

5. CITY OF KUNA

5.1 MULTI-HAZARD MITIGATION PLAN POINT OF CONTACT

Primary Point of Contact

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5.2 JURISDICTION PROFILE

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

- Date of Incorporation—September 15, 1915
- Current Population—18,430 (COMPASS 2016 Estimates)
- Population Growth—15,210 (2010) to 18,430 (2016) – 21.2% increase in 6 years.
- Location and Description—The City of Kuna’s business district is located approximately 18 miles southwest of Boise and about 8 miles south of Meridian’s business districts and is part of the Boise City-Nampa, Idaho Metropolitan Statistical Area. Kuna is located about 8 miles south of U.S. Interstate 84 and intersects with State Highway 69.

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

- Brief History—Kuna is located in the Ada County, which was established on December 22, 1864 by the Idaho Territorial Legislature. Kuna originated as a railroad stop with coach transport to Boise but after the branch line was complete, there was no need for a depot at Kuna and the settlement closed down. With the prospects of irrigation water, settlers were attracted to the area again. The principle industry was agricultural and in the early 1900s, over 700 acres were planted with vineyards, apples and prune orchards. Agricultural is still a major local industry today.
- Climate—Kuna’s climate is characterized as a semi-arid climate, with four distinct seasons. Kuna experiences hot and dry summers with highs exceeding 100 °F (38 °C) 5.6 days in a typical year and 90 °F (32 °C) on 46 days. Yet due to the aridity, even summer nights often offer significant and crisp cool-downs. Winters are cold, with a January average of 30.2 °F (–1.0 °C), and lows falling to 0 °F (–18 °C) or below on around 4 nights per year. Snowfall averages 19 inches (48 cm), but typically falls in bouts of 3 inches (8 cm) or less. Spring and fall are generally mild, with autumn being a quick transition period whereas spring is quite gradual. Precipitation is usually infrequent and light, and especially more lacking during the summer months.

- **Governing Body Format**—The City of Kuna is governed by a mayor-city council form of government; with four-elected City Council members and the Mayor. The City consists of six departments: Finance; Engineering; Public Works; Planning & Zoning, Police and City Clerk. The city government structure also includes a planning & zoning commission and design review committee. The City Council is responsible for the adoption of this plan, Planning and Zoning Department is responsible for its implementation.
- **Development Trends**—Based on data from Compass (Community Planning Association) and Kuna’s Comprehensive Plan, Kuna remains one of the fastest growing cities in the Treasure Valley. Kuna’s population increased from 14,830 in 2007 to 15,900 in 2008. This represents a 7.2-percent increase in population growth from the prior year. This increase over the past year is nearly the same population increase that the City of Boise experienced during the same period and noting it is the 99th largest city in America. This provides some perspective of just how strong Kuna’s growth is even during times of economic conflict. Additionally, Kuna was a contender for CNN/Money’s “Best Place to Live 2005” list. Kuna is transitioning from a rural community to a more complex suburban city, and residential development in Kuna has outpaced commercial development. Kuna has identified additional commercial areas as a component of the Comprehensive Land Use Plan and the next step is implementation of the plan through establishment of new zoning districts, rezoning property and the possible creation of an Urban Renewal District. The City of Kuna is currently updating the Comprehensive Plan and are hopeful to have it approved in Fiscal Year 2016. The plan focuses on the concerns of the Community. City actions, relating to land use allocations, annexations, zoning, subdivision and design review, redevelopment and capital improvements must be consistent with such a plan. Future growth and development will be managed according to the Comprehensive Land Use Plan and it will be reviewed and amended as necessary.

5.3 CAPABILITY ASSESSMENT

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

Table 5-1. Legal and Regulatory Capability

	Local Authority	Other Jurisdiction Authority	State Mandated
Building Code <i>Comment:</i> Title 4, Chapter 1 Kuna Municipal Code (KMC), adopts the 2012 IBC per state mandate. (12/2013)	Yes	No	No
Zoning Code <i>Comment:</i> Title 5, KMC, Adopted 1996	Yes	No	No
Subdivisions <i>Comment:</i> Title 65, KMC, Adopted 1977	Yes	No	No
Stormwater Management <i>Comment:</i> Ada County Highway Department (ACHD) – 11/11/2015	No	Yes	Yes
Post-Disaster Recovery	No	No	No
Real Estate Disclosure	No	No	No
Growth Management <i>Comment:</i> Kuna Comprehensive Plan, adopted 2009	Yes	No	No
Site Plan Review <i>Comment:</i> Title 5, Chapter 4, KMC adopted 8/21/2007	Yes	No	No
Environmental Protection	No	No	No
Flood Damage Prevention <i>Comment:</i> Flood Damage Prevention-Title 4, Chapter 5 KMC. Adopted 8/11/2003	Yes	No	No
Emergency Management	No	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? Yes</i> <i>Comment:</i> Policy was adopted under objective # 5.1 of Goal 5 or the Natural Resources and Hazardous Areas element of the 2015 Comprehensive Plan for the City of Kuna, adopted by City Council 8/2015	Yes	No	Yes
Capital Improvement Plan <i>What types of capital facilities does the plan address?</i> <i>How often is the plan updated?</i>	No	No	No
Floodplain or Watershed Plan <i>Comment:</i> The 2017 Ada County Multi-Hazard Mitigation Plan will qualify as a flood hazard management plan under CRS criteria upon its completion and adoption.	No	No	No
Stormwater Plan <i>Comment:</i> Kuna City complies with the requirements as per EPA requirements in NPDES, and IDWR requirements. ACHD holds NPDES Permit. City is responsible for Stormwater Pollution Prevention associated with City Projects.	Yes	No	Yes
Habitat Conservation Plan	No	No	No

	Local Authority	Other Jurisdiction Authority	State Mandated
Economic Development Plan	No	No	No
Shoreline Management Plan	No	No	No
Community Wildfire Protection Plan <i>The 2017 Ada County Multi-hazard Mitigation plan is being developed as a CWPP for the Ada County planning area.</i>	Yes	No	No
Forest Management Plan	No	No	No
Climate Action Plan	No	No	No
Other	No	No	No
Comprehensive Emergency Management Plan	No	No	No
Threat & Hazard Identification & Risk Assessment <i>ACEM has developed and maintains a THIRA for the Ada County planning area.</i>	No	Yes	No
Post-Disaster Recovery Plan	No	No	No
Continuity of Operations Plan <i>City of Kuna Continuity of Operations (COOP), April 10, 2012</i>	Yes	No	No
Public Health Plan <i>Comment: Central District Health Department Emergency Operations Plan, 2013</i>	No	Yes	No

Table 5-2. 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	No
State-Sponsored Grant Programs	Yes
Development Impact Fees for Homebuyers or Developers	Yes
Other	

Table 5-3. Administrative and Technical Capability

Staff/Personnel Resources	Available?	Department/Agency/Position
Planners or engineers with knowledge of land development and land management practices	Yes	On staff Planner and City Engineer
Engineers or professionals trained in building or infrastructure construction practices	Yes	On staff Building Official/ City Engineer
Planners or engineers with an understanding of natural hazards	Yes	On staff City Engineer/ Planning Director
Staff with training in benefit/cost analysis	Yes	On Staff Planning Director/ Treasurer
Surveyors	Yes	GIS manager / Contract as needed
Staff capable of making substantial damage estimates	Yes	On staff Building Inspector(s)
Personnel skilled or trained in GIS applications	Yes	On staff GIS manager
Scientist familiar with natural hazards in local area	Yes	Contract as needed
Emergency manager	Yes	Ada County
Grant writers	Yes	City Clerk / Contract as needed

Table 5-4. National Flood Insurance Program Compliance

Criteria	Response
When did the community enter the NFIP?	2/24/1975; Regular entry 2/11/1976
When did the Flood Insurance Rate maps become effective?	10/02/2003
What local department is responsible for floodplain management?	GIS Department / Planning & Zoning
Who is your floodplain administrator? (department/position)	Public Works / GIS Manager
<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? <ul style="list-style-type: none"> Does your floodplain management program meet or exceed minimum requirements? If so, in what ways? 	2/11/1976, 10/02/2003 Meet
When was the most recent Community Assistance Visit or Community Assistance Contact?	CAV 11/18/2002 CAC 9/12/1989
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> If so, please state what they are. 	No Insert appropriate information
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> If no, please state why. 	No Mapping is grossly inaccurate
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> If so, what type of assistance/training is needed? 	Yes CFM training
Does your jurisdiction participate in the Community Rating System (CRS)? <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 Yes
How many Flood Insurance policies are in force in your jurisdiction? <ul style="list-style-type: none"> What is the insurance in force? What is the premium in force? 	One (1) \$170,300 \$962
How many total loss claims have been filed in your jurisdiction? <ul style="list-style-type: none"> How many claims were closed without payment/are still open? What were the total payments for losses? 	Zero (0) Zero (0) N/A

Table 5-5. Community Classifications

	Participating?	Classification	Date Classified
Community Rating System	No	N/A	N/A
Building Code Effectiveness Grading Schedule	No	10/10	N/A
Public Protection	Yes	3/9	N/A
Storm Ready	Yes	Participant	N/A
Firewise	No	N/A	N/A

Table 5-6. Education and Outreach

Criteria	Response
Do you have a Public Information Officer or Communications Office?	Yes, Attorney
Do you have personnel skilled or trained in website development?	Yes, GIS manager
Do you have hazard mitigation information available on your website? • If yes, please briefly describe.	No
Do you utilize social media for hazard mitigation education and outreach? • If yes, please briefly describe.	No
Do you have any citizen boards or commissions that address issues related to hazard mitigation? • If yes, please briefly specify.	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 Approved COOP
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.

5.4 INTEGRATION WITH OTHER PLANNING INITIATIVES

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

5.4.1 Existing Integration

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

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

5.4.2 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:

- Future updates to the City’s Comprehensive Plan
- Continued CWPP integration with the Hazard Mitigation

5.5 JURISDICTION-SPECIFIC NATURAL HAZARD EVENT HISTORY

Table 5-7 lists all past occurrences of natural hazards within the jurisdiction.

Type of Event	FEMA Disaster # (if applicable)	Date	Preliminary Damage Assessment
Canal Breach	N/A	6/5/2006	Unknown (40 Homes)
Severe wind	N/A	03/29/2009	\$33,000 (county wide)
Severe wind	N/A	04/27/1995	\$50,000 (county wide)
Flooding	N/A	06/1983	\$147,000 (county wide)

5.6 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:

- Manmade Canal failures

5.7 HAZARD RISK RANKING

Table 5-8 presents the ranking of the hazards of concern.

Rank	Hazard Type	Risk Rating Score (Probability x Impact)	Category
1	Severe Weather	33	High
2	Earthquake	30	Medium
3	Flood	18	Medium
4	Wildfire	18	Medium
5	Drought	9	Low
6	Volcano	6	Low
7	Dam Inundation	6	Low

5.8 STATUS OF PREVIOUS PLAN INITIATIVES

Table 5-9 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.

5.9 HAZARD MITIGATION ACTION PLAN AND EVALUATION OF RECOMMENDED ACTIONS

Table 5-10 lists the actions that make up the City of Kuna hazard mitigation action plan. Table 5-11 identifies the priority for each action. Table 5-12 summarizes the mitigation actions by hazard of concern and the six mitigation types.

Table 5-9. Status of Previous Action Plan

Action Item	Completed	Carry Over to Plan Update	Removed; No Longer Feasible
Action #K1 – Standardized Regulation of HVAC and Life Safety Code	N	Y	
Action #K2 – Develop and maintain an inventory of City Critical Facilities <i>Comment: Done both in the COOP and in the GIS daily work load</i>	N	Y	
Action #K3 – Open Space Preservation in identified high risk hazard area <i>Comment: Mentioned and mapped in the current Comp Plan & City Code</i>	N	Y	
Action #K4 – Maintain community compliance and good standing NFIP <i>Comment: Join CRP program, have a CFM on staff</i>	N	Y	
Action #K5 – Integrate Local Hazard Mitigation into Kuna Comprehensive Plan <i>Comment: To be carried over as ongoing action</i>	Y	Y	
Action #K6 – Move or retrofit structures in Hazard Prone areas <i>Comment: Waiting on proper mapping of floodplain via purchased LiDAR</i>	N	Y	
Action #K7 – Consider higher regulatory standards to reduce risk in building <i>Comment: Kuna abides by State Building Code</i>	Y	N	
Action #K8 – Support County-wide initiatives identified in Volume 1	N	Y	
Action #K9 – Continue to support the updating of this plan as stated in Vol 1	N	Y	

Table 5-10. Hazard Mitigation Action Plan Matrix

Applies to new or existing assets	Hazards Mitigated	Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Timeline
Action #K1—Standardized Regulation of HVAC and Life Safety Code						
Both	All	All	Kuna City Council, Building Department	Low	General	Short-term
Action #K2—Develop and maintain an inventory of City Critical Facilities						
Existing	All	All	Public Works/ City of Kuna, GIS Department	Medium	Public Works	Ongoing
Action #K3—Open Space Preservation in identified high risk hazard area						
Both	All	All	Planning & Zoning, GIS	Medium	General Fund	Ongoing
Action #K4—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.						
Both	Flood	2,4,5,6,9	Planning & Zoning	Low	General Fund	Ongoing
Action #K5—Continue to integrate Multi-Hazard Mitigation Plan into future updates of the Kuna Comprehensive Plan						
Both	All	2, 5, 6	Planning & Zoning	Low	General Fund	Ongoing
Action #K6—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.						
Existing	All Hazards	3, 8, 9	City of Kuna, ACEM	High	FEMA Hazard Mitigation Grant Programs, ICC	Long-term
Action #K7—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	4,6	Planning and Zoning	Low	General Fund	Long-term
Action #K8—Support County-wide initiatives identified in Volume 1.						
New and Existing	All Hazards	All	Kuna, ACEM	Low	General Fund	Short term Ongoing
Action #K9—Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Volume 1.						
New & Existing	All Hazards	All	ACEM, Kuna	Low	Garden City, FEMA Mitigation Grant Funding for 5-year update	Short-Term, Ongoing
Action #K10—Update SCADA links to all critical facilities via Cell service. Many of our sites use radio repeaters to the water tower, if we lose the water tower we lose ALL communication						
Both	Weather, Fire, Earthquake, Volcano	All	Kuna Public Works, GIS	High	Public Works	Short Term
Action #K11—Provide fire safety, fire prevention and Firewise education to neighborhoods, schools and community via the internet, social media and direct public outreach.						
New and Existing	Wildfire	8,9	City, Kuna Rural Fire, ACEM	Low	General Fund	Ongoing

Table 5-11. 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
K1	All	High	Low	Yes	No	Yes	High	N/A
K2	All	High	Medium	Yes	Yes	Yes	High	Medium
K3	All	High	Medium	Yes	Yes	Yes	High	High
K4	5	High	Low	Yes	No	Yes	High	N/A
K5	3	High	Low	Yes	No	Yes	High	N/A
K6	3	High	High	Yes	Yes	Yes	Medium	Medium
K7	2	High	Low	Yes	No	Yes	Medium	N/A
K8	10	Medium	Low	Yes	No	Yes	High	N/A
K9	10	Low	Low	Yes	Yes	Yes	High	High
K10	All	High	High	Yes	Yes	Yes	High	High
K11	2	Medium	Low	Yes	No	Yes	High	Low

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

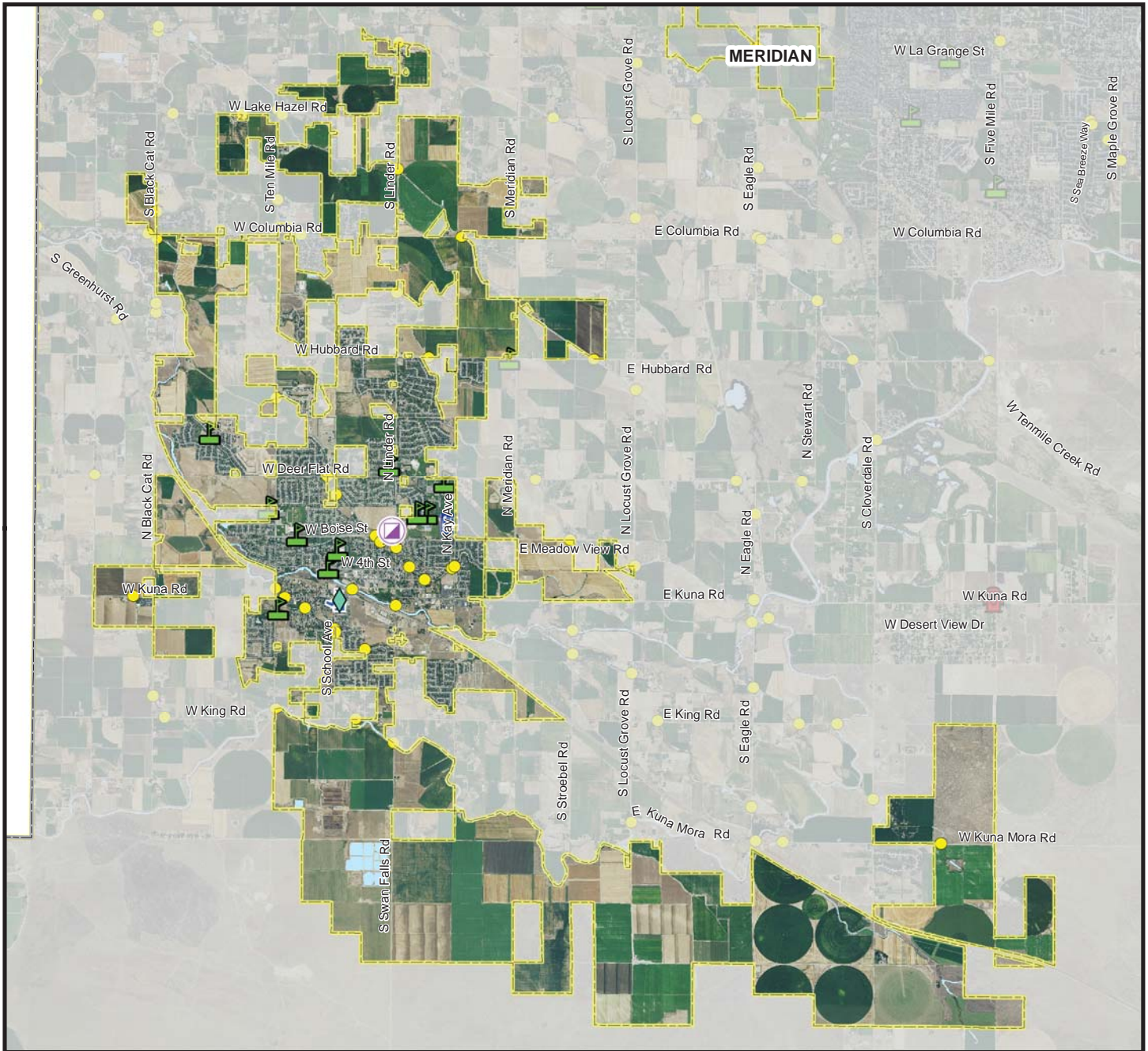
Table 5-12. Analysis of Mitigation Actions

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
Drought	K1, K7, K9	K3, K6	K8	K3	K2, K8	
Wildfire	K1, K7, K9, K11	K3, K6, K11	K8, K11	K3, K11	K2, K8	
Severe Storms	K1, K7, K9, K11	K3, K6, K11	K8	K3	K2, K8, K11	K11
Earthquake	K1, K7, K9, K11	K3, K6, K11	K8	K3	K2, K8, K11	K11
Landslide	K1, K7, K9	K3, K6	K8	K3	K2, K8	
Volcano	K1, K7, K9, K11	K3, K6, K11	K8	K3	K2, K8, K11	K11
Flood	K1, K7, K9, K11	K3, K4, K6	K4, K8	K3, K4, K11	K2, K4, K8	K4
Dam Inundation					K11	K11










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

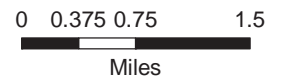
City of Kuna

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

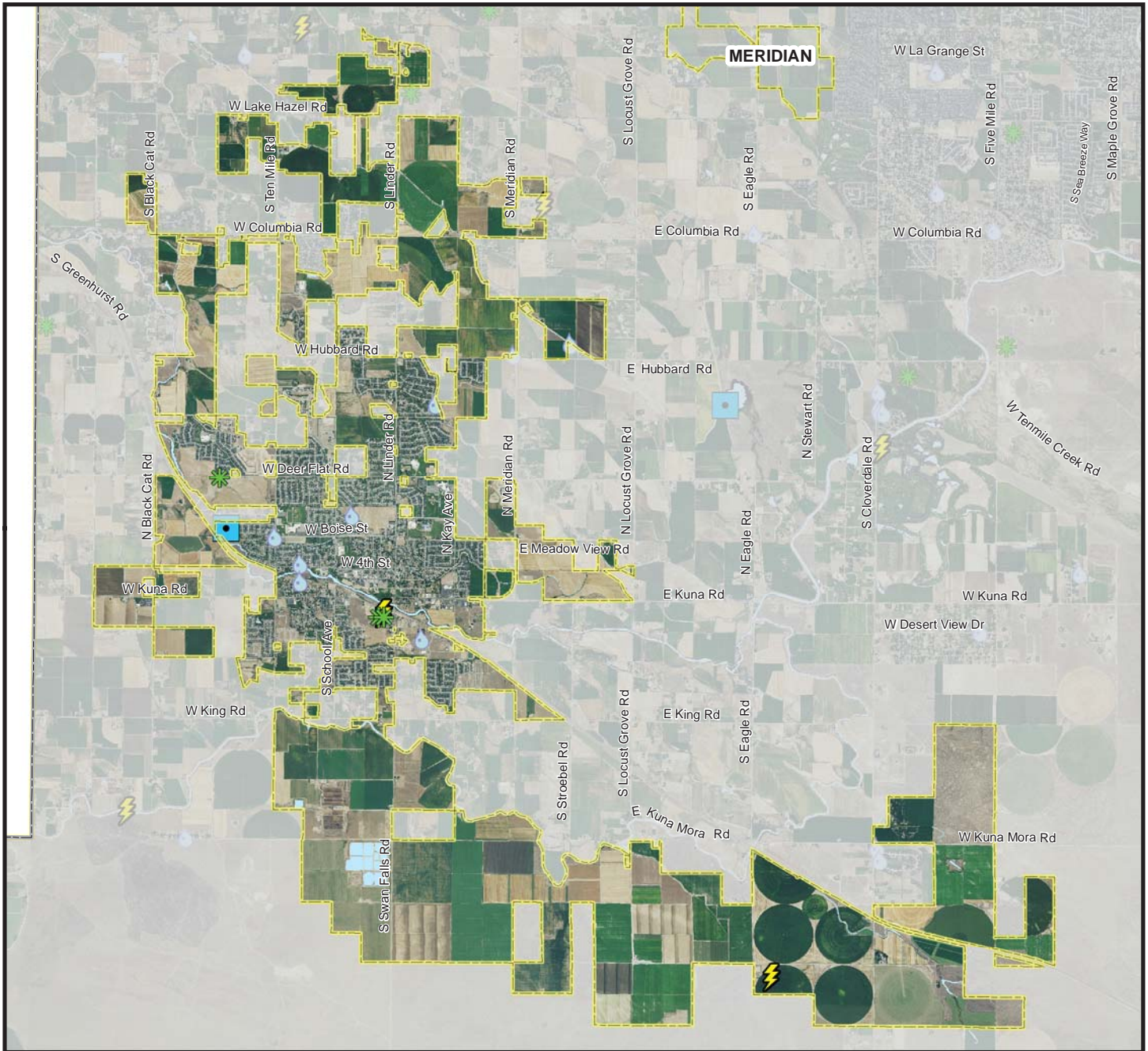


Data Sources: Ada County, U.S. Geological Survey, COMPASS, Idaho DHS








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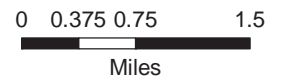
City of Kuna

Utilities & Infrastructure



Legend

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

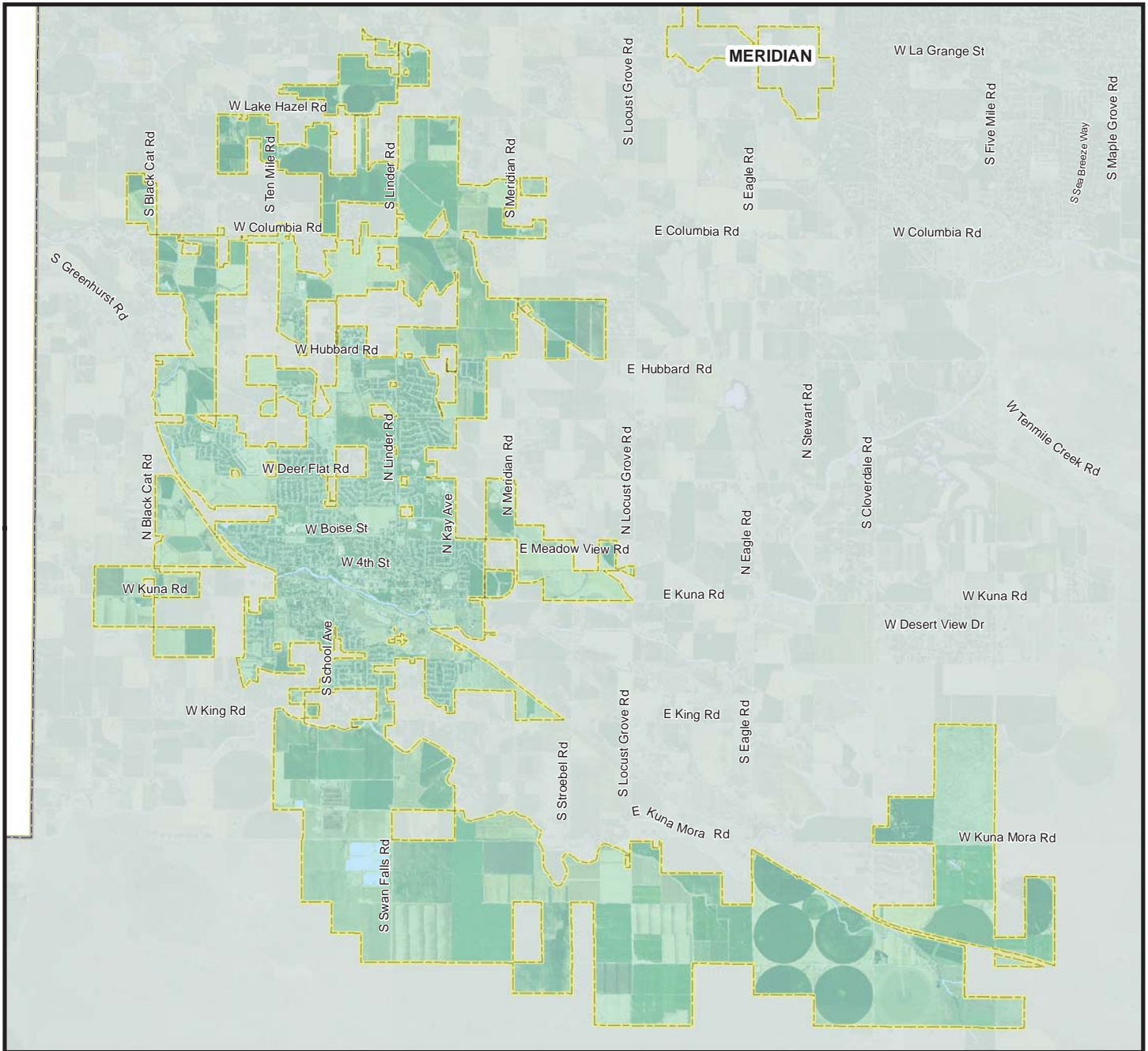


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City of Kuna

Peak Ground Acceleration for a 100-Year Probabilistic Event

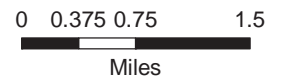


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 Ada County Boundary

Modified Mercalli Scale, Potential Shaking

 IV (Light)

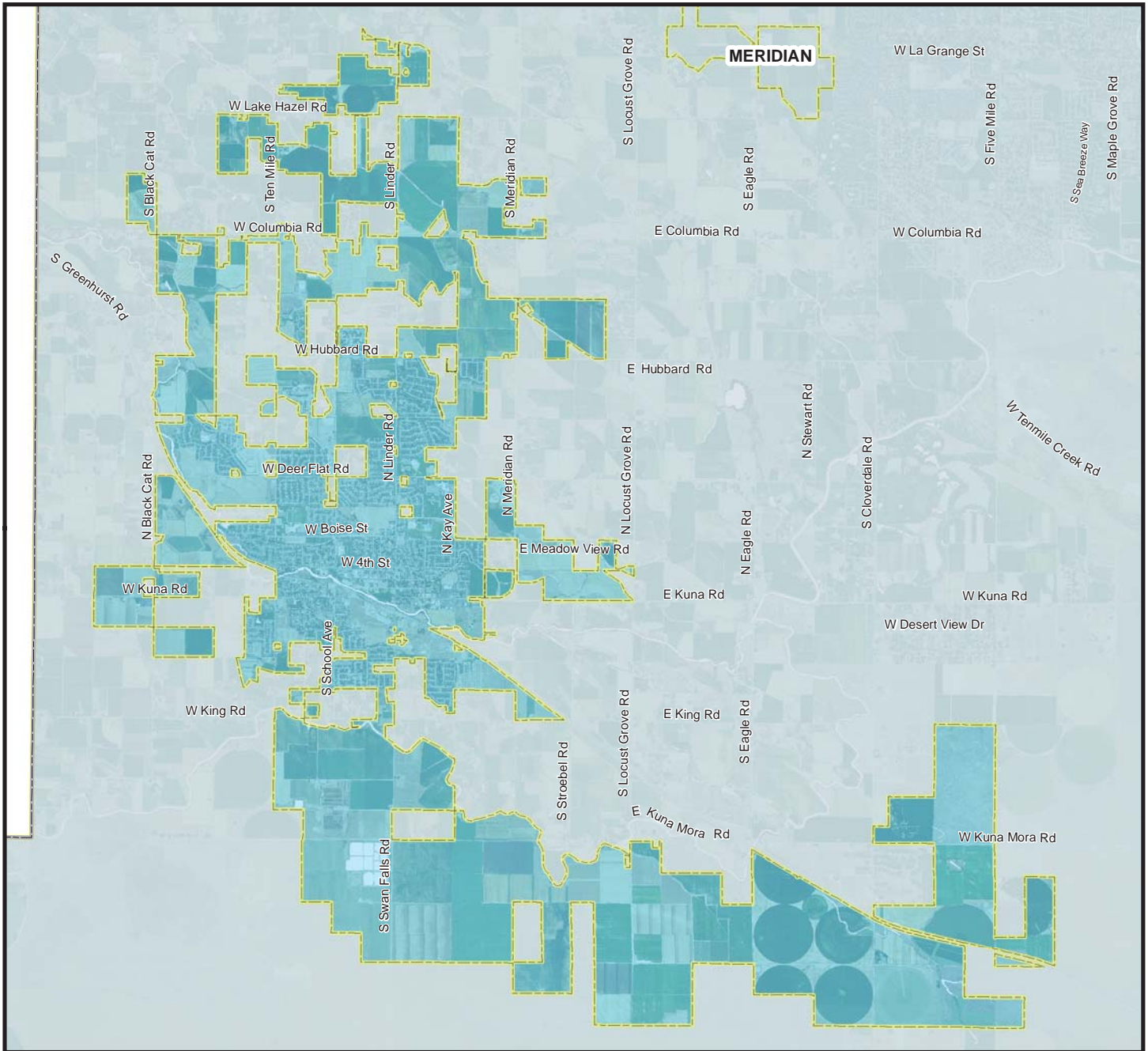


Data Sources: Ada County, U.S. Geological Survey, Hazus

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City of Kuna

Peak Ground Acceleration for a 500-Year Probabilistic Event



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 Ada County Boundary

Modified Mercalli Scale, Potential Shaking

 V (Moderate)

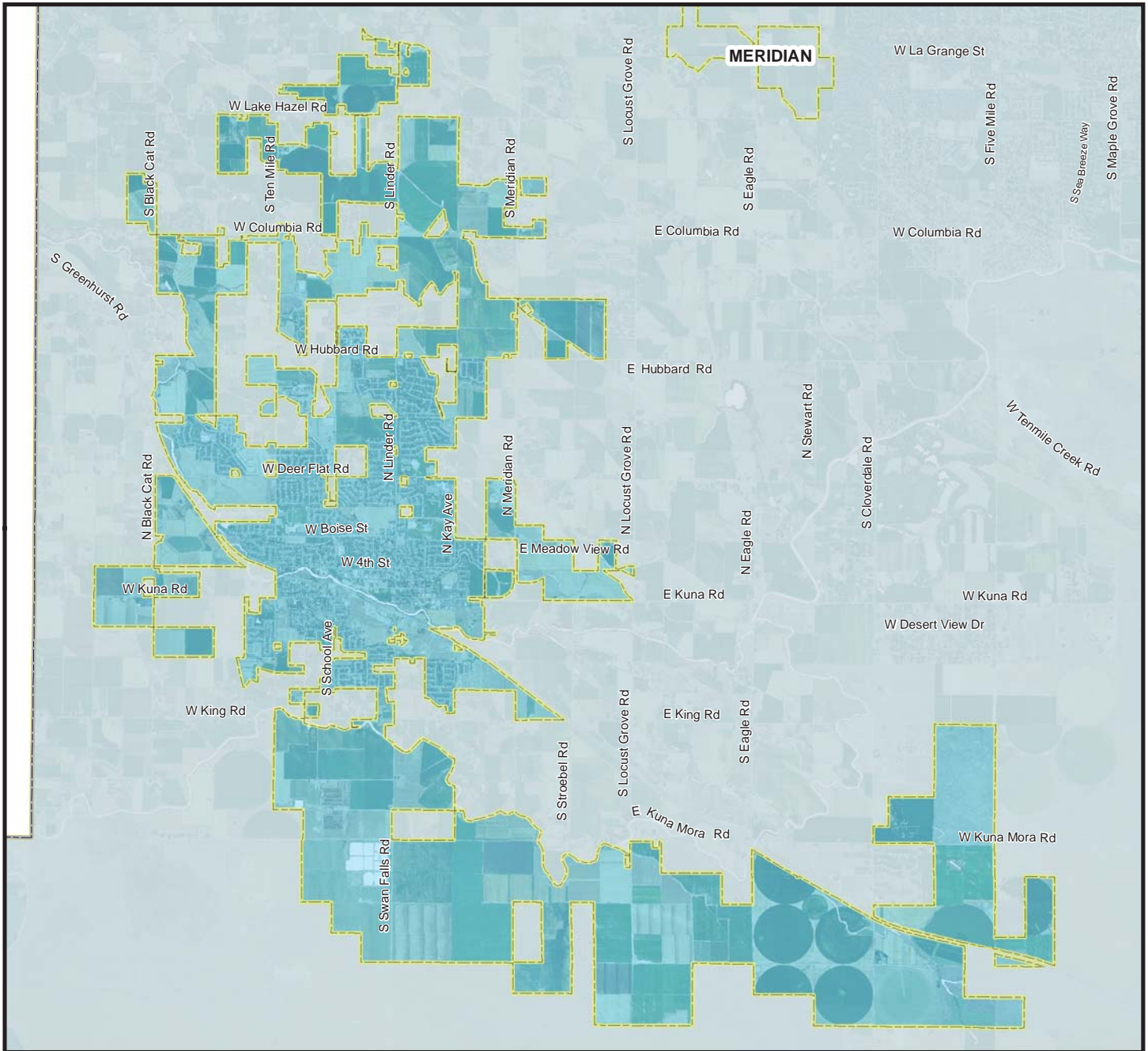


Data Sources: Ada County, U.S. Geological Survey, Hazus

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City of Kuna

Squaw Creek M7.0 Scenario Peak Ground Acceleration

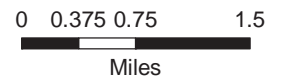


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 Ada County Boundary

Modified Mercalli Scale, Potential Shaking

 V (Moderate)

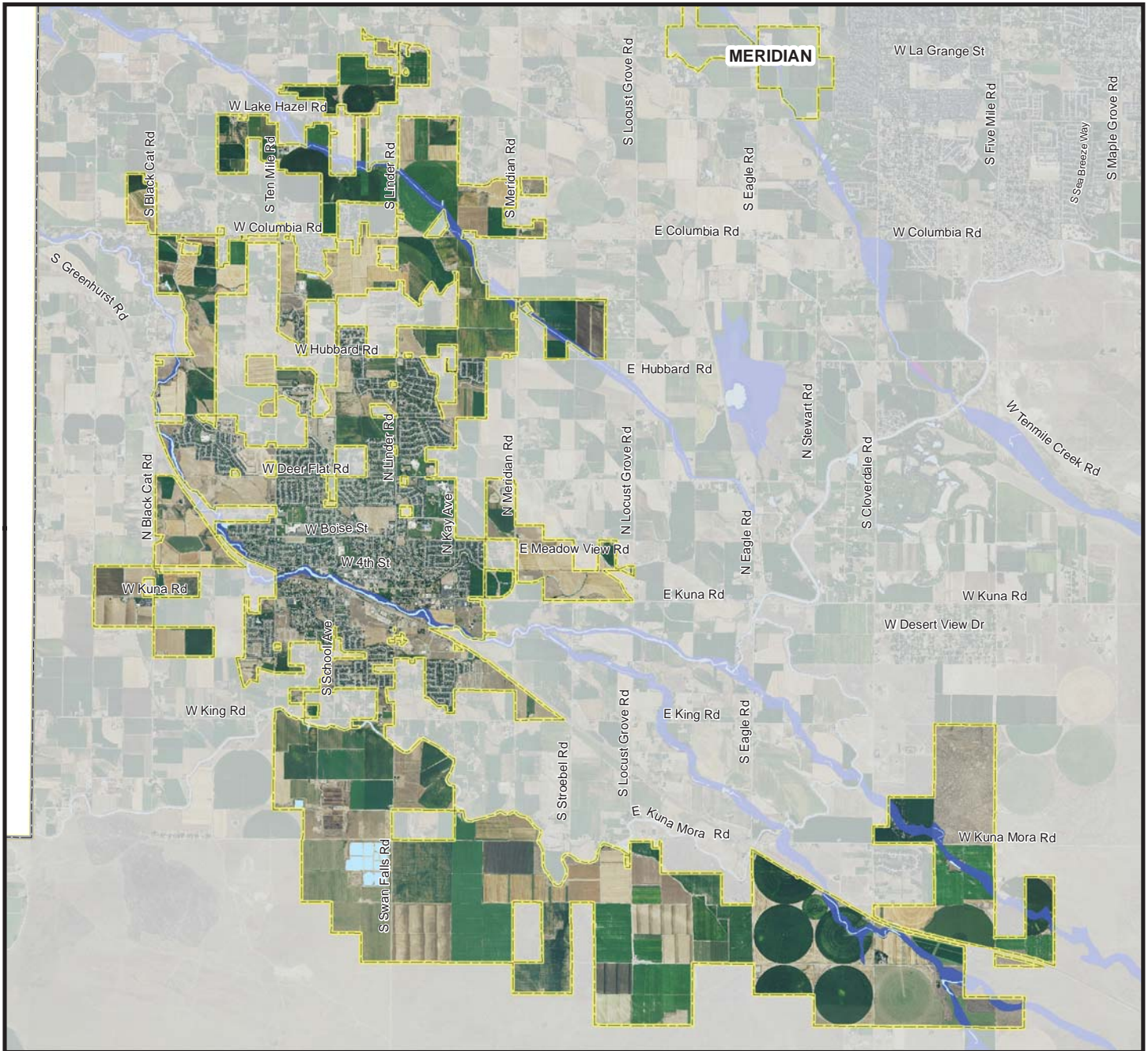


Data Sources: Ada County, U.S. Geological Survey





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City of Kuna

FEMA DFIRM Flood Hazard Zones



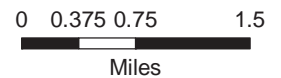
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-  Ada County Boundary
-  Water Bodies
-  1% Annual Chance Flood Boundary (100 Year)
-  0.2% Annual Chance Flood Boundary (500 Year)

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

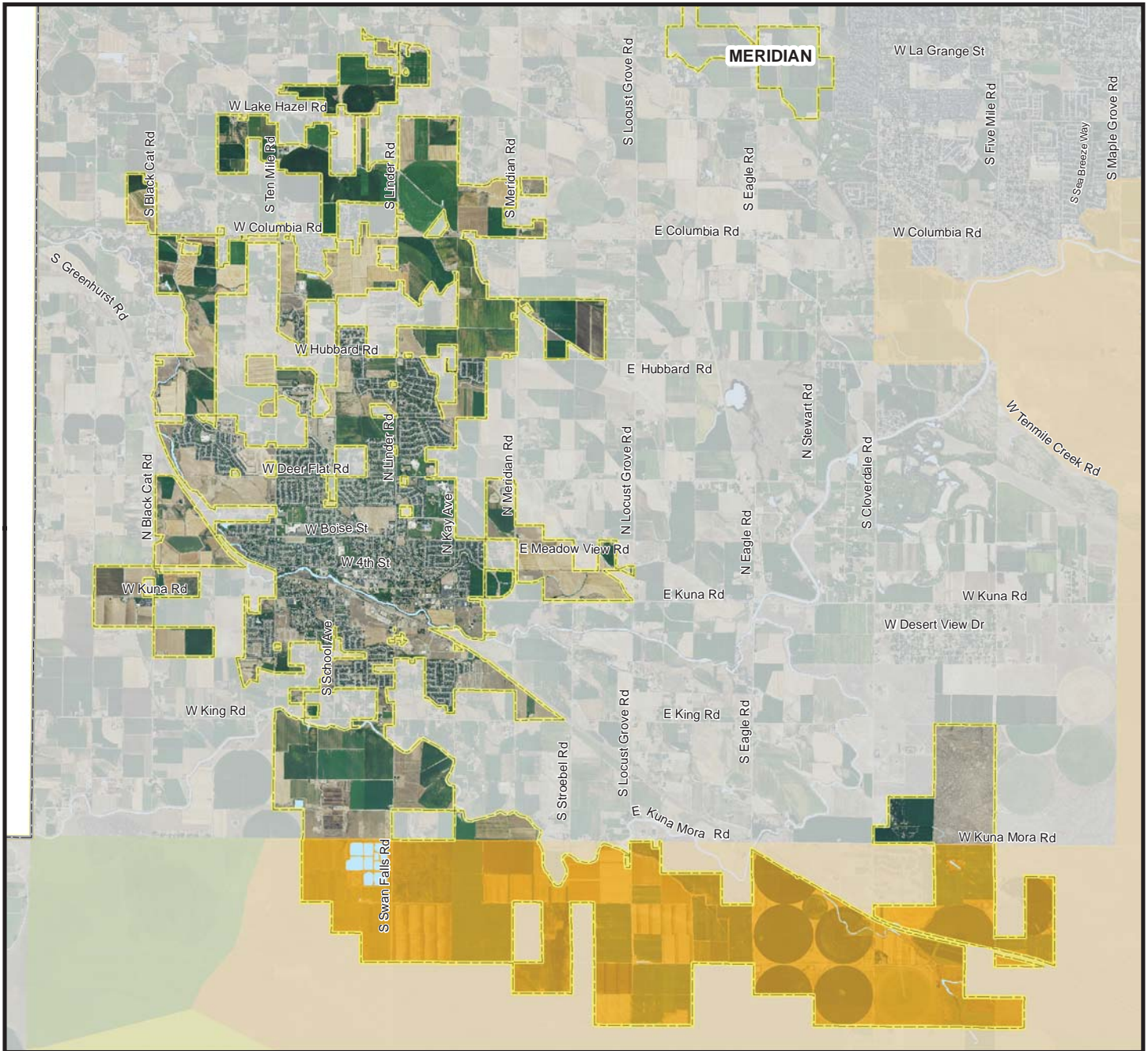
Data Sources: Ada County, U.S. Geological Survey, FEMA, USACE

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City of Kuna

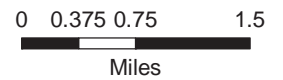
Wildfire Risk Areas



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Relative Risk to Wildfire

- Low
- Low-Moderate
- Moderate
- Moderate-High
- High



Data Sources: Ada County, U.S. Geological Survey, Idaho Bureau of Land Management

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