessible or Eligible to Use?
Community Development Block Grants	No
Capital Improvements Project Funding	No
Authority to Levy Taxes for Specific Purposes	Yes
User Fees for Water, Sewer, Gas or Electric Service	No
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	No
State-Sponsored Grant Programs – IDWR	Yes
Development Impact Fees for Homebuyers or Developers	No
Other	No

Table 12-5. Administrative and Technical Capability

Staff/Personnel Resource	Available?
Planners or engineers with knowledge of land development and land management practices ***If Yes, Department /Position:*** Contract Services	Yes
Engineers or professionals trained in building or infrastructure construction practices	No
Planners or engineers with an understanding of natural hazards ***If Yes, Department /Position:*** Contract Services	Yes
Staff with training in benefit/cost analysis	No
Surveyors ***If Yes, Department /Position:*** Contract Services	Yes
Personnel skilled or trained in GIS applications ***If Yes, Department /Position:*** Contract Services	Yes
Scientist familiar with natural hazards in local area ***If Yes, Department /Position:*** Universities	Yes
Emergency manager	No
Grant writers	No
Other	No

Table 12-6. Education and Outreach Capability

Criterion	Response
Do you have a public information officer or communications office? Contract Public Relations person	Yes
Do you have personnel skilled or trained in website development?	Yes, Contract Services
Do you have hazard mitigation information available on your website? ***If yes, briefly describe:*** Incident response/Links to other government agencies	Yes
Do you use social media for hazard mitigation education and outreach? ***If yes, briefly describe:*** Newspaper ads during maintenance operations/Safety messages.	Yes
Do you have any citizen boards or commissions that address issues related to hazard mitigation? ***If yes, briefly describe:*** 3-member Board of Commissioners	Yes
Do you have any other programs in place that could be used to communicate hazard-related information? Website information and contact listings for response agencies.	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 critical community alerts. Both systems are IPAWS enabled and may additionally access that integrated system for public warnings.	Yes

Table 12-7. Community Classifications

	Participating?	Classification	Date Classified
FIPS Code	No	N/A	N/A
DUNS# (Current in SAM system)	Yes	065072546	July 1, 2021
Community Rating System	No	N/A	N/A
Building Code Effectiveness Grading Schedule	No	N/A	N/A
Public Protection	No	N/A	N/A
Storm Ready	No	N/A	N/A
Firewise	Yes	N/A	N/A

12.5 INTEGRATION REVIEW

For hazard mitigation planning, "integration" means that hazard mitigation information is used in other relevant planning mechanisms, such as 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. The 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.

12.5.1 Existing Integration

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

- **Resolution 02-2006** – A rise in BFE = Approved Flood Mitigation Plan Required
- **Resolution 07-2006** – Process for Review of Proposed Projects/Developments

12.5.2 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:

- **FCD #10 5 Year Strategic Plan** – Boise River Flood Control District #10 will integrate portions of the Ada County Multi-Hazard Mitigation Plan into their 5 Year Strategic Plan that will be updated in November 2022.

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.

12.6 RISK ASSESSMENT

12.6.1 Jurisdiction-Specific Natural Hazard Event History

Table 12-8 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 12-8. Past Natural Hazard Events

Type of Event	FEMA Disaster #	Date	Damage Assessment
COVID-19 Pandemic	DR-4534	January 2020 and continuing	Flood damage recovery projects were delayed. $ costs Not Available
Flooding	DR-4342	March 29-June 15, 2017	District minimum costs of $375K/ Agencies costs Not Available
Laguna Point Pit Capture	N/A	2006	$500,000
Brookwood Breach/Capture	N/A	2006	$200,000
Mace Breach	N/A	2006	$60,000
Eagle Isl. Levee Breach	N/A	1997	$30,000
Linder Rd. Bridge Blockage	N/A	1996	$2,000

12.6.2 Hazard Risk Ranking

Table 129 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 district operations. Mitigation actions target hazards with high and medium rankings. The rankings are based on local experiences and understanding of the hazards. Extreme Weather storm surges cause sudden rise in river flows below Lucky Peak Dam, causing high pit capture risk for gravel mines and high localized flooding risk.

Table 12-9. Hazard Risk Ranking

Rank	Hazard	Risk Ranking Score	Risk Category
1	Flood	45	High
2	Extreme Weather	33	High
3	Dam/Canal Failure	28	Medium
4	Drought	9	Low
5	Earthquake	6	Low
6	Landslide	6	Low
7	Wildfire	6	Low
8	Volcano	6	Low

12.6.3 Jurisdiction-Specific Vulnerabilities

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. 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:

- Development in the Floodplain, especially close to the riverbanks restricts access for the district to perform routine maintenance and hazard tree removal, increasing risk to high value properties.
- Sediment deposits from flooding events such as experienced in 2017, result in the buildup of gravel bars forcing the Boise River to flow out of bank at 3,000 to 4,000 cubic feet per second (cfs) in some areas of high-density population, causing localized flooding below normal out of bank flows of 7,000 cfs., which historically is the beginning of flood stage.
- When the Boise River channel is occluded by sediment/gravel deposition, the river attacks the banks causing significant erosion in some areas which result in significant loss and higher risk to public and private property.

- The 2017 flood event caused out-of-bank flooding for more than 100 continuous days. This resulted in high saturation of adjacent lands which lasted long after the water receded. Weakened banks and tree roots caused long term (approximately 2 yrs.) of higher-than-normal property damage from bank failure and tree debris in the river channel. Recovery projects and costs were higher than anticipated due to this long-term saturation.
- Tax levy funding for Flood Districts do not cover the cost of large flood mitigation projects. Funding for large flood mitigation projects depends upon grant funding. Grant applications are costly to prepare and if awarded, matching funds can be difficult to acquire, especially for smaller flood districts with limited tax base revenues to cover application costs.

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

12.7 STATUS OF PREVIOUS PLAN ACTIONS

Table 12-10 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 12-10. Status of Previous Plan Actions

Action Item from Previous Plan	Completed	Removed; No Longer Feasible	Carried Over to Plan Update: Check if Yes	Carried Over to Plan Update: Action # in Update
Action FCD10-1—Support CRS program participation of participating jurisdictions within Ada County that interface with the FCD #10 operational area.			✓	FCD10-1
Comment: *FCD #10 is expanding cooperative efforts to work with stakeholders and an interagency basis. Ongoing action*				
Action FCD10-2—Remove naturally occurring vegetative blockages in the river channels			✓	FCD10-4
Comment: *Annual River Maintenance Work. Ongoing*				
Action FCD10-3—Modify FCD #10 website to include links to flood hazard mitigation and preparedness sites.			✓	FCD10-5
Comment: *Contracted PR person to manage website and public outreach. Ongoing action*				
Action FCD10-4—Develop partnership with local City/County Planning and Zoning staffs to mitigate flood risk			✓	FCD10-6
Comment: *Sponsored interagency conference to build cooperative stakeholder relationships. Conducted interagency outreach to stakeholders for matching funds for flood mitigation grant applications. Ongoing*				
Action FCD10-5—Update FEMA mapping within the district			✓	FCD10-7
Comment: *Working with Army Corps of Engineers and stakeholders FCD #10 secured a grant and developed a 2-D model for scientifically analyzing the river dynamics and using bathometric science-based information for making mitigation management decisions. User training and a Comprehensive Plan for model use is being developed prior to final completion of this project. This 2-D model (Known locally as the 2-D Boise River Management Tool - I.e., 2-D BRMT) is currently being successfully used by engineers and is proving to be the best available data which exceeds 1-D model data. Other products and studies will be available for use by stakeholders in a wide spectrum of riverine management in addition to flood mitigation. Ongoing*				
Action FCD10-6—Remove accumulated sediment from Boise River and Dry Cr.			✓	FCD10-8
Comment: *Annual Maintenance Work to remove woody debris. Secure Grant funding to Develop long term plan for sediment/gravel management. Work in coordination with Cities and Counties to develop a Gravel Management Plan using the 2-D Boise River Management Tool (BRMT) to include a Digital Elevation Model of difference (DoD) map and biomass model. Ongoing*				

Action Item from Previous Plan	Completed	Removed; No Longer Feasible	Carried Over to Plan Update: Check if Yes	Carried Over to Plan Update: Action # in Update
Action FCD10-7—Develop long term plan to manage Boise River at the Head of Eagle Island split.			✓	FCD10-9
Comment: *Using the 2-D model (see #5 above) to perform engineering analysis to provide solutions for reducing flood risk. Ongoing*				
Action FCD10-8—Develop floodplain mitigation techniques to apply vegetative structures in the stream channels.			✓	FCD10-10
Comment: *See #7 above. Expand use of vegetative applications within bank repairs and levee maintenance projects. Ongoing*				
Action FCD10-9—Irrigation Diversion Headgate Flood Mitigation			✓	FCD10-11
Comment: *Cooperate with irrigation companies to remove debris during annual FCD #10 River Maintenance. Ongoing*				
Action FCD10-10—Support County-wide initiatives identified in Volume 1			✓	FCD10-3
Comment: *Ongoing*				
Action FCD10-11—Continue to support the implementation, monitoring, maintenance and updating of this plan as defined in Volume 1.			✓	FCD10-2
Comment: *Ongoing*				
Action FCD10-12— Meet and coordinate with private organizations, state, federal and other local agencies to develop, conduct and maintain wildfire mitigation projects.			✓	FCD10-12
Comment: *Ongoing*				

12.8 HAZARD MITIGATION ACTION PLAN

Table 12-11 lists the actions that make up the hazard mitigation action plan for this jurisdiction. Table 12-12 identifies the priority for each action. Table 12-13 summarizes the mitigation actions by hazard of concern and mitigation type.

Table 12-11. Hazard Mitigation Action Plan Matrix

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline[a]
Action FCD10-1— Support CRS program participation of participating jurisdictions within Ada County that interface with the FCD #10 operational area.						
Hazards Mitigated: Flood						
Existing	2, 3, 4, 5, 6, 8, 9 10	FCD #10	N/A	Low	FCD #10	Ongoing
Action FCD10-2—Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan.						
Hazards Mitigated: All hazards						
New & Existing	All	FCD #10	EMCR	Low	Staff Time, General Funds	Short-term
Action FCD10-3— Support County-wide initiatives identified in Volume 1.						
Hazards Mitigated: All hazards						
New & Existing	All	FCD #10	EMCR	Low	Staff Time, General Funds	Short-term
Action FCD10-4— Remove naturally occurring vegetative blockages in the river channels						
Hazards Mitigated: Flood, Severe Weather						
Existing	2, 8, 9	FCD #10	N/A	Medium	FCD #10	Ongoing
Action FCD10-5— Modify FCD #10 website to include links to flood hazard mitigation and preparedness sites.						
Hazards Mitigated: All hazards						
Existing	2, 3, 7, 8, 9,10	FCD #10	N/A	Low	FCD #10	Short-term

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline[a]
Action FCD10-6— Develop partnership with local City/County Planning and Zoning staff to mitigate flood risk						
Hazards Mitigated: Flood, Dam/Canal Failure, Extreme Weather						
New & Existing	1 ,2, 4, 5, 6, 8, 9, 10	FCD #10	N/A	Low	FCD #10, Staffs	Ongoing
Action FCD10-7— Update FEMA mapping within the District						
Hazards Mitigated: Flood, Dam/Canal Failure						
New & Existing	2, 4, 8, 9	FCD #10	N/A	Medium	FCD #10, FEMA (HMGP, BRIC, FMA) & State Grants	Long-term
Action FCD10-8— Develop a plan to manage accumulated sediment from Boise River and Dry Creek identified high risk sites						
Hazards Mitigated: Flood, Extreme Weather						
New & Existing	1, 2, 8, 9	FCD #10	Cities, Counties, Army Corps of Engineers, Idaho Dept. Of Water Resources, Idaho Dept. Of Lands	High	FCD #10, State and Federal Grants	Long-term
Action FCD10-9— Develop long term plan to manage Boise River flow impacts at the Head of Eagle Island.						
Hazards Mitigated: Flood, Extreme Weather						
New & Existing	2, 3, 6, 8, 9, 10	FCD #10	Cities/Ada County	High	FCD #10, FEMA (HMGP, BRIC, FMA) &State Grants	Long-term
Action FCD-10— Scientifically analyze floodplain mitigation techniques to apply vegetative structures in the stream channels.						
Hazards Mitigated: Flood, Dam/Canal Failure, Extreme Weather						
Existing	2, 6, 9	FCD #10	N/A	Medium	FCD #10, State Grants	Long-term
Action FCD-11— Irrigation Diversion Headgate Flood Mitigation						
Hazards Mitigated: Flood						
Existing	1, 8, 9, 10	FCD #10	N/A	Low	FCD #10, Irrigators	Ongoing
Action FCD10-12— Meet and coordinate with private organizations, state, federal and other local agencies to develop, conduct and maintain wildfire mitigation and fuel-reduction projects, including prescribed fire (Rx fire), pile-burning and managed fire. Increase capacity to conduct these projects through hiring personnel and expenditures for equipment and biological control methods. (Coordinates with City of Boise Action B-15, North Ada County Fire & Rescue District Action NACFR-15, Whitney Fire Protection District WFD-8)						
Hazards Mitigated: Wildfire						
New & Existing	1, 6, 9, 10	Boise Fire Department	FCD #10, NACFR, Whitney Fire	Low	Local funds	Ongoing
Action FCD10-13—Incorporate ACHMP into District 5-year Strategic Plan						
Hazards Mitigated: Flood						
Existing	2, 6, 8,9, 10	FCD #10	N/A	Low	FCD #10	Short-term
Action FCD10-14—Develop Administrative/Operations Plan to guide Flood District activity growth.						
Hazards Mitigated: Flood						
New & Existing	2, 6,8, 9, 10	FCD #10	N/A	Low	FCD #10	Short-term

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline[a]
Action FCD10-15—Work with Ada County to develop a channel and gravel management plan, leveraging the Boise River Management Tool (2-D BRMT), including a Digital Elevation Model of difference (DoD) map and biomass model in the river along Unincorporated Ada County. (Coordinates with Unincorporated Ada County Action AC-23)						
Hazards Mitigated: Flood						
New & Existing	2, 6, 8, 9, 10	FCD #10	Ada County Development Services	Low	FCD #10, Ada County Development Services	Short-term
Action FCD10-16— 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 the City of Star Action S-10)						
Hazards Mitigated: Flood, Extreme Weather, Dam/Canal Failure						
New & Existing	1, 2, 9, 10	FCD #10	City of Star	Medium	HMGP, FCD #10, City of Star CIP Funding	Long-term
Action FCD10-17—Follow CDC guidelines for COVID avoidance.						
Hazards Mitigated: Public Health						
New	2, 6, 12	FCD #10	N/A	Low	FCD #10	Short-term

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 12-12. 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	Medium	Low	Yes	No	Yes	High	Low
2	10	Low	Low	Yes	No	Yes	High	Low
3	10	Low	Low	Yes	No	Yes	High	Low
4	3	High	Low	Yes	Yes	Yes	High	High
5	6	Low	Low	Yes	No	Yes	High	Low
6	8	Medium	Low	Yes	No	Yes	High	Low
7	4	Medium	Medium	Yes	Yes	No	Medium	Medium
8	4	High	High	Yes	Yes	No	Medium	High
9	6	High	High	Yes	Yes	No	Medium	High
10	3	Medium	Medium	Yes	Yes	No	Low	Low
11	4	Low	Low	Yes	No	Yes	Low	Low
12	4	Medium	Low	Yes	No	Yes	Low	Low
13	5	Medium	Low	Yes	No	Yes	High	Low
14	5	Medium	Low	Yes	No	Yes	High	Low
15	5	Medium	Low	Yes	No	Yes	High	Low
16	4	Medium	Medium	Yes	Yes	No	Medium	Medium
17	2	Medium	Low	Yes	No	Yes	High	Low

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

Table 12-13. Analysis of Mitigation Actions

Hazard Type	Action Addressing Hazard, by Mitigation Type[a]							
	Prevention	Property Protection	Public Education & Awareness	Natural Resource Protection	Emergency Services	Structural Projects	Climate Resilient	Community Capacity Building[b]
High-Risk Hazards								
Flood	FCD10-1, 2, 3, 4, 6, 8, 9, 10	FCD10-3, 4, 6, 7, 8, 9, 10, 11, 12	FCD10-1, 3, 5, 6, 10, 12	FCD10-4, 8, 9, 10	FCD10-3, 6	FCD10-8, 9, 16		FCD10-3, 6, 7, 12, 13, 14, 15, 16
Extreme Weather	FCD10-2, 4, 8, 9	FCD10-1, 2, 3, 4, 8, 9	FCD10-3, 5, 12	FCD10-4, 8, 9, 10, 12	FCD10-1, 6	FCD10-16		FCD10-3, 6, 12, 16
Medium-Risk Hazards								
Dam/Canal Failure	FCD10-2, 3, 6	FCD10-4, 6, 7, 9	FCD10-3, 5, 6	FCD10-8, 9, 10	FCD10-3, 5, 6	FCD10-16		FCD10-3, 6, 7, 16
Low-Risk Hazards								
Drought	FCD10-2, 3		FCD10-2, 3, 5					FCD10-2, 3
Earthquake	FCD10-2, 3		FCD10-2, 3, 5					FCD10-2, 3
Landslide	FCD10-2, 3		FCD10-2, 3, 5					FCD10-2, 3
Wildfire	FCD10-2, 3		FCD10-2, 3, 5		FCD10-12		FCD10-12	FCD10-2, 3
Volcano								FCD10-2, 3

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

12.9 PUBLIC OUTREACH

Table 12-14 lists public outreach activities for this jurisdiction.

Table 12-14. Local Public Outreach

Local Outreach Activity	Date	Number of People Involved
Website	Developed in 2019	Unknown
Interagency Flood Mitigation Seminar	2018	75

12.10 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.
- **State of Idaho, Stream Channel Alteration Permit** – Reviewed for the capability assessment.
- **US EPA, Clean Water Act** – Reviewed for the capability assessment.
- **Municipal and County Floodplain Ordinances (Boise, Garden City, Eagle, Meridian, Star, Middleton, Nampa, Caldwell, Ada County, Canyon County)** – Reviewed for the capability assessment.

- **Floodplain Development Resolutions (02-2006, 07-2006)** – Reviewed for the capability assessment.

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.

12.11 FUTURE NEEDS TO BETTER UNDERSTAND RISK/VULNERABILITY

Due to the population growth and the explosion of values at risk in the Treasure Valley, Boise River Flood Control District #10 is experiencing a significant growth in the overall flood mitigation workload required to meet the mission requirements found in the Idaho Statutes that created the district in 1970. The district is developing Position Descriptions, Administrative Guidelines, and an Operations Handbook to support the expansion of the Board and Staffing needed to handle the expanded workload going forward. Current Special District Tax levies from residents within the district boundaries do not fully support the costs of performing the Flood Mitigation mission. A change in funding flood districts with this level of growth is required to meet the demands. Grant funding has helped but is not the long-term answer for meeting the Flood District expanding demands.

13. GREATER BOISE AUDITORIUM DISTRICT

13.1 LOCAL HAZARD MITIGATION PLANNING TEAM

Primary Point of Contact
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Alternate Point of Contact
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This annex was developed by the local hazard mitigation planning team, whose members are listed in Table 13-1.

Table 13-1. Local Hazard Mitigation Planning Team Members

Name	Title
Brandon Doty	Safety & Security Manager
Pat Rice	Executive Director
Cody Lund	Assistant Executive Director
Nick Souba	Director of Operations
Anne Marie Downen	Director of Finance
David Gregori	Facility Manager

13.2 JURISDICTION PROFILE

13.2.1 Overview

The Greater Boise Auditorium District was created by voters within the District's boundaries on June, 9 1959 to build, operate, maintain, market and manage public auditoriums, exhibit halls, convention centers, sports arenas, and other similar facilities. The District is represented by an elected, five member, Board of Directors. The District boundaries go beyond the City of Boise to include: all of Garden City, portions of the cities of Eagle and Meridian, and includes some unincorporated areas. The purpose of the District is to serve the public need and promote economic growth. In 1990, the Greater Boise Auditorium District completed construction of the Boise Centre on the Grove, (convention center) the District's first convention facility, known today as Boise Centre. With the expansion and renovations projects completed Boise Centre has the tools necessary to complete for larger convention groups and host multiple meetings and events simultaneously.

The District worked diligently over several years to establish an expansion project, later called Boise Centre East. Completed in August of 2016, the project added 38,250 square feet of space, including an additional ballroom,

meeting rooms, lobbies, and a commercial kitchen. The Boise Centre East expansion brought Boise Centre to a total of 88,250 square feet.

The Greater Boise Auditorium District assumes responsibility for the adoption of this plan; Boise Centre will oversee its implementation.

13.2.2 Service Area

The District service area covers an estimated population of 328,959, based off of U.S. Census data from 2019. Land area served is approximately 180 square miles.

The District's boundaries are shown in Figure 13-1.

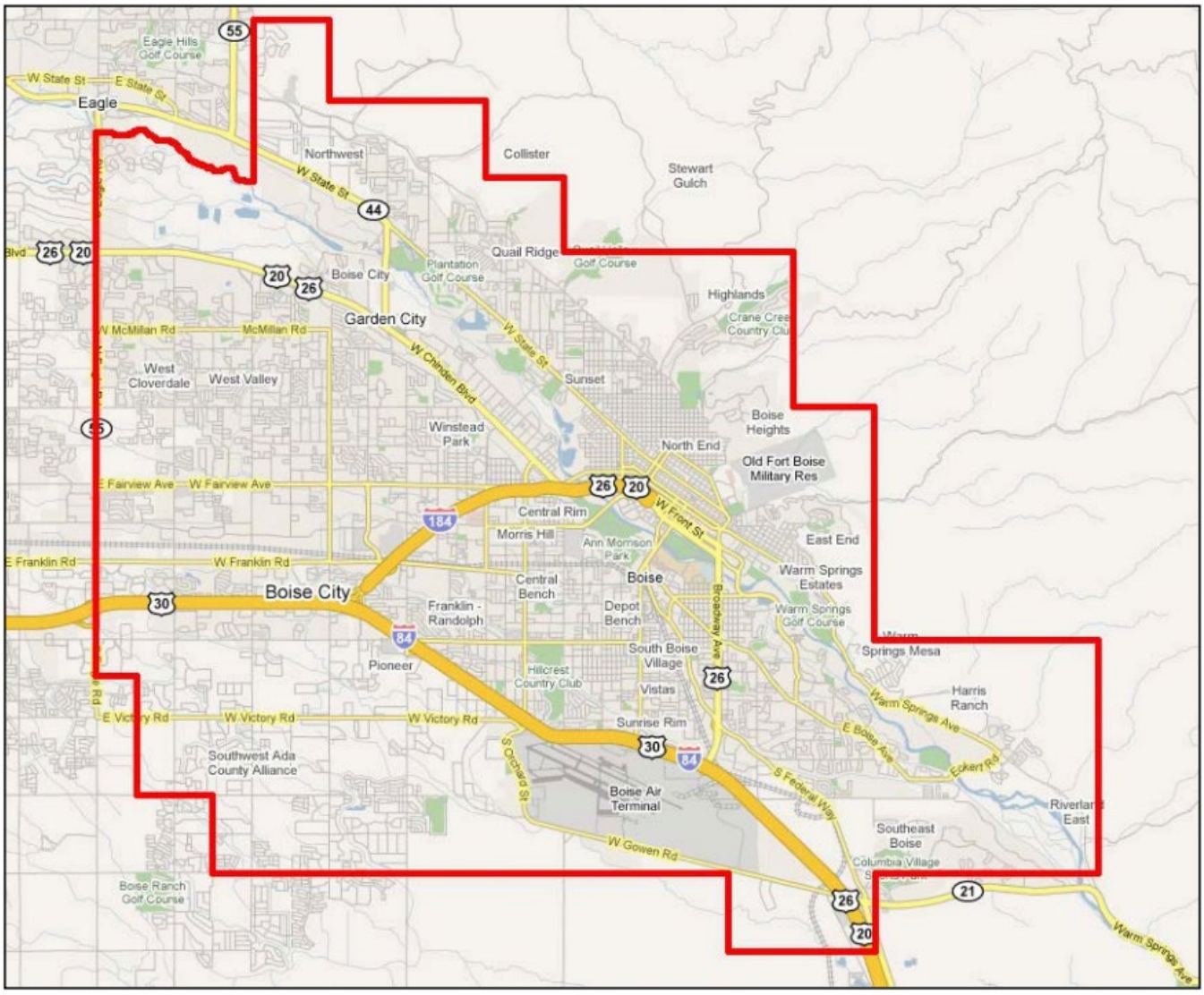

Figure 13-1. Greater Boise Auditorium District boundary

13.2.3 Assets

Table 13-2 summarizes the assets of the District and their value.

Table 13-2. Special Purpose District Assets

Asset	Value
Property	
5.705 acres of land[a]	$11,888,250[a]
Equipment	
Emergency Generator System	$75,000
Air Cooling Chiller & Plumbing	$750,000
Geothermal Heating & System	$100,000
Boiler Heating & System	$150,000
Kitchen & Food Prep	$1,800,000
Total:	**$7,350,000**
Critical Facilities	
Boise Centre West	$48,730,500
Boise Centre Sales Office and Warehouse	$678,760
Boise Centre East	$13,052,000
Aquatics Facility Cover[a]	$3,125,000[a]
Total:	**$62,461,260**[a]

a. The District purchased 3.73 acres of land in October of 2021 for the addition of an aquatics facility, to be built and operated by Idaho Competitive Aquatics (ICA).

13.3 CURRENT TRENDS

The District foresees continued growth opportunity for the meetings and convention industry.

- The District has no taxing authority on the District population. The main funding source comes from the collection of a hotel room tax from hotels within the District, currently at 5%.
- Both impact and growth studies continue to show glowing results for the District.
- The District purchased 3.73 acres of land in October of 2021 for the addition of an aquatics facility, to be built and operated by Idaho Competitive Aquatics (ICA).
- Boise continues to see an increase in interest as a destination for conventions and meetings.
- Additional hotels recently built in Boise have increased revenue from the tax collected within the District.
- The expansion has allowed Boise Centre to go after a larger market of convention, meeting, and association event business.

13.4 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 13-3.
- An assessment of fiscal capabilities is presented in Table 13-4.
- An assessment of administrative and technical capabilities is presented in Table 13-5.
- An assessment of education and outreach capabilities is presented in Table 13-6.
- Classifications under various community mitigation programs are presented in Table 13-7.

Table 13-3. Planning and Regulatory Capability

Plan, Study or Program	Date of Most Recent Update	Comment
Emergency Procedures Guide	August 2021	N/A
Idaho State Code Title 67, Chapter 49	June 1959	N/A
Information Technologies Security Policy	November 2021	N/A

Table 13-4. Fiscal Capability

Financial Resource	Accessible or Eligible to Use?
Community Development Block Grants	No
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for Specific Purposes	No
User Fees for Water, Sewer, Gas or Electric Service	No
If yes, specify:	
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	No
State-Sponsored Grant Programs	No
Development Impact Fees for Homebuyers or Developers	No
Other	No
If yes, specify:	

Table 13-5. Administrative and Technical Capability

Staff/Personnel Resource	Available?
Planners or engineers with knowledge of land development and land management practices	No
Engineers or professionals trained in building or infrastructure construction practices	No
Planners or engineers with an understanding of natural hazards	Yes
If Yes, Department /Position: Safety & Security Manager	
Staff with training in benefit/cost analysis	Yes
If Yes, Department /Position: Director of Finance	
Surveyors	No
Personnel skilled or trained in GIS applications	No
Scientist familiar with natural hazards in local area	No
Emergency manager	Yes
If Yes, Department /Position: Safety & Security Manager	
Grant writers	No
Information Technology Department	Yes
If Yes, Department /Position: IT Manager	

Table 13-6. Education and Outreach Capability

Criterion	Response
Do you have a public information officer or communications office?	Yes – Communications Manager
Do you have personnel skilled or trained in website development?	No
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
Do you have any other programs in place that could be used to communicate hazard-related information?	Yes
If yes, briefly describe: Safety Committee	
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 community alerts. Both systems are IPAWS enabled and may additionally access that integrated system for public warnings.	

Table 13-7. Community Classifications

	Participating?	Classification	Date Classified
FIPS Code	No	N/A	N/A
DUNS#	Yes	878208925	1990
Community Rating System	No	N/A	N/A
Building Code Effectiveness Grading Schedule	No	N/A	N/A
Public Protection	No	N/A	N/A
Storm Ready	No	N/A	N/A
Firewise	No	N/A	N/A

13.5 INTEGRATION REVIEW

For hazard mitigation planning, "integration" means that hazard mitigation information is used in other relevant planning mechanisms, such as 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.

13.5.1 Existing Integration

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

- Capital Facilities Planning – The Boise Centre maintains a disciplined program for making capital investments and managing its capital resources within eligible and allowable uses. This policy applies to assets not held for resale. This policy applies to all construction, capital improvements, equipment purchases, special projects and intangible assets and only applies to the Boise Centre proprietary fund. The government fund uses the current financial resources measurement focus and uses the write off approach. (Capital Expenditures Policy, Boise Centre).
- Emergency Management Planning by Ada County EMCR – Wherever possible, GBAD will partner with Ada County's Emergency Management and Community Resilience in support of preparedness, prevention, response, recovery, and mitigation activities, such as the Ada County Hazard Mitigation Plan.

13.5.2 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 GBAD capital facility planning—Capital facility planning may use hazard maps and data from this hazard mitigation plan when prioritizing projects.
- Future updates to GBAD Emergency Operations Plan and Crisis Communication Plan—The EOP and CCP may use data from this hazard mitigation plan to establish priorities in each plan.

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.

13.6 RISK ASSESSMENT

13.6.1 Jurisdiction-Specific Natural Hazard Event History

Table 13-8 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 13-8. Past Natural Hazard Events

Type of Event	FEMA Disaster #	Date	Damage Assessment
Severe Weather	N/A	January 2017	Site inspection and assessment
Earthquake	N/A	March 31, 2020	Site inspection and assessment
Power Outages	N/A	Multiple dates between 2017 and present	Site and equipment inspections
COVID-19 Pandemic	DR-4534	January 20, 2020 and continuing	$2.992 million in lost hotel lodging taxes to the District and an additional $9.137 million in lost revenue from canceled event bookings in 2020 and 2021.

13.6.2 Hazard Risk Ranking

Table 13-9 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 district operations. Mitigation actions target hazards with high and medium rankings.

Table 13-9. Hazard Risk Ranking

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

13.6.3 Jurisdiction-Specific Vulnerabilities

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. 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:

- Back up electrical generator and other critical infrastructure are located below grade and are at risk for flooding failure.
- Boise Centre West's 100 Ballroom ceiling equipment is not adequately secured for seismic activity.
- Water for Boise Centre is supplied by the City of Boise, including fire sprinkler and potable water.

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

13.7 STATUS OF PREVIOUS PLAN ACTIONS

Table 13-10 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 13-10. Status of Previous Plan Actions

Action Item from Previous Plan	Completed	Removed; No Longer Feasible	Carried Over to Plan Update: Check if Yes	Carried Over to Plan Update: Action # in Update
Initiative #1—Elevate Critical Equipment From Basement			•	GBAD-4
Comment: *No Progress. No solution settled on or funded at this time.*				
Initiative #2—Flood Proof Critical Equipment In Basement			•	GBAD-5
Comment: *No Progress. No solution or funding available at the time.*				
Initiative #3—Secure Drop Ceiling Light Fixtures To Standard			•	GBAD-6
Comment: *In Progress. Beginning process of assessing structure and ceiling. Currently evaluating structure and electrical. This project will be planned for 2022, but is subject to change following COVID-19's economic impact on our organization.*				
Initiative #4—Water Storage Tank- Clean water in case of contamination to city/public water.			•	GBAD-7
Comment: *No Progress. No current funds or solution in place. Looking at this for future years to help with resiliency for community disaster relief.*				
Initiative #5—Support, Monitor, and Continually Update This Plan			•	GBAD-2
Comment: *Ongoing Capability. Current review in progress and ongoing. Actively participating in process.*				
Initiative #6—Support and Be Actively Involved With Ada County Plan			•	GBAD-8
Comment: *Ongoing Capability. Current review in progress and ongoing. Actively participating in process.*				

13.8 HAZARD MITIGATION ACTION PLAN

Table 13-11 lists the actions that make up the hazard mitigation action plan for this jurisdiction. Table 13-12 identifies the priority for each action. Table 13-13 summarizes the mitigation actions by hazard of concern and mitigation type.

Table 13-11. Hazard Mitigation Action Plan Matrix

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline[a]
Action GBAD-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: Flood, Earthquake, Dam/Canal Failure, Severe Weather, Wildfire, Landslide						
Existing	All	District	N/A	High	HMGP, BRIC, FMA	Short-term
Action GBAD-2—Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan.						
Hazards Mitigated: All Hazards						
New & Existing	All	District	Ada County EMCR	Low	Staff Time, District Funds	Short-term
Action GBAD-3— Purchase additional mobile generators for critical facilities and infrastructure that lack adequate backup power, including commercial freezers and ice machines.						
Hazards Mitigated: Flood, Earthquake, Dam/Canal Failure, Severe Weather, Wildfire, Landslide						
New & Existing	All	District	Ada County EMCR	High	HMGP, BRIC	Short-term
Action GBAD-4— Elevate critical equipment from basement, including the emergency generator, IT equipment,						
Hazards Mitigated: Flood						
Existing	1, 3, 10	District	N/A	$2 Million	District Funds, HMGP, BRIC, FMA	Short-term

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline[a]
Action GBAD-5— Flood Proof Critical Equipment In Basement						
Hazards Mitigated: Flood						
Existing	1, 3, 10	District	N/A	$1 Million	District Funds, HMGP, BRIC, FMA	Short Term
Action GBAD-6— Retrofit the ballroom drop-ceiling to meet seismic building code, including light fixtures, HVAC, and other equipment in the drop-ceiling.						
Hazards Mitigated: Earthquake						
Existing	1, 3, 10	District	N/A	$1.5 Million	District Funds, BRIC	Short Term
Action GBAD-7— Install a 1,500 gallon water storage tank, to sustain non-contaminated source of water and combat effects of drought for 24 hours.						
Hazards Mitigated: Flood, Drought						
Existing	All	District	N/A	High	District Fund, HMGP, BRIC, FMA	Long Term
Action GBAD-8— Support County-wide initiatives identified in Volume 1						
Hazards Mitigated: All Hazards						
New & Existing	All	District	Ada County EMCR	Low	Staff Time, District Funds	Short-term
Action GBAD-9— Conduct an emergency backup power monitoring study to determine existing generator load capability and future emergency power load needs.						
Hazards Mitigated: Flood, Severe Weather						
Existing	1, 2, 3, 4, 10	District	N/A	$20,000	District Funds, BRIC, HMGP	Short-term

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 13-12. 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	10	High	High	Yes	Yes	No	Medium	High
2	10	Low	Low	Yes	No	Yes	High	Low
3	10	High	High	Yes	Yes	No	Medium	High
4	3	High	High	Yes	Yes	No	Medium	High
5	3	High	High	Low	Yes	No	Medium	High
6	3	High	Medium	Yes	Yes	Yes	High	Low
7	10	High	Medium	Yes	Yes	No	Low	High
8	10	Low	Low	Yes	No	Yes	High	Low
9	5	High	Medium	Yes	Yes	Yes	High	Low

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

Table 13-13. Analysis of Mitigation Actions

Hazard Type	Action Addressing Hazard, by Mitigation Type[a]							
	Prevention	Property Protection	Public Education & Awareness	Natural Resource Protection	Emergency Services	Structural Projects	Climate Resilient	Community Capacity Building[b]
High-Risk Hazards								
Flood		GBAD-1, 4, 5			GBAD-3			GBAD-2, 8, 9
Earthquake		GBAD-1, 6			GBAD-3		GBAD-7	GBAD-2, 8
Extreme Weather		GBAD-1			GBAD-3			GBAD-2, 8, 9
Medium-Risk Hazards								
Dam/Canal Failure		GBAD-1			GBAD-3			GBAD-2, 8
Drought								GBAD-2, 8
Low-Risk Hazards								
Wildfire		GBAD-1			GBAD-3			GBAD-2, 8
Landslide		GBAD-1			GBAD-3			GBAD-2, 8
Volcano								GBAD-2, 8

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

13.9 PUBLIC OUTREACH

Table 13-14 lists public outreach activities for this jurisdiction.

Table 13-14. Local Public Outreach

Local Outreach Activity	Date	Number of People Involved
Safety Committee	Meets the second Tuesday of each month	12
Code Red	N/A	N/A
Teldio/Twilio Mass Notification System	June 2021	4
City of Boise Special Events Committee	Meets every other Wednesday	2

13.10 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.
- **Boise Centre's Capital Expenditures Policy** – This policy is utilized to identify how and what projects can be budgeted with GBAD's capital funds.

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.

14. INDEPENDENT SCHOOL DISTRICT OF BOISE #1

14.1 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 14-1.

Table 14-1. Local Hazard Mitigation Planning Team Members

Name	Title
Lisa Roberts	Deputy Superintendent
Bill McKitrick	Safety and Security Supervisor
Tom Willis	Facilities Administrator
Kyle Dennis	Assistant Facilities Administrator

14.2 JURISDICTION PROFILE

14.2.1 Overview

Enrollment in the Boise School District has been relatively level over the last four years. BSD is the second largest district in the State of Idaho with over 25,500 students. The FY 2020-21 budget uses a predicted District enrollment decrease of 400 students. The District anticipates a decrease at the elementary level as smaller class sizes enter the District. Birth rates in Ada County have decreased from a high of 5,788 in 2007 to 4,861 in 2018. The State Charter Commission did not approve any new charters within the District boundaries for 2020-21

The Boise School District assumes responsibility for the adoption of this plan; Safety and Security Steering Committee will oversee its implementation.

14.2.2 Service Area

The Boise School District is a PreK-12 grade public school district, serves approximately 25,500 students in 48 schools and employs approximately 4,300 people, of whom approximately 1,890 are certified staff. In the district, there are 33 elementary schools, 8 junior high schools, 5 senior high schools, and 1 online school.

14.2.3 Assets

Table 14-2 summarizes the assets of the District and their value.

Table 14-2. Special Purpose District Assets

Asset	Value
Equipment	
Electric Forklift	$ 22,156.00
Front End Loader	$ 53,215.00
Deep Tine Aerator	$ 20,488.00
Turf Sweeper	$ 20,744.00
Tractor	$ 27,790.00
Diesel Mower	$ 72,910.00
Mini Excavators	$ 36,671.00
Mini Excavators	$ 26,758.80
Stock Picker Crown	$ 26,597.89
Reach Truck Crown	$ 42,573.67
Mower HR700	$ 79,965.33
Mower HR700	$ 79,965.33
Pump Machine	$ 20,762.50
Lawn Mover	$ 23,209.20
2015 Ford Escape	$ 22,234.84
2014 Chevy Silverado	$ 25,233.00
2009 GMC ¾ 4x4	$ 20,881.00
2009 GMC ¾ 4x4	$ 22,196.00
2013 Chevy Silverado	$ 22,196.00
2013 Chevy Silverado	$22,417.73
2013 Chevy Silverado	$22,415.54
2007 GMC Savana	$22,415.54
2007 GMC Savana	$28,343.00
2007 GMC Savana	$28,343.00
2012 Chevy RWD 3500	$28,343.00
2013 CMC Savana	$33,171.00
1996 Gruman GMC	$35,488.00
1996 Gruman GMC	$27,969.00
2002 Ford E-450	$32,349.80
1997 Ford &-700	$35,497.10
2005 Chevy Truck	$38,095.00
2018 Ford Cargo Van	$30,101.00
2018 Chevy Cargo Van	$20,984.06
2018 Chevy Cargo Van	$20,984.06
2018 Chevy Cargo Van	$20,984.06
2018 Chevy Cargo Van	$20,984.06
2018 Chevy Cargo Van	$20,984.06
2006 Ford F750	$27,790.00

Asset	Value
Sideflow Down Draft Spray Booth	$29,132.00
Sideflow Down Draft Spray Booth	$29,132.00
Clausing Colchester Lathe Center	$97,470.00
Bridgeport Milling Machine w/ Access.	$76,400.00
Hass Mini Mill Machining Center	$33,021.75
Hydraulic Press Brake	$27,936.90
X-660 Laser System	$21,250.00
Hunter Alignment and Balancer	$36,830.70
Haas Sl-10 CNC Turning Center	$45,978.00
Hetra 15,000 Lb Lift Post w/Hook-Up	$34,316.64
Car-O-Liner Straightener w/Access	$30,000.00
Hunter Alignment and Balancer	$23,238.50
Laser Cutting System	$25,910.00
Retro Systems Hornet HS	$47,449.00
Tire Changer Hunter Revolution	$30,139.00
Alex Pro Patient Dummy	$31,290.00
Spray Bay	$28,350.00
HD Vertical Machine	$63,400.00
Rotary Lift 12000lbs	$20,247.00
Universal Laser System Borah	$24,461.00
Universal Laser System Capital	$24,461.00
Custom Fluid Company Robot	$33,000.00
King Machine Simulator Milling Machine	$22,388.75
Tek Pipeline, LLC Super Micro computer	$21,382.85
Mohawk Resources, LTD Tire Drum	$24,457.04
King Machine Simulator Milling Machine	$22,388.75
Total:	*$2,116.803.54*
Critical Facilities	
Adams Elementary School	$6,414,904
Amity Elementary School	$16,326,146
ASCENT	$1,258,455
Boise High	$37,990,998
Borah High	$21,875,809
Capital High	$58,145,701
Collister Elementary School	$6,371,220
Cynthia Mann Elementary School	$12,455,471
Fort Boise 300 W. Fort St.	$7,788,668
Garfield Elementary	$11,624,220
Grace Jordan Elementary School	$13,701,475
Hawthorne Elementary Schoo	$9,234,791
Hidden Springs Elementary	$3,291,010
Highlands Elementary	$17,212,500
Hillcrest Elementary	$8,427,500

Asset	Value
Hillside Jr. High	$16,608,255
Horizon	$12,675,905
Jefferson Elementary	$9,983,906
Koelsch Elementary	$11,342,523
Les Bois Jr. High	$31,721,238
Liberty Elementary	$12,283,999
Longfellow Elementary	$6,497,068
Lowell Elementary	$11,053,871
Madison ECC	$2,545,056
Maple Grove Elementary	$9,329,106
Monroe Elementary	$5,270,585
Morley Nelson	$13,539,500
Mountain View Elementary	$17,850,000
North Jr. High	$25,293,264
Owyhee Elementary	$6,532,063
Pierce Park Elementary	$18,487,500
Riverglen Jr. High	$31,559,731
Riverside Elementar	$12,711,474
Roosevelt Elementary	$8,443,996
Shadow Hills Elementar	$12,077,110
South Jr. High	$31,937,931
STEP Program	$1,339,515
Taft Elementary	$7,308,056
Timberline High	$53,430,343
Trail Wind	$11,760,783
Valley View Elementary	$20,000,000
Washington Elementary	$18,750,000
West Jr. High	$29,709,785
White Pine	$12,645,181
Whitney Elementary	$15,449,458
Whittier Elementary	$15,205,446
Facilities & Operations	$12,750,000
District Service Center	$8,047,759
Total:	*$746,259,275*

14.3 CURRENT TRENDS

District population continues to increase as development progresses, particularly in the southern end of the district. A new high school, junior high and 2 elementary schools are to be needed to adequately service the increased development.

14.4 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 14-3.
- An assessment of fiscal capabilities is presented in Table 14-4.
- An assessment of administrative and technical capabilities is presented in Table 14-5.
- An assessment of education and outreach capabilities is presented in Table 14-6.
- Classifications under various community mitigation programs are presented in Table 14-7.

Table 14-3. Planning and Regulatory Capability

Plan, Study or Program	Date of Most Recent Update	Comment
Board Policy 9310- Facility Safety Program	4/10/17	N/A
Board Policy 3313-Safe and Secure Learning/Work Environment	7/01/21	N/A
Boise Schools Emergency Operations Plans	10/01/21	N/A

Table 14-4. Fiscal Capability

Financial Resource	Accessible or Eligible to Use?
Community Development Block Grants	No
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for Specific Purposes	Yes
User Fees for Water, Sewer, Gas or Electric Service	No
Incur Debt through General Obligation Bonds	No
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	No
Development Impact Fees for Homebuyers or Developers	No

Table 14-5. Administrative and Technical Capability

Staff/Personnel Resource	Available?
Planners or engineers with knowledge of land development and land management practices	No
Engineers or professionals trained in building or infrastructure construction practices	No
Planners or engineers with an understanding of natural hazards	No
Staff with training in benefit/cost analysis	No
Surveyors	No
Personnel skilled or trained in GIS applications ***If Yes, Department /Position:*** Boundaries and Transportation	Yes
Scientist familiar with natural hazards in local area	No
Emergency manager ***If Yes, Department /Position:*** Safety and Security Specialist	Yes
Grant writers	No
Other ***If Yes, Department /Position:***	No

Table 14-6. Education and Outreach Capability

Criterion	Response
Do you have a public information officer or communications office?	Yes- Dan Hollar, Public Affairs
Do you have personnel skilled or trained in website development?	Yes- Will Goodman, Technology Admin
Do you have hazard mitigation information available on your website? ***If yes, briefly describe:*** Periodic/seasonal updates on hazards	Yes
Do you use social media for hazard mitigation education and outreach? ***If yes, briefly describe:*** Winter Storm Safety Notification	Yes
Do you have any citizen boards or commissions that address issues related to hazard mitigation? ***If yes, briefly describe:*** Safety and Security Advisory Committee	Yes
Do you have any other programs in place that could be used to communicate hazard-related information? ***If yes, briefly describe:*** Parent/Community Newsletters/Communications	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 critical community alerts. Both systems are IPAWS enabled and may additionally access that integrated system for public warnings.	Yes

Table 14-7. Community Classifications

	Participating?	Classification	Date Classified
FIPS Code	No	N/A	N/A
DUNS#	Yes	122740046	N/A
Community Rating System	N/A	N/A	N/A
Building Code Effectiveness Grading Schedule	N/A	N/A	N/A
Public Protection	N/A	N/A	N/A
Storm Ready	No	N/A	N/A
Firewise	No	N/A	N/A

14.5 INTEGRATION REVIEW

For hazard mitigation planning, "integration" means that hazard mitigation information is used in other relevant planning mechanisms, such as 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.

14.5.1 Existing Integration

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

- **Site Emergency Operations Plans-** School EOPs are crafted and reviewed annually based on an individualized threat profile for each school. Threat profiles include elements of hazard mitigation plans as appropriate for the site.

14.5.2 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:

- Facilities Master Plan—The Facilities Master Plan may reference hazard mapping and data from this hazard mitigation plan when updating recommended project lists.

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.

14.6 RISK ASSESSMENT

14.6.1 Jurisdiction-Specific Natural Hazard Event History

Table 14-8 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 14-8. Past Natural Hazard Events

Type of Event	FEMA Disaster #	Date	Damage Assessment
COVID-19 Pandemic	DR-4534	January 20, 2020 and continuing	All School Cancelled/Virtual
Flooding	DR-4342	March 29 – June 15, 2017	N/A
Wildfires	DR-1341	July 27 – September 26, 2000	N/A
Earthquake	N/A	March 31, 2020	N/A

Type of Event	FEMA Disaster #	Date	Damage Assessment
Winter Weather Cancellation	N/A	11/14/2014	All School Cancelled
Winter Weather Cancellation	N/A	2/27/14	All School Cancelled
Winter Weather Cancellation	N/A	1/10/2013	All School Cancelled
Winter Weather Cancellation	N/A	12/1/2010	All School Cancelled

14.6.2 Hazard Risk Ranking

Table 14-9 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 district operations. Mitigation actions target hazards with high and medium rankings.

Table 14-9. Hazard Risk Ranking

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

14.6.3 Jurisdiction-Specific Vulnerabilities

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. 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:

- Wild land fire- Interface schools
- Landslide- Foothills schools
- Extreme Weather/Winter Storms- All schools
- Seismic- All schools
- Public Health Hazards- All schools (faculty and students) are extremely vulnerable to public health hazards. This is very evident due to the impacts during the COVID-19 pandemic.

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

14.7 STATUS OF PREVIOUS PLAN ACTIONS

Table 14-10 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 14-10. Status of Previous Plan Actions

Action Item from Previous Plan	Completed	Removed; No Longer Feasible	Carried Over to Plan Update: Check if Yes	Carried Over to Plan Update: Action # in Update
Action BSD-1—Retrofit Unreinforced Masonry Structures			•	BSD-1
Comment: *Continues through retrofit of existing structures and the completion of several new buildings.*				
Action BSD-2—Mobile Generators for Shelter Facilities			•	BSD-3
Comment: *Continue to fund as budget is allowing*				
Action BSD-3—Partner with EMCR for disaster response and preparedness, including updates to the county EOP			•	BSD-4
Comment: *Continues. EOPs have successfully been shared with community resources including access to live cameras at all sites and electronic door access.*				
Action BSD-4—Continue internal (staff) and external (student/family) hazard education programs.			•	BSD-5
Comment: *Progress continues and now includes ISCRS.*				
Action BSD-5—Coordinate building EOP documents into county-wide EOP parameters			•	BSD-6
Comment: *Continues. EOPs now incorporates ISCRS at all facilities.*				
Action BSD-6—Support County-wide initiatives identified in Volume 1.			•	BSD-7
Comment: *Continues district wide*				
Action BSD-7—Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Volume 1.			•	BSD-2
Comment: *Continues district wide*				

14.8 HAZARD MITIGATION ACTION PLAN

Table 14-11 lists the actions that make up the hazard mitigation action plan for this jurisdiction. Table 14-12 identifies the priority for each action. Table 14-13 summarizes the mitigation actions by hazard of concern and mitigation type.

Table 14-11. Hazard Mitigation Action Plan Matrix

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline[a]
Action BSD-1—Where appropriate, support retrofitting, purchase or relocation of structures located in hazard areas, prioritizing those with unreinforced masonry or that have experienced repetitive losses and/or are located in high- or medium-risk hazard areas.						
Hazards Mitigated: Earthquake, Extreme Weather, Flood, Wildfire						
Existing	1, 2, 3, 10	BSD		High	District Funds/Bonds, HMGP, BRIC, FMA	Long-term
Action BSD-2—Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan.						
Hazards Mitigated: All hazards						
New & Existing	1-10	BSD	N/A	Low	Staff Time, District Funds, FEMA Mitigation Grant Funding for 5-year update	Short-term
Action BSD-3— Purchase generators for critical facilities and infrastructure that lack adequate backup power, including mobile generators for shelter facilities.						
Hazards Mitigated: Extreme Weather, Wildfire, Flood, Earthquake, Dam/Canal Failure, Landslide						
Existing	1, 3, 7, 10	BSD	N/A	Low	District Funds	Short-term

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline[a]
Action BSD-4—Partner with EMCR for disaster response and preparedness, including updates to the county EOP.						
Hazards Mitigated: All hazards						
New & Existing	1-10	BSD	EMCR	Low	District Funds	Ongoing
Action BSD-5—Continue internal (staff) and external (student/family) hazard education programs.						
Hazards Mitigated: All hazards						
New & Existing	1, 7, 9	BSD	N/A	Low	District Funds	Ongoing
Action BSD-6—Coordinate building EOP documents into county-wide EOP parameters.						
Hazards Mitigated: All hazards						
New & Existing	1-10	BSD	N/A	Low	Staff Time, District Funds	Short-term
Action BSD-7— Support County-wide initiatives identified in Volume 1.						
Hazards Mitigated: All hazards						
New & Existing	1-10	BSD	N/A	Low	Staff Time, District Funds	Short-term

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 14-12. 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	Yes	Medium	High
2	10	Low	Low	Yes	No	Yes	High	Low
3	4	High	Medium	Yes	Yes	No	Medium	High
4	10	Low	Low	Yes	No	Yes	High	Low
5	3	Low	Low	Yes	No	Yes	High	Low
6	10	Low	Low	Yes	No	Yes	High	Low
7	10	Low	Low	Yes	No	Yes	High	Low

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

Table 14-13. Analysis of Mitigation Actions

Hazard Type	Action Addressing Hazard, by Mitigation Type[a]							
	Prevention	Property Protection	Public Education & Awareness	Natural Resource Protection	Emergency Services	Structural Projects	Climate Resilient	Community Capacity Building[b]
High-Risk Hazards								
Extreme Weather		BSD-1, 2	BSD-5, 7		BSD-3, 7			BSD-2, 4, 5, 6, 7
Medium-Risk Hazards								
Wildfire		BSD-1, 2	BSD-5, 7		BSD-3, 7			BSD-2, 4, 5, 6, 7

Hazard Type	Action Addressing Hazard, by Mitigation Type[a]							
	Prevention	Property Protection	Public Education & Awareness	Natural Resource Protection	Emergency Services	Structural Projects	Climate Resilient	Community Capacity Building[b]
Flood		BSD-1, 2	BSD-5, 7		BSD-3, 7			BSD-2, 4, 5, 6, 7
Earthquake		BSD-1, 2	BSD-5, 7		BSD-3, 7			BSD-2, 4, 5, 6, 7
Dam/Canal Failure		BSD-1, 1	BSD-5, 7		BSD-3, 7			BSD-2, 4, 5, 6, 7
Low-Risk Hazards								
Landslide		BSD-2	BSD-5, 7		BSD-3, 7			BSD-2, 4, 5, 6, 7
Drought		BSD-2	BSD-5, 7					BSD-2, 4, 5, 6, 7
Volcano								BSD-2, 4, 5, 6, 7

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

14.9 PUBLIC OUTREACH

Table 14-14 lists public outreach activities for this jurisdiction.

Table 14-14. Local Public Outreach

Local Outreach Activity	Date	Number of People Involved
School Board Presentation and roundtable	9/13/21	20
School Board Presentation and roundtable	12/20/21	20
School Board Presentation and roundtable	3/14/22	20
School Board Presentation and roundtable	5/9/22	20

14.10 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.
- **Boise Schools Emergency Operations Plan**—The operations plans were reviewed for the full capabilities assessment and considered in action plan development.

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.

15. JOINT SCHOOL DISTRICT #2

15.1 LOCAL HAZARD MITIGATION PLANNING TEAM

Primary Point of Contact
Spencer McLean, Administrator Buildings and Grounds
2301 E. Lanark St.
Meridian ID, 83642
Telephone:208-350-5210
e-mail Address: mclean.spencer@westada.org

Alternate Point of Contact
TJ Evans, Assistant Administrator Buildings and Grounds
2301 E. Lanark St.
Meridian ID, 83642
Telephone:208-350-5210
e-mail Address: evans.tj@westada.org

This annex was developed by the local hazard mitigation planning team, whose members are listed in Table 15-1.

Table 15-1. Local Hazard Mitigation Planning Team Members

Name	Title
Spencer McLean	Administrator Buildings and Grounds
TJ Evans	Assistant Administrator Buildings and Grounds
Tom Pill	Maintenance Supervisor
Bill Woffington	Grounds Supervisor
Tawnya Harrison	Custodial Supervisor
Jacob Helderman	Project Coordinator

15.2 JURISDICTION PROFILE

15.2.1 Overview

The District was formed as a result of a reorganization plan that reduced 1,082 school districts in Idaho in 1945 to 301 districts by 1950. The District included all or part of thirty-three school districts surrounding the communities of Meridian, Boise, Eagle, Star, Garden City and surrounding rural areas located in Ada and Canyon Counties. The name of the District was changed three times since it was formed from 1950 through 1952. On July 1, 1963, the name was officially changed to Joint School District Number 2. The District has experienced rapid growth in recent years and has become the largest school district in the state of Idaho.

The District employs approximately 4,050 certified and classified staff which educates nearly 38,000 students.

The authority to govern, which resides in a five member board of trustees, has been extended to it by the state (Idaho Code 33-501). As provided by Idaho law, the board of trustees of each school district has the power to levy

taxes for school purposes. Each Idaho school district is a political subdivision of the state of Idaho. The majority of the District's funding is supplied by the State of Idaho based on Student Average Daily Attendance.

The West Ada School District assumes responsibility for the adoption of this plan; the Facilities Leadership team will oversee its implementation.

15.2.2 Service Area

Joint School District #2 consists of approximately 382 square miles and serves a population of about 38,000 students.

15.2.3 Assets

Table 15-2 summarizes the assets of the District and their value.

Table 15-2. Special Purpose District Assets

Asset	Value
Property	
1293 acres of land	$22,839,552.00
Equipment	
56 Maintenance and Operations Vehicles	N/A
9 Large Tractors	N/A
8 Large Trailers	N/A
4 Food Services Vehicles	N/A
Total:	***N/A***
Critical Facilities	
Meridian Elementary	$6,275,670
Mary McPherson Elementary	$6,180,970
Star Elementary	$4,364,013
Ustick Elementary	$5,509,268
McMillan Elementary	$7,239,759
Chief Joe Elementary	$7,239,759
Lake Hazel Elementary	$7,894,826
Pioneer Elementary	$7,928,105
Summerwind Elementary	$7,255,732
Christine Donnel School of the Arts	$7,007,240
Joplin Elementary	$5,438,956
Eagle Hills Elementary	$5,891,319
Frontier Elementary	$8,602,969
Linder Elementary (Barbara Morgan)	$5,832,200
Silver Sage Elementary	$4,896,942
Seven Oaks Elementary	$7,492,279
Chaparral Elementary	$7,538,969
Eliiza Hart Spalding Elementary	$7,538,969
Cecil D. Andrus Elementary	$7,460,852
River Valley Elementary	$7,523,549

Asset	Value
Ponderosa Elementary	$7,560,918
Peregrine Elementary	$7,607,705
Discovery Elementary	$8,125,227
Pepper Ridge Elementary	$8,145,831
Galileo Math and Science	$14,725,824
Hunter Elementary	$14,005,364
Prospect Elementary	$10,960,037
Desert Sage Elementary	$11,774,310
Paramount Elementary	$11,774,351
Centennial High School	$26,920,140
Meridian High School	$33,811,300
Hillsdale Elementary	N/A
Eagle High School	$35,136,967
Mountain View High School	$35,455,840
Rocky Mountain High School	$58,130,742
Owyhee High School	N/A
Renaissance High School	$1,800,000
Lowell Scott Middle School	$17,487,857
Meridian Middle School	$23,383,504
Lake Hazel Middle School	$18,740,062
Victory Middle School	N/A
Eagle Middle School	$17,959,832
Lewis and Clark Middle School	$17,322,419
Sawtooth Middle School	$18,643,661
Heritage Middle School	$16,763,760
Crossroads Middle School	$3,004,767
Pathways Middle School	$1,008,719
Meridian Academy	$3,219,956
Eagle Academy	$4,790,969
Central Academy	$3,401,475
Technology Charter School	$2,131,937
Medial Arts Charter School	$3,088,352
District Service Center	$69,421,053
Maintenance Facility	$2,205,650
Grounds Facility	$1,212,829
Transportation Facility	$4,942,400
Gravel Pit Site	N/A
Ustick/Meridian Site	N/A
Amity/Eagle Site	N/A
Keego Springs site	N/A
Total	***$707,680,000***

15.3 CURRENT TRENDS

Enrollment for Joint School District No. 2 has grown by 1,500 students in the last five years. Even though economic issues have slowed housing growth. The Joint School District No. 2 is expected to grow substantially into the future. Funding continues to be a vital issue. The Joint School District No. 2 has the second lowest revenue per pupil in the United States in districts over 10,000 students.

Joint School District #2 is adding three new middle schools, 1 new elementary school and 1 new academy over the next 12 months. With the rapid building of new homes we do not foresee the expansion / addition of new buildings slowing down within the next 5 years.

Joint School District No. 2 serves the cities of Meridian, Eagle, Star, parts of Boise and Garden City plus surrounding rural areas that make up 382 square miles with varying geographical areas. Some district facilities are in areas affected by flooding, while other areas could be more susceptible to wildfire and earthquakes. Severe weather, both winter and summer could affect most facilities.

15.4 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 15-3.
- An assessment of fiscal capabilities is presented in Table 15-4.
- An assessment of administrative and technical capabilities is presented in Table 15-5.
- An assessment of education and outreach capabilities is presented in Table 15-6.
- Classifications under various community mitigation programs are presented in Table 15-7.

Table 15-3. Planning and Regulatory Capability

Plan, Study or Program	Date of Most Recent Update	Comment
Joint School District No. 2 Strategic Plan		
Joint School District No. 2 Emergency Operations Plan		
Ada County Multi-Hazard Mitigation Plan	2017	Update in progress
State of Idaho Hazard Mitigation Plan	2018	
Idaho Department of Building Safety		

Table 15-4. 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 *If yes, specify:*	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	No

Table 15-5. Administrative and Technical Capability

Staff/Personnel Resource	Available?
Planners or engineers with knowledge of land development and land management practices *If Yes, Department /Position:*	No
Engineers or professionals trained in building or infrastructure construction practices *If Yes, Department /Position:*	No
Planners or engineers with an understanding of natural hazards *If Yes, Department /Position:*	No
Staff with training in benefit/cost analysis *If Yes, Department /Position:* Facilities Department	Yes
Surveyors *If Yes, Department /Position:*	No
Personnel skilled or trained in GIS applications *If Yes, Department /Position:*	No
Scientist familiar with natural hazards in local area *If Yes, Department /Position:*	No
Emergency manager *If Yes, Department /Position:* Administrator Buildings and Grounds	Yes
Grant writers *If Yes, Department /Position:* Keri Davidson	Yes

Table 15-6. Education and Outreach Capability

Criterion	Response
Do you have a public information officer or communications office?	Yes Gregory Wilson
Do you have personnel skilled or trained in website development?	Yes Devan Delashmutt
Do you have hazard mitigation information available on your website? *If yes, briefly describe:*	No
Do you use social media for hazard mitigation education and outreach? *If yes, briefly describe:* Blackboard (allows us to text / email patrons)	Yes
Do you have any citizen boards or commissions that address issues related to hazard mitigation? *If yes, briefly describe:*	No

Criterion	Response
Do you have any other programs that could be used to communicate hazard-related information?	No
If yes, briefly describe:	
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 community alerts. Both systems are IPAWS enabled and may additionally access that integrated system for public warnings.	

Table 15-7. Community Classifications

	Participating?	Classification	Date Classified
FIPS Code	N/A	N/A	N/A
DUNS#	Yes	029604402	N/A
Community Rating System	N/A	N/A	N/A
Building Code Effectiveness Grading Schedule	N/A	N/A	N/A
Public Protection	N/A	N/A	N/A
Storm Ready	N/A	N/A	N/A
Firewise	N/A	N/A	N/A

15.5 INTEGRATION REVIEW

For hazard mitigation planning, "integration" means that hazard mitigation information is used in other relevant planning mechanisms, such as 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.

15.5.1 Existing Integration

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

- **Joint School District No. 2 Emergency Operations Plan—**The Emergency operations plan ties in with the Hazard Mitigation plan by cross referencing the notification processes between the two plans as well as evacuation procedures.
- **Idaho Department of Building Safety—**We are currently working with the State on implementing security procedures that will help the communication and access to real time video around our District.

15.5.2 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:

- **Joint School District No. 2 Strategic Plan—**We would like to coordinate the goals and objectives from this Multi-Hazard Mitigation Plan with our Strategic Plan as this will allow us to coordinate with all of the departments throughout the District on one plan.

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.

15.6 RISK ASSESSMENT

15.6.1 Jurisdiction-Specific Natural Hazard Event History

Table 15-8 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 15-8. Past Natural Hazard Events

Type of Event	FEMA Disaster #	Date	Damage Assessment
COVID-19 Pandemic	N/A	January 20, 2020 – ongoing	All in-person instruction canceled – Virtual
Flooding	N/A	March 29 – June 15, 2017	N/A
Severe Weather – Cold	N/A	1/2015	$25,230.00
Severe Weather – Cold	N/A	12/18/2008	$26,621.00
Severe Weather – Wind	N/A	1/4/2008	$1,807.00
Severe Weather – Hail	N/A	4/9/2007	$33,075.00
Severe Weather – Cold	N/A	1/20/2007	$5,700.00
Severe Weather – Hail	N/A	7/15/2005	$80,015.00
Wildfire – Air Quality	N/A	9/1/2000	N/A
Drought – Dry Well	N/A	10/31/1992	N/A
Earthquake	N/A	1983	N/A
Volcanic Eruption – Ash	N/A	5/22/1980	N/A

15.6.2 Hazard Risk Ranking

Table 15-9 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 district operations. Mitigation actions target hazards with high and medium rankings.

Table 15-9. Hazard Risk Ranking

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

15.6.3 Jurisdiction-Specific Vulnerabilities

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. 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:

- Sewer Lines
- Electrical Connections
- Wildland Fire- Interface schools
- Extreme Weather/Winter Storms- All schools
- Seismic- All schools
- Public Health Hazards- All schools including the staff, patrons and students are vulnerable to public health hazards. Example - COVID-19 pandemic.

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

15.7 STATUS OF PREVIOUS PLAN ACTIONS

Table 15-10 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 15-10. Status of Previous Plan Actions

Action Item from Previous Plan	Completed	Removed; No Longer Feasible	Carried Over to Plan Update	
			Check if Yes	Action # in Update
JSD2-1—Conduct structural and nonstructural feasibility studies and retrofits of district facilities to minimize injuries and damage from flood, earthquake and severe weather.			✓	JSD2-9
Comment: *The district has completed the study at 40% of our buildings, but the additional 60% need to be done.*				
JSD2-2—Install hail guards over roof top HVAC units.	✓			
Comment: *Completed during the previous plan maintenance period.*				
JSD2-3—Train Maintenance staff to perform visual screening for potential seismic hazards.			✓	JSD2-8
Comment: *Ongoing*				
JSD2-4—Install drainage collectors at district facilities experiencing flooding.	✓			
Comment: *Completed during the previous plan maintenance period.*				
JSD2-5—Create and maintain a hazard mitigation web page on the District's website.	✓			
Comment: *Completed during the previous plan maintenance period.*				
JSD2-6—Develop and maintain a Continuity of Operations Plan (COOP)	✓			
Comment: *Completed during the previous plan maintenance period.*				
JSD2-7—Continue to support the implementation, maintenance, and updating of the Ada County Hazard Mitigation Plan.			✓	JSD2-2
Comment: *Supported during the previous plan period and will continue to do so.*				
JSD2-8—Partner with cities and county to provide public education and awareness of potential natural disasters in Ada County.	✓			
Comment: *Completed during the previous plan maintenance period.*				

15.8 HAZARD MITIGATION ACTION PLAN

Table 15-11 lists the actions that make up the hazard mitigation action plan for this jurisdiction. Table 15-12 identifies the priority for each action. Table 15-13 summarizes the mitigation actions by hazard of concern and mitigation type.

Table 15-11. Hazard Mitigation Action Plan Matrix

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline[a]
Action JSD2-1—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: Flood, Earthquake						
Existing	1-3,10	JSD2	N/A	High	Capital funds, HMGP, BRIC, FMA	Long term
Action JSD2-2—Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan.						
Hazards Mitigated: All hazards						
New & Existing	All	JSD2	N/A	Medium	Staff Time, General Funds/Capital funds	Long term
Action JSD2-3— Purchase generators for critical facilities and infrastructure that lack adequate backup power, including mobile generators						
Hazards Mitigated: Flood, Earthquake, Dam/Canal Failure, Severe Weather, Wildfire, Landslide						
Existing	1,7,10	JSD2	N/A	Low	District funds	Short term
Action JSD2-4—Coordinate with other local school districts and other state agencies to gather information and data for emergency and disaster events readiness.						
Hazards Mitigated: Severe Weather, Flood						
Existing and New	1-4, 7-9	JSD2	N/A	Low	District funds	Long term
Action JSD2-5— Increased awareness and training to all staff and personnel with educational opportunities.						
Hazards Mitigated: All hazards						
New and Existing	4, 7, 10	JSD2	N/A	Low	District funds	Ongoing
Action JSD2-6—Use data to further plans of improving understanding of the location and potential impacts of the identified hazards.						
Hazards Mitigated: All hazards						
New and Existing	All	JSD2		Medium	District funds	Ongoing
Action JSD2-7— Seek out more efficient and ecofriendly waste disposal in order limit the impact of discarded waste in the event of a natural disaster.						
Hazards Mitigated: Waste disposal, Flood, Severe Weather						
New	3, 9	JSD2	N/A	Medium	District Funds	Ongoing
Action JSD2-8— Train Maintenance staff to perform visual screening for potential seismic hazards.						
Hazards Mitigated: Earthquake						
Existing	2, 10	JSD2	N/A	Low	District Funds	Ongoing
Action JSD2-9— Conduct structural and nonstructural feasibility studies and retrofits of district facilities to minimize injuries and damage from flood, earthquake and severe weather.						
Hazards Mitigated: Flood, Earthquake, Severe Weather						
Existing	1, 2, 10	JSD2	N/A	Low	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 15-12. 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	3	Low	Low	Yes	No	Yes	High	Low
3	3	High	Medium	Yes	Yes	No	Medium	High
4	3	Medium	Low	Yes	Yes	Yes	High	High
5	3	Medium	Low	Yes	No	Yes	Medium	Low
6	3	Medium	Low	Yes	Yes	Yes	Medium	Medium
7	2	High	Medium	Yes	Yes	Yes	High	Low
8	2	Low	Low	Yes	No	Yes	High	Low

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

Table 15-13. Analysis of Mitigation Actions

Hazard Type	Action Addressing Hazard, by Mitigation Type[a]							
	Prevention	Property Protection	Public Education & Awareness	Natural Resource Protection	Emergency Services	Structural Projects	Climate Resilient	Community Capacity Building
High-Risk Hazards								
Extreme Weather	JSD2-2, 9	JSD2-1	JSD2-5		JSD2-3, 7			JSD2-2, 4, 5, 6, 7
Medium-Risk Hazards								
Flood	JSD2-9	JSD2-1	JSD2-5		JSD2-3, 7			JSD2-2, 4, 5, 6, 7
Earthquake	JSD2-3, 9	JSD2-1, 3	JSD2-5, 8		JSD2-3			JSD2-2, 5, 6, 8
Dam/Canal Failure		JSD2-1	JSD2-5		JSD2-3			JSD2-2, 5, 6
Wildfire			JSD2-5		JSD2-3			JSD2-2, 5, 6
Low-Risk Hazards								
Drought			JSD2-5					JSD2-2, 5, 6
Landslide			JSD2-5		JSD2-3			JSD2-2, 5, 6
Volcano								JSD2-2, 5, 6

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

15.9 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.

- **Joint School District No. 2 Emergency Operations Plan**—The EOP was reviewed for the full capabilities assessment and action plan development.

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.

16. KUNA RURAL FIRE DISTRICT

16.1 LOCAL HAZARD MITIGATION PLANNING TEAM

Primary Point of Contact
T.J. Lawrence, Fire Chief
150 W Boise Street
Kuna, Idaho 83634
Telephone: 208-370-3127
e-mail Address: tlawrence@kunafire.com

Alternate Point of Contact
Kristal Hinkle, Officer of Administration
150 W Boise Street
Kuna, Idaho 83634
Telephone: 208-922-1144
e-mail Address: khinkle@kunafire.com

This annex was developed by the local hazard mitigation planning team, whose members are listed in Table 16-1.

Table 16-1. Local Hazard Mitigation Planning Team Members

Name	Title
T.J. Lawrence	Fire Chief
Kristal Hinkle	Officer of Administration

16.2 JURISDICTION PROFILE

16.2.1 Overview

Kuna Rural Fire District (KRFD) was established in 1951 and provides fire protection, rescue services and wildland fire protection. Ada County paramedics respond out of the District station and KRFD responds to EMS calls. The District is a mix of urban, rural, agriculture and wildland areas. The District provides protection services for the City of Kuna, the southern portion of Ada County, and a portion of southwest Canyon County. Kuna Fire District also provides contract services to multiple entities in the southeast portion of Ada County as well as providing mutual aid to multiple agencies countywide and statewide. A large portion of Ada County borders the southern 20 mile boundary of the Kuna Fire District, that portion of the County is very remote and considered “no man’s land” as far as Fire and EMS Services. Kuna is typically dispatched to those areas for mutual aid due to our proximity to the area.

The District is governed by a board of five elected Commissioners with one Officer of Administration, and employs a Fire Chief, and 15 fulltime Firefighter/Paramedics who respond to approximately 2,000 incidents per year. Approximately 90% of the District’s budget is generated from tax assessment and the remaining 10% from fee based services.

The Board of Commissioners assumes responsibility for the adoption of this plan; Board of Commissioners and Fire Chief will oversee its implementation.

The District participates in the Public Protection Class Rating System and currently has a rating of:

- 4 within 1,000 feet of a water connection
- 8 within five miles of the fire station
- 9 between 5 and 10 miles of the fire station
- 10 over ten miles of the fire station.

16.2.2 Service Area

The district serves a population of 33,000 as of 2021 Its service area covers an area of 110 square miles that covers the City of Kuna, the southern portion of Ada County, and part of southwest Canyon County.

16.2.3 Assets

Table 16-2 summarizes the assets of the District and their value.

Table 16-2. Special Purpose District Assets

Asset	Value
Property	
4 acres of land	$900,000.00
Total:	***$900,000.00***
Equipment	
Two Engines/Pumpers	$1,160,000.00
One Tender	$300,000.00
Two Brush Trucks	$600,000.00
One Command Vehicle	$75,000.00
One Squad F150	$15,000.00
One Ford Explorer	$8,500.00
Total:	***$2,158,000.00***
Critical Facilities	
Fire Station #1	$3,000,000.00
Total:	***$3,000,000.00***

16.3 CURRENT TRENDS

The Kuna Fire District has experienced 43.4% population increase since the previous planning effort. This has resulted in an increase of 66.7% in total call volume (fire and EMS) over the past five years. The increase in call volume is due to the continued growth throughout the District, and we are expecting this trend to increase over the next five years due to the fact we are the second fastest growing area in the State of Idaho.

16.4 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 16-3.
- An assessment of fiscal capabilities is presented in Table 16-4.
- An assessment of administrative and technical capabilities is presented in Table 16-5.
- An assessment of education and outreach capabilities is presented in Table 16-6.
- Classifications under various community mitigation programs are presented in Table 16-7.

Table 16-3. Planning and Regulatory Capability

Plan, Study or Program	Date of Most Recent Update	Comment
Idaho State Code—Title 31	Varies	
National Fire Protection Association Codes	Varies	
Kuna Rural Fire District Policy Code		
The District must adhere to all applicable codes and regulations enforced by Federal, State and Local authorities that influence the District service area.	Varies	
International Wildland Urban Interface Code	2021	
Ada/Canyon Hazard Mitigation Plan	2017	Update in progress
City of Kuna Ordinance and Comprehensive Plan	2015	
Williams Northwest Pipeline (Natural Gas) Public Safety Response Manual		
Intermountain Gas Safety Response Manual		

Table 16-4. Fiscal Capability

Financial Resource	Accessible or Eligible to Use?
Community Development Block Grants	No
Capital Improvements Project Funding	No
Authority to Levy Taxes for Specific Purposes	No
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	No
State-Sponsored Grant Programs	Yes
Development Impact Fees for Homebuyers or Developers	Yes

Table 16-5. Administrative and Technical Capability

Staff/Personnel Resource	Available?
Planners or engineers with knowledge of land development and land management practices ***If Yes, Department /Position:***	No
Engineers or professionals trained in building or infrastructure construction practices ***If Yes, Department /Position:***	No
Planners or engineers with an understanding of natural hazards ***If Yes, Department /Position:***	No
Staff with training in benefit/cost analysis ***If Yes, Department /Position:*** Officer of Administration	Yes
Surveyors ***If Yes, Department /Position:***	No
Personnel skilled or trained in GIS applications ***If Yes, Department /Position:***	No
Scientist familiar with natural hazards in local area ***If Yes, Department /Position:***	No
Emergency manager ***If Yes, Department /Position:*** Chief	Yes
Grant writers ***If Yes, Department /Position:*** Chief	Yes

Table 16-6. Education and Outreach Capability

Criterion	Response
Do you have a public information officer or communications office?	Yes. Fire Chief
Do you have personnel skilled or trained in website development?	Yes. Officer of Administration
Do you have hazard mitigation information available on your website? ***If yes, briefly describe:***	No
Do you use social media for hazard mitigation education and outreach? ***If yes, briefly describe:*** Facebook	Yes
Do you have any citizen boards or commissions that address issues related to hazard mitigation? ***If yes, briefly describe:***	No
Do you have any other programs in place that could be used to communicate hazard-related information? ***If yes, briefly describe:***	No
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 critical community alerts. Both systems are IPAWS enabled and may additionally access that integrated system for public warnings.	Yes

Table 16-7. Community Classifications

	Participating?	Classification	Date Classified
FIPS Code	N/A	N/A	N/A
DUNS#	Yes	028600419	N/A
Community Rating System	N/A	N/A	N/A
Building Code Effectiveness Grading Schedule	N/A	N/A	N/A
Public Protection	Yes	4/8/9/10	2012 (in process of reclassification)
Storm Ready	N/A	N/A	N/A
Firewise	N/A	N/A	N/A

16.5 INTEGRATION REVIEW

For hazard mitigation planning, "integration" means that hazard mitigation information is used in other relevant planning mechanisms, such as 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.

16.5.1 Existing Integration

Existing integration has not been identified as established between local hazard mitigation planning and other local plans and programs, but opportunities exist for future integration as described below.

16.5.2 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:

- **Community Wildfire Protection Plan**—A countywide Community Wildfire Protection Plan is in development and will use data and mapping from this hazard mitigation plan.
- **Kuna Rural Fire District Policy Code** —Updates to the District Policy Code will integrate hazard mapping from this hazard mitigation plan for flood and wildfire hazard area as applicable.

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.

16.6 RISK ASSESSMENT

16.6.1 Jurisdiction-Specific Natural Hazard Event History

Table 16-8 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 16-8. Past Natural Hazard Events

Type of Event	FEMA Disaster #	Date	Damage Assessment
COVID-19 Pandemic	DR-4534	January 20, 2020 and continuing	$3,000
Severe Storm/Thunder Storm—Wind	N/A	08/22/2010	$15,000
Wind	N/A	03/29/2009	$6,666
Flood	N/A	06/04/2006	$750,000
Severe Storm/Thunder Storm—Wind	N/A	07/25/2002	N/A
Severe Storm/Thunder Storm—Wind	N/A	01/16/1999	$1,000

Type of Event	FEMA Disaster #	Date	Damage Assessment
Severe Storm/Thunder Storm—Wind	N/A	09/07/1998	$4,000
Lightning	N/A	09/07/1998	$2,000
Severe Storm/Thunder Storm—Wind	N/A	09/06/1998	$1,600
Hail—Severe Storm/Thunder Storm—Wind	N/A	04/23/1998	$4,000
Hazardous Spill/Fire	N/A	1997	N/A
Wind	N/A	09/17/1997	$400
Lightning/Wild Fire	N/A	07/30/1996	N/A
Lightning/Wild Fire	N/A	1996	N/A
Lightning/Wild Fire	N/A	07/28/1995	$800,000

16.6.2 Hazard Risk Ranking

Table 16-9 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 district operations. Mitigation actions target hazards with high and medium rankings. Rankings are based on the risk assessment for the City of Kuna, local knowledge, and understanding of the hazard events.

Table 16-9. Hazard Risk Ranking

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

16.6.3 Jurisdiction-Specific Vulnerabilities

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. 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:

- The large size of the district service area does not allow for a quick response time to all areas of the district. Overlapping calls and lengthy drive times interfere with rapid response to some areas. If the district had another station to dispatch 911 response from, it would be able to service outlying areas more quickly.

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

16.7 STATUS OF PREVIOUS PLAN ACTIONS

Table 16-10 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 16-10. Status of Previous Plan Actions

Action Item from Previous Plan	Completed	Removed; No Longer Feasible	Carried Over to Plan Update: Check if Yes	Carried Over to Plan Update: Action # in Update
Action KFD-1—Support County-wide initiatives identified in Volume 1			✓	KFD-3
Comment: *Ongoing*				
Action KFD12—Continue to support the implementation, monitoring, maintenance, and updating of the Plan, as defined in Volume 1.			✓	KFD-2
Comment: *Ongoing*				
Action KFD-3—Comply with all applicable building and fire codes, as well as other regulations when constructing or significantly remodeling infrastructure facilities.			✓	KFD-4
Comment: *Ongoing, enforced by adopted codes*				
Action KFD-4—Ensure a reliable source of water for fire suppression (meeting acceptable standards for minimum volume and duration of flow) for existing and new development.			✓	KFD-5
Comment: *Ongoing, enforced by adopted code*				
Action KFD-5—Develop and maintain a coordinated approach between fire jurisdictions and water supply agencies to identify needed improvements to the water distribution system, initially focusing on areas of highest wildfire hazard.			✓	KFD-6
Comment: *Ongoing*				
Action KFD-6—Ensure all dead-end segments of public roads in high hazard areas have at least a "T" intersection turn-around sufficient for typical wildland fire equipment.			✓	KFD-7
Comment: *Ongoing, enforced by adopted code*				
Action KFD-7—Require that development in high fire hazard areas provide adequate access roads, onsite fire protection systems, evacuation signage and fire breaks			✓	KFD-8
Comment: *Ongoing process*				
Action KFD-8—Ensure adequate fire equipment roads or fire road access to developed and open space areas.			✓	KFD-9
Comment: *Ongoing*				
Action KFD-9—Construct a Railroad overpass to access south side of Kuna for emergency access and evacuation routes. Approx. 70 trains pass through and often block access to large portion of the District.		✓		
Comment: *The City of Kuna is doing a feasibility study. Removed since the project is not under district authority.*				
Action KFD-10—Evacuation routes, map and mark evacuation options from southern portion of District. Provide public education in regards to evacuations.		✓		
Comment: *No longer needed. Multiple accessible roadways and options for evacuation are available.*				
Action KFD-11—Increase communication capabilities between agencies, coordination of radio types and use of existing and new systems.			✓	KFD-10
Comment: *Vehicle radios are being updated gradually, but additional ones need update.*				

16.8 HAZARD MITIGATION ACTION PLAN

Table 16-11 lists the actions that make up the hazard mitigation action plan for this jurisdiction. Table 16-12 identifies the priority for each action. Table 16-13 summarizes the mitigation actions by hazard of concern and mitigation type.

Table 16-11. Hazard Mitigation Action Plan Matrix

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline[a]
Action KFD-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 Weather, Flood, Earthquake, Dam/Canal Failure, Landslide						
Existing	1, 2, 3	KRFD	N/A	High	HMGP, BRIC, FMA	Short-term
Action KFD-2—Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan.						
Hazards Mitigated: Wildfire, Extreme Weather, Flood, Earthquake, Drought, Dam/Canal Failure, Landslide, Volcano						
New & Existing	1, 2, 6, 7, 8, 9, 10	KRFD	N/A	Low	Staff Time, General Funds	Short-term
Action KFD-3— Support County-wide initiatives identified in Volume 1.						
Hazards Mitigated: Wildfire, Extreme Weather, Flood, Earthquake, Drought, Dam/Canal Failure, Landslide, Volcano						
New & Existing	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	KRFD	N/A	Low	Staff Time, General Funds	Short-term
Action KFD-4— Comply with all applicable building and fire codes, as well as other regulations when constructing or significantly remodeling infrastructure facilities.						
Hazards Mitigated: Wildfire, Extreme Weather, Flood, Earthquake, Drought, Dam/Canal Failure, Landslide						
New & Existing	3, 4, 5	KRFD	N/A	Low	Staff Time, General Funds	Ongoing
Action KFD-5— Ensure a reliable source of water for fire suppression (meeting acceptable standards for minimum volume and duration of flow) for existing and new development.						
Hazards Mitigated: Wildfire, Drought						
New & Existing	1, 9, 10	KRFD	N/A	Low	Staff Time, General Funds	Ongoing
Action KFD-6— Develop and maintain a coordinated approach between fire jurisdictions and water supply agencies to identify needed improvements to the water distribution system, initially focusing on areas of highest wildfire hazard.						
Hazards Mitigated: Wildfire, Drought						
New & Existing	1, 9, 10	KRFD	N/A	Low	Staff Time, General Funds	Ongoing
Action KFD-7— Ensure all dead-end segments of public roads in high hazard areas have at least a "T" intersection turn-around sufficient for typical wildland fire equipment.						
Hazards Mitigated: Wildfire						
New & Existing	1, 5, 9, 10	KRFD	N/A	Low	Staff Time, General Funds	Ongoing
Action KFD-8— Require that development in high fire hazard areas provide adequate access roads, onsite fire protection systems, evacuation signage and fire breaks						
Hazards Mitigated: Wildfire						
New	1, 4, 5, 9, 10	KRFD	N/A	Low	Staff Time, General Funds	Ongoing
Action KFD-9— Ensure adequate fire equipment road**s** or fire road access to developed and open space areas.						
Hazards Mitigated: Wildfire						
New & Existing	1, 9, 10	KRFD	N/A	Low	Staff Time, General Funds	Ongoing

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline[a]
Action KFD-10— Increase communication capabilities between agencies, coordination of radio types and use of existing and new systems.						
Hazards Mitigated: Wildfire, Extreme Weather, Flood, Earthquake, Dam/Canal Failure, Landslide, Volcano						
New & Existing	7, 9	KRFD	N/A	Low	Staff Time, General Funds	Ongoing
Action KFD-11— Add hazard mitigation information to the District website, including tips for residents to create defensible space around their homes.						
Hazards Mitigated: Wildfire						
New & Existing	2, 8	KRFD	N/A	Low	Staff Time, General Funds	Short-term
Action KFD-12— Engage in a feasibility study to determine potential location and benefits of building a new station to serve outlying areas.						
Hazards Mitigated: Wildfire, Extreme Weather, Flood, Earthquake, Dam/Canal Failure, Landslide						
New & Existing	2, 10	KRFD	N/A	Low	HMGP, BRIC	Short-term

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 16-12. 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	Low	Low	Yes	No	Yes	High	Low
3	10	Low	Low	Yes	No	Yes	High	Low
4	3	Medium	Low	Yes	No	Yes	High	Low
5	3	Medium	Low	Yes	No	Yes	High	Low
6	3	Medium	Low	Yes	No	Yes	High	Low
7	4	Medium	Low	Yes	No	Yes	High	Low
8	5	Medium	Low	Yes	No	Yes	High	Low
9	3	Medium	Low	Yes	No	Yes	High	Low
10	2	Medium	Low	Yes	No	Yes	High	Low
11	2	Low	Low	Yes	No	Yes	High	Low
12	2	Low	High	No	Yes	No	Low	Medium

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

Table 16-13. Analysis of Mitigation Actions

Hazard Type	Action Addressing Hazard, by Mitigation Type[a]							
	Prevention	Property Protection	Public Education & Awareness	Natural Resource Protection	Emergency Services	Structural Projects	Climate Resilient	Community Capacity Building
High-Risk Hazards								
Wildfire	KFD-4, 8, 9	KFD-1, 5	KFD-11		KFD-10			KFD-2, 3, 6, 7, 12
Extreme Weather	KFD-4	KFD-1			KFD-10			KFD-2, 3, 12
Medium-Risk Hazards								
Flood	KFD-4	KFD-1			KFD-10			KFD-2, 3, 12
Earthquake	KFD-4	KFD-1			KFD-10			KFD-2, 3, 12
Drought	KFD-4	KFD-5						KFD-2, 3, 6
Low-Risk Hazards								
Dam/Canal Failure	KFD-4	KFD-1			KFD-10			KFD-2, 3, 12
Landslide	KFD-4	KFD-1			KFD-10			KFD-2, 3, 12
Volcano								KFD-2, 3, 10

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

16.9 PUBLIC OUTREACH

Table 16-14 lists public outreach activities for this jurisdiction.

Table 16-14. Local Public Outreach

Local Outreach Activity	Date	Number of People Involved
Elementary School Public Safety	October each year	Several hundred
Career Day and Classes for Mock Interviews	October each year	200

16.10 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.
- **Kuna Rural Fire District Insurance Records**—Insurance records were reviewed to determine asset values
- **Kuna Rural Fire District Website**—The website was used in the capability assessment and action plan development.

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.

17. MERIDIAN DEVELOPMENT CORPORATION

17.1 LOCAL HAZARD MITIGATION PLANNING TEAM

Primary Point of Contact
Ashley Squyres, Administrator
Mailing Address: 104 East Fairview Ave, #239
Meridian, ID 83642
Telephone: 208-830-7786
e-mail: meridiandevelopmentcorp@gmail.com

Alternate Point of Contact
Dave Winder, Board Chairman
Mailing Address: 104 East Fairview Ave, #239
Meridian, ID 83642
Telephone: 208-866-0610
e-mail: dave.winder@paccra.com

This annex was developed by the local hazard mitigation planning team, whose members are listed in Table 17-1.

Table 17-1. Local Hazard Mitigation Planning Team Members

Name	Title
Ashley Squyres	Administrator

17.2 JURISDICTION PROFILE

17.2.1 Overview

The Meridian Development Corporation (MDC) was established by Resolution No. 01-367 of the City Council of the City of Meridian, Idaho adopted July 24, 2001 to function as the City's urban renewal agency. It is an independent agency, authorized under the authority of the Idaho Urban Renewal Law of 1965, as amended, Chapter 20, Title 50, Idaho Code.

The Meridian Development Corporation is committed to the economic stimulation and expansion of Downtown Meridian into a thriving area that provides opportunities in which to live, work, and play. Renewal and redevelopment will be supported through strategic use of resources to create successful projects that will attract and serve the people of Meridian.

The Meridian City Council created the agency and appointed nine Commissioners for rotating three-year terms. MDC has its own guiding documents, budget, and board.

The Meridian Development Corporation board assumes responsibility for the adoption of this plan; the City of Meridian will oversee its implementation.

- Funding sources: Tax Increment Financing

17.2.2 Service Area

The District service area is all located within the City of Meridian city limits. It includes several tax increment financing (TIF) districts.

The District takes in about 34 square miles and serves a population of 127,890.

17.2.3 Assets

The District does not own property, equipment, or critical facilities.

17.3 CURRENT TRENDS

At this time, each of our TIF districts are redeveloping and growing. This includes our Downtown District and our Ten Mile District along with sub-districts located in Downtown.

17.4 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 17-2.
- An assessment of fiscal capabilities is presented in Table 17-3.
- An assessment of administrative and technical capabilities is presented in Table 17-4.
- An assessment of education and outreach capabilities is presented in Table 17-5.
- Classifications under various community mitigation programs are presented in Table 17-6.

Table 17-2. Planning and Regulatory Capability

Plan, Study or Program	Date of Most Recent Update	Comment
Destination Downtown Master Plan		City of Meridian and MDC
Downtown Meridian Transportation Management Plan	2005	City of Meridian and MDC
City of Meridian Downtown Streetscape Design Guidelines	2007	City of Meridian and MDC
Downtown Marketing Strategy	2004	MDC
Ten Mile District Plan	2016	City of Meridian and MDC

Table 17-3. Fiscal Capability

Financial Resource	Accessible or Eligible to Use?
Community Development Block Grants	Yes
Capital Improvements Project Funding	Yes, through TIF financing
Authority to Levy Taxes for Specific Purposes	This is what TIF financing is for - urban renewal
User Fees for Water, Sewer, Gas or Electric Service	No
Incur Debt through General Obligation Bonds	Available, but the board chooses not to bond.
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	Yes
Development Impact Fees for Homebuyers or Developers	No
Other *If yes, specify:*	No

Table 17-4. Administrative and Technical Capability

Staff/Personnel Resource	Available?
Planners or engineers with knowledge of land development and land management practices *If Yes, Department /Position:* Ashley Squyres	Yes
Engineers or professionals trained in building or infrastructure construction practices	No
Planners or engineers with an understanding of natural hazards *If Yes, Department /Position:* Ashley Squyres	Yes
Staff with training in benefit/cost analysis *If Yes, Department /Position:* Ashley Squyres	Yes
Surveyors	No
Personnel skilled or trained in GIS applications	No
Scientist familiar with natural hazards in local area	No
Emergency manager	No
Grant writers *If Yes, Department /Position:* Ashley Squyres	Yes
Other *If Yes, Department /Position:*	No

Table 17-5. Education and Outreach Capability

Criterion	Response
Do you have a public information officer or communications office?	Yes
Do you have personnel skilled or trained in website development?	No
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? *If yes, briefly describe:*	No
Do you have any other programs in place that could be used to communicate hazard-related information?	No
Do you have any established warning systems for hazard events? *If yes, briefly describe:*	No

Table 17-6. Community Classifications

	Participating?	Classification	Date Classified
FIPS Code	N/A	N/A	N/A
DUNS#	Yes	808762434	N/A
Community Rating System	N/A	N/A	N/A
Building Code Effectiveness Grading Schedule	N/A	N/A	N/A
Public Protection	No	N/A	N/A
Storm Ready	No	N/A	N/A
Firewise	No	N/A	N/A

17.5 INTEGRATION REVIEW

For hazard mitigation planning, "integration" means that hazard mitigation information is used in other relevant planning mechanisms, such as 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.

17.5.1 Existing Integration

There is currently no existing integration between local hazard mitigation planning and district plans and programs.

17.5.2 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:

- **Destination Downtown Master Plan**—may include hazard mitigation plan hazard mapping when looking at future development
- **Ten Mile District Plan**—may include hazard mitigation plan hazard mapping when looking at future development

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.

17.6 RISK ASSESSMENT

17.6.1 Jurisdiction-Specific Natural Hazard Event History

Table 17-7 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 17-7. 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

17.6.2 Hazard Risk Ranking

Table 17-8 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 district operations. Mitigation actions target hazards with high and medium rankings.

Table 17-8. 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

17.6.3 Jurisdiction-Specific Vulnerabilities

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. No additional jurisdiction-specific issues have been identified after a review of the results of the risk assessment, public involvement strategy, and other available resources.

17.7 HAZARD MITIGATION ACTION PLAN

Table 17-9 lists the actions that make up the hazard mitigation action plan for this jurisdiction. Table 17-10 identifies the priority for each action. Table 17-11 summarizes the mitigation actions by hazard of concern and mitigation type.

Table 17-9. Hazard Mitigation Action Plan Matrix

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline[a]
Action MDC-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 Weather, Flood, Earthquake, Dam/Canal Failure, Landslide					
Existing	3, 8, 9	City of Meridian	MDC	High	HMGP, BRIC, FMA	Short-term
Action MDC-2—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					
New & Existing	All	MDC		Low	Staff Time, General Funds	Short-term
Action MDC-3— Support county-wide initiatives identified in Volume 1.						
Hazards Mitigated:	Wildfire, Extreme Weather, Flood, Earthquake, Dam/Canal Failure, Landslide, Drought, Volcano					
Existing	All	MDC		Low	Staff Time, General Funds	Short-term
Action MDC-4— Integrate Hazard Mitigation Plan hazard mapping into district plan updates, as applicable.						
Hazards Mitigated:	Wildfire, Extreme Weather, Flood, Earthquake, Dam/Canal Failure, Landslide					
New & Existing	1, 2, 6	MDC		Low	Staff Time, General Funds	Short-term
Action MDC-5— Construct Ninemile Creek Flood Mitigation Project as designed to eliminate flood risk to people, property and critical lifelines. The proposed improvements include constructing storm drain infrastructure and pipeline from Story Park to the outlet into the existing Ninemile Creek Channel north of the Union Pacific Railroad tracks. (Coordinates with the City of Meridian Action M-13.)						
Hazards Mitigated:	Flood					
New & Existing	1, 3, 9, 10	MDC	City of Meridian	$4.5 Million	HMGP, BRIC, MDC, FMA	Short-term

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 17-10. 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	10	Low	Low	Yes	No	Yes	High	Low
3	10	Low	Low	Yes	No	Yes	High	Low
4	3	Low	Low	Yes	No	Yes	High	Low
5	4	High	Medium	Yes	Yes	No	Medium	High

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

Table 17-11. Analysis of Mitigation Actions

Hazard Type	Action Addressing Hazard, by Mitigation Type[a]							
	Prevention	Property Protection	Public Education & Awareness	Natural Resource Protection	Emergency Services	Structural Projects	Climate Resilient	Community Capacity Building
Medium-Risk Hazards								
Extreme Weather		MDC-1						MDC-2, 3, 4
Flood		MDC-1				MDC-5		MDC-2, 3, 4
Earthquake		MDC-1						MDC-2, 3, 4
Low-Risk Hazards								
Drought								MDC-2, 3
Dam/Canal Failure		MDC-1						MDC-2, 3, 4
Landslide		MDC-1						MDC-2, 3, 4
Wildfire		MDC-1						MDC-2, 3, 4
Volcano								MDC-2, 3

a. See the introduction to this volume for explanation of mitigation types.
b. Based on current community capacity, this jurisdiction did not identify a need for expansion of education and outreach or administrative and technical capabilities. 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.

17.8 INFORMATION SOURCES USED FOR THIS ANNEX

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

- **Destination Downtown Master Plan—**The Master Plan was reviewed for the full capability assessment and for identifying opportunities for action plan integration.
- **Downtown Meridian Transportation Management Plan—** Reviewed for the full capability assessment and for identifying opportunities for action plan integration.
- **City of Meridian Downtown Streetscape Design Guidelines—** Reviewed for the full capability assessment.
- **Downtown Marketing Strategy—** Reviewed for the full capability assessment.
- **Ten Mile District Plan—** Reviewed for the full capability assessment.

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.

18. North Ada County Fire & Rescue District

18.1 Local Hazard Mitigation Planning Team

Primary Point of Contact
Shelley Young, Fire District Administrator
5800 Glenwood Street
Garden City, ID 83714
Telephone: 208-375-0906
e-mail Address: shelley@nacfire.org

Alternate Point of Contact
Jeff Ramey, Commissioner/Chairman
5800 Glenwood Street
Garden City, ID 83714
Telephone: 208-375-0906
e-mail Address: chiefncathy@gmail.com

This annex was developed by the local hazard mitigation planning team, whose members are listed in Table 18-1.

Table 18-1. Local Hazard Mitigation Planning Team Members

Name	Title
Shelley Young	Fire District Administrator

18.2 Jurisdiction Profile

18.2.1 Overview

The North Ada County Fire & Rescue (NACFR) District is the result of the 1960s-era merger of Cole Fire District and Collister Fire District. A three-member elected board of officials governs NACFR. The Board assumes responsibility for adoption of this plan.

NACFR is funded by a levy on property values within the District. NACFR covers 34 square miles, with a roughly equal mix of urban commercial and suburban and rural residential areas and serves a population of approximately 24,500. The largest percentage of the population is located in the City of Garden City. The hazard environment is notable for a substantial hazardous materials presence in the commercial area, a large swath of urban interface in the Boise foothills and along the Boise River, and the presence of the Boise River itself. Station 16 has one of the highest run volumes of any fire station in the State of Idaho.

NACFR owns three fire stations: two within the city limits of Garden City (Stations 16 and 18), and one in Hidden Springs (formerly Station 20), located in the foothills north of Boise. As of June 15, 2022, the Hidden Springs Station (now Eagle Fire Station 5) has a full time staff and response due to a contract for service with the Eagle Fire District. To date, funding has not been available to allow NACFR to staff Station 18 for structural fire and emergency medical response. Ada County Paramedics does staff Station 18 on a part-time basis.

In 2009 NACFR signed a Joint Powers Agreement with Boise City Fire Department to provide staffing and oversee Operations for NACFR. In 2021 NACFR signed an additional Joint Powers Agreement with Eagle Fire Department to provide staffing and oversee operations for NACFR in a portion of the NACFR geographical area located near what is now Eagle Fire Station 5 and within the area of unincorporated Ada County.

The North Ada County Fire & Rescue Board of Commissioners assumes responsibility for the adoption of this plan; North Ada County Fire & Rescue District will oversee its implementation.

The District participates in the Public Protection Class Rating System and currently has a rating of 3 within City limits and 3W in areas of unincorporated Ada County located within district boundaries (subdistrict #1) where a water system and hydrants are present.

The district serves a population of 24,500 as of April 2022. Its service area covers an area of 34 square miles, which has a total potential taxable value of $3.7 billion dollars.

18.2.2 Assets

Table 18-2 summarizes the assets of the District and their value.

Table 18-2. Special Purpose District Assets

Asset	Value
Property	
1 acre of land	$50,000
Equipment	
2017 Pierce Engine Arrow XT	$650,000
2004 Pierce Enforcer	$250,000
2004 Pierce Enforcer	$150,000
2003 Pierce Water Tender	$100,000
2005 GMC 5500 Brush Truck	$100,000
2005 GMC 5500 Brush Truck	$100,000
2008 Kawasaki Mule UTV	$8,000
Total:	***$1,308,000***
Critical Facilities	
Fire Station 16	$1,500,000
Fire Station 18	$3,000,000
Fire Station 20	$2,000,000
Total:	***$6,500,000***

18.3 CURRENT TRENDS

Due to reductions in revenue, in 2010, NACFR was forced to close one of its two Garden City Fire Stations. The entire State of Idaho is experiencing unprecedented growth, and the NACFR district, including the Boise River corridor, is growing exponentially. NACFR currently staffs Station 16 in Garden City with a BLS Engine Company and Station 5 located to the North with a BLS Engine Company. Station 5 responds in a rural area experiencing record residential growth.

In the longer term, local land use designations allow for an increase in light commercial and residential land uses within the service area. In FY2021 developers began building multi-story structures along the Boise River Corridor, and for the first time the NACFR district will include buildings of more than 5 stories with an 18-story condominium and commercial use structure planned within the next 3 years. This increase may result in an increase in hazards and will expose a larger, more densely configured population to them. This will also result in a projected increase in call volume.

18.4 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 18-3.
- An assessment of fiscal capabilities is presented in Table 18-4.
- An assessment of administrative and technical capabilities is presented in Table 18-5.
- An assessment of education and outreach capabilities is presented in Table 18-6.
- Classifications under various community mitigation programs are presented in Table 18-7.

Table 18-3. Planning and Regulatory Capability

Plan, Study or Program	Date of Most Recent Update	Comment
Idaho Code	2021	Annually based on legislature
Idaho Emergency Operations Plan	2019	
Idaho State Hazard Mitigation Plan	2018	
Ada County Flood Plan	2018	
Ada County Hazmat Plan	2018	
Ada County Wildfire Response Plan	2018	
Ada County Mass Casualty Incident Plan	N/A	
Ada County Multi-Hazard Mitigation Plan	2017	
Ada County Wildland-Urban Interface Wildfire Mitigation Plan	N/A	
City of Garden City Evacuation Plan	N/A	
City of Garden City Code 4-13-1	N/A	
City of Garden City Code 8-3	N/A	
NACFR Resolutions	2021	Annually based on need
NACFR Strategic Plan	2018	
Boise City Fire Department Standard of Cover-2021	2021	
National Fire Protection Association Standards and Recommended Practices (various)	N/A	
Eagle Fire Department Standard of Cover		

Table 18-4. Fiscal Capability

Financial Resource	Accessible or Eligible to Use?
Community Development Block Grants	No
Capital Improvements Project Funding	No
Authority to Levy Taxes for Specific Purposes	Yes
User Fees for Water, Sewer, Gas or Electric Service	No
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	Yes
Development Impact Fees for Homebuyers or Developers	Yes

Table 18-5. Administrative and Technical Capability

Staff/Personnel Resource	Available?
Planners or engineers with knowledge of land development and land management practices ***If Yes, Department /Position:*** Contract Support	Yes
Engineers or professionals trained in building or infrastructure construction practices ***If Yes, Department /Position:*** Contract Support	Yes
Planners or engineers with an understanding of natural hazards ***If Yes, Department /Position:*** Contract Support	Yes
Staff with training in benefit/cost analysis ***If Yes, Department /Position:*** Contract Support	Yes
Surveyors	No
Personnel skilled or trained in GIS applications ***If Yes, Department /Position:*** Contract Support	Yes
Scientist familiar with natural hazards in local area	No
Emergency manager ***If Yes, Department /Position:*** Ada County Emergency Management; Contract Support – City Boise (Fire) Emergency Management;	Yes
Grant writers ***If Yes, Department /Position:*** Contract Support	Yes

Table 18-6. Education and Outreach Capability

Criterion	Response
Do you have a public information officer or communications office?	Yes. Contract Support
Do you have personnel skilled or trained in website development?	Yes. Contract Support
Do you have hazard mitigation information available on your website? ***If yes, briefly describe:*** Link to ACEMHMP	Yes
Do you use social media for hazard mitigation education and outreach? ***If yes, briefly describe:*** Social media outreach program with accounts on both Facebook and Twitter	Yes. Contract Support
Do you have any citizen boards or commissions that address issues related to hazard mitigation? ***If yes, briefly describe:*** Hidden Springs HOA	Yes

Criterion	Response
Do you have any other programs in place that could be used to communicate hazard-related information? ***If yes, briefly describe:*** Website-currently not utilized	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 critical community alerts. Both systems are IPAWS enabled and may additionally access that integrated system for public warnings.	Yes

Table 18-7. Community Classifications

	Participating?	Classification	Date Classified
FIPS Code	No	N/A	N/A
DUNS#	Yes	118061687	N/A
Community Rating System	N/A	N/A	N/A
Building Code Effectiveness Grading Schedule	N/A	N/A	N/A
Public Protection	Yes	3	2013
Storm Ready	Yes	N/A	N/A
Firewise	Yes	N/A	N/A

18.5 INTEGRATION REVIEW

For hazard mitigation planning, "integration" means that hazard mitigation information is used in other relevant planning mechanisms, such as 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 future integration. 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.

18.5.1 Existing Integration

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

- **Firewise Communities—**The Firewise program encourages homeowners (in this case the Hidden Springs HOA) to prepare for wildland/urban interface fires.

18.5.2 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:

- **Firewise Communities-**The District will soon undertake a strategic planning effort to assess the impact of projected growth in the foothills on fire and EMS services. The Firewise process may provide input to the strategic planning process.

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.

18.6 RISK ASSESSMENT

18.6.1 Jurisdiction-Specific Natural Hazard Event History

Table 18-8 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 18-8. Past Natural Hazard Events

Type of Event	FEMA Disaster #	Date	Damage Assessment
Goose Fire	N/A	10/6/2020	441 acres burned, numerous evacuations
COVID-19 Pandemic	DR-4534	1/20/2020-Ongoing	N/A
Flooding	DR-4342	3/29/2017	Public Assistance County-wide: $4,493,792
Winter Storms	N/A	December 2016	Extreme snowfall impacted services
Highway 16 Fire	N/A	2010	5 homes lost
McFarland Fire	N/A	2008	N/A
Oregon Trail Fire	N/A	2008	18 homes lost; 1 human life lost
Wildfires	DR-1341	2000	N/A
Foothills flooding	N/A	1959, 1969, 1979, 1982, 1986, 1997	In 1969 approximately 500 houses damaged by flash flooding and landslides.
Boise River floods	N/A	1936, 1938, 1943, (Boise River flood control dams built late 40s-50s) 1963, 1964, 1965, 1983, 1993, 1997, 1998	N/A
Challis Earthquake	N/A	1983	N/A
Mt. St. Helens eruption	N/A	1980	N/A

18.6.2 Hazard Risk Ranking

Table 18-9 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 district operations. Mitigation actions target hazards with high and medium rankings.

Table 18-9. Hazard Risk Ranking

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

18.6.3 Jurisdiction-Specific Vulnerabilities

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. 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:

- Fire Station located in the flood plain.
- Isolated development in the foothills exposed to urban interface wildfires, with limited access and extended response times.
- Fire Stations need retrofitting for earthquakes

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

18.7 STATUS OF PREVIOUS PLAN ACTIONS

Table 18-10 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 18-10. Status of Previous Plan Actions

Action Item from Previous Plan	Completed	Removed; No Longer Feasible	Carried Over to Plan Update	
			Check if Yes	Action # in Update
Action NACFR-1—Develop consistent standards for development in high-risk/underserved areas		✓		
Comment: *Removed as written, but reworded to be more specific in action plan update, as NACFR-3*				
Action NACFR-2—Conduct wildland-urban interface GIS-based hazard assessment			✓	NACFR-5
Comment: *Ongoing capability.*				
Action NACFR-3—Perform Earthquake Retrofitting of Fire Stations 16, 18, 20			✓	NACFR-6
Comment: *No progress*				
Action NACFR 4—Continue Firewise Community program for residents in the foothills			✓	NACFR-4
Comment: *Ongoing capability; this is currently done on behalf of NACFR by Boise Fire Department.*				
Action NACFR-5—Conduct Location/Construction Study for new Flood/Earthquake resistant Fire Station to replace Station 16			✓	NACFR-7
Comment: *No progress*				
Action NACFR-6—Construct new flood/earthquake resistant fire station			✓	NACFR-8
Comment: *No progress*				
Action NACFR-7—Campaign to get neighborhoods to revise covenants and homeowners' association (HOA) rules to mitigate natural hazards.			✓	NACFR-9
Comment: *WUI/Firewise education programs ongoing, other hazards currently not being addressed;*				
Action NACFR-8—Modify NACFR web-site to include links to hazard mitigation and preparedness sites.			✓	NACFR-10
Comment: *Ongoing capability*				
Action NACFR-9—Establish Strategic Planning process for foothills			✓	NACFR-11
Comment: *Ongoing capability*				

Action Item from Previous Plan	Completed	Removed; No Longer Feasible	Carried Over to Plan Update: Check if Yes	Carried Over to Plan Update: Action # in Update
Action NACFR-10—Develop/enhance ability to capture perishable data, including dollar values, after significant events			✓	NACFR-12
Comment: *No progress*				
Action NACFR-11—Actively participate in Plan maintenance protocols as defined in Volume 1 of the Multi-Hazard Mitigation Plan.			✓	NACFR-2
Comment: *Ongoing capability*				
Action NACFR-12—Support the county-wide initiatives identified in Volume 1 of the Multi-Hazard Mitigation Plan.			✓	NACFR-13
Comment: *Ongoing capability*				
Action NACFR-13—Provide fire safety, fire prevention and Firewise education to neighborhoods, schools and community via the internet, social media and direct public outreach.			✓	NACFR-14
Comment: *Ongoing capability*				
Action NACFR-14—Meet and coordinate with private organizations, state, federal and other local agencies to develop, conduct and maintain wildfire mitigation projects.			✓	NACFR-15
Comment: *Ongoing capability. This is currently done on behalf of NACFR by Boise Fire Department.*				

18.8 HAZARD MITIGATION ACTION PLAN

Table 18-11 lists the actions that make up the hazard mitigation action plan for this jurisdiction. Table 18-12 identifies the priority for each action. Table 18-13 summarizes the mitigation actions by hazard of concern and mitigation type.

Table 18-11. Hazard Mitigation Action Plan Matrix

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline[a]
Action NACFR-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: Flood						
Existing	2, 3	NACFR	N/A	High	HMGP, BRIC, FMA	Short-term
Action NACFR-2—Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan.						
Hazards Mitigated: All						
New & Existing	All	NACFR	N/A	Low	Staff Time, General Funds	Short-term
Action NACFR-3— Update, adopt, and enforce a new Wildland Urban Interface (WUI) Code to replace the existing code. Improve and update existing WUI hazard zones. (Coordinates with City of Boise Action B-11, Whitney Fire Protection District Action WFD-3)						
Hazards Mitigated: Wildfire						
New & Existing	1, 2, 4, 5, 6, 9, 10	Boise Fire Department	NACFR, Whitney Fire	Low	Local	Short-Term
Action NACFR-4— Continue Firewise Community program for residents in the foothills and promote adoption of Firewise for development within the wildland urban interface overlay. (Coordinates with City of Boise Action B-21, Whitney Fire Protection District WFD-5)						
Hazards Mitigated: Wildfire						
New and Existing	1, 2, 5, 6, 8, 9	Boise Fire Department	NACFR, Whitney Fire	Low	Local funds	Short-term and ongoing

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline[a]
Action NACFR-5— 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. (Coordinates with City of Boise Action B-7 and Whitney Fire						
Hazards Mitigated:	Wildfire					
New and Existing	2, 4, 6, 8, 9, 10	Boise Fire Department	NACFR	Medium	Western States Grant, HMGP Grant, Local	Short-term and ongoing
Action NACFR-6— Perform Earthquake Retrofitting of Fire Stations 16, 18, 20						
Hazards Mitigated:	Earthquake					
Existing	1, 2, 3, 10	NACFR	N/A	High	BRIC, NACFR	Long-Term
Action NACFR-7— Conduct Location/Construction Study for new Flood/Earthquake resistant Fire Station to replace Station 16						
Hazards Mitigated:	Flood, Earthquake					
Existing	1, 2, 3, 10	NACFR	N/A	High	BRIC, NACFR	Long-Term
Action NACFR-8— Construct new flood/earthquake resistant fire station						
Hazards Mitigated:	Flood, Earthquake					
New	1, 2, 3, 10	NACFR	N/A	HIGH	BRIC, NACFR	Long-Term
Action NACFR-9— Campaign to get neighborhoods to revise covenants and homeowners' association (HOA) rules to mitigate natural hazards. (Coordinates with City of Boise Action B-22)						
Hazards Mitigated:	Flood, Earthquake, Wildfire					
New and Existing	2, 5, 6, 8, 9	Boise Fire Department	NACFR	Low	Staff Time, General Fund	Short-term
Action NACFR-10— Modify NACFR website to include links to hazard mitigation and preparedness sites.						
Hazards Mitigated:	All					
Existing	8	NACFR	N/A	Low	NACFR Staff Time	Short/Ongoing
Action NACFR-11— Establish Strategic Planning process for foothills. (Coordinates with City of Boise Action B-23, Eagle Fire Protection District Action EFD-12)						
Hazards Mitigated:	Wildfire					
Existing	2, 3, 4, 5, 6, 9	Boise Fire Department	Eagle Fire Protection, NACFR	Medium	Rural Fire Assistance Grant, National Fire Plan	Long-term/Ongoing
Action NACFR-12— Develop/enhance ability to capture perishable data, including dollar values, after significant events. (Coordinates with City of Boise Action B-24)						
Hazards Mitigated:	All					
Existing	2	Boise Fire Department	NACFR	Low	Local Funds	Ongoing
Action NACFR-13—Support the county-wide initiatives identified in Volume 1 of the Multi-Hazard Mitigation Plan.						
Hazards Mitigated:	All					
New and Existing	All	NACFR	N/A	Low	NACFR	Short-Term/Ongoing
Action NACFR-14— 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 City of Boise Action B-8, Whitney Fire Protection District Action WFD-7)						
Hazards Mitigated:	Wildfire					
New and Existing	1, 8, 9, 10	Boise Fire Department	NACFR, Whitney Fire	Low	Western State Grant, Local	Short-term and Ongoing

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline[a]
Action NACFR-15— Meet and coordinate with private organizations, state, federal and other local agencies to develop, conduct and maintain wildfire mitigation and fuel-reduction projects, including prescribed fire (Rx fire), pile-burning and managed fire. Increase capacity to conduct these projects through hiring personnel and expenditures for equipment and biological control methods. (Coordinates with City of Boise Action B-15, Flood Control District #10 Action FCD10-12, Whitney Fire Protection District WFD-8) *Hazards Mitigated:* Wildfire						
New and Existing	1, 6, 9, 10	Boise Fire Department	FCD #10, NACFR, Whitney Fire	Low	Staff time; general fund	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 18-12. 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	2	High	High	Yes	Yes	No	Medium	High
2	10	Low	Low	Yes	Yes	Yes	High	Low
3	3	Medium	Low	Yes	Yes	Yes	Medium	Medium
4	6	High	Low	Yes	Yes	Yes	High	High
5	6	High	Medium	Yes	Yes	Yes	Medium	Medium
6	4	High	High	Yes	Yes	No	Medium	High
7	4	Medium	High	Yes	Yes	No	Medium	Medium
8	4	High	High	Yes	Yes	No	Medium	High
9	5	High	Low	Yes	Yes	Yes	Medium	Medium
10	1	Medium	Low	Yes	Yes	Yes	High	Medium
11	6	Medium	Medium	Yes	Yes	Yes	High	High
12	1	Low	Low	Yes	Yes	Yes	Medium	Medium
13	10	Medium	Low	Yes	Yes	Yes	Medium	Medium
14	2	Medium	Low	Yes	No	Yes	High	Low
15	4	High	Low	Yes	No	Yes	High	Low

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

Table 1813. Analysis of Mitigation Actions

Hazard Type	Action Addressing Hazard, by Mitigation Type[a]							
	Prevention	Property Protection	Public Education & Awareness	Natural Resource Protection	Emergency Services	Structural Projects	Climate Resilient	Community Capacity Building[b]
High-Risk Hazards								
Flood	NACFR-2, 3, 9	NACFR-1, 6, 7, 8	NACFR-9, 10, 13					NACFR-3, 9, 12
Severe Weather	NACFR-2, 3		NACFR-10, 13					NACFR-3, 12

Hazard Type	Action Addressing Hazard, by Mitigation Type[a]							
	Prevention	Property Protection	Public Education & Awareness	Natural Resource Protection	Emergency Services	Structural Projects	Climate Resilient	Community Capacity Building[b]
Medium-Risk Hazards								
Wildfire	NACFR-2, 3, 4, 9, 11	NACFR-4, 3, 14, 15	NACFR-4, 5, 3, 9, 10, 13, 14, 15	NACFR-14, 15	NACFR-11, 15			NACFR-3, 4, 5, 9, 11, 12, 14, 15
Earthquake	NACFR-2, 3, 5, 9	NACFR-6, 7, 8	NACFR-5, 9, 10, 13					NACFR-3, 9, 12
Low-Risk Hazards								
Dam Failure	NACFR-2, 3		NACFR-10, 13					NACFR-12
Landslide	NACFR-2, 3		NACFR-10, 13					NACFR-3, 12
Drought	NACFR-2, 3		NACFR-10, 13					NACFR-3, 12
Volcano								NACFR-12

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

18.9 PUBLIC OUTREACH

Table 18-14 lists public outreach activities for this jurisdiction.

Table 18-14. Local Public Outreach

Local Outreach Activity	Date	Number of People Involved
Accomplished through a JPA with Boise City Fire Department	Continuously	N/A
Accomplished through a JPA with Eagle Fire District	Continuously	N/A

18.10 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.
- **2018 North Ada County Fire & Rescue District Strategic Plan** – This document is driving actions identified in the Ada County Multi-Hazard Mitigation Plan.

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.

19. STAR JOINT FIRE PROTECTION DISTRICT

19.1 LOCAL HAZARD MITIGATION PLANNING TEAM

Primary Point of Contact
Greg Timinsky Fire Chief
11665 W State St
Star, ID 83669
Telephone208.286.7772
e-mail Address: gtiminsky@starfirerescue.org

Alternate Point of Contact
Robin Ward
11665 W State St
Star, ID 83669
Telephone: 208.286.7772
e-mail Address: rward@starfirerescue.org

This annex was developed by the local hazard mitigation planning team, whose members are listed in Table 19-1.

Table 19-1. Local Hazard Mitigation Planning Team Members

Name	Title
Greg Timinsky	Fire Chief

19.2 JURISDICTION PROFILE

19.2.1 Overview

The Star Joint Fire Protection District (SFD) was established in 1953 and is comprised of 55 square miles of protection area that falls within the counties of Ada & Canyon. The fire department was originally started because there was no fire protection for this area. Some local farmers and residents pulled together to organize an all-volunteer fire department and purchased an engine. As years went on the fire department had bake sales and other fundraising events to purchase other equipment as well as pay for fuel, power and maintenance of the station and equipment. In 1953 the residents decided that it was time to formalize the fire department and form a taxing fire district that evolved from an all-volunteer to a combination fire department. The fire district encompasses the City of Star, rural area, farming ground, and foothills, with a population of 16,500 district wide. The fire district evolved from just fire protection to fire and medical emergency responses as well as structural firefighting, wildland firefighting, and other tasks that we are called to do. The district is governed by a board consisting of three commissioners.

The Star Fire Protection District assumes responsibility for the adoption of this plan; Star Fire Protection District will oversee its implementation.

The District participates in the Public Protection Class Rating System and currently has a rating of 3/10.

19.2.2 Service Area

The District service area covers 55 square miles, serving a population of 16,500.

19.2.3 Assets

Table 19-2 summarizes the assets of the District and their value.

Table 19-2. Special Purpose District Assets

Asset	Value
Property	
3 Acres	450,000.00
Equipment	
Engine 51	620,000.00
Engine 52	400,000.00
Brush 51	375,000.00
Brush 52	100,000.00
Training Engine	50,000.00
Total:	***$1,995,000.00***
Critical Facilities	
Station 51	$9,500,000.00
Station 52	$4,000.000.00
Total:	***$13,500,000.00***

19.3 CURRENT TRENDS

The demand for the services we provide have been increasing for the last 10 years on an average rate of 7% as calculated by us using emergency responses per year. The City of Star population has increased by approximately 70% over the last 10 years and projections by the county were in the next 10 to 15 years we would be at 25,000 residents. We are partnering with Middleton Fire Department's to jointly buy, build and staff future stations as demand for services arises. Star currently now staffed station on Kingsbury Rd Middleton Idaho in Star Fire Districts area that is being jointly staffed with Middleton Fire.

19.4 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 19-3.
- An assessment of fiscal capabilities is presented in Table 19-4.

- An assessment of administrative and technical capabilities is presented in Table 19-5.
- An assessment of education and outreach capabilities is presented in Table 19-6.
- Classifications under various community mitigation programs are presented in Table 19-7.

Table 19-3. Planning and Regulatory Capability

Plan, Study or Program	Date of Most Recent Update	Comment
The Ada County Multi-Hazard Mitigation Plan	2017	Update in progress

Table 19-4. Fiscal Capability

Financial Resource	Accessible or Eligible to Use?
Community Development Block Grants	No
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: Plan Review Fees	
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	No
If yes, specify:	

Table 19-5. Administrative and Technical Capability

Staff/Personnel Resource	Available?
Planners or engineers with knowledge of land development and land management practices	No
Engineers or professionals trained in building or infrastructure construction practices	No
Planners or engineers with an understanding of natural hazards	No
Staff with training in benefit/cost analysis	No
Surveyors	No
Personnel skilled or trained in GIS applications	No
Scientist familiar with natural hazards in local area	No
Emergency manager	No
Grant writers	No
Other	No

Table 19-6. Education and Outreach Capability

Criterion	Response
Do you have a public information officer or communications office?	Yes (Fire Chief Greg Timinsky)
Do you have personnel skilled or trained in website development?	Yes (David Sparks)
Do you have hazard mitigation information available on your website? ***If yes, briefly describe:*** Safe burning practices	Yes
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? ***If yes, briefly describe:***	No
Do you have any other programs in place that could be used to communicate hazard-related information? ***If yes, briefly describe:***	No
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 critical community alerts. Both systems are IPAWS enabled and may additionally access that integrated system for public warnings.	Yes

Table 19-7. Community Classifications

	Participating?	Classification	Date Classified
FIPS Code	No	N/A	N/A
DUNS#	Yes	838048635	N/A
Community Rating System	No	N/A	N/A
Building Code Effectiveness Grading Schedule	No	N/A	N/A
Public Protection	Yes	3/10	August 1, 2018
Storm Ready	No	N/A	N/A
Firewise	No	N/A	N/A

19.5 INTEGRATION REVIEW

For hazard mitigation planning, "integration" means that hazard mitigation information is used in other relevant planning mechanisms, such as 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.

19.5.1 Existing Integration

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

- **Wildfire Risk Map—**Referred to mapping of hazards in the HMP.

19.5.2 Opportunities for Future Integration

The capability assessment presented in this annex reviewed potential opportunities to integrate this mitigation plan with other jurisdictional planning/regulatory capabilities. The capability assessment did not identify additional plans or programs to integrate hazard mitigation information in the future.

19.6 RISK ASSESSMENT

19.6.1 Jurisdiction-Specific Natural Hazard Event History

Table 19-8 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 19-8. Past Natural Hazard Events

Type of Event	FEMA Disaster #	Date	Damage Assessment
COVID-19	DR-4534	January 20, 2020 and continuing	PPE reimbursements from State of Idaho, equipment purchased to work from home, personnel overtime costs totaling approximately $400,000
Flood	DR-4342	March 29 – June 15, 2017	Countywide Public Assistance $4,493,792
Wildfire		August 11, 2015	Thunderstorm winds knocked down a power pole and started a brush fire. SFD provided suppression support.
Flood		2012	Flood
Wildfires		August 15, 2011	Nine wildfires in Ada and Elmore Counties due to lightning burned overnight and into the morning. SFD provided suppression support.
Wildland Fire		August 22, 2010	Several thousand acres and homes burned
Wildfire		July 28, 2010	Lightning sparked a grass fire near Eagle and burned approximately 5000 acres and 5 structures including 3 homes. SFD provided suppression support.
Dam Failure/Flooding		2010	Annual event
Dam Failure/Flooding		2010	Annual event
Wind Events		Ongoing	Yearly events that cause damage to homes and personal property
Earthquake		1986	Challis

19.6.2 Hazard Risk Ranking

Table 19-9 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 district operations. Mitigation actions target hazards with high and medium rankings. The rankings are based on the City of Star, local experiences, and understanding of the hazards as they relate to the district.

Table 19-9. Hazard Risk Ranking

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

19.6.3 Jurisdiction-Specific Vulnerabilities

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. 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:

- The district is responsible for responding to emergencies along 6 miles of river frontage. These responses are not necessarily related to emergencies during flooding events but can occur at any time.
- Within the City of Star, heavy traffic is often an issue that impedes response time.

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

19.7 STATUS OF PREVIOUS PLAN ACTIONS

Table 19-10 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 19-10. Status of Previous Plan Actions

Action Item from Previous Plan	Completed	Removed; No Longer Feasible	Carried Over to Plan Update	
			Check if Yes	Action # in Update
Action SFD-1—Construct a new Fire Station on the South of Boise River outside of the floodplain and dam failure inundation area. ***Comment:*** *No plans for this area. Currently the responsibility of the City of Meridian.*		✓		
Action SFD-2—Support County-wide initiatives identified in Volume 1 ***Comment:*** *Ongoing capability*			✓	SFD-3
Action SFD-3—Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Volume 1. ***Comment:*** *Ongoing capability*			•	SFD-2

19.8 HAZARD MITIGATION ACTION PLAN

Table 19-11 lists the actions that make up the hazard mitigation action plan for this jurisdiction. Table 19-12 identifies the priority for each action. Table 19-13 summarizes the mitigation actions by hazard of concern and mitigation type.

Table 19-11. Hazard Mitigation Action Plan Matrix

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline[a]
Action SFD-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. Including, but not limited to: • A new fire station north of the Boise River on Floating Feather Road, which will be out of the mapped floodplain. The district owns the land, but a station needs to be built. *Hazards Mitigated:* Wildfire, Extreme Weather, Dam/Canal Failure, Flood, Earthquake, Landslide						
Existing	1, 3, 10	Star Fire District		High	HMGP, BRIC, FMA	Short-term
Action SFD-2—Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan. *Hazards Mitigated:* Wildfire, Drought, Extreme Weather, Dam/Canal Failure, Flood, Earthquake, Landslide, Volcano						
New & Existing	All	Star Fire District		Low	Staff Time, General Funds	Short-term
Action SFD-3— Support County-wide initiatives identified in Volume 1 *Hazards Mitigated:* Wildfire, Drought, Extreme Weather, Dam/Canal Failure, Flood, Earthquake, Landslide, Volcano						
New & Existing	All	Star Fire District		Low	Staff Time, General Funds	Short-term
Action SFD-4— Coordinate with developers as wildland area (north of Beacon Light to the County line) is developed. Area water sources for firefighting will need to be established before housing development occurs. *Hazards Mitigated:* Wildfire						
New	1, 3, 10	Star Fire District		High	HMGP, BRIC	Long-term
Action SFD-5— Develop a Joint Emergency Operation Plan with the City of Star, Star Sewer and Water District, 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 and Water District and Star Joint Fire Protection District will aid in planning for all hazards. (Coordinates with City of Star S-7 and Star Sewer and Water District SSW-4) *Hazards Mitigated:* All Hazards						
New & Existing	All	City of Star	SSW District, Star Joint Fire Protection District	Low	City Funds, District Funds, HMGP	Short-term
Action SFD-6— Provide fire safety, fire prevention and Firewise education to neighborhoods, schools and community via the internet, social media and direct public outreach. (Coordinates with City of Star Action S-11) *Hazards Mitigated:* Wildfire						
New & Existing	8, 9	Star Joint Fire Protection District	City of Star	Low	City Funds, District Funds	Ongoing
Action SFD-7— In partnership with Eagle Fire Protection District, Middleton Rural Fire District, and Star 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. (Coordinates with Eagle Fire Protection District Action EFD-10, City of Eagle Action E-7) *Hazards Mitigated:* Wildfire						
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

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 19-12. 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	10	Low	Low	Yes	No	Yes	High	Low
3	10	Low	Low	Yes	No	Yes	High	Low
4	3	High	High	Yes	Yes	No	Medium	High
5	10	Low	Low	Yes	Yes	Yes	High	Medium
6	2	Low	Low	Yes	No	Yes	High	Low
7	7	Medium	Low	Yes	Yes	No	Medium	Medium

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

Table 19-13. Analysis of Mitigation Actions

Hazard Type	Action Addressing Hazard, by Mitigation Type[a]							
	Prevention	Property Protection	Public Education & Awareness	Natural Resource Protection	Emergency Services	Structural Projects	Climate Resilient	Community Capacity Building[b]
High-Risk Hazards								
Wildfire		SFD-1	SFD-6			SFD-4		SFD-2, 3, 5, 7
Extreme Weather		SFD-1						SFD-2, 3, 5
Medium-Risk Hazards								
Drought								SFD-2, 3, 5
Dam/Canal Failure		SFD-1						SFD-2, 3, 5
Flood		SFD-1						SFD-2, 3, 5
Earthquake		SFD-1						SFD-2, 3, 5
Low-Risk Hazards								
Landslide		SFD-1						SFD-2, 3, 5
Volcano								SFD-2, 3, 5

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

19.9 PUBLIC OUTREACH

Table 19-14 lists public outreach activities for this jurisdiction.

Table 19-14. Local Public Outreach

Local Outreach Activity	Date	Number of People Involved
Public School Outreach for Fire Prevention/Career Day	Every October	3 firefighters, approximately 200 students

19.10 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.

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.

20. STAR SEWER AND WATER DISTRICT

20.1 LOCAL HAZARD MITIGATION PLANNING TEAM

Primary Point of Contact
Ryan V. Morgan, District Engineer
10831 West State Street
Star, ID, 83369
Telephone: 208-286-7388
e-mail Address: rmorgan@starswd.com

Alternate Point of Contact
Hank Day, Public Works Director
10831 West State Street
Star, ID, 83369
Telephone: 208-286-7388
e-mail Address: hday@starswd.com

This annex was developed by the local hazard mitigation planning team, whose members are listed in Table 20-1.

Table 201. Local Hazard Mitigation Planning Team Members

Name	Title
Ryan Morgan	District Engineer
Hank Day	District Public Works Director
Terra Estarada	District Office Manager
Greg Timinsky	District Board Member

20.2 JURISDICTION PROFILE

20.2.1 Overview

The Star Sewer & Water District (District) receives its operating authority from Idaho State Code, Title 42, Chapter 32, Sections 43-3201 to 42-3238. The District was created 1966 in response to a need for central water and sewer service. A five-member elected Board of Directors governs the District. The District's current service area is bounded by Kingsbury Road to the west, Highway 16 and Plummer Road on the east, the Highway 20/26 to the south, and the foothills to the north. The District's impact area was established based on topographic, natural and existing jurisdictional boundaries.

The District provides both sewer and water services to an area which includes the City of Star and unincorporated lands in Ada and Canyon County. The area's economic base consists of agriculture, commercial, and some light industrial districts. The District is committed to providing the service area with quality water and sewer service for residential, commercial, and most industrial/public needs.

Star Sewer & Water District operates a wastewater treatment plant consisting of a membrane bioreactor mechanical plant, and a partially aerated treatment and polishing lagoon treatment system. The combined effluent

from the lagoon and mechanical plant discharges to the Lawrence-Kennedy Canal under an NPDES permit that has been in effect since September 1999.

Sewer lift stations serve as a central point of collection for gravity sewer lines. The raw sewage is conveyed by gravity to these collection points and the lift stations pressurize and lift the sewage either into other gravity collection lines or push the flow directly to the wastewater treatment plant. The District currently owns six lift stations located on Big Wood Way (River Ranch), WWTP property, W State Street (Western Regional, Short Lane (Amazon Falls), Hidden Dale Drive (Craftsman), and Joplin Road (Southern Regional Lift Station)

The District owns five operable wells and two water storage tanks. Three wells are primary wells that are used to fill the tank with groundwater and or serve water to the public directly. Water flows by gravity out of the tank and provides pressurized domestic and fire flows to the service area. The District also maintains a distribution system including approximately 90 miles of pipeline.

Star Sewer & Water District operates almost exclusively on revenue from new connections and current user fees. A small amount is also levied on property taxes to pay for the District's operation and maintenance costs and the property and administrative liability insurance.

The Star Sewer and Water District Board assumes responsibility for the adoption of this plan; Star Sewer and Water District will oversee its implementation.

20.2.2 Service Area

The District serves a population of approximately 15,000 as of 2022. Its service area covers an area of 25 square miles, which has a total market value (including occupancy rolls) of $2,401,619,819

20.2.3 Assets

Table 20-2 summarizes the assets of the District and their value.

Table 20-2. Special Purpose District Assets

Asset	Value
Property	
14.5 acres of land	$1,450,000
Equipment	
Operations and Maintenance Vehicles	$450,000
87 Miles of sewer pipe **87 miles of water pipe**	$55,123,000 $43,639,000
Total:	*$99,212,000*
Critical Facilities	
District Office	$1,160,000
Wastewater Treatment Plant	$45,000,000
River Ranch Lift Station	$750,000
Western Regional Lift Station	$1,100,000
Craftsman Lift Station	$750,000
Amazon Falls Lift Station	$850,000
Southern Regional Lift Station	1,750,000

Asset	Value
Well 3 and Well House	400,000
Well 6 and Well 7	$3,500,000
Water Tanks (2)	1,250,000
Booster Station	$600,000
Total:	*$54,700,000*

20.3 CURRENT TRENDS

Population trends used to estimate future population of the Star Sewer & Water District service area can be approximated by utilizing existing population projections created for the District in the 2015 Wastewater Facility Planning Study. From 2000 to 2022, the City of Star experienced a ten-fold increase in population. Even during the recent downturn in the housing market, the City of Star maintained a fairly steady growth rate. For example, in fiscal year 2014, the Star Sewer & Water District issued 213 new sewer/water connections, in 2015 that number was 200 new sewer/water connections. During 2021 the District issued 1098 new sewer/water connections

If a growth percentage of 5% (as selected by District officials for the 2015 Wastewater Facility Planning Study) is used, the estimated population served by the Star Sewer & Water District will be approximately 22,500 by 2030. It should be noted that current growth rates have been higher than 5% and the population estimate could be as high as 30,000 by 2030.

20.4 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 20-3.
- An assessment of fiscal capabilities is presented in Table 20-4.
- An assessment of administrative and technical capabilities is presented in Table 20-5.
- An assessment of education and outreach capabilities is presented in Table 20-6.
- Classifications under various community mitigation programs are presented in Table 20-7.

Table 20-3. Planning and Regulatory Capability

Plan, Study or Program	Date of Most Recent Update	Comment
Clean Water Act	1972	
Endangered Species Act	1973	
Idaho Department of Environmental Quality	N/A	
U.S. Environmental Protection Agency	N/A	
Idaho Administrative Code	N/A	
Idaho Administrative Procedure Act	N/A	
Wastewater Facility Planning Study (2015)	2015	Applied for grant to update this plan
Water System Master Plan Update (2014)	2014	Applied for grant to update this plan
Idaho Statewide Implementation Plan		
All other applicable laws, ordinances, codes and policies enforced by federal, state and local authorities with a sphere of influence over the District's service area.		
Star Sewer and Water District Construction Drawing Standards	April 2020	

Table 20-4. Fiscal Capability

Financial Resource	Accessible or Eligible to Use?
Community Development Block Grants	No
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	
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	Yes
Development Fees for Homebuyers or Developers	Yes
Other	Yes
If yes, specify: Local Improvement District, Community Improvement District	

Table 20-5. Administrative and Technical Capability

Staff/Personnel Resource	Available?
Planners or engineers with knowledge of land development and land management practices ***If Yes, Department /Position:*** District Engineer and Contract Engineering Firm	Yes
Engineers or professionals trained in building or infrastructure construction practices ***If Yes, Department /Position:*** District Engineer and Contract Engineering Firm	Yes
Planners or engineers with an understanding of natural hazards ***If Yes, Department /Position:*** District Engineer	Yes
Staff with training in benefit/cost analysis ***If Yes, Department /Position:*** Contract engineer	Yes
Surveyors ***If Yes, Department /Position:*** Contract engineer	Yes
Personnel skilled or trained in GIS applications ***If Yes, Department /Position:*** District engineer and Water Department Staff Member	Yes
Scientist familiar with natural hazards in local area ***If Yes, Department /Position:*** Contract engineer	Yes
Emergency manager ***If Yes, Department /Position:*** Ada County Emergency Management and Community Resilience	Yes
Grant writers ***If Yes, Department /Position:*** Contract engineering firm	Yes

Table 20-6. Education and Outreach Capability

Criterion	Response
Do you have a public information officer or communications office?	No
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:***	No
Do you use social media for hazard mitigation education and outreach? ***If yes, briefly describe:***	No
Do you have any citizen boards or commissions that address issues related to hazard mitigation? ***If yes, briefly describe:***	No
Do you have any other programs in place that could be used to communicate hazard-related information? ***If yes, briefly describe:***	No
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 critical community alerts. Both systems are IPAWS enabled and may additionally access that integrated system for public warnings. We also have the ability to mass email costumers about emergency situations.	Yes

Table 20-7. Community Classifications

	Participating?	Classification	Date Classified
FIPS Code	N/A	N/A	N/A
DUNS#	Yes	027210330	N/A
Community Rating System	N/A	N/A	N/A
Building Code Effectiveness Grading Schedule	N/A	N/A	N/A
Public Protection	N/A	N/A	N/A
Storm Ready	No	N/A	N/A
Firewise	No	N/A	N/A

20.5 INTEGRATION REVIEW

For hazard mitigation planning, "integration" means that hazard mitigation information is used in other relevant planning mechanisms, such as 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.

20.5.1 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 2008 Star Comprehensive Plan includes mitigation related policies as they relate to the protection of human life and property from flood events.
- **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.

20.5.2 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.
- **Star Sewer & Water District 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.

20.6 RISK ASSESSMENT

20.6.1 Jurisdiction-Specific Natural Hazard Event History

Table 20-8 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 20-8. Past Natural Hazard Events

Type of Event	FEMA Disaster #	Date	Damage Assessment
COVID-19	DR-4534	January 20, 2020 and continuing	Overtime and adaptations in work conditions
Flooding	DR-4342	May/June 2017	Public Assistance Countywide: $4,493,792
Flooding	N/A	May 30,2011	$4,500

20.6.2 Hazard Risk Ranking

Table 20-9 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 district operations. Mitigation actions target hazards with high and medium rankings.

Table 20-9. Hazard Risk Ranking

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

20.6.3 Jurisdiction-Specific Vulnerabilities

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. 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:

- The District has one major trunk line that is responsible for 80% of the flow to 80% of the City of Star. This trunk line is located in farm fields that have a high potential for development, currently several of these fields are under development with a high risk of damage to the pipeline. This has already happened once in the last 2 months. The District intends to reroute this pipeline to be located in public right of way under pavement.

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

20.7 STATUS OF PREVIOUS PLAN ACTIONS

Table 20-10 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 20-10. Status of Previous Plan Actions

Action Item from Previous Plan	Completed	Removed; No Longer Feasible	Carried Over to Plan Update: Check if Yes	Carried Over to Plan Update: Action # in Update
SSW-1—Add Backup Generators to Trellis Wells: The groundwater wells in the Trellis Subdivision currently have no backup power source to continue operating in the case of a power outage. To continue to provide service during hazards, both wells will be equipped with backup generators.	✓			
Comment: *Generators have been added to one of the Trellis Wells, the second well is no longer operational.*				
SSW-2—Add Backup Generator to River Ranch Lift Station: The lift station currently has no backup power source to continue operating in the case of a power outage. To continue to provide service during hazards, the lift station will be equipped with a backup generator.	✓			
Comment: *Completed in 2020*				
SSW-3—Waterproof Manholes in 100-year Floodplain: The sewer collection system has many pipes and manholes that are in the 100-year floodplain. The manhole lids and structures are not waterproof and could pose significant risk to other facilities if flood water were to enter through the manholes.			✓	SSW-3
Comment: *Manholes are being identified and new policies are being prepared. New construction requires manhole rims to be located 0.5 feet above the base flood elevation. All new construction is being built to the mentioned standards, the district is still identifying manholes to floodproof.*				
SSW-4—Assess Flood Risk of WWTP, Western Regional Lift Station, and River Ranch Lift Station: The risk to these facilities has not been evaluated since new FIRM maps were created. In order to prevent possible damage from flood events, a flood risk evaluation should be completed.	•			
Comment: *Completed 8/17/20*				
SSW-5—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.			✓	SSW-4
Comment: *Plan needs reviewed and updated.*				
SSW-6—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.			✓	SSW-5
Comment: *The treatment plant is in the middle of a major upgrade. Plans are being prepared after completion the current District Operation Plan will be reviewed and updated. Plat upgrade should be completed in early 2023*				
SSW-7—Support County-wide Initiatives Identified in Volume 1 of the Multi-Hazard Mitigation Plan			✓	SSW-6
Comment: *SSWD will continue to work with other agencies.*				
SSW-8—Actively Participate in the Plan Maintenance Protocols Outlined in Volume 1 of the Multi-Hazard Mitigation Plan			•	SSW-2
Comment: *SSWD is working with other agencies and supporting their efforts.*				

Action Item from Previous Plan	Completed	Removed; No Longer Feasible	Carried Over to Plan Update: Check if Yes	Carried Over to Plan Update: Action # in Update
SSW-9—SCADA System at Trellis Wells: The wells in the Trellis subdivision currently don't have any emergency alert system or automatic operational controls in place. In order to receive emergency alerts from these wells, a SCADA system must be installed and this system must have cable or satellite communication with the District operations office.	✓			
Comment: *SCADA has been added to one of the Trellis Wells, the second well is no longer operational*				
SSW-10—Water Tank Power & SCADA (Supervisory Control and Data Acquisition): The water tank currently receives power from solar panels and batteries. In addition, there is no SCADA system. In case of an emergency, a backup primary power supply would provide more reliability in operations for the water tank; primary power supply will be extended to the tank as part of this project. In order to receive emergency alerts from the tank, a SCADA system must be installed and this system must have cable or satellite communication with the operations office.	✓			
Comment: *The new water tank and booster station improvements have been completed*				
SSW-11—Add Backup Generator at the WWTP: The WWTP currently has one backup power generator, but this generator is not capable of powering the entire plant. A second backup generator is recommended to improve redundancy and expand backup power to full plant operations.			✓	SSW-7
Comment: *Construction is currently underway for the WWTP expansion. Improvements include an additional generator that will meet the needs of the WWTP.*				

20.8 HAZARD MITIGATION ACTION PLAN

Table 20-11 lists the actions that make up the hazard mitigation action plan for this jurisdiction. Table 20-12 identifies the priority for each action. Table 20-13 summarizes the mitigation actions by hazard of concern and mitigation type.

Table 20-11. Hazard Mitigation Action Plan Matrix

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline[a]
Action SSW-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: Flood, Earthquake, Landslide, Wildfire, Severe Weather, Dam/Canal Failure						
Existing	All	SSWD	N/A	High	HMGP, BRIC, FMA	Short-term
Action SSW-2—Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan.						
Hazards Mitigated: All Hazards						
New & Existing	All	SSW District	N/A	Low	Staff Time, District Funds	Short-term
Action SSW-3— Waterproof Manholes in 100-year Floodplain: The sewer collection system has many pipes and manholes that are in the 100-year floodplain. The manhole lids and structures are not waterproof and could pose significant risk to other facilities if flood water were to enter through the manholes.						
Hazards Mitigated: Flood, Severe Weather, Dam/Canal Failure						
Existing	1, 10	SSW District	N/A	High	District Funds, HMGP	Long-term

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline[a]
Action SSW-4— Develop a Joint Emergency Operation Plan with the City of Star, Star Sewer and Water District, 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 and Water District and Star Joint Fire Protection District will aid in planning for all hazards. (Coordinates with City of Star Action S-7 and Star Joint Fire Protection District SFD-5)						
Hazards Mitigated: All Hazards						
New & Existing	All	City of Star	SSW District, Star Joint Fire Protection District	Low	City Funds, District Funds, HMGP	Short-term
Action SSW-5— 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.						
Hazards Mitigated: All Hazards						
New & Existing	All	SSW District	N/A	Low	Staff Time, District Funds	Short-term
Action SSW-6— Support County-wide Initiatives Identified in Volume 1 of the Multi-Hazard Mitigation Plan						
Hazards Mitigated: All Hazards						
New & Existing	All	SSW District	N/A	Low	Staff Time, District Funds	Short-term
Action SSW-7— Add Backup Generator at the WWTP: The WWTP currently has one backup power generator, but this generator is not capable of powering the entire plant. A second backup generator is recommended to improve redundancy and expand backup power to full plant operations.						
Hazards Mitigated: All Hazards						
New & Existing	3, 7, 10	SSW District	N/A	High	District Funds, HMGP	Short-term

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 20-12. 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]
SSW-1	10	High	High	Yes	Yes	No	Medium	High
SSW-2	10	Low	Low	Yes	No	Yes	High	Low
SSW-3	2	High	Medium	Yes	Yes	No	Medium	High
SSW-4	10	Low	Low	Yes	Yes	Yes	High	Medium
SSW-5	10	Low	Low	Yes	No	Yes	High	Low
SSW-6	10	Low	Low	Yes	No	Yes	High	Low
SSW-7	3	Medium	Medium	Yes	Yes	Yes	High	Medium

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

Table 20-13. Analysis of Mitigation Actions

Hazard Type	Action Addressing Hazard, by Mitigation Type[a]							
	Prevention	Property Protection	Public Education & Awareness	Natural Resource Protection	Emergency Services	Structural Projects	Climate Resilient	Community Capacity Building[b]
High-Risk Hazards								
Flood		SSW-1, 3	SSW-2		SSW-7			SSW-2, 4, 5, 6
Earthquake		SSW-1, 3	SSW-2		SSW-7			SSW-2, 4, 5, 6
Extreme Weather		SSW-3	SSW-2		SSW-7			SSW-2, 4, 5, 6
Medium-Risk Hazards								
Landslide		SSW-1, 3	SSW-2		SSW-7			SSW-2, 4, 5, 6
Wildfire		SSW-1, 3	SSW-2		SSW-7			SSW-2, 4, 5, 6
Low-Risk Hazards								
Dam/Canal Failure		SSW-3	SSW-2		SSW-7			SSW-2, 4, 5, 6
Drought			SSW-2		SSW-7			SSW-2, 4, 5, 6
Volcano			SSW-2		SSW-7			SSW-2, 4, 5, 6

a. See the introduction to this volume for explanation of mitigation types.
b. Based on current community capacity, this jurisdiction did not identify a need for expansion of administrative and technical capabilities. 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.

20.9 PUBLIC OUTREACH

Table 20-14 lists public outreach activities for this jurisdiction.

Table 20-14. Local Public Outreach

Local Outreach Activity	Date	Number of People Involved
Monthly Newsletter includes water conservation items and other timely tips	Ongoing	All district clients
Water Aware Brochure	April/May 2020	Provided at most local events including Easter egg hunt & fishing derby

20.10 INFORMATION SOURCES USED FOR THIS ANNEX

The following 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.
- **Wastewater Facility Planning Study (2015)**—Used to help identify historic and future growth information, as well as infrastructure needs.
- **Water System Master Plan Update (2014)**—Used to help identify historic and future growth information, as well as infrastructure needs.

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.

21. WHITNEY FIRE PROTECTION DISTRICT

21.1 LOCAL HAZARD MITIGATION PLANNING TEAM

Primary Point of Contact
Greg Womack, Fire Chief
2515 S. Five Mile Road
Boise, ID 83709
Telephone: 208-869-5210
e-mail Address: gwomack@whitneyfiredistrict.org

Alternate Point of Contact
Mallory Wilson, Emergency Manager
333 N. Mark Stall Place
Boise, ID 83704
Telephone: 208-570-6552
e-mail Address: mgwilson@cityofboise.org

This annex was developed by the local hazard mitigation planning team, whose members are listed in Table 21-1.

Table 21-1. Local Hazard Mitigation Planning Team Members

Name	Title
Greg Womack	Fire Chief
Renn Ross	Fire Chief (Retired during plan update)
Mallory Wilson	Emergency Manager
Jerry McAdams	Wildfire Mitigation Specialist

21.2 JURISDICTION PROFILE

21.2.1 Overview

The Whitney Fire Protection District (WFPD) is a tax district created pursuant to Idaho Code, Title 31 Counties and County Law, Chapter 14 Fire Protection District. The WFPD is responsible for the protection of property against fire and the preservation of life and for the enforcement of any of the fire codes and other rules adopted by the Idaho State Fire Marshal. The WFPD was established in 1947.

A three-member elected Board of Fire Commissioners, each serving a staggered four-year term, elected from a specific sub-district, governs the WFPD. The Fire Chief provides contract administration between the WFPD and the City of Boise Fire Department. The primary source of revenue for the WFPD is generated through the collection of property taxes, with some state sales tax revenues and interest income.

The WFPD contracts with the Boise City Fire Department for all operational services, some fire prevention services and logistical support services. The WFPD owns one fire station and maintains a fleet of two engines and one tender. The WFPD station and apparatus are staffed by the Boise City Fire Department per the contract agreement.

The WFPD service area encompasses approximately 18 square miles, primarily residential and rural areas within Ada County. The majority of the WFPD lies within the Area of Impact of the City of Boise and is subject to annexation at the discretion of the city.

The Whitney Fire Protection District assumes responsibility for the adoption of this plan; the Boise City Fire Department will oversee its implementation.

The District participates in the Public Protection Class Rating System and currently has a rating of 3 for properties within 1000 feet of a hydrant and an 8 for properties beyond 1000 feet from a hydrant but within 5 miles of a fire station.

21.2.2 Service Area

The district serves a population of 21,000. Its service area covers an area of 18 square miles, which has a total value of $3,489,026,167.00.

21.2.3 Assets

Table 21-2 summarizes the assets of the District and their value.

Table 21-2. Special Purpose District Assets

Asset	Value
Property	
1.6 acres of land (owned by the City of Boise)	N/A
Equipment	
2003 Pierce Fire Engine	$287,000
2008 Pierce Fire Engine	$408,873
2010 Pierce Water Tender	$324,954
Total:	***$1,020,827***
Critical Facilities	
Fire Station #17	$3,211,687
Total:	***$3,211,687***

21.3 CURRENT TRENDS

The district has seen growth in both population and valuation over the last several years. The district covers a significant inventory of residential homes south of the City of Boise but within the City's Impact Area.

21.4 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 21-3.
- An assessment of fiscal capabilities is presented in Table 21-4.
- An assessment of administrative and technical capabilities is presented in Table 21-5.
- An assessment of education and outreach capabilities is presented in Table 21-6.
- Classifications under various community mitigation programs are presented in Table 21-7.

Table 21-3. Planning and Regulatory Capability

Plan, Study or Program	Date of Most Recent Update	Comment
Ada County Ordinance Title 8, Chapter 3, Article B: Wildland-Urban Interface Overlay District.	6/14/2000	N/A
Ada County Ordinance Title 7, Chapter 3 Adoption of the ICC Urban-Wildfire Interface Code, 2006 Edition	6/18/2008	N/A
Annexation Policy	6/12/2008	N/A

Table 21-4. Fiscal Capability

Financial Resource	Accessible or Eligible to Use?
Community Development Block Grants	No
Capital Improvements Project Funding	No
Authority to Levy Taxes for Specific Purposes	Yes
User Fees for Water, Sewer, Gas or Electric Service	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	No

Table 21-5. Administrative and Technical Capability

Staff/Personnel Resource	Available?
Planners or engineers with knowledge of land development and land management practices ***If Yes, Department /Position:*** Contract with City of Boise	Yes
Engineers or professionals trained in building or infrastructure construction practices ***If Yes, Department /Position:*** Contract with City of Boise	Yes
Planners or engineers with an understanding of natural hazards ***If Yes, Department /Position:*** Contract with City of Boise	Yes
Staff with training in benefit/cost analysis ***If Yes, Department /Position:*** Contract with City of Boise	Yes
Surveyors ***If Yes, Department /Position:*** Contract with City of Boise	Yes
Personnel skilled or trained in GIS applications ***If Yes, Department /Position:*** Contract with City of Boise	Yes

Staff/Personnel Resource	Available?
Scientist familiar with natural hazards in local area	No
Emergency manager ***If Yes, Department /Position:*** Ada County Emergency Management	Yes
Grant writers ***If Yes, Department /Position:*** Contract with City of Boise	Yes
Other ***If Yes, Department /Position:*** Contract with City of Boise	Yes

Table 21-6. Education and Outreach Capability

Criterion	Response
Do you have a public information officer or communications office?	Yes – Contract with City of Boise
Do you have personnel skilled or trained in website development?	Yes – Contract with City of Boise
Do you have hazard mitigation information available on your website? ***If yes, briefly describe:*** Contract with City of Boise	Yes
Do you use social media for hazard mitigation education and outreach? ***If yes, briefly describe:*** Contract with City of Boise	Yes
Do you have any citizen boards or commissions that address issues related to hazard mitigation? ***If yes, briefly describe:***	No
Do you have any other programs in place that could be used to communicate hazard-related information? ***If yes, briefly describe:*** Contract with City of Boise	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 critical community alerts. Both systems are IPAWS enabled and may additionally access that integrated system for public warnings.	Yes

Table 21-7. Community Classifications

	Participating?	Classification	Date Classified
FIPS Code	No	N/A	N/A
DUNS#	Yes	832898048	N/A
Community Rating System	N/A	N/A	N/A
Building Code Effectiveness Grading Schedule	N/A	N/A	N/A
Public Protection	Yes	3-10	7/23/2016
Storm Ready	Yes	N/A	N/A
Firewise	Yes	N/A	N/A

21.5 INTEGRATION REVIEW

For hazard mitigation planning, "integration" means that hazard mitigation information is used in other relevant planning mechanisms, such as 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 future integration. 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.

21.5.1 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 Wildfire Response Plan**— To provide for the life safety of for responders and the populace. Minimize damage to valued resources and the environment from the adverse effects of Wildfire. Develop community awareness and understanding of the wildfire hazard.
- **Ada County Flood Response Plan**— To prevent injury and loss of life due to flooding and flood related causes. Develop Community awareness and understanding of the flood hazard.

21.5.2 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 plans and programs as identified in the "Existing Integration" section above may use hazard mapping and data from this Multi-Hazard Mitigation Plan to determine hazard areas and increase community awareness.

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.

21.6 RISK ASSESSMENT

21.6.1 Jurisdiction-Specific Natural Hazard Event History

Table 21-8 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 21-8. Past Natural Hazard Events

Type of Event	FEMA Disaster #	Date	Damage Assessment
COVID-19 Pandemic	DR-4534	1/20/20-ongoing	N/A
Flooding	DR-4342	3/29/2017	Public Assistance County-wide: $4,493,792
Winter Storms	N/A	December 2016	Extreme snowfall impacted services
Grass Fire	N/A	7/2/2011	N/A
Brush Fire	N/A	7/4/2011	N/A
Natural Vegetation Fire	N/A	9/11/2011	N/A
Brush Fire	N/A	9/28/2011	N/A
Brush Fire	N/A	3/28/2012	N/A
Grass Fire	N/A	6/12/2012	N/A
Grass Fire	N/A	7/5/2012	N/A
Grass Fire	N/A	8/12/2012	N/A

Type of Event	FEMA Disaster #	Date	Damage Assessment
Brush Fire	N/A	10/29/2012	N/A
Natural Vegetation Fire	N/A	2/10/2013	N/A
Brush Fire	N/A	3/9/2013	N/A
Grass Fire	N/A	7/1/2013	N/A
Brush Fire	N/A	9/16/2013	N/A
Grass Fire	N/A	7/1/2014	N/A
Grass Fire	N/A	7/5/2014	N/A
Brush Fire	N/A	7/22/2014	N/A
Natural Vegetation Fire	N/A	10/15/2015	N/A

21.6.2 Hazard Risk Ranking

Table 21-9 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 district operations. Mitigation actions target hazards with high and medium rankings.

Table 21-9. Hazard Risk Ranking

Rank	Hazard	Risk Ranking Score	Risk Category
1	Severe Weather		High
2	Wildfire		Medium
3	Flood		Medium
4	Earthquake		Medium
5	Landslide		Low
6	Dam Failure		Low
7	Drought		Low
8	Volcano		Low

21.6.3 Jurisdiction-Specific Vulnerabilities

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. 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:

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

21.7 STATUS OF PREVIOUS PLAN ACTIONS

Table 21-10 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 21-10. Status of Previous Plan Actions

Action Item from Previous Plan	Completed	Removed; No Longer Feasible	Carried Over to Plan Update: Check if Yes	Carried Over to Plan Update: Action # in Update
Action WFD-1—Enforce existing wildland urban interface standards in Ada County.			X	WFD-3
Comment: Ongoing. Carried over and reworded slightly to better represent the intent of the action.				
Action WFD-2—Require Local Fire District Approval of Water and Access Requirements for all projects.			X	WFD-4
Comment: Ongoing				
Action WFD-3—Promote adoption of Firewise for development within the wildland urban interface Overlay			X	WFD-5
Comment: Ongoing				
Action WFD-4—Support County-wide initiatives identified in Volume 1.			X	WFD-6
Comment: Ongoing				
Action WFD-5—Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Volume 1.			X	WFD-2
Comment: Ongoing				
Action WFD-6—Provide fire safety, fire prevention and Firewise education to neighborhoods, schools and community via the internet, social media and direct public outreach.			X	WFD-7
Comment: Ongoing				
Action WFD-7—Meet and coordinate with private organizations, state, federal and other local agencies to develop, conduct and maintain wildfire mitigation projects.			X	WFD-8
Comment: Ongoing				

21.8 HAZARD MITIGATION ACTION PLAN

Table 21-11 lists the actions that make up the hazard mitigation action plan for this jurisdiction. Table 21-12 identifies the priority for each action. Table 21-13 summarizes the mitigation actions by hazard of concern and mitigation type.

Table 21-11. Hazard Mitigation Action Plan Matrix

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline[a]
Action WFD-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: Flood, Earthquake, Wildfire						
Existing	2, 3, 4	Whitney Fire	N/A	High	HMGP, BRIC, FMA	Short-term
Action WFD-2—Actively participate in the plan maintenance protocols outlined in Volume 1 of this hazard mitigation plan.						
Hazards Mitigated: All hazards						
New & Existing	1, 2, 6, 7, 8, 9, 10	Whitney Fire	N/A	Low	Staff Time, local funds	Short-term
Action WFD-3— Update, adopt, and enforce a new Wildland Urban Interface (WUI) Code to replace the existing code. Improve and update existing WUI hazard zones. (Coordinates with City of Boise Action B-11, North Ada County Fire & Rescue Action NACFR-3)						
Hazards Mitigated: Wildfire						

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline[a]
New & Existing	1, 2, 4, 5, 6, 9, 10	Boise Fire Department	NACFR, Whitney Fire	Low	Local	Short-Term
Action WFD-4— Require Local Fire District Approval of Water and Access Requirements for all projects.						
Hazards Mitigated: Wildfire						
New	1, 2, 4, 5, 9	Whitney Fire	Ada County	Low	Local funds	Short-term and ongoing
Action WFD-5— Continue Firewise Community program for residents in the foothills and promote adoption of Firewise for development within the wildland urban interface overlay. (Coordinates with City of Boise Action B-21, North Ada County Fire & Rescue Action NACFR-4)						
Hazards Mitigated: Wildfire						
New and Existing	1, 2, 5, 6, 8, 9	Boise Fire Department	NACFR, Whitney Fire	Low	Local funds	Short-term and ongoing
Action WFD-6— Support County-wide initiatives identified in Volume 1.						
Hazards Mitigated: All Hazards						
New and Existing	1, 2, 6, 7, 8, 9, 10	Whitney Fire		Low	Local	Short-term and ongoing
Action WFD-7— 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 City of Boise Action B-8, North Ada County Fire & Rescue Action NACFR-14)						
Hazards Mitigated: Wildfire						
New and Existing	1, 8, 9, 10	Boise Fire Department	NACFR, Whitney Fire	Low	Western State Grant, Local	Short-term and Ongoing
Action WFD-8— Meet and coordinate with private organizations, state, federal and other local agencies to develop, conduct and maintain wildfire mitigation and fuel-reduction projects, including prescribed fire (Rx fire), pile-burning and managed fire. Increase capacity to conduct these projects through hiring personnel and expenditures for equipment and biological control methods. (Coordinates with City of Boise Action B-15, Flood Control District #10 Action FCD10-12, North Ada County Fire & Rescue District Action NACFR-15)						
Hazards Mitigated: Wildfire						
New and Existing	1, 6, 9, 10	Boise Fire	FCD #10, NACFR, Whitney Fire	Low	General fund	Ongoing
Action WFD-9— 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. (Coordinates with City of Boise Action B-7 and North Ada County Fire & Rescue District Action NACFR-5)						
Hazards Mitigated: Wildfire						
New and Existing	2, 4, 6, 8, 9, 10	Boise Fire Department	Whitney Fire, NACFR	Medium	Western States Grant, HMGP Grant, Local	Short-term and 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 21-12. 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	Yes	Yes	High	High
3	7	Medium	Low	Yes	No	Yes	High	Low
4	5	Medium	Low	Yes	No	Yes	High	Low
5	6	High	Low	Yes	Yes	Yes	High	High
6	7	Medium	Low	Yes	Yes	Yes	High	High
7	2	Medium	Low	Yes	No	Yes	High	Low
8	4	High	Low	Yes	No	Yes	High	Low
9	6	High	Medium	Yes	Yes	Yes	Medium	Medium

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

Table 21-13. Analysis of Mitigation Actions

Hazard Type	Action Addressing Hazard, by Mitigation Type[a]							
	Prevention	Property Protection	Public Education & Awareness	Natural Resource Protection	Emergency Services	Structural Projects	Climate Resilient	Community Capacity Building[b]
High-Risk Hazards								
Severe Weather								WFD-2, 6
Medium-Risk Hazards								
Wildfire	WFD-3, 4, 5	WFD-1, 3, 4, 5	WFD-1, 5, 7	WFD-3, 4, 5, 7, 8				WFD-2, 3, 5, 7, 8, 9
Flood		WFD-1						WFD-2, 6
Earthquake		WFD-1						WFD-2, 6
Low-Risk Hazards								
Landslide								WFD-2, 6
Dam Failure								WFD-2, 6
Drought								WFD-2, 6
Volcano								WFD-2, 6

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

21.9 INFORMATION SOURCES USED FOR THIS ANNEX

The following 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.

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.