

4. CITY OF GARDEN CITY

4.1 MULTI-HAZARD MITIGATION PLAN POINT OF CONTACT

Primary Point of Contact

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4.2 JURISDICTION PROFILE

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

- Date of Incorporation—May 22, 1949
- Current Population—11,223 (ACS 2014 Estimates – US Census)
- Population Growth—18,311 (COMPASS CIM 2040 projection)
- Location and Description—Garden City is nestled between Boise, Meridian and Eagle lining the north and south banks of the Boise River. City elevations range from 2,550 feet to 2,698 feet, with an average of 2,620.9 feet. Garden City spans over the townships, sections and ranges; 3N2E05 to 06, 4N1E14, 4N1E23 to 26, 4N1E36, 4N2E19, and 4N2E30 to 32.
- Brief History—The history of Garden City is tied to the Boise River that runs the length of the city. Native Americans camped on the riverbanks. The higher ground, known as “Government Island,” was first a temporary military camp and later used by the U.S. Cavalry for pastures. The river often flooded the entire city area to the bench and deposited silt that created the rich agricultural soil. During the 1920s, Thomas Jefferson Davis bought Government Island for agricultural use. Chinese farmed the area in small gardens, providing produce for local residents and miners. Over time, the Chinese were forced out and by the 1940s just two families remained in the area. However, the legacy of the Chinese remains in the name of the city, which is derived from their gardens, and Chinden Boulevard, which was named in a contest, is derived from “Chinese Garden.”

Prior to 1949, the area was unincorporated Ada County land. Developers had a vision for duplex housing and filed a subdivision with 50- by 150-foot lots along Chinden and 100- by 300-foot commercial lots. The streets were numbered in a different direction to distinguish the area from Boise.

The “Village of Garden City” was incorporated in 1949 for the sole purpose of maintaining gambling. The “original town site” encompassed 100 acres, including the area from 32nd to 37th streets. Gambling proceeds made Garden City a boomtown. The next year, annexations doubled the population of the village to approximately 800. Gambling provided funding for sewer, water, and street lighting. Gambling was outlawed by the state Legislature in 1953, and Garden City was expected to go away. Boise coveted Garden City’s liquor license revenues and there were several attempts at disincorporation. But in 1967,

the village was chartered as a city. Much of the development of Garden City was a result of few land use regulations.

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

- **Climate**—Garden City has an average temperature of 52.0°F and receives an average of 12.19 inches of annual precipitation since 1865. Summers are typically warm to hot and dry averaging 71.9°F for June, July and August since 1865. Winters are generally cold and dry with occasional snow showers averaging 32.5°F for December, January and February since 1865. Spring and Fall are both mild with light precipitation averaging 51.0°F for March, April and May and 52.3°F for September, October and November since 1865.
- **Governing Body Format**—Garden City is governed by a Mayor and four City Council members. There is a Planning and Zoning Commission, Library Board, and Design Review Committee with certain decision making abilities. Recommending bodies include the Parks and Waterways Committee and Arts Commission. The City Council is responsible for the adoption of this plan, the effected Departments are responsible for its implementation.
- **Development Trends**—Garden City sees a mix of commercial and residential uses. There is diversity in the residential stock of housing ranging from affordable to higher end homes. Traditionally due to lenient zoning standards much of the nonresidential uses were industrial in nature, and much of the housing in the eastern portion of the City was in Mobile Home parks. The developments north of the river and west of Glenwood are newer and mostly built with commercial uses that enjoy heavy automobile use along the arterials, with residential subdivisions on slightly larger lots that reflects a suburban character with curvilinear streets and cul-de-sacs.

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

Garden City is seeing less industrial uses. Garden City continues to see an increase mixed use development, particularly artisans and small businesses, and increasing residential densities.

4.3 CAPABILITY ASSESSMENT

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

Table 4-1. Legal and Regulatory Capability

	Local Authority	Other Jurisdiction Authority	State Mandated
Building Code <i>Comment:</i> Title 7 of Garden City Code currently adopts the 2012 International Building Code and International Residential Code. This is updated on a three year cycle following the State of Idaho's requirements .	Yes	No	Yes
Zoning Code <i>Comment:</i> Title 8 of Garden City Code. Title 8 is reviewed on a biannual basis.	Yes	No	Yes
Subdivisions <i>Comment:</i> Title 8-5 of Garden City Code. Title 8 is reviewed on a biannual basis.	Yes	No	Yes
Storm water Management <i>Comment:</i> Garden City complies with the requirements as per EPA requirements in NPDES, and Idaho Department of Water Resources (IDWR) requirements	Yes	No	No
Post-Disaster Recovery <i>Comment:</i> Garden City participates in regional planning for mitigation, preparation and recovery through Ada County City Emergency Management (ACEM)	Yes	No	No
Real Estate Disclosure <i>Comment:</i> This is part of the Floodplain management are required to remain in compliance with FEMA requirements	Yes	No	No
Growth Management <i>Comment:</i> Garden City creates and maintains a Comprehensive Plan to manage growth. Garden City has also adopted the COMPASS CIM 2040 projections.	Yes	No	No
Site Plan Review <i>Comment:</i> Garden City conducts a site inspections to ensure compliance with City regulations and codes at the time of redevelopment and through code enforcement actions.	Yes	No	No
Environmental Protection <i>Comment:</i> Title 6 of Garden City Code Last Update 2015	Yes	No	No
Flood Damage Prevention <i>Comment:</i> Titles 7 and 8 of Garden City Code	Yes	No	No
Emergency Management? <i>Comment:</i> Police Department	Yes	No	No
Climate Change	No	No	No
Other	No	No	No
General or Comprehensive Plan <i>Is the plan equipped to provide linkage to this mitigation plan? No</i> <i>Comment:</i> Garden City creates and maintains a Comprehensive Plan. Adopted 2006	Yes	No	Yes
Capital Improvement Plan <i>What types of capital facilities does the plan address? Public Works</i> <i>How often is the plan updated? Annually</i> <i>Comment:</i> Garden City has a Capital Improvement Plan that ensures infrastructure is being maintained and replaced to maintain optimal performance. The Garden City Capital Improvements List covers water and sewer infrastructure as well as parks and pathways. This plan is updated on an annual basis.	Yes	No	No
Floodplain or Watershed Plan <i>Comment:</i> The Ada County All Hazards Mitigation Plan-update is the floodplain management plan of record for all communities within the planning area that participate in the CRS program.	Yes	No	No
Storm water Plan <i>Comment:</i> Garden City complies with the requirements as per EPA requirements in NPDES	Yes	No	No

	Local Authority	Other Jurisdiction Authority	State Mandated
Habitat Conservation Plan <i>Comment:</i> Under Title 36 of the Idaho State Statues Garden City defers to Idaho Fish and Game to ensure wildlife preservations and wetland preservation areas- BREN, Boise River Enhancement Network has adopted the Boise River Enhancement Plan.	No	Yes	Yes
Economic Development Plan <i>Comment:</i> Garden City has established a Comprehensive Plan, Capital Improvement, and is also incorporated in the Boise Valley Economic Plan	Yes	Yes	No
Shoreline Management Plan	No	No	No
Community Wildfire Protection Plan <i>The 2017 Ada County Multi-hazard Mitigation Plan is being developed to be a qualifying CWPP for the Ada County planning area</i>	No	Yes	No
Forest Management Plan	No	No	No
Climate Action Plan	No	No	No
Other <i>Comment:</i> ACEM Ada County Flood Response Plan. Adopted: January, 2006 Ada County Mass Casualty Incident Plan. Adopted: 12/16/2010 Ada County HAZMAT Response Plan. Adopted: April 2011 Ada County Wildfire Response Plan. Adopted: May 2010	Yes	No	No
Comprehensive Emergency Management Plan <i>Comment:</i>	Yes	No	No
Threat & Hazard Identification & Risk Assessment <i>Comment:</i> ACEM Multi-Hazard Mitigation Plan, Ada County THIRA 2015	Yes	No	No
Post-Disaster Recovery Plan	No	No	No
Continuity of Operations Plan	No	No	No
Public Health Plan <i>Comment:</i> Central District Health Department Emergency Operations Plan, 2013	No	Yes	No

Table 4-2. 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	No
User Fees for Water, Sewer, Gas or Electric Service	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	No
Development Impact Fees for Homebuyers or Developers	Yes
Other	N/A

Table 4-3. Administrative and Technical Capability

Staff/Personnel Resources	Available?	Department/Agency/Position
Planners or engineers with knowledge of land development and land management practices	Yes	Development Services/Garden City/ Planning Staff
Engineers or professionals trained in building or infrastructure construction practices	Yes	Public Works/Garden City/ Water, Sewer, and Engineering Staff
Planners or engineers with an understanding of natural hazards	Yes	Public Works and Development Services/Garden City/ Staff
Staff with training in benefit/cost analysis	No	
Surveyors	Yes	Public Works/Garden City/Engineer
Staff capable of making substantial damage estimates	No	
Personnel skilled or trained in GIS applications	Yes	Development Services/Garden City/GIS Administrator
Scientist familiar with natural hazards in local area	No	
Emergency manager	Yes	ACEM/Ada County/Director of ACEM
Grant writers	No	

Table 4-4. National Flood Insurance Program Compliance

Criteria	Response
When did the community enter the NFIP?	1978
When did the Flood Insurance Rate maps become effective?	2002
What local department is responsible for floodplain management?	Development Services
Who is your floodplain administrator? (department/position)	Development Services Director
<ul style="list-style-type: none"> 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?	2008
<ul style="list-style-type: none"> Does your floodplain management program meet or exceed minimum requirements? If so, in what ways? 	Meet
When was the most recent Community Assistance Visit or Community Assistance Contact?	2012
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed?	No
<ul style="list-style-type: none"> If so, please state what they are. 	
Do your flood hazard maps adequately address the flood risk within your jurisdiction?	No
<ul style="list-style-type: none"> If no, please state why. 	Flooding will not adhere to a model. There will be debris, etc.
Does your floodplain management staff need any assistance or training to support its floodplain management program?	Yes
<ul style="list-style-type: none"> If so, what type of assistance/training is needed? 	Ongoing
Does your jurisdiction participate in the Community Rating System (CRS)?	Yes
<ul style="list-style-type: none"> If so, is your jurisdiction seeking to improve its CRS Classification? If not, is your jurisdiction interested in joining the CRS program? 	No
How many Flood Insurance policies are in force in your jurisdiction?	471
<ul style="list-style-type: none"> What is the insurance in force? What is the premium in force? 	\$127,408,500 \$311,358
How many total loss claims have been filed in your jurisdiction?	12
<ul style="list-style-type: none"> How many claims were closed without payment/are still open? What were the total payments for losses? 	6 \$25,661

Table 4-5. Community Classifications

	Participating?	Classification	Date Classified
Community Rating System	Yes	8	2013
Building Code Effectiveness Grading Schedule	No	10 (not participating)	N/A
Public Protection	Yes	3/8/9 (NACFR)	N/A
Storm Ready	Yes	Blue	N/A
Firewise	No	N/A	N/A

Table 4-6. Education and Outreach

Criteria	Response
Do you have a Public Information Officer or Communications Office?	City Administrator
Do you have personnel skilled or trained in website development?	No
Do you have hazard mitigation information available on your website? • If yes, please briefly describe.	Yes Gardencityidaho.org
Do you utilize social media for hazard mitigation education and outreach? • If yes, please briefly describe.	Yes ACEM website and floodplain page
Do you have any citizen boards or commissions that address issues related to hazard mitigation?	No
Do you have any other programs already in place that could be used to communicate hazard-related information? • If yes, please briefly describe.	Yes Social Media, emergency broadcasting, geo Notify
Do you have any established warning systems for hazard events? • If yes, please briefly describe.	Yes 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.

4.4 INTEGRATION WITH OTHER PLANNING INITIATIVES

4.4.1 Existing Integration

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

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

4.4.2 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:

- Comprehensive Plan—Integrate the Parks and Waterway Plan and Multi-Hazard Mitigation Plan to be incorporated, better inform, and update the Garden City Comprehensive Plan.

4.5 JURISDICTION-SPECIFIC NATURAL HAZARD EVENT HISTORY

Table 4-7 lists all past occurrences of natural hazards within the jurisdiction.

Table 4-7. Natural Hazard Events Damage County Wide

Type of Event	FEMA Disaster # (if applicable)	Date	Preliminary Damage Assessment
Flood		1/1979	\$50,000
Wind		3/1981	\$36,000
Wind		6/1981	\$50,000
Flood		06/1983	\$147,000
Earthquake		10/1983	\$4,000,000
Flooding		02/1986	\$20,000
Wind		7/1987	\$10,000
Severe Storm		1/1988	\$8,700
Drought		1987-1992	\$500,000,000
Flood		8/1992	\$4,545
Wind		10/1992	\$6,250.00
Winter Weather		11/1992	\$9,800.00
Severe Storm		4/27/1995	\$50,000
Lightning		7/1995	\$5,000
Flood		1/1997	\$65,000,000
Flood		3-7/1997	\$50,000,000
Flood		9/1997	\$57,000
Severe Storm		4/1998	\$20,000
Severe Storm		9/1998	\$38,000
Severe wind		3/29/2009	\$33,000
Water Main Break at Remington Street		4/1/2012	500,000

4.6 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: 0

Other noted vulnerabilities include:

- Isolation- All access in and out of the City are on State Highway facilities. These facilities may be severely constrained with the vehicular traffic that they may need to accommodate in an event. Moreover, Chinden is inadequate for non-vehicular mobility purposes. Chinden does not accommodate bike lanes, has few and unsafe crossings, has irregular sidewalks, and uncontrolled access points. Census track 11 is located between the Boise River and Chinden from Glenwood to the eastern borders of Garden City. Census Track 11 contains a concentration of vulnerable populations that cannot drive.
- ACHD and ITD Roadway drainage could cause flooding in Garden City if the drainage system is undersized or not adequately maintained.
- Settlers Canal is at a higher elevation than the City. If the canal is not adequately maintained it could pose as a flood threat.
- Aging and undersized water and sewer infrastructure.

4.7 HAZARD RISK RANKING

Table 4-8 presents the ranking of the hazards of concern.

Rank	Hazard Type	Risk Rating Score (Probability x Impact)	Category
1	Flooding	42	High
2	Severe Weather	33	High
3	Earthquake	32	High
4	Dam Inundation	18	Medium
5	Drought	9	Low
6	Volcano	6	Low
7	Landslide	3	Low
8	Wildfire	1	Low

4.8 STATUS OF PREVIOUS PLAN INITIATIVES

Table 4-9 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.

Action Item	Completed	Carry Over to Plan Update	Removed; No Longer Feasible
GC1—Update and training on Emergency Action Plan	No	Yes	
GC2—Establish emergency preparedness inventory with inspection and replacement plan	No	Yes	
GC3—Develop/update a Capital Improvement Plan for capital facilities/infrastructure within the City.	Yes/On Going	Yes	
GC4—Installation of manhole locking mechanisms in the floodway	Yes	No	
GC5—Fresh water supply well house security camera installation	Yes	No	
GC6—Garden City Parks security camera installation	Yes/Ongoing	Yes	
<i>Comment:</i>			
GC8—Acquisition of vulnerable property within the floodplain for use as parks to mitigate flood waters	No	Yes	
GC9—Purchase of equipment to aid in recovery from a flood event for the Library	No	No	
GC10-- Maintain community's compliance and good standing under the National Flood Insurance program	Yes/On Going	Yes	
GC11-- Obtain portable generators for use in Ada County during power outages and other emergency situations	Yes	No	
GC12—Continue to maintain/enhance the City's classification under the Community Rating System	Yes/On Going	Yes	
GC13—Integrate Multi-Hazard Mitigation Plan into the Garden City Comprehensive Plan	No	Yes	
GC14—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.	No	Yes	

4.9 HAZARD MITIGATION ACTION PLAN AND EVALUATION OF RECOMMENDED ACTIONS

Table 4-10 lists the actions that make up the City of Garden City hazard mitigation action plan. Table 4-11 identifies the priority for each action. Table 4-12 summarizes the mitigation actions by hazard of concern and the six mitigation types.

Table 4-10. Hazard Mitigation Action Plan Matrix

Applies to new or existing assets	Hazards Mitigated	Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Timeline
<p>GC 1—Green Infrastructure Flood Mitigation—Garden City needs a plan that identify strategic locations for alternate flood mitigation efforts, with an emphasis on green infrastructure to reduce floodplain and anticipated Base Flood Elevations. An example of such an effort may be identifying a location for an engineered parkland that is utilized to provide additional floodplain capacity and groundwater recharge.</p>						
New and Existing	Flooding, Drought	1, 2, 3, 6, 8, 9, 10	ACEM, Planning, Public Works, BHS, FEMA	High	Grants	Short term
<p>GC 2—Levees Analysis Levee Analysis—There are a number of unaccredited levees in Garden City. Garden City needs an inventory of levees to determine condition and viability of the levees in Garden City and their hydraulic significance. If any of the levees could be hydrologically significant; include a cost estimate and a cost benefit analysis of accrediting or provisionally accrediting each levee, and the sustainability of required maintenance.</p>						
New and Existing	Flooding	1,2, 9,10	ACEM, Planning, Public Works, Corps of Engineers, FEMA	High	Corps of Engineers	Short term
<p>GC3 Water and Sewer Pipe replacement</p>						
New and Existing	Flooding, Severe Weather, Earthquake	1, 9, 10	Garden City	Medium	Local	Ongoing
<p>GC4 Maintain good standing under the National Flood Insurance Program by implementing programs that meet or exceed the minimum NFIP requirements. Such programs include but are not limited to: enforcing an adopted flood damage prevention ordinance, participating in floodplain mapping updates, and providing public assistance and information on floodplain requirements and impacts.</p>						
New and existing	Flooding	2, 5, 6, 8, 9, 10	Garden City	Low	Local	Ongoing
<p>GC5 Continue to maintain/enhance the City’s classification under the Community Rating System</p>						
New and existing	Flooding	6,8,9, 10	Garden City	Low	Local	Ongoing
<p>GC6 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.</p>						
Existing	All Hazards	2, 3, 8, 9, 10	ACEM, Planning, Public Works	High	FEMA Hazard Mitigation Grant Programs, ICC	Long Term
<p>GC7 Integrate Multi-Hazard Mitigation Plan into the Garden City Comprehensive Plan.</p>						
New and Existing	All Hazards	2, 6, 4, 8, 9, 10	Garden City	Medium	Grant/ Local	Short term
<p>GC8 Establish emergency preparedness inventory with inspection and replacement plan</p>						
New and Existing	All Hazards	1, 2, 7, 10	Garden City	Low	Local	Short term

Applies to new or existing assets	Hazards Mitigated	Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Timeline
GC9—Maintain Capital Improvement Plan for capital facilities/infrastructure within the City.						
New and Existing	All Hazards	1, 2, 10	Garden City	Low	Local	Short term
GC10 Consider appropriate higher regulatory standards that prevent or reduce risk to the built environment from the known hazards of concern						
New and Existing	All hazards	1, 3, 4, 5, 8, 10	Garden City Planning	Low	Local	Short Term
GC11 Support County-wide initiatives						
New and Existing	All Hazards	All	Garden City Public Works/ Planning ACEM	Low	Local	Short term Ongoing
GC12 Continuing of Operations Plan						
New and Existing	All Hazards	1, 10	Garden City Public Works/Police Department/ Planning ACEM	Medium	Local	Short
GC13 EOP Emergency Operations Plan						
New and Existing	All Hazards	1, 7, 8, 10	Garden City Public Works/Police Department/ Planning ACEM	Medium	Grants	Medium
GC14 Recovery Plan						
New and Existing	All Hazards	1, 10	Garden City Public Works/Police Department/ Planning ACEM	Medium	Grants	Medium
GC15 Garden City Parks security camera installation						
New and Existing	All Hazards	10	Garden City Public Works/Police Department/	Low	Local/ Grants	Short
GC16 Streetlight replacement/conversion to alternative energy streetlights						
New	All Hazards	10	Garden City Public Works/Urban Renewal	Medium	Local/ Grants/ Redevelopment	Medium
GC17 Acquisition of vulnerable property for use as parks						
Existing	All Hazards	2, 9, 10	ACEM, Planning, Public Works	High	Grants	Long Term
GC18 Purchase of stand by generator for City Hall and Operations Center						
New and Existing	All Hazards	1, 7, 10	Garden City Public Works	Medium	Local/ Grants	Medium
GC19 Obtain portable generators for use in Ada County during power outages and other emergency situations						
New and Existing	All Hazards	1,7, 10	Garden City Public Works/Police Department/	Low	Local/ Grants	Short

Applies to new or existing assets	Hazards Mitigated	Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Timeline
GC20-Whenever possible, coordinate with local experts and employ natural environmental processes in mitigation activities that increase ecosystem resilience and reduce the impacts of flooding on the built environment.						
New and Existing	Flood, Dam Failure	2, 5, 9	Garden City	Medium	Local, Grants, development Fees	Long term

Table 4-11. Mitigation Strategy Priority Schedule

Action #	# of Objectives Met	Benefits	Costs	Do Benefits Equal or Exceed Costs?	Is Project Grant-Eligible?	Can Project Be Funded Under Existing Programs/Budgets?	Implementation Priority ^a	Grant Priority ^a
GC1	7	High	High	Yes	Yes	No	Very High	Very High
GC2	4	High	High	TBD	Yes	No	High	High
GC3	3	High	High	Yes	No	Yes	High	Low
GC4	6	Medium	Low	Yes	No	Yes	High	Low
GC5	4	Low	Low	Yes	No	Yes	Medium	Low
GC6	5	Medium	High	No	Yes	No	Low	Medium
GC7	6	Low	Low	Yes	No	No	High	Medium
GC8	4	High	Low	Yes	No	Yes	High	Medium
GC9	3	High	Low	Yes	No	Yes	High	Low
GC10	6	High	Low	Yes	No	Yes	Medium	Low
GC11	10	Medium	Low	Yes	No	Yes	Medium	Low
GC12	2	High	Medium	Yes	Yes	Yes	Medium	Low
GC13	4	High	Medium	Yes	Yes	Yes	Medium	Medium
GC14	2	High	Low	Yes	Yes	No	Medium	Medium
GC15	1	Low	Low	Yes	No	No	High	Low
GC16	1	Medium	High	No	No	No	Medium	Medium
GC17	3	Medium	High	No	Yes	No	Medium	High
GC18	5	High	Medium	Yes	No	No	Medium	Medium
GC19	3	High	Low	Yes	Yes	No	Medium	Medium
GC20	3	High	Medium	Yes	Yes	No	Medium	High

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

Table 4-12. Analysis of Mitigation Actions

Hazard Type	Action Addressing Hazard, by Mitigation Type ^a					
	1. Prevention	2. Property Protection	3. Public Education and Awareness	4. Natural Resource Protection	5. Emergency Services	6. Structural Projects
Flooding	GC 1, GC 2, GC 4, GC 6, GC 7, GC 9, GC 11, GC 17, GC 20	GC 1, GC 2, GC 3, GC 5, GC 6, GC 10, GC 11, GC 14, GC 20	GC 5, GC 7, GC 11, GC 13, GC 14	GC 1, GC 3, GC 6, GC 11, GC 14, GC 20	GC 3, GC 4, GC 8, GC 11, GC 12, GC 13, GC 14, GC 15, GC 16, GC 18, GC 19	GC 1, GC 2, GC 3, GC 11
Severe Weather	GC 6, GC 7, GC 9, GC 11, GC 17	GC 3, GC 6, GC 10, GC 1, GC 14	GC 7, GC 11, GC 13, GC 14	GC 3, GC 11, GC 14	GC 3, GC 8, GC 11, GC 12, GC 13, GC 14, GC 15, GC 16, GC 18, GC 19	GC 3, GC 11
Earthquake	GC 6, GC 7, GC 9, GC 11, GC 17	GC 3, GC 6, GC 10, GC 11, GC 14	GC 7, GC 11, GC 13, GC 14	GC 3, GC 11, GC 14	GC 3, GC 8, GC 11, GC 12, GC 13, GC 14, GC 15, GC 16, GC 18, GC 19	GC 3, GC 11
Dam Inundation	GC 6, GC 7, GC 11, GC 17, GC 20	GC 6, GC 10, GC 11, GC 14, GC 20	GC 7, GC 11, GC 13, GC 14	GC 11, GC 14, GC 20	GC 8, GC 11, GC 12, GC 13, GC 14, GC 15, GC 18, GC 19	GC 11
Drought	GC 1, GC 6, GC 7, GC 9, GC 11, GC 17	GC 6, GC 10, GC 11, GC 14	GC 7, GC 11, GC 13, GC 14	GC 1, GC 11, GC 14	GC 8, GC 11, GC 12, GC 13, GC 14, GC 18, GC 19	GC 1, GC 11
Volcano	GC 6, GC 7, GC 11, GC 17	GC 6, GC 10, GC 11, GC 14	GC 7, GC 11, GC 13, GC 14	GC 11, GC 14	GC 8, GC 11, GC 12, GC 13, GC 14, GC 15, GC 18, GC 19	GC 11
Landslide	GC 6, GC 7, GC 11, GC 17	GC 6, GC 10, GC 11, GC 14	GC 7, GC 11, GC 13, GC 14	GC 6, GC 11, GC 14	GC 8, GC 11, GC 12, GC 13, GC 14, GC 15, GC 18, GC 19	GC 11
Wildfire	GC 6, GC 7, GC 11, GC 15, GC 17	GC 6, GC 10, GC 11, GC 14	GC 7, GC 11, GC 13, GC 14	GC 6, GC 1, GC 141	GC 8, GC 11, GC 12, GC 13, GC 14, GC 15, GC 18, GC 19	GC 11

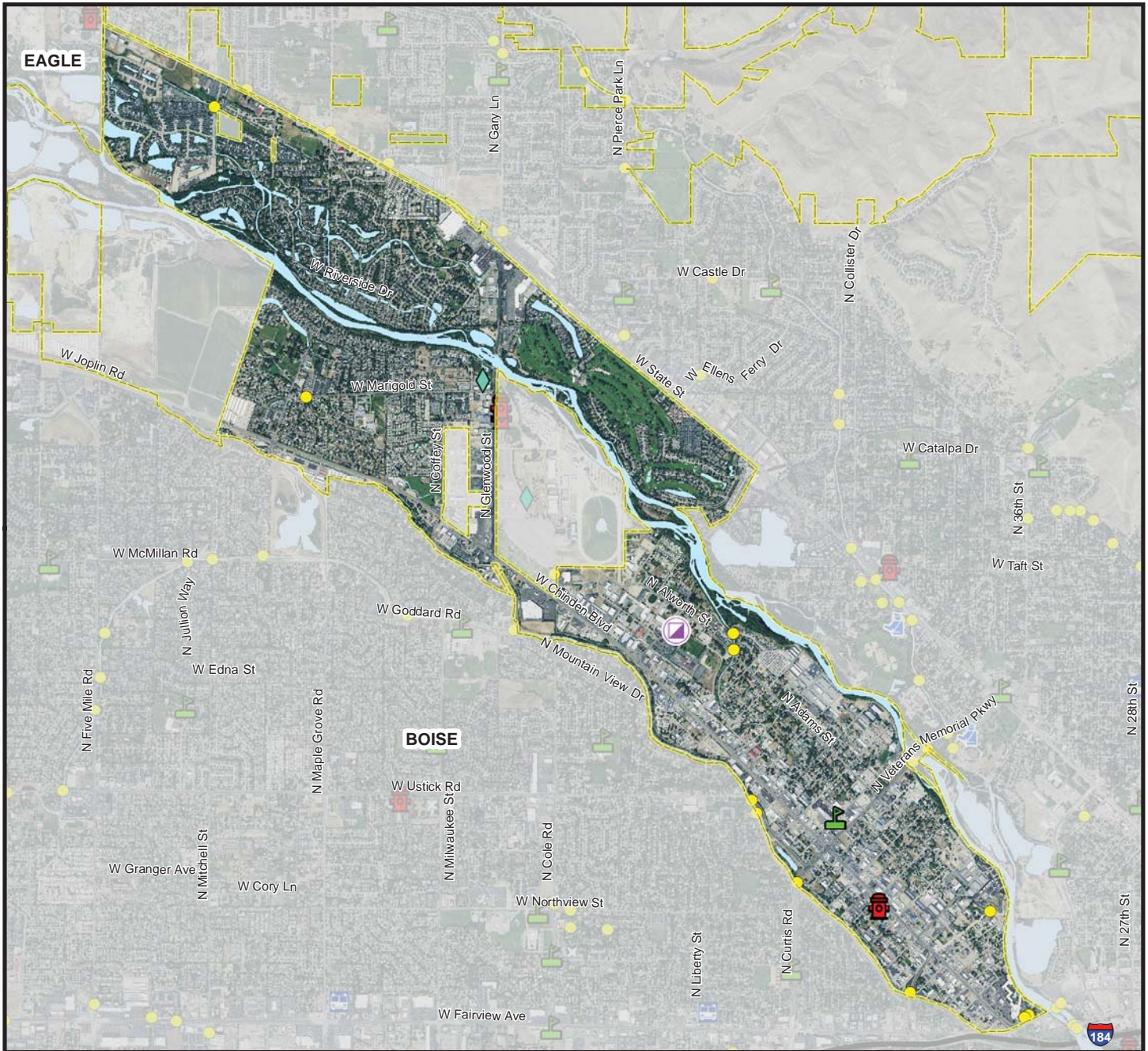
a. See the introduction to this volume for explanation of mitigation types.

4.10 FUTURE NEEDS TO BETTER UNDERSTAND RISK/VULNERABILITY










Ground-truthed topography

Garden City

Essential Facilities & Transportation Systems



Legend

-  Emergency Operation Centers
-  Fire Stations & EMS Facilities
-  Medical Care Facilities
-  Other Essential Facilities
-  Police Stations
-  Schools & Educational Facilities
-  Airport Facilities
-  Bus Facilities
-  Highway Bridges

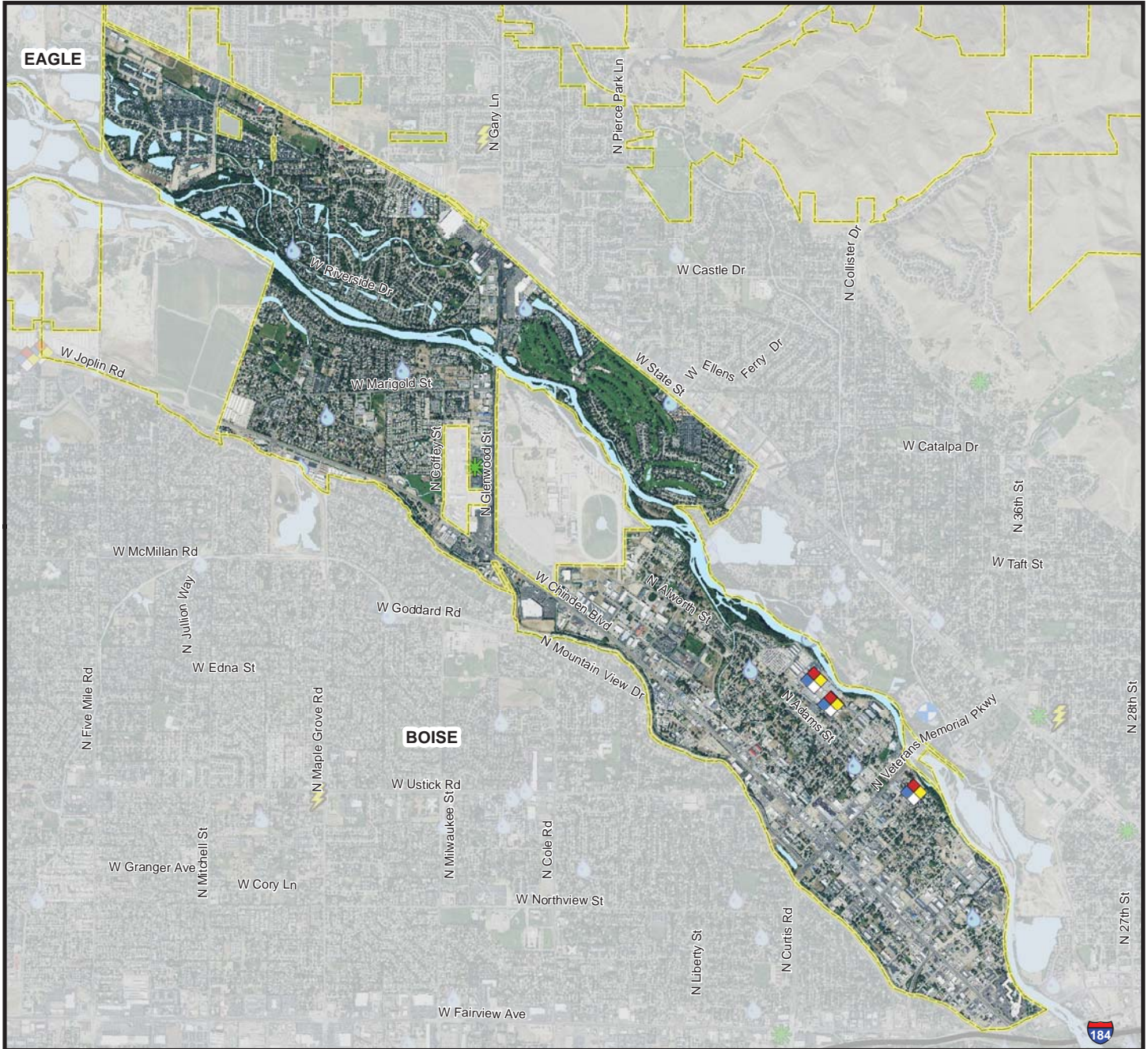


Data Sources: Ada County, U.S. Geological Survey, COMPASS, Idaho DHS








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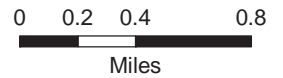
Garden City

Utilities & Infrastructure



Legend

-  Communication Facilities
-  Dams
-  Electric Power Facilities
-  Hazardous Materials
-  Natural Gas Facilities
-  Potable Water Facilities
-  Wastewater Facilities

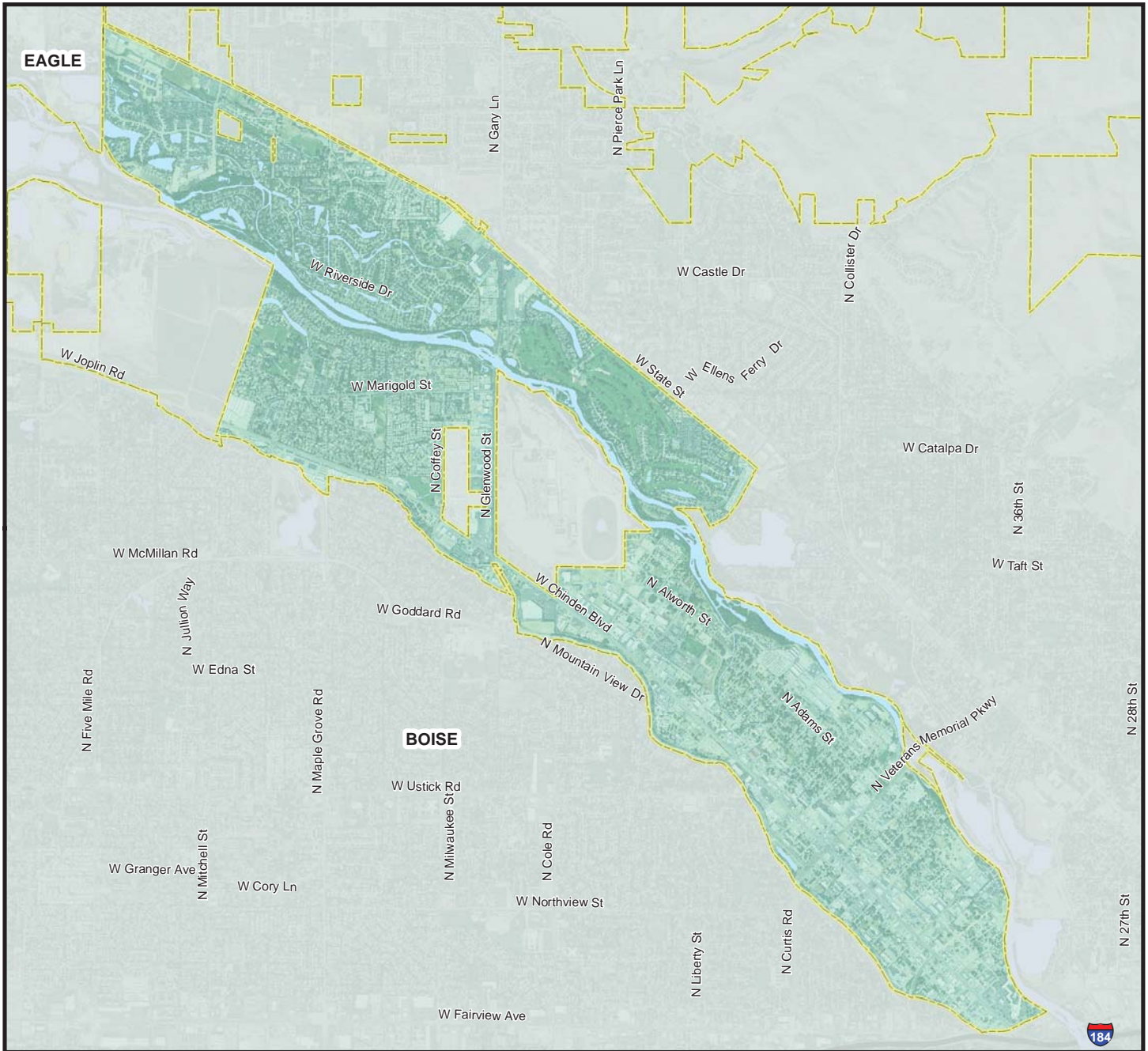


Data Sources: Ada County, U.S. Geological Survey, COMPASS, Idaho DHS

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Garden City

Peak Ground Acceleration for a 100-Year Probabilistic Event

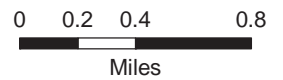


Legend

 Ada County Boundary

Modified Mercalli Scale, Potential Shaking

 IV (Light)

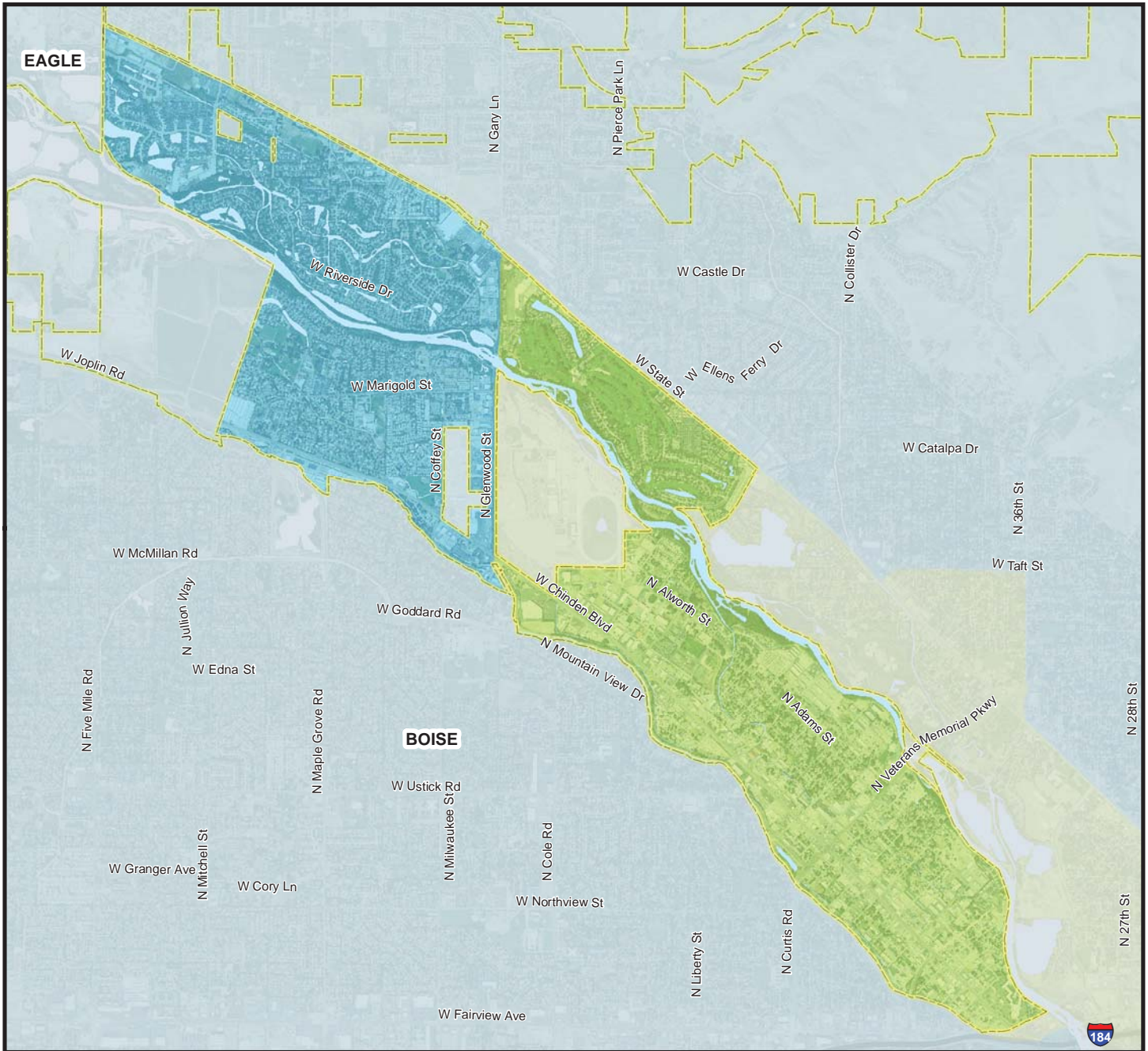


Data Sources: Ada County, U.S. Geological Survey, Hazus

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Garden City

Peak Ground Acceleration for a 500-Year Probabilistic Event



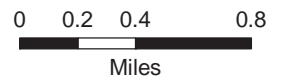
Legend

 Ada County Boundary

Modified Mercalli Scale, Potential Shaking

 V (Moderate)

 VI (Strong)

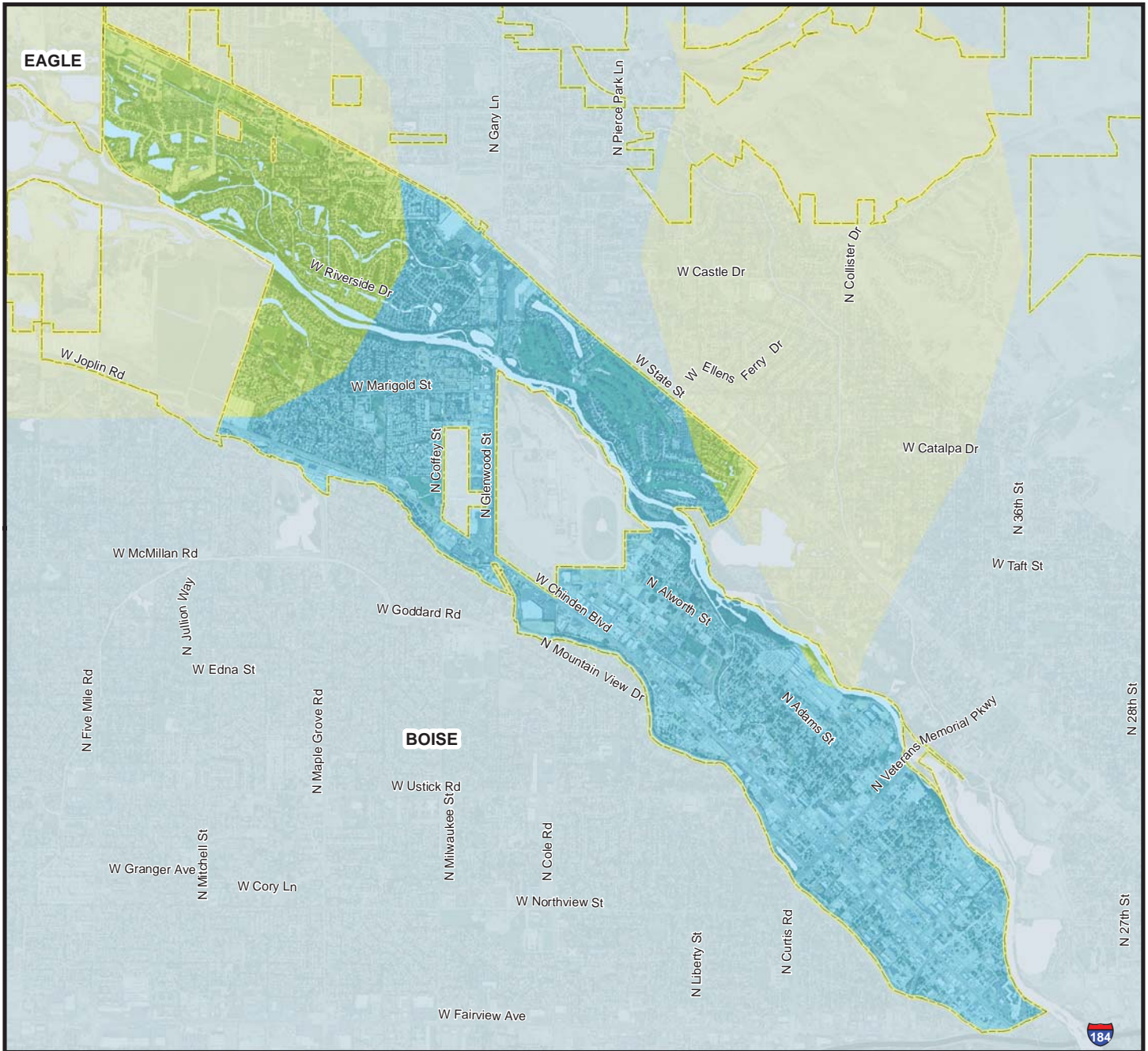


Data Sources: Ada County, U.S. Geological Survey, Hazus

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Garden City

Squaw Creek M7.0 Scenario Peak Ground Acceleration



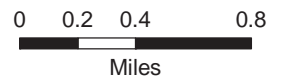
Legend

 Ada County Boundary

Modified Mercalli Scale, Potential Shaking

 V (Moderate)

 VI (Strong)

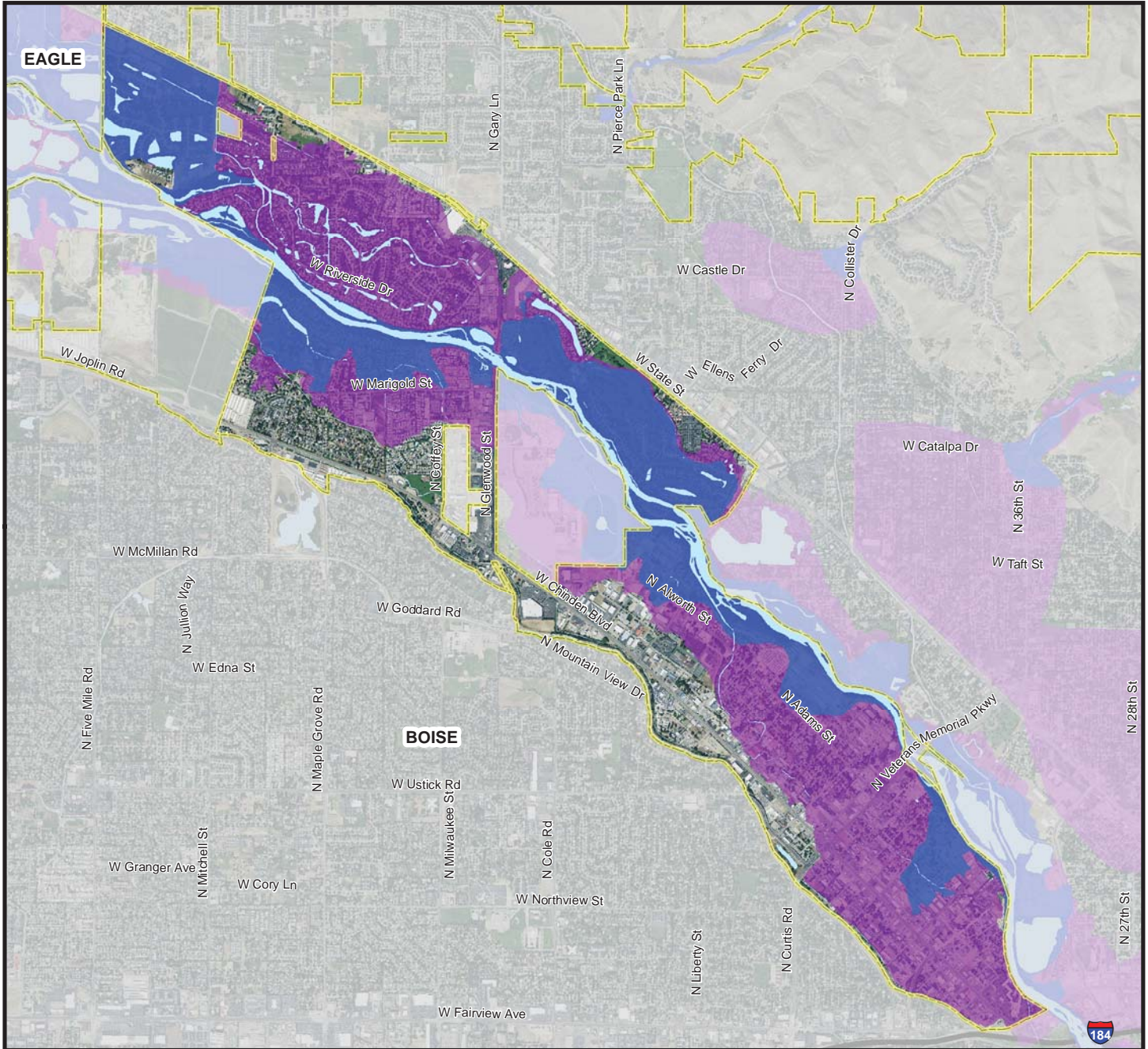


Data Sources: Ada County, U.S. Geological Survey





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Garden City

FEMA DFIRM Flood Hazard Zones



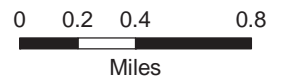
Legend

-  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.

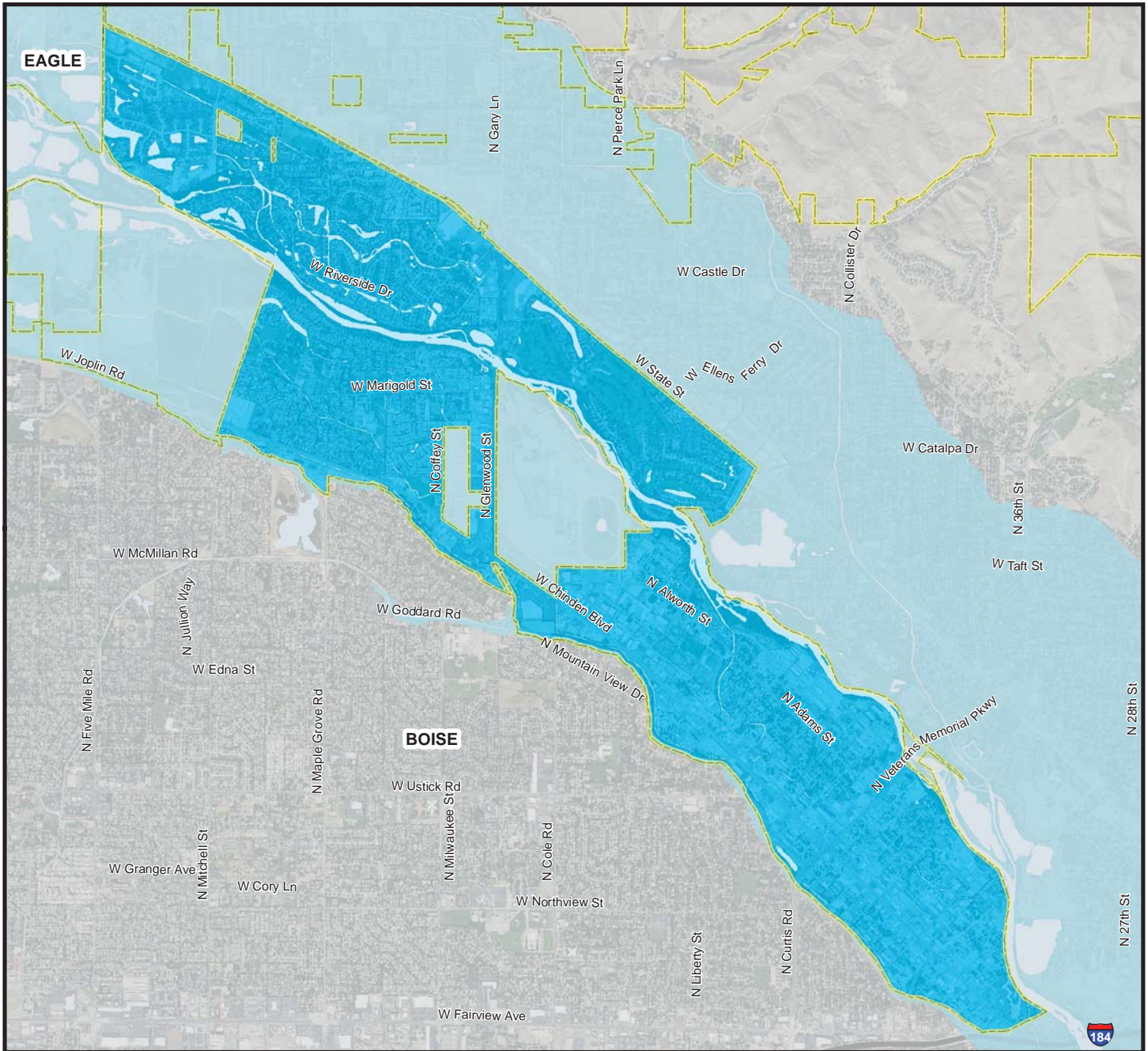
Data Sources: Ada County, U.S. Geological Survey, FEMA, USACE

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Garden City

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

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