

16. KUNA RURAL FIRE DISTRICT

16.1 MULTI-HAZARD MITIGATION PLAN POINT OF CONTACT

Primary Point of Contact

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16.2 JURISDICTION PROFILE

16.2.1 Overview

Kuna Rural Fire District (KRFD) was established in 1951 and provides fire protection, 911 ALS ambulance service, rescue services and wildland fire protection to 110 square miles with an assessed value of \$817,005,740 (\$771,209,306 in Ada County, and \$45,796,434 in Canyon County), and a population of 25,000. The District is a mix of urban, rural, agriculture and wildland areas. . The District provides protection services for the City of Kuna, the southern portion of Ada County, and a portion of south west Canyon County. Kuna Fire District also provides contract services to multiple entities in the southeast portion of Ada County as well as providing mutual aid to multiple agencies countywide and statewide. A large portion of Ada County borders the southern 20 mile boundary of the Kuna Fire District, that portion of the County is very remote and considered “no man’s land” as far as Fire and EMS Services. Kuna is typically dispatched to those areas for mutual aid due to our proximity to the area.

The District is governed by a board of five elected Commissioners with one Officer of Administration, and employs a Fire Chief, Assistant Fire Chief, 8 fulltime Firefighter/Paramedics, 1 full time Firefighters, and 25 paid call Volunteers who respond to approximately 1200 incidents per year. Approximately 90% of the District’s budget is generated from tax assessment and the remaining 10% from fee based services

16.2.2 Service Area and Trends

The district serves a population of 23,000 as of 2010 Its service area covers an area of 110 square miles, which has a total value of \$817,005,740.

The Kuna Fire District has experienced 186% population increase since 2000 as reported in the 2010 census. This has resulted in an increase of 28% in total call volume (fire and EMS) over the past five years and emergency ambulance transports have increased by 37% over the past five years. The increase in call volume is due to the continued growth throughout the District, the trend has stabilized with the downturn in the economy, however, we are expecting this trend to increase over the next five years due to the fact we are the second fastest growing area in the State of Idaho.

16.2.3 Assets

Table 16-1 summarizes the critical assets of the district and their value.

Asset	Value
Property	
4 acres of land	\$8000
Critical Infrastructure and Equipment	
Three Engine/Pumpers	\$1,200,000
One Tender	\$600,000
Three Ambulances	\$360,000
Three Brush Trucks	\$400,000
Two Command Vehicle	\$60,000
Total:	\$3,330,000
Critical Facilities	
Fire Station #1—150 W Boise, Kuna	\$1,500,000
Fire Station #2—10600 Kuna Rd, Kuna	\$350,000
Total:	\$1,850,000

16.3 PLANNING AND REGULATORY CAPABILITIES

The following existing codes, ordinances, policies or plans are applicable to this Multi-Hazard Mitigation Plan:

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

16.4 FISCAL, ADMINISTRATIVE AND TECHNICAL CAPABILITIES

The jurisdiction participates in the Public Protection Class Rating System and currently has a rating of 4-9 dependent on location within the District. This rating was achieved in July 2014. An assessment of fiscal capabilities is presented in Table 16-2. An assessment of administrative and technical capabilities is presented in Table 16-3.

Table 16-2. Fiscal Capability

Financial Resources	Accessible or Eligible to Use?
Capital Improvements Project Funding	No
Authority to Levy Taxes for Specific Purposes	No
User Fees for Water, Sewer, Gas or Electric Service	No
Incur Debt through General Obligation Bonds	Yes
Incur Debt through Special Tax Bonds	Yes
Incur Debt through Private Activity Bonds	No
State-Sponsored Grant Programs	Yes
Development Impact Fees for Homebuyers or Developers	Yes
Other	Yes

Table 16-3. Administrative and Technical Capability

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

16.5 EDUCATION AND OUTREACH CAPABILITIES

An assessment of education and outreach capabilities is presented in Table 16-4.

16.6 INTEGRATION WITH OTHER PLANNING INITIATIVES

The following describe the jurisdiction's process for integrating the Multi-Hazard Mitigation Plan into existing plans and programs.

16.6.1 Existing Integration

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

- None applicable

16.6.2 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:

- None applicable

Table 16-4. Education and Outreach

Criteria	Response
Do you have a Public Information Officer or Communications Office?	Yes Fire Chief/ Assistant Fire Chief
Do you have personnel skilled or trained in website development?	Yes Officer of Administration
Do you have hazard mitigation information available on your website? • If yes, 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.	No
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.

16.7 JURISDICTION-SPECIFIC NATURAL HAZARD EVENT HISTORY

Table 16-5 lists all past occurrences of natural hazards within the jurisdiction.

Table 16-5. Natural Hazard Events

Type of Event	FEMA Disaster # (if applicable)	Date	Preliminary Damage Assessment
Severe Storm/Thunder Storm—Wind		08/22/2010	\$15000
Wind		03/29/2009	\$6666
Flood		06/04/2006	\$750000
Severe Storm/Thunder Storm—Wind		07/25/2002	\$
Severe Storm/Thunder Storm—Wind		01/16/1999	\$1000
Severe Storm/Thunder Storm—Wind		09/07/1998	\$4000
Lightning		09/07/1998	\$2000
Severe Storm/Thunder Storm—Wind		09/06/1998	\$1600
Hail—Severe Storm/Thunder Storm—Wind		04/23/1998	\$4000
Hazardous Spill/Fire		1997	\$
Wind		09/17/1997	\$400
Lightning/Wild Fire		07/30/1996	\$
Lightning/Wild Fire		1996	\$
Lightning/Wild Fire		07/28/1995	\$800000
Lightning/Wild Fire		07/03/1995	\$

16.8 JURISDICTION-SPECIFIC VULNERABILITIES

Noted vulnerabilities the jurisdiction include:

- Not applicable

16.9 HAZARD RISK RANKING

Table 16-6 presents the ranking of the hazards of concern.

Rank	Hazard Type	Risk Rating Score (Probability x Impact)	Category
1	Severe Storm	33	High
2	Wildland Fire	32	High
3	Earthquake	30	Medium
4	Flood	18	Medium
5	Drought	9	Low
6	Volcano	6	Low
7	Dam Inundation	0	Low

16.10 STATUS OF PREVIOUS PLAN INITIATIVES

Table 16-7 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
Action #—KFD1— Support County-wide initiatives identified in Volume 1 <i>Comment: Ongoing</i>		X	
Join the CRS program <i>Comment:</i>			
Action #—KFD2— Continue to support the implementation, monitoring, maintenance, and updating of the Plan, as defined in Volume 1. <i>Comment: Ongoing</i>		X	
Action #—KFD3— Comply with all applicable building and fire codes, as well as other regulations when constructing or significantly remodeling infrastructure facilities <i>Comment: Ongoing</i>		X	
Action #—KFD4— Ensure a reliable source of water for fire suppression (meeting acceptable standards for minimum volume and duration of flow) for existing and new development. <i>Comment: Ongoing</i>		X	
Action #—KFD5— Develop and maintain a coordinated approach between fire jurisdictions and water supply agencies to identify needed improvements to the water distribution system, initially focusing on areas of highest wildfire hazard <i>Comment: Ongoing</i>		X	
Action #—KFD6— Ensure all dead-end segments of public roads in high hazard areas have at least a "T" intersection turn-around sufficient for typical wildland fire equipment <i>Comment: Ongoing</i>		X	
Action #—KFD7— Require that development in high fire hazard areas provide adequate access roads, onsite fire protection systems, evacuation signage and fire breaks <i>Comment: Ongoing</i>		X	

Action Item	Completed	Carry Over to Plan Update	Removed; No Longer Feasible
<p>Action #—KFD8—Ensure adequate fire equipment road or fire road access to developed and open space areas.</p> <p><i>Comment: Ongoing</i></p>		X	
<p>Action #—KFD9—Construct a Railroad overpass to access south side of Kuna for emergency access and evacuation routes. Approx. 70 trains pass through and often block access to large portion of the District.</p> <p><i>Comment: Ongoing</i></p>		X	
<p>Action #—KFD10—Evacuation routes, map and mark evacuation options from southern portion of District. Provide public education in regards to evacuations.</p> <p><i>Comment: Ongoing</i></p>		X	
<p>Action #—KFD11—Increase communication capabilities between agencies, coordination of radio types and use of existing and new systems.</p> <p><i>Comment: Ongoing</i></p>		X	
<p>Action #—KFD12—Establish a local weather station, current information provided is often inaccurate due to the location and geographical differences within the county and our District.</p> <p><i>Comment: Ongoing</i></p>		X	
<p>Action #—KFD13—Identify & obtain necessary emergency response training and equipment for water/flood related response and rescue.</p> <p><i>Comment: Ongoing</i></p>		X	
<p>Action #—KFD14—Identify & obtain necessary emergency response training and equipment for hazardous materials. Natural hazards present high risk with rail cargo involving hazardous material spills and fires.</p> <p><i>Comment: Ongoing</i></p>		X	

16.11 HAZARD MITIGATION ACTION PLAN AND EVALUATION OF RECOMMENDED ACTIONS

Table 16-8 lists the actions that make up the Kuna Rural Fire District hazard mitigation action plan. Table 16-9 identifies the priority for each action. Table 16-10 summarizes the mitigation actions by hazard of concern and the six mitigation types.

Table 16-8. Hazard Mitigation Action Plan Matrix

Applies to new or existing assets	Hazards Mitigated	Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Timeline
Action #—KFD1—Support County-wide initiatives identified in Volume 1						
New/ Existing	All	All	KRFD	Low	Local	Short
Action #—KFD2—Continue to support the implementation, monitoring, maintenance, and updating of the Plan, as defined in Volume 1.						
New/ Existing	All	All	KRFD	Low	Local/Grant Funding	Short
Action #—KFD3—Comply with all applicable building and fire codes, as well as other regulations when constructing or significantly remodeling infrastructure facilities.						
New/ Existing	All		KRFD	Low	Local	Ongoing
Action #—KFD4—Ensure a reliable source of water for fire suppression (meeting acceptable standards for minimum volume and duration of flow) for existing and new development.						
New/ Existing	Wildfire		KRFD		Local/Grant Funding	Ongoing
Action #—KFD5—Develop and maintain a coordinated approach between fire jurisdictions and water supply agencies to identify needed improvements to the water distribution system, initially focusing on areas of highest wildfire hazard.						
New/ Existing	Wildfire		KRFD	Low	Local	Ongoing
Action #—KFD6—Ensure all dead-end segments of public roads in high hazard areas have at least a "T" intersection turn-around sufficient for typical wildland fire equipment.						
New/ Existing	Wildfire		County	Low	Local/County	Ongoing
Action #—KFD7—Require that development in high fire hazard areas provide adequate access roads, onsite fire protection systems, evacuation signage and fire breaks						
New	Wildfire		County	Low	Local/County	Ongoing
Action #—KFD8—Ensure adequate fire equipment road or fire road access to developed and open space areas.						
New	Wildfire		County	Medium	Local/County/Grant Funding	Ongoing
Action #—KFD9—Construct a Railroad overpass to access south side of Kuna for emergency access and evacuation routes. Approx. 70 trains pass through and often block access to large portion of the District.						
New	All		City/County	High	Local/County/Grant Funding	Long Term
Action #—KFD10—Evacuation routes, map and mark evacuation options from southern portion of District. Provide public education in regards to evacuations.						
New/ Existing	All		County	Medium	Local/County/Grant Funding	Ongoing
Action #—KFD11—Increase communication capabilities between agencies, coordination of radio types and use of existing and new systems.						
New/ Existing	All		County	Medium	Local/County/Grant Funding	Ongoing

Table 16-9. 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
KFD1	10	High	Low	Yes	Yes	Yes	High	Low
KFD2	10	Low	Low	Yes	Yes	Yes	High	Low
KFD3	4	Medium	Low	Yes	No	No	High	Low
KFD4	4	High	Medium	Yes	No	No	Low	Low
KFD5	3	Medium	Low	Yes	No	No	High	Low
KFD6	3	High	Low	Yes	No	No	High	Medium
KFD7	6	High	Low	Yes	No	No	High	Medium
KFD8	4	High	Low	Yes	Yes	No	Medium	Medium
KFD9	3	High	High	Yes	Yes	No	Medium	Medium
KFD10	4	High	Low	Yes	No	Yes	High	Low
KFD11	5	High	Medium	Yes	Yes	No	High	Medium

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

Table 16-10. 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
Severe Storm	1, 2, 3	1, 2, 3, 4	1, 2, 3, 11, 13	1, 2,	1, 2, 3, 10, 11, 12, 13, 14, 15	1, 2, 3, 4
Wildland Fire	1, 2, 3, 8	1, 2, 3, 5, 6, 7, 8, 9	1, 2, 3, 8, 11, 13	1, 2, 3, 5	1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13	1, 2, 3, 7, 8, 9
Drought		1, 2, 3,		1, 2, 3, 5		1, 2, 3
Flood	1, 2, 3	1, 2, 3,	1, 2, 3, 11, 13		1, 2, 3, 10, 11, 12, 13, 14	1, 2
Earthquake	1, 2, 3	1, 2, 3, 4	1, 2, 3		1, 2, 3, 12,	1, 2, 3, 4
Dam Failure	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3, 12	1, 2, 3
Landslide						
Volcano						

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