# 2. CITY OF BOISE

### 2.1 MULTI-HAZARD MITIGATION PLAN POINT OF CONTACT

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#### **2.2 JURISDICTION PROFILE**

The following is a summary of key information about the jurisdiction and its history:

- Date of Incorporation—1864
- Current Population—211,655 (ACS Census 2014 Population Estimate)
- Population Growth—in 2000, the population of Boise was 185,787. By 2010, the population grew by 10.1% to 205,671.
- Location and Description—The City of Boise is located in southwestern Idaho and northeastern Ada County in a region coined as the Treasure Valley. It is situated within the Boise River Valley at the base of the foothills of the Salmon River Mountains to the north and east. The Boise River traverses the city and is an aesthetic and recreational focal point of the community. The City is also crossed from east to west by a series of geological benches that step up in elevation from the Boise River, each bench representing a previous location of the Boise River floodplain in historic geologic time. A series of major irrigation canals generally follow the contours of the benches, bringing water from the Boise River to outlying farm fields. The extensive irrigation canal system represents a major physical reminder of Boise's agricultural past and the continuing agricultural economy in the western portion of the Treasure Valley. The southernmost portions of Boise extend into the high desert of the Snake River Plain and are characterized by basaltic soils and formations.
- Brief History—When trappers and fur traders first began visiting the Boise area in the early 1800s, Indian villages already existed along the Boise River. Fur trading continued as the prominent activity in the area until about 1835. Fort Boise was constructed by the Hudson Bay Company as a stockade in 1834. The original Fort Boise was abandoned in 1855 due to the decline of fur trading in the area.

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

The Idaho territory was created by the federal government in 1863. Though Lewiston was initially designated as the territorial capital; that function was relocated to Boise in 1864. This was also the year

Boise incorporated as a City. Idaho became the 43rd state in 1890, which further stimulated settlement in the Boise Valley. By 1900, Boise was a thriving community of 6,000 people. The completion of Arrowrock Dam in 1915 opened the valley irrigated farming and helped build the economic base of the community.

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

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

- Climate—Boise is approximately 350 miles east of the Pacific Ocean, but local climate is shaped in part by maritime influences. In general, the Boise area has a relative mild climate for its northerly latitude. Summers are hot and winters cold, but below zero weather occurs infrequently. The growing season in Boise is 159 day, which again is substantial in relation to latitude. However, even the growing season can vary locally depending upon location within the valley, bench or foothills areas. On average, Boise receives approximately 13-inches of precipitation annually, mostly in the form of winter snow.
- Governing Body Format—Boise City has a strong Mayor and City Council form of government. The
  Mayor presides over City Council meetings, has the power to appoint, and serves as the City Manager.
  All legislative actions are adopted by the City Council. Other boards and commissions are appointed to
  decide non-legislative items and/or make recommendations to the City Council. The City Council is
  responsible for the adoption of this plan, City Staff is responsible for its implementation.
- Development Trends—Total building permit values have increased dramatically, with March 2016 permit values at \$61,692,637, more than double the March values over the last five years. Downtown Boise is seeing significant investment in a mix of product types. Total planning application numbers are slowly increasing, with less than 1% growth from March 2015 to March 2016, although this is still the highest number of applications in the past five years. The 2016 year-to-date and fiscal-year-to-date application numbers are also the highest they've been in the last five years, with 607 applications since January 1, and 1085 since October 1, 2015, a 9% growth from Fiscal Year 2015.

#### 2.3 CAPABILITY ASSESSMENT

An assessment of legal and regulatory capabilities is presented in Table 2-1. An assessment of fiscal capabilities is presented in Table 2-2. An assessment of administrative and technical capabilities is presented in Table 2-3. Information on National Flood Insurance Program (NFIP) compliance is presented in Table 2-4. Classifications under various community mitigation programs are presented in Table 2-5. An assessment of education and outreach capabilities is presented in Table 2-6.

Table 2-1. Legal and Regulatory Cap	pability		
	Local Authority	Other Jurisdiction Authority	State Mandated
Building Code	Yes	No	Yes
Comment: 2012 International Building Code (IBC)/Title 4, Building Regulations: adopted	d 12/16/2014		
Zoning Code	Yes	No	No
Comment: Title 11, Zoning			
Subdivisions	Yes	No	No
Comment: Title 11, Zoning			
Stormwater Management	Yes	No	Yes
<i>Comment:</i> Title 8, Chapter 15, Boise City Storm Water Title 8, Chapter 17, Construction ACHD and others for the National Pollutant Discharge Elimination System (NPDES) pro		e shares respons	sibility with
Post-Disaster Recovery	No	No	No
Real Estate Disclosure	No	No	No
Growth Management	Yes	No	No
Comment: Blueprint Boise, Adopted 11/2011			
Site Plan Review	Yes	No	No
Comment: Requirement of Title 11, Zoning			
Environmental Protection	Yes	No	No
<i>Comment:</i> Blueprint Boise, Adopted 11/2011, Boise River Resource Managem Boise River System Ordinance, Title 11, Zoning	ent and Master F	Plan, Adopted 8	/21/2014,
Flood Damage Prevention	Yes	No	No
Comment: 2012 International Building Code (IBC)/Title 4, Building Regulations: adopted	d 12/16/2014, Title	11, Zoning	
Emergency Management	No	Yes	No
Comment: Ada County Emergency Management		-	
Climate Change	No	No	No
Other	N/A	N/A	N/A
General or Comprehensive Plan	Yes	No	No
Is the plan equipped to provide linkage to this mitigation plan? Yes			
Comment: Blueprint Boise, Adopted 11/2011			
Capital Improvement Plan	Yes	No	No
What types of capital facilities does the plan address? All city facilities			
How often is the plan updated? Annual budget, with an addition 4 years of planning			
Floodplain or Watershed Plan	No	Yes	No
<b>Comment</b> : Ada County Multi-Hazard Mitigation Plan serves as the Flood Management I planning area that participate in CRS.	Plan of record for a	all communities w	ithin the
Stormwater Plan	Yes	No	No
Comment: Stormwater Management Program			
Habitat Conservation Plan	No	No	No
Comment: Foothills and Open Space Management Plan, Boise River Resource Manage	ement and Master	Plan, Adopted 8/	21/2014

	Local Authority	Other Jurisdiction Authority	State Mandated
Economic Development Plan	No	No	No
Shoreline Management Plan	No	No	No
Community Wildfire Protection Plan	No	Yes	No
<b>Comment</b> : Ada County Wildfire Response Plan, 2014 also this plan is intended to provide update to the Ada County Multi-Hazard mitigation plan is being prepared to qualify as a CV			
Forest Management Plan	No	No	No
Comment: 2015 Community Forestry Strategic Management Plan			
Climate Action Plan	No	No	No
Comment: Blueprint Boise, Adopted 11/2011, U.S. Mayors Climate Protection Agreement			
Other	No	No	No
Comprehensive Emergency Management Plan Comment: City of Boise, Emergency Operations Plan	Yes	Yes	No
Threat & Hazard Identification & Risk Assessment Comment: Ada County THIRA, May 2015	No	No	No
Post-Disaster Recovery Plan	No	No	No
Continuity of Operations Plan	No	No	No
Public Health Plan Comment: Central District Health Department Emergency Operations Plan, 2013	No	Yes	No

Table 2-2. Fiscal Capability					
Financial Resources	Accessible or Eligible to Use?				
Community Development Block Grants	Yes				
Capital Improvements Project Funding	Yes				
Authority to Levy Taxes for Specific Purposes	Yes				
User Fees for Water, Sewer, Gas or Electric Service	Yes				
Incur Debt through General Obligation Bonds	Yes				
Incur Debt through Special Tax Bonds	Yes				
Incur Debt through Private Activity Bonds	Yes				
Withhold Public Expenditures in Hazard-Prone Areas	Yes				
State-Sponsored Grant Programs	Yes				
Development Impact Fees for Homebuyers or Developers	Yes				
Other	N/A				

Table 2-3. Administrative and Technical Capability							
Staff/Personnel Resources	Available?	Department/Agency/Position					
Planners or engineers with knowledge of land development and land management practices	Yes	City Planning Staff and Public Works Engineers					
Engineers or professionals trained in building or infrastructure construction practices	Yes	City Planning Staff and Public Works Engineers					
Planners or engineers with an understanding of natural hazards	Yes	City Planning and Development Staff and Public Works Engineers					
Staff with training in benefit/cost analysis	Yes	City Budget Staff					
Surveyors	Yes	City Public Works Staff					
Staff capable of making substantial damage estimates	Yes	City Planning and Development Staff					
Personnel skilled or trained in GIS applications	Yes	City Planning and Development Staff, Public Works Staff and IT Staff					
Scientist familiar with natural hazards in local area	No						
Emergency manager	Yes	Ada County Emergency management (ACEM)					
Grant writers	Yes	City Police and Fire Staff, City Budget Staff					

Table 2-4. National Flood Insurance Program Compliance					
Criteria	Response				
When did the community enter the NFIP?	4/17/1984				
When did the Flood Insurance Rate maps become effective?	2/19/2003				
What local department is responsible for floodplain management?	Planning and Development Services				
Who is your floodplain administrator? (department/position)	Planning Director				
Is this a primary or auxiliary role?	Auxiliary				
Are any certified floodplain managers on staff in your jurisdiction?	No				
What is the date of adoption of your flood damage prevention ordinance?	Updated 2016				
• Does your floodplain management program meet or exceed minimum requirements?	Meet				
• If so, in what ways?	N/A				
When was the most recent Community Assistance Visit or Community Assistance Contact?	September 2015				
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed?	Yes				
• If so, please state what they are.	Boise City annexed property that had existing violations (undersize culverts) that preexisted Boise City jurisdiction.				
Do your flood hazard maps adequately address the flood risk within your jurisdiction?	Yes				
If no, please state why.	Updated mapping in progress				
Does your floodplain management staff need any assistance or training to support its floodplain management program?	Yes				
<ul> <li>If so, what type of assistance/training is needed?</li> </ul>	FEMA training is currently in process				
Does your jurisdiction participate in the Community Rating System (CRS)?	Yes				
If so, is your jurisdiction seeking to improve its CRS Classification?	No				
How many Flood Insurance policies are in force in your jurisdiction?	718				
What is the insurance in force?	\$201,454,200				
What is the premium in force?	\$522,153				
How many total loss claims have been filed in your jurisdiction?	42				
<ul> <li>How many claims were closed without payment/are still open?</li> </ul>	26				
What were the total payments for losses?	\$495,741.48				

Table 2-5. Community Classifications							
Participating? Classification Date Classified							
Community Rating System	Yes	6	2015				
Building Code Effectiveness Grading Schedule	Yes	3	2011				
Public Protection	Yes	3	N/A				
Storm Ready	Yes	Blue	N/A				
Firewise	Yes	N/A	N/A				

Table 2-6. Education and Outreach					
Criteria	Response				
Do you have a Public Information Officer or Communications Office?	Yes – City Community Engagement Department and some departments have designated public information officers				
Do you have personnel skilled or trained in website development?	Yes – IT Staff, Community Engagement Department				
Do you have hazard mitigation information available on your website?	Yes				
If yes, please briefly describe.	Wildfire and flood information on city website. Links to ACEM site.				
Do you utilize social media for hazard mitigation education and outreach?	Yes				
If yes, please briefly describe.	City has Facebook, Twitter, and other accounts. Accounts are used to provide information during times throughout the year.				
Do you have any citizen boards or commissions that address issues related to hazard mitigation?	Yes				
If yes, please briefly specify.	Planning and Zoning Commission, Parks and Recreation Commission, Public Works Commission, Building Code Committee				
Do you have any other programs already in place that could be used to communicate hazard-related information?	Yes				
If yes, please briefly describe.	Various city public education events throughout the year.				
Do you have any established warning systems for hazard events?	Yes				
<ul> <li>If yes, please briefly describe.</li> </ul>	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.				

### 2.4 INTEGRATION WITH OTHER PLANNING INITIATIVES

The following describe the jurisdiction's process for integrating the Multi-Hazard Mitigation Plan into local planning mechanisms.

### 2.4.1 Existing Integration

The following plans and programs currently integrate the goals, risk assessment and/or recommendations of the Multi-Hazard Mitigation Plan:

- Blueprint Boise—Provides guidance for development of areas impacted by hazards with similar but aligned goals.
- *Foothills and Open Space Management Plan*—Provides guidance for development of areas impacted by hazards with similar but aligned goals.
- *Boise River System Ordinance* Provides guidance for development of areas impacted by hazards with similar but aligned goals.

#### 2.4.2 Opportunities for Future Integration

The following plans and programs do not currently integrate the goals, risk assessment and/or recommendations of the Multi-Hazard Mitigation Plan, but provide an opportunity for future integration:

- As additional plans are created or updated we will consider inclusion of principals and goals of the Multi-Hazard Mitigation Plan. Future updates to the City of Boise Comprehensive Plan
- Future updates to the City of Boise Comprehensive Plan

### 2.5 JURISDICTION-SPECIFIC NATURAL HAZARD EVENT HISTORY

Table 2-7 lists all past occurrences of natural hazards within the jurisdiction.

Table 2-7. Natural Hazard Events							
Type of Event	FEMA Disaster # (if applicable)	Date	Preliminary Damage Assessment				
Severe wind	N/A	3/29/2009	\$33,000 (county wide)				
Wildfire	N/A	1/28/2009	\$1.66 Million				
Flooding	N/A	9/11/1997	\$57,000				
Wildfire	N/A	8/26/1996	\$3.3 million				
Severe Wind	N/A	4/27/1995	\$50,000 (county wide)				
Flooding	N/A	02/1986	\$20,000				
Flooding	N/A	06/1983	\$147,000 (county wide)				
Earthquake	N/A	10/28/1983	Minimal local damage				
Landslide	N/A	11/1980	Unknown				
Flooding	N/A	1/12/1979	Unknown				

### 2.6 JURISDICTION-SPECIFIC VULNERABILITIES

Repetitive loss records are as follows:

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

#### 2.7 HAZARD RISK RANKING

Table 2-8 presents the ranking of the hazards of concern.

Table 2-8. Hazard Risk Ranking						
Rank	Hazard Type	Risk Rating Score (Probability x Impact)	Category			
1	Severe weather	48	High			
2	Wildfire	27	High			
3	Flood	18	Medium			
4	Drought	18	Medium			
5	Dam Failure	18	Medium			
6	Landslide	16	Low			
7	Earthquake	16	Low			
8	Volcano	16	Low			

### 2.8 STATUS OF PREVIOUS PLAN INITIATIVES

Table 2-9 summarizes the initiatives that were recommended in the previous version of the hazard mitigation plan and their implementation status at the time this update was prepared.

Table 2-9. Status of Previous Action Plan						
Action Item	Completed	Carry Over to Plan Update	Removed; No Longer Feasible			
Action #B-1—City Hall Structural Seismic Retrofit; structural upgrade of the City Hall facility to bring it into compliance with current seismic building code standards.	Yes	No	Completed			
Action #B-2—Esther Simplot Flood Channel (joint project with Boise City and Garden City); a flood study of the Boise River between Main St. and Veteran's Memorial Park bridges is underway and expected to result in a project to construct side channels / channel modifications to greatly reduce flood potential in both Garden City and in Boise City	No	Yes				
Action #B-3—Identify the Wildland-Urban Interface (WUI) do a risk assessment (a GIS exercise looking at vegetation in the undeveloped area and age of homes) of this area. In addition conduct a multi-year effort to do Red Zone surveys of the homes in this area. This analysis would then lead into a pilot program (an anchor point) involving restoring native vegetation on public lands and incentivizing neighbors to alter vegetation on their property. Also see North Ada County Fire & Rescue (NACFR) Initiative #3.	Yes	Yes				
Action #B-4—Wildland Fire Prevention Programs/Education and Outreach (Implementation of the WUI Standards). Focus on fuel reduction on private property around new and existing homes via incentivizing homeowners, providing free debris pick- up and replacement fire wise vegetation at a discount.	Yes	Yes				
Action #B-5—Fire Station Seismic Upgrades: Boise Fire has already identified two buildings with major seismic problems (including the Logistics/Maintenance building) at a cost of two million dollars. This project will perform a vulnerability assessment on 16 other Fire facilities and initiate upgrades. Also see N. Ada County Fire & Rescue Initiative #2.	No	Yes				
Action #B-6—Flood Containment Facility Maintenance: Continue to maintain foothills flood containment facilities such as the Cottonwood flood ponds and flume, etc.	Yes	Yes				
Action #B-7—Update Floodplain Ordinance: Evaluate existing floodplain ordinance to look for opportunities to strengthen requirements, decrease risks and promote/support the city's "no adverse impact" floodplain management policy.	No	Yes				
<i>Comment:</i> A code amendment to increase standards was tabled due to uncertainty about in Action #B-8—Maintain Boise's compliance and good standing under the National	Yes	Yes	5.			
Flood Insurance Program (NFIP). Action #B-9—Continue to maintain/enhance the City's classification under the Community Rating System	Yes	Yes				
Action #B-10—Integrate Multi-Hazard Mitigation Plan into the City of Boise Comprehensive Plan.	Yes	No				
Action #B-11—Where appropriate, support retrofitting, purchase, or relocation of structures located in hazard-prone areas to protect structures from future damage, with properties with exposure to repetitive losses as a priority.	Yes	Yes				
Action #B-12—Consider appropriate higher regulatory standards that prevent or reduce risk to the built environment from the known hazards of concern	Yes	Yes				
Action #B-13—Support County-wide initiatives identified in Volume 1.	Yes	Yes				
Action <b>#B-14</b> —Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Volume 1.	Yes	Yes				

# 2.9 HAZARD MITIGATION ACTION PLAN AND EVALUATION OF RECOMMENDED ACTIONS

Table 2-10 lists the actions that make up the City of Boise hazard mitigation action plan. Table 2-11 identifies the priority for each action. Table 2-12 summarizes the mitigation actions by hazard of concern and the six mitigation types.

Table 2-10. Hazard Mitigation Action Plan Matrix								
Applies to new or existing	Hazards	Objectives		Estimated				
assets	Mitigated	Met	Lead Agency	Cost	Sources of Funding	Timeline		
Main St. and V	Action #B-1—Esther Simplot Flood Channel (joint project with Boise City and Garden City); a flood study of the Boise River between Main St. and Veteran's Memorial Park bridges is underway and expected to result in a project to construct side channels / channel modifications to greatly reduce flood potential in both Garden City and in Boise City							
Existing	Flood	1, 2, 3, 9, 10	Public Works	Medium	HMGP Grant, Local	Short term		
area, age of ho	omes and other released on risk and con	evant factors). Imp	e (WUI) risk assessment (a G rove individual parcel data wi laptation. Also see North Ada	th wildfire assess	ments. Provide a public p	ortal to share		
New & Existing	Wildfire	2, 4, 6, 8, 9, 10	Boise Fire	Medium	Western States Grant, HMGP Grant, Local	Short term & Ongoing		
reduction on p replacement F	rivate property arou irewise vegetation	at a discount.	cation and outreach to suppo ng homes via incentivizing ho		ding free debris pick-up ar	nd		
Existing	Wildfire	1, 8, 9, 10	Boise Fire	Low	Western States Grant, Local	Short term		
the Logistics/I	Maintenance build	ing) at a cost of th	ise Fire has already identifie vo million dollars. This proje da County Fire & Rescue In	ct will perform a				
Existing	Seismic	1, 3,4,9,10	Public Works	High	HMGP Grant, local, Bond	Long term		
	-Flood Containmer lood ponds and flu		nance: Continue to maintain	foothills flood co	ontainment facilities such	as the		
Existing	Flood	1, 2, 9, 10	Public Works	Low	Local	Short term		
minimum NFIF	Prequirements. Suc	ch programs includ	ational Flood Insurance Progra de but are not limited to; enfor oviding public assistance and Planning and Development	cing an adopted	flood damage prevention (	ordinance,		
Action #B-7— New & Existing	-Continue to maint Flood	ain/enhance the 1, 2, 9, 10	City's classification under the Planning and Development	e Community Ra Low	ating System Local	Ongoing		
Action #B-8—			ng, purchase, or relocation of exposure to repetitive losses		d in hazard-prone areas to	protect		
Existing	All Hazards	1, 2, 3, 4, 9	Planning and Development, Public Works, ACEM	High	Hazard Mitigation Grant	Long term		
Action #B-9— WUI hazard zo		a new Wildland U	rban Interface (WUI) Code to	replace the exist	ing code. Improve and upo	late existing		
New/ Existing	Wildfire	1, 2, 4, 5, 6, 9, 10	Boise Fire, Planning and Development	Low	Local	Short term		

Applies to new or existing assets	Hazards Mitigated	Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Timeline
	-Consider approp	riate higher regu	atory standards that prevent	or reduce risk t		
New & Existing	All Hazards	1, 2, 4, 5, 6, 9, 10	Planning and Development	Low	Local	Ongoing
Action #B-11-	-Support County-v	vide initiatives ider	ntified in Volume 1.			
New & Existing	All Hazards	1, 2, 6, 7, 8, 9, 10	Planning and Development, Public Works, ACEM	Low	Local	Short term/ ongoing
Action #B-12-	-Continue to supp	ort the implementa	ation, monitoring, maintenance	e, and updating c	of this Plan, as defined in V	/olume 1.
New & Existing	All Hazards	1, 2, 6, 7, 8, 9, 10	Planning and Development, Public Works, ACEM	Low	Local	Short term/ ongoing
	–Offer NOAA SKY on for weather pred		aining for community members	s to encourage a	wareness and better abilit	y to provide
New/ Existing	All Hazards	1, 2, 7,8,9	ACEM, Boise Fire	Low	Local	Short term
			ort evaluation of remediation al of pursuing mitigation.	n, purchase or	relocation of structures t	to prevent
Existing	Landslide	2, 3, 4, 9	Public Works	High	HMGP Grant, Local	Short term
			n local experts and employ na cts of flooding on the built env		ntal processes in mitigation	n activities that
New and Existing	Flood, Dam Failure	2, 5, 9	City of Boise	Medium	Local, Grants, development Fees	Long term
Action #B-16- wildfire mitigati		ate with private or	ganizations, state, federal an	d other local age	encies to develop, conduc	t and maintain
New and Existing	Wildfire	1, 6, 9, 10	Boise Fire Department	Low	Local	On-going

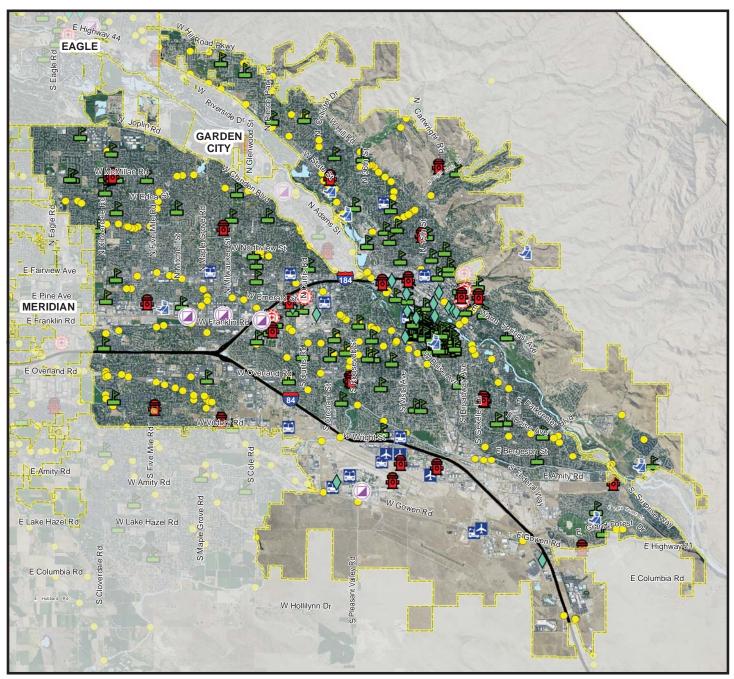
Table 2-11. Mitigation Strategy Priority Schedule												
Action #	# of Objectives Met	Benefits	Costs	Do Benefits Equal or Exceed Costs?	ls Project Grant- Eligible?	Can Project Be Funded Under Existing Programs/ Budgets?	Implementation Priority <sup>a</sup>	Grant Priority <sup>a</sup>				
B-1	5	High	Medium	Yes	Yes	Yes	Yes	No				
B-2	6	High	Medium	Yes	Yes	Yes	Yes	Yes				
B-3	4	Medium	Low	Yes	Yes	Yes	Maybe	Maybe				
B-4	5	Medium	High	Maybe	Yes	No	No	No				
B-5	4	Medium	Low	Yes	No	Yes	Yes	No				
B-6	4	Medium	Low	Yes	NO	Yes	Yes	No				
B-7	4	Medium	Low	Yes	No	Yes	Yes	No				
B-8	5	Medium	High	Maybe	Yes	No	No	No				
B-9	7	High	Low	Yes	No	Yes	Yes	No				
B-10	7	Medium	Low	Yes	No	Yes	Maybe	No				
B-11	7	Medium	Low	Yes	Maybe	Maybe	Maybe	Maybe				
B-12	7	Medium	Low	Yes	Maybe	Maybe	Maybe	Maybe				
B-13	5	Low	Low	Yes	No	Yes	Maybe	No				
B-14	7	High	High	Maybe	Yes	No	Medium	High				
B-15	3	High	Medium	Yes	Yes	No	Medium	High				
B-16	4	High	Low	Yes	No	Yes	High	Low				

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

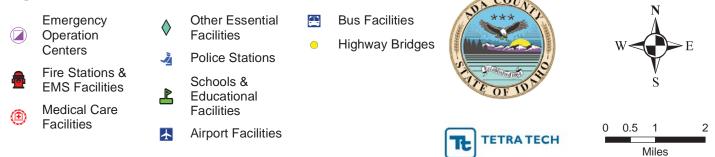
	Action Addressing Hazard, by Mitigation Type <sup>a</sup>										
Hazard Type	1. Prevention	2. Property Protection	3. Public Education and Awareness	4. Natural Resource Protection	5. Emergency Services	6. Structural Projects					
Severe Weather	B-10, B-12	B-8	B-11, B-12, B-13	B-13	B-11, B-13						
Wildfire	B-2, B-3, B-9, B-10, B-12, B-16	B-2, B-3, B-8, B-9, B-16	B-2, B-3, B-9, B-11, B-12, B-16	B-2, B-3, B-9, B-16	B-2, B-3, B-9, B-11, B-16						
Flood	B-5, B-6, B-7, B-10, B-12, B-15	B-1, B-5, B-6, B-7, B-8, B-15	B-8, B-11, B-12, B-13	B-1, B-6, B-7, B-15	B-5, B-11, B-13	B-1					
Drought	B-10, B-12	B-8	B-11, B-12, B-13		B-11, B-13						
Dam Failure	B-10, B-12	B-8	B-11, B-12, B-13		B-11, B-13						
Earthquake	B-10, B-12	B-4, B-8	B-11, B-12, B-13		B-4, B-11	B-4					
Volcano	B-10, B-12	B-8	B-11, B-12		B-11						
Earthquake	B-10, B-12	B-8	B-11, B-12		B-11						
Landslide	B-8, B-10	B-14				B-14					

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

#### Essential Facilities & Transportation Systems

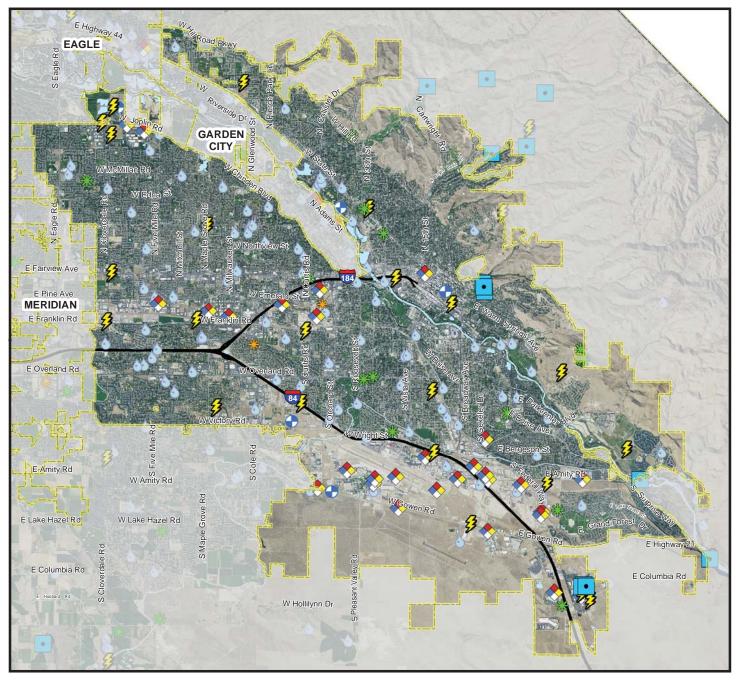


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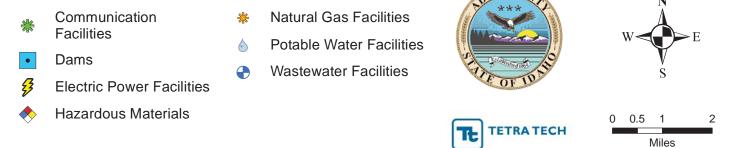


Data Sources: Ada County, U.S. Geological Survey, COMPASS, Idaho DHS

#### Utilities & Infrastructure

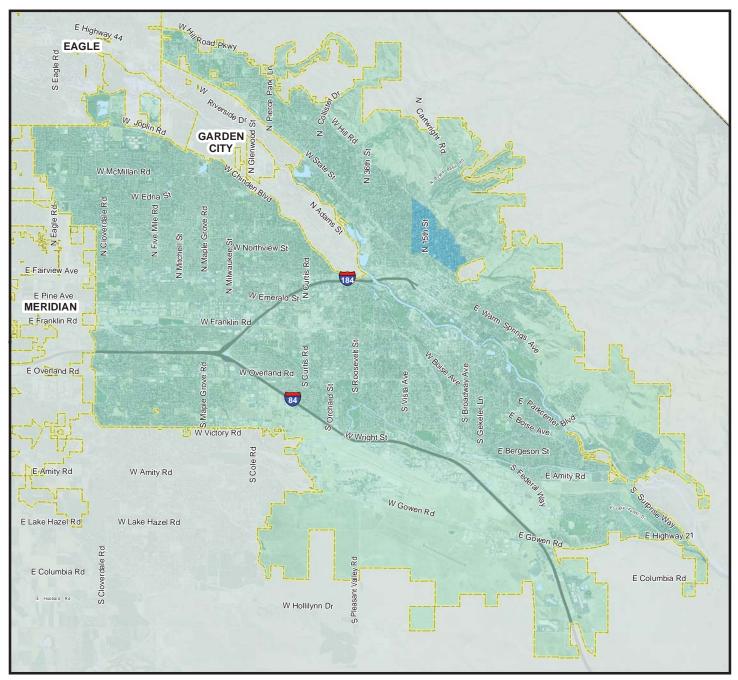


# Legend



Data Sources: Ada County, U.S. Geological Survey, COMPASS, Idaho DHS

#### Peak Ground Acceleration for a 100-Year Probabalistic Event



## Legend

Ada County Boundary

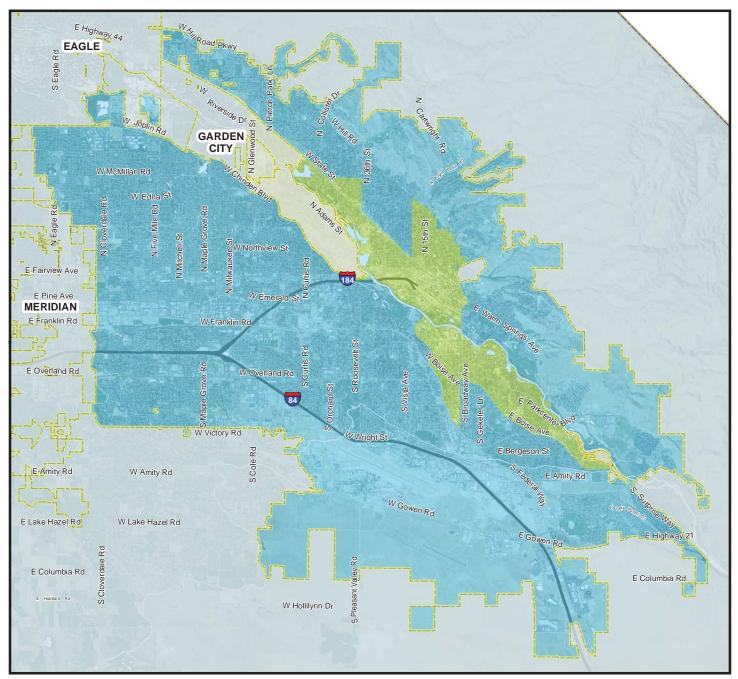
Modified Mercalli Scale, Potential Shaking

IV (Light)

V (Moderate)

Data Sources: Ada County, U.S. Geological Survey, Hazus

#### Peak Ground Acceleration for a 500-Year Probabalistic Event



## Legend

Ada County Boundary

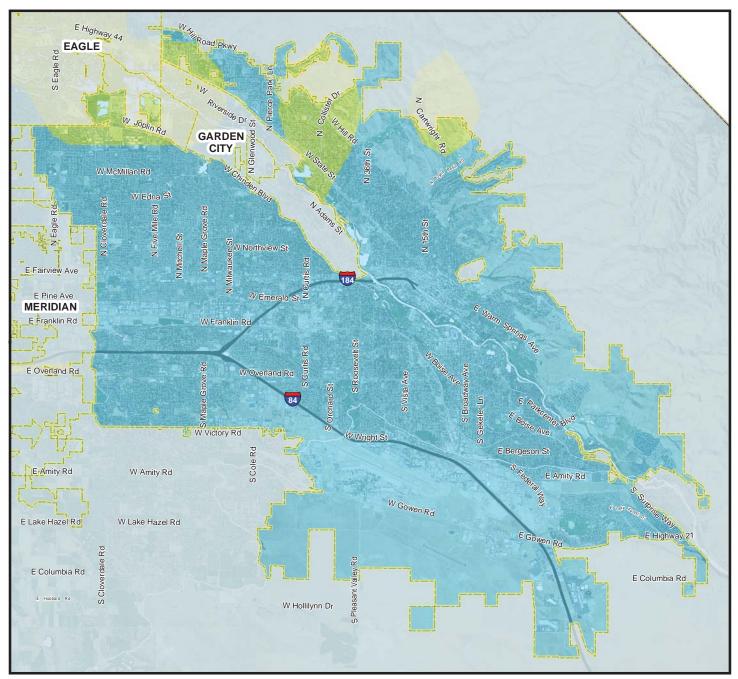
#### Modified Mercalli Scale, Potential Shaking

V (Moderate)

VI (Strong)

Data Sources: Ada County, U.S. Geological Survey, Hazus

#### Squaw Creek M7.0 Scenario Peak Ground Acceleration



# Legend

Ada County Boundary

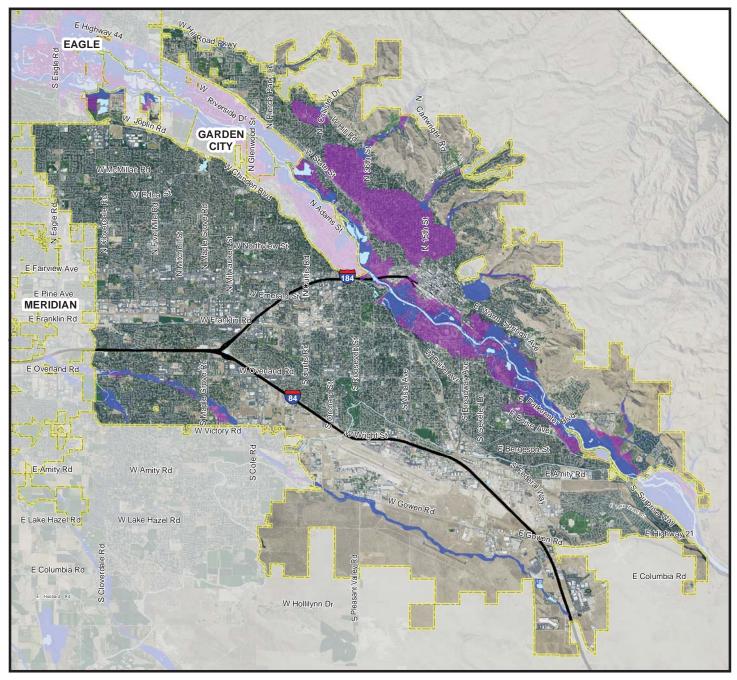
#### Modified Mercalli Scale, Potential Shaking

V (Moderate)

VI (Strong)

Data Sources: Ada County, U.S. Geological Survey

#### FEMA DFIRM Flood Hazard Zones



## Legend

Ada County Boundary

Water Bodies

1% Annual Chance Flood Boundary (100 Year)

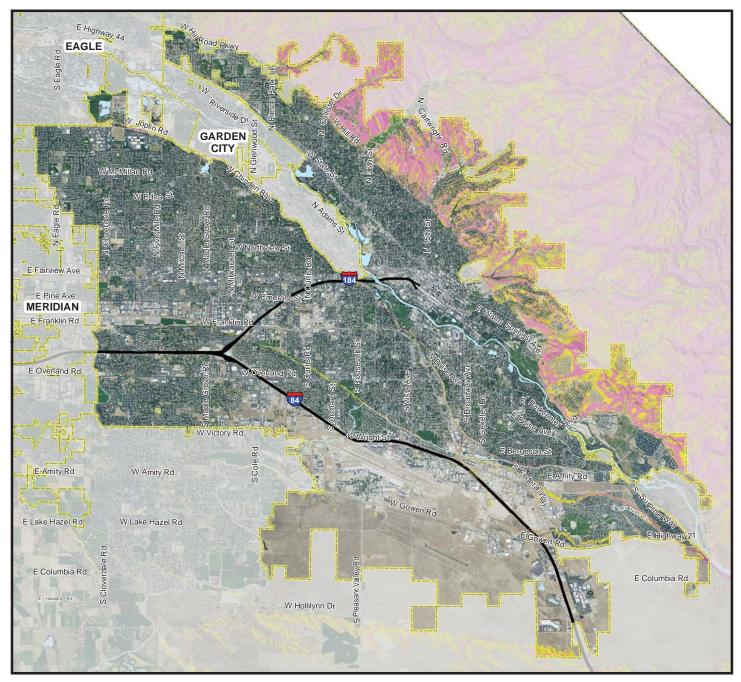
0.2% Annual Chance Flood Boundary (500 Year)

Flood Hazard Areas as depicted on FEMA Digital Insurance Rate Maps (DFIRM). This map is a combination of effective and preliminary DFIRM boundaries.

Data Sources: Ada County, U.S. Geological Survey, FEMA, USACE



#### Potential Landslide Areas



# Legend

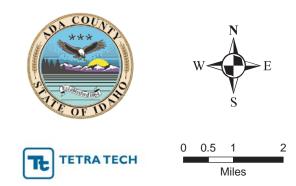


Ada County Boundary

### Slope

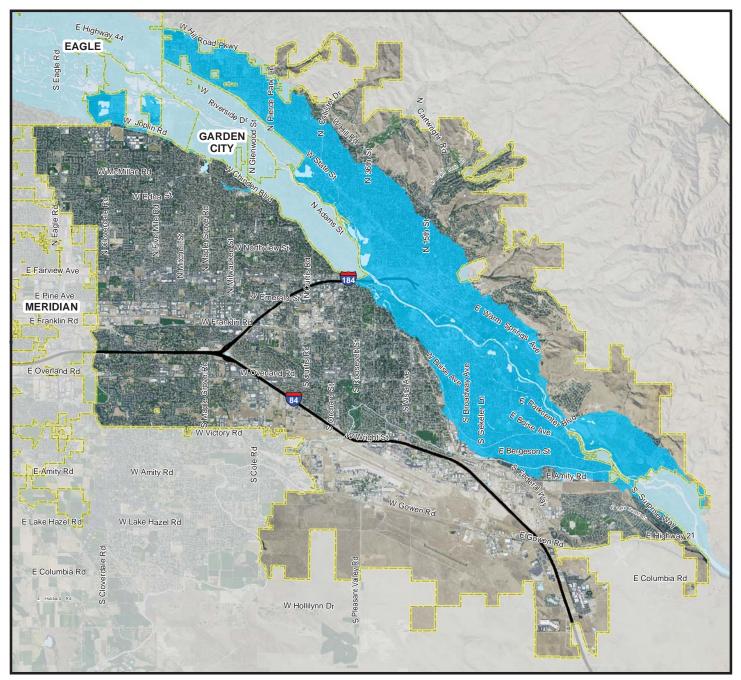
15 - 30%

Greater than 30%



Data Sources: Ada County, U.S. Geological Survey

Lucky Peak Dam Failure



# Legend

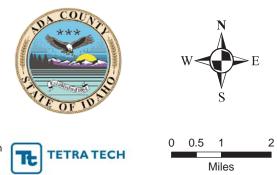


#### Maximum Pool Inundation Area

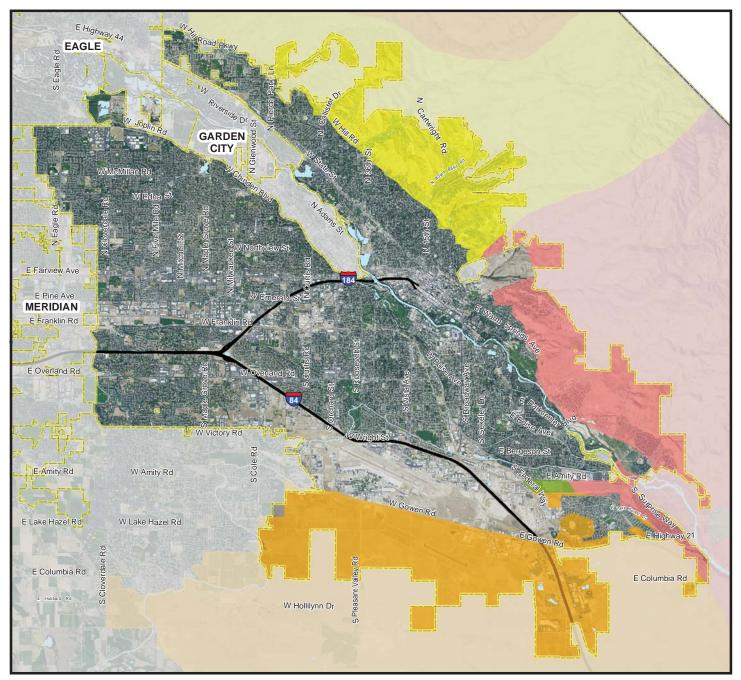
Area inundated by dam failure occurring when pool elevation is at the top of the impounding structure.

This map has been compiled using the best information available and is believed to be accurate, however, its preparation required many assumptions. Actual conditions during a failure may vary from those assumed, so the accuracy cannot be guaranteed. The limits of flooding shown and the temporal data should only be used as a guideline for emergency planning and response actions. Actual areas inundated and inundation timing will depend on specific flooding and failure conditions and may differ from the areas shown on the maps.

Data Sources: Ada County, U.S. Geological Survey, U.S. Army Corp of Engineers



Wildfire Risk Areas



### Legend

