

CHAPTER 13.

NORTH ADA COUNTY FIRE AND RESCUE ANNEX

13.1. HAZARD MITIGATION PLAN POINT OF CONTACT

Primary Point of Contact

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13.2. JURISDICTION PROFILE

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

NACFR covers 34 square miles, with a roughly equal mix of urban commercial and suburban and rural residential areas, and serves a population of 22,694 (2010 census). The largest percentage of the population is located in the City of Garden City. The hazard environment is notable for a substantial hazardous materials presence in the commercial area, a large swath of urban interface in the Boise foothills and along the Boise River, and the presence of the Boise River itself. Station 16 has one of the highest run volumes of any fire station in the State of Idaho.

NACFR owns three fire stations: two within the City limits of Garden City, and one in Hidden Springs, located in the foothills north of Boise. The Hidden Springs Station is staffed during wildland fire season through an intergovernmental agreement with the U.S. Bureau of Land Management. This agreement allows the Bureau of Land Management to use the Station to house its wildland engine company, and covers wildland fire response only. To date, funding has not been available to allow NACFR to staff the Hidden Springs Station for structural fire and emergency medical response. As a result, response times to Hidden Springs are substantially longer than for the rest of the NACFR coverage area.

In 2009 NACFR signed a Joint Powers Agreement with Boise City Fire Department to provide manpower and oversee Operations for NACFR. In addition, Boise City Fire also provides Mutual Aid to NACFR to cover the Eastern most section of NACFR boundaries.

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

- **Population Served**—22,694 as of January, 2010.
- **Land Area Served**—34 Square Miles
- **Value of Area Served**—The estimated value of the area served by the jurisdiction is \$1,202,438,001
- **Land Owned**—2.44 Acres
- List of Critical Infrastructure/Equipment Owned by the Jurisdiction:

- Engine E-16 2004 Pierce Enforcer and contents \$400,000
- Engine E-18 2004 Pierce Enforcer and contents \$400,000
- Tender WT-16 2002 Pierce International and contents \$300,000
- Brush BR-16 2006 GMC 5500 4x4 and contents \$130,000
- Brush BR-18 2006 GMC 5500 4x4 and contents \$130,000
- **Total Value of Critical Infrastructure/Equipment**—The total value of critical infrastructure and equipment owned by the jurisdiction is \$1,360,000.
- List of Critical Facilities Owned by the Jurisdiction:

Facility	Address	Value: Improvements	Value: Contents
Station 16	5800 Glenwood, Garden City	\$710,000	\$70,000
Station 18	3895 Chinden, Garden City	\$1,105,266	\$85,000
Station 20	5871 W Hidden Springs Drive, Boise	\$529,000	\$44,000

- **Total Value of Critical Facilities**—The total value of critical facilities owned by the jurisdiction is \$2,543,266.
- **Current and Anticipated Service Trends**—In the near long term, service trends are driven by the financial impact of the national economic downturn. Due to reductions in revenue, in 2010, NACFR was forced to close one of its two Garden City Fire Stations. NACFR currently staffs a single Station in Garden City with a BLS Engine Company. At the same time that District budget shortfalls have reduced NACFR staffing levels, State response to the economic downturn has included a reduction in funding for Health and Welfare service recipients. This reduction in State services is resulting in an increase in medical responses including welfare checks and mental health calls. This trend is likely to continue.
- In the longer term, local land use designations allow for an increase in light commercial and residential land uses within the service area. This increase may result in an increase in hazards and will expose a larger, more densely configured population to them. This will also result in a projected increase in call volume.

13.3. JURISDICTION-SPECIFIC NATURAL HAZARD EVENT HISTORY

Table 13-1 lists all past occurrences of natural hazards within the jurisdiction.

13.4. HAZARD RISK RANKING

Table 13-2 presents the ranking of the hazards of concern.

13.5. APPLICABLE REGULATIONS AND PLANS

The following existing codes, ordinances, policies or plans are applicable to this hazard mitigation plan:

- Idaho Code
- Idaho Emergency Operations Plan

- Idaho State Hazard Mitigation Plan
- Ada County Flood Plan
- Ada County Hazmat Plan
- Ada County Wildfire Response Plan
- Ada County Mass Casualty Incident Plan
- Ada County Hazard Mitigation Plan
- Ada County Wildland-Urban Interface Wildfire Mitigation Plan
- City of Garden City Evacuation Plan
- City of Garden City Code 4-13-1
- City of Garden City Code 8-3
- NACFR Resolutions
- NACFR Strategic Plan
- Boise City Fire Department Standard of Cover-2010
- National Fire Protection Association (NFPA) Standards and Recommended Practices (various)

13.6. CLASSIFICATION IN HAZARD MITIGATION PROGRAMS

The jurisdiction's classifications under various hazard mitigation programs are presented in Table 13-3.

13.7. HAZARD MITIGATION ACTION PLAN AND EVALUATION OF RECOMMENDED INITIATIVES

Table 13-4 lists the initiatives that make up the jurisdiction's hazard mitigation plan. Table 13-5 identifies the priority for each initiative. Table 13-6 summarizes the mitigation initiatives by hazard of concern and the six mitigation types.

13.8. STATUS OF PREVIOUS PLAN INITIATIVES

Table 13-7 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.

13.9. FUTURE NEEDS TO BETTER UNDERSTAND RISK/VULNERABILITY

A significant portion of the District lies within the 100/500 year floodplain of the Boise River. Even more lies within the inundation zone for dam failure. While relocating critical infrastructure (Fire Stations) outside the flood plain would be desirable from the standpoint of flood hazard mitigation, to do so would have a significant negative impact on the ability to respond to the structural fire and emergency medical calls which make up the day to day operation of the District. In anticipation of constructing a new Fire Station to replace Station 16, the District will need to identify an optimal location from the standpoint of both fire/emergency medical service delivery and flood mitigation, as well as develop engineering plans to structurally mitigate potential flood impacts.

District Facilities should also be assessed for recommended structural mitigation for earthquakes.

Type of Event	Date	Preliminary Damage Assessment
Highway 16 Fire	2010	5 Homes Lost
McFarland Fire	2008	Acreage Burned
Oregon Trail Fire	2008	18 Homes Lost, 1 Human Life Lost
Wildfires	2000	
Boise Front Fires (Wildland-Urban Interface)	Occur seasonally	
Flooding in the Foothills	1959, 1969, 1979, 1982, 1986, 1997	In 1969 approximately 500 houses damaged by flash flooding and landslides
Boise River Floods	1936, 1938, 1943, (Boise River flood control dams built late 40s-1955) 1963, 1964, 1965, 1983, 1993, 1997, 1998	
Mt. St. Helens Eruption	1980	
Challis Earthquake	1983	

Rank	Hazard Type	Risk Rating Score (Probability x Impact)
1	Flood	54
2	Severe Storm	48
3	Wildland Fire	36
4	Earthquake	28
5	Dam Failure	18
6	Volcano	16
7	Landslide	16
8	Drought	12

	Participating?	Classification	Date Classified
Public Protection	Yes	4/9	N/A
Storm Ready	No	N/A	N/A
Firewise	Yes	Pending	Pending

<p align="center">TABLE 13-4. HAZARD MITIGATION ACTION PLAN MATRIX</p>						
Applies to new or existing assets	Hazards Mitigated	Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Timeline
<p>Initiative NACFR-1—Consistent Standards for Development in High-Risk/Underserved Areas Work with other agencies and jurisdictions to develop and implement consistent WUI (wildland-urban interface) development and construction standards for sprinklers in new construction in the urban interface where fire stations and/or water supplies for firefighting are absent or inadequate. Educate developers and builders in WUI construction and landscaping best practices as part of all new development in the wildland-urban interface. (Boise Initiatives 3 and 4).</p>						
New	Wildland Fire	4, 6, 9	Boise Fire Department	Low	District	Short
<p>Initiative NACFR-2—Conduct Wildland-Urban Interface GIS-Based Hazard Assessment Develop a wildfire and landslide risk-assessment for vegetation and slope in undeveloped areas. Also assess risk associated with mature landscape and construction standards for already developed areas. (Boise Initiative-3)</p>						
New/Existing	Wildland Fire, Landslide	2, 4, 5, 6, 9	Boise Fire Department	Low	District, PDM	Short
<p>Initiative NACFR-3—Earthquake retrofitting of Fire Stations 18, 20 Assess stations for structural and non-structural earthquake mitigation measures. Install or retrofit to reduce impact of earthquake (Boise Initiative-5).</p>						
Existing	Earthquake	1, 2, 3, 10	NACFR	Medium	District, PDM	Short
<p>Initiative NACFR-4—Firewise Community Program for Residents in the Foothills Obtain Firewise Community Certification for Hidden Springs. Conduct Firewise Homeowners Workshops.</p>						
Existing	Wildland Fire	8	Boise Fire Department	Low	District, Rural Fire Assistance Grant, SRS Title III, National Fire Plan	Short
<p>Initiative NACFR-5—Develop Community Emergency Response Team Pilot Program for Hidden Springs The Hidden Springs Community is an example of an underserved “leapfrog” development. Fire and EMS response is delayed, and current funding does not allow full time staffing of a fire station. This initiative would help organize the Community to support its residents and assist public safety responders in the event of any natural or human caused emergency. The initiative would include training, exercise, and purchase of training materials and required equipment and supplies. The initiative would also provide funding for staff to administer the initiative (could be combined with Initiatives 1, 2 and 8, and shared with Boise Fire Department).</p>						
Existing	All	8	NACFR	Medium	District,	Short

**TABLE 13-4.
HAZARD MITIGATION ACTION PLAN MATRIX**

Applies to new or existing assets	Hazards Mitigated	Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Timeline
Initiative NACFR-6—Location/Construction Study for New flood/earthquake Resistant Fire Station to Replace Station 16						
Initiate a study to identify the optimal location and construction plans to mitigate both flood and earthquake hazards in a new fire station to replace the Glenwood Fire Station 16. The current Glenwood Station 16 is constructed in the 500 year flood plain, on the boundary with the 100 year flood plain. It is located just upstream from the Glenwood Bridge, where it would be quickly inundated if the bridge were to obstruct water flow. In addition, the 60s-era Station is constructed of unreinforced masonry. This initiative would help the District identify a location and design a structure that would be optimally located for service delivery, and resistant to floods and earthquakes.						
New	Flood, Earthquake	1, 2, 3,10	NACFR	High	District, Bond, PDM	Short
Initiative NACFR-7—Construct new flood/earthquake Resistant Fire Station						
In conjunction with Initiative-6 above, this Initiative would construct a new, flood and earthquake resistant Fire Station 16. The current Glenwood Station 16 is constructed in the 500 year flood plain, on the boundary with the 100 year flood plain. It is located just upstream from the Glenwood Bridge, where it would be quickly inundated if the bridge were to obstruct water flow. In addition, the 60s-era Station is constructed of unreinforced masonry. This initiative would help the District build a replacement Fire Station that would be optimally located for service delivery, and resistant to floods and earthquakes.						
New	Flood, Earthquake	1, 2, 3,10	NACFR	High	District, Bond, PDM	Long Term
Initiative NACFR-8—Campaign to get neighborhoods to revise covenants and homeowners association (HOA) rules to mitigate natural hazards						
Assist HOAs in assessing and revising rules and covenants that are counterproductive to hazard mitigation. For example, many neighborhood covenants still require lawns in drought-susceptible areas, and shake roofs in urban interface locations. This initiative would develop a presentation, identify target HOAs, and schedule and deliver workshops to HOAs.						
New and Existing	Flood, Earthquake, Wildland Fire	2, 5, 6, 8, 9	NACFR	Low	District, SRS Title III, National Fire Plan	Short
Initiative NACFR-9—Support County-wide initiatives identified in Volume 1						
New and Existing	All Hazards	All	NACFR, ACCEM	Low	NACFR	Short term Ongoing
Initiative NACFR-10—Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Volume 1.						
New & Existing	All Hazards	All	ACCEM, NACFR	Low	NACFR, FEMA Mitigation Grant Funding for 5-year update	Short-Term, Ongoing

**TABLE 13-5.
MITIGATION STRATEGY PRIORITY SCHEDULE**

Initiative #	# of Objectives Met	Benefits	Costs	Do Benefits Equal or Exceed Costs?	Is Project Grant-Eligible?	Can Project Be Funded Under Existing Programs/Budgets?	Priority ^a
NACFR-1	2	Medium	Low	Yes	Yes	Yes	High
NACFR-2	5	Medium	Medium	Yes	Yes	Possibly	High
NACFR-3	3	Medium	Medium	Yes	Yes	No	Medium
NACFR-4	1	High	Low	Yes	Yes	Yes	Medium
NACFR-5	1	High	Low	Yes	Yes	No	Medium
NACFR-6	4	Medium	Medium	Yes	Yes	Possibly	High
NACFR-7	4	High	High	Yes	Yes	No	Medium
NACFR-8	5	High	Low	Yes	Yes	Possibly	Medium
NACFR-9	10	High	Low	Yes	No	Yes	High
NACFR-10	10	Low	Low	Yes	Yes	Yes	High

a. See Section 1.3 for definitions of high, medium and low priorities.

**TABLE 13-6.
ANALYSIS OF MITIGATION INITIATIVES**

Hazard Type	Initiative Addressing Hazard, by Mitigation Type					
	1. Prevention	2. Property Protection	3. Public Education and Awareness	4. Natural Resource Protection	5. Emergency Services	6. Structural Projects
Flood	10	6, 7	5, 8, 9	8	6, 7, 9	3, 6, 7
Severe Storm	10		5, 8, 9		9	
Wildland Fire	1, 2, 10	1, 4	1, 2, 4, 5, 8, 9	1, 2, 4	9	
Earthquake	10	3	8, 5, 9		9	3
Dam Failure	10	6	4, 5, 8, 9		9	
Volcano	10		5, 9		9	
Landslide	1, 2, 10	2	4, 5, 8, 9	1, 2	9	
Drought	10		1, 4, 5, 8, 9	2	9	

1. Prevention: Government, administrative or regulatory actions that influence the way land and buildings are developed to reduce hazard losses. Includes planning and zoning, floodplain laws, capital improvement programs, open space preservation, and stormwater management regulations.
2. Property Protection: Modification of buildings or structures to protect them from a hazard or removal of structures from a hazard area. Includes acquisition, elevation, relocation, structural retrofit, storm shutters, and shatter-resistant glass.
3. Public Education and Awareness: Actions to inform citizens and elected officials about hazards and ways to mitigate them. Includes outreach projects, real estate disclosure, hazard information centers, and school-age and adult education.
4. Natural Resource Protection: Actions that minimize hazard loss and preserve or restore the functions of natural systems. Includes sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.
5. Emergency Services: Actions that protect people and property during and immediately after a hazard event. Includes warning systems, emergency response services, and the protection of essential facilities.
6. Structural Projects: Actions that involve the construction of structures to reduce the impact of a hazard. Includes dams, setback levees, floodwalls, retaining walls, and safe rooms.

**TABLE 13-7.
PREVIOUS ACTION PLAN IMPLEMENTATION STATUS**

Action #	Action Status			Comments
	Completed	Carry Over to Plan Update	Removed; No Longer Feasible	
8.1.a		X		This is now addressed by Objective #8
8.1.b		X		This is now addressed by Objective #6.
8.1.c		X		This is now addressed by Objective #5.
8.1.d		X		This is now addressed by Objective #2
8.1.e		X		This is now addressed by Objective #6.
8.1.f		X		This is now addressed by Objective #5.
8.1.g		X		This is now addressed by action item AC 6
8.1.h			X	This action does not apply to the County.

**TABLE 13-7.
PREVIOUS ACTION PLAN IMPLEMENTATION STATUS**

Action #	Action Status			Comments
	Completed	Carry Over to Plan Update	Removed; No Longer Feasible	
8.1.i		X		This action will be carried over for review by planning and development services and its purpose and function is now addressed by Objectives 5 and 6
8.1.j			X	This action is now addressed by plan maintenance strategy found in Chapter 7.
8.1.k	X			ACCEM and Red Cross coordinate these functions.
8.2.a			X	Red Cross Shelter sites are not owned by the County.
8.2.c	X			All Ada County residents are encouraged to own NOAA radios as part of their personal all hazard preparedness. This information is included in all public presentations, the website and appears periodically in an electronic newsletter.
8.2.d		X		This is now addressed by Objective #2
8.2.e	X			The revised format of the plan update provides for measurable actions that can be recommended and implemented at an individual jurisdiction or district level.
8.2.f		X		This is now addressed by Objective #10
8.1.e		X		This is now addressed by Objective #6.
8.2.g		X		The process of risk evaluation is ongoing as is the creation of mitigation strategies based on the most recent data. This objective was written with multiple actions that may not all be implemented at once. Its concept and purpose are now covered by Objectives 2,3,4,5 and 6.
8.2.h			X	(Well Intakes) This infrastructure is not County property; it will be addressed in the appropriate jurisdictional annex.
8.2.i				This action is now covered by Objective 3
8.2.j			X	More modern early warning systems are being investigated that will capitalize on current available technologies.
8.3.a		X		This is now addressed by Objective #2
8.3.b		X		This is now addressed by Objective #2
8.3.c		X		This is now addressed by Objective #2

**TABLE 13-7.
PREVIOUS ACTION PLAN IMPLEMENTATION STATUS**

Action #	Action Status			Comments
	Completed	Carry Over to Plan Update	Removed; No Longer Feasible	
8.3.d		X		The statement contains more than one action. The multiple actions that are contained are now addressed by Objectives 2 and 10
8.3.e			X	This action will be addressed in the appropriate jurisdictional annex (ACHD)
8.3.f		X		This is now addressed by Objective #7
8.3.g			X	This action will be addressed in the appropriate jurisdictional annex (ACHD)
8.4.h			X	This action will be addressed in the appropriate jurisdictional annex (ACHD)
8.4.j			X	Action is currently not viable. Requires Irrigation District Planning Partners
8.4.k			X	This action will be addressed in the appropriate jurisdictional annex (ACHD)
8.4.a			X	Generators will be incorporated into larger projects that improve resiliency. These types of improvements are now addressed by Objectives 1 and 10
8.4.b			X	This action will be addressed in the appropriate jurisdictional annex (Kuna)
8.4.c	X			Completed—ACHD has placed Opticom on traffic signals for First Responders to control signals. Each City has an evacuation plan along with the contra-flow plan.
8.4.d		X		This is now addressed by Objective #10
8.4.e			X	This is a basic service provided by ACHD and does not need to be addressed in the Mitigation Plan
Fire Mitigation Activities				
5.1.a		X		Ongoing activity that is now addressed by Objective 6.
5.1.b		X		This is now addressed by Objective #6
5.1.c		X		This is now addressed by Objective #6
5.1.d	X			Ordinance # 760 bans fireworks in the threatened areas of the unincorporated County.
5.2.a			X	Wildfire Steering Committee is now comprised solely of jurisdictions with direct involvement in firefighting activities.

**TABLE 13-7.
PREVIOUS ACTION PLAN IMPLEMENTATION STATUS**

Action #	Action Status			Comments
	Completed	Carry Over to Plan Update	Removed; No Longer Feasible	
5.2.b		X		Ongoing activity that is now addressed by Objective 8.
5.2.c			X	This activity will be addressed in the annexes of appropriate fire jurisdictions.
5.2.d			X	This activity will be addressed in the annexes of appropriate fire jurisdictions.
5.2.e			X	This activity will be addressed in the annexes of appropriate fire jurisdictions.
5.2.f			X	This activity will be addressed in the annexes of appropriate fire jurisdictions.
5.2.g			X	This activity will be addressed in the annexes of appropriate fire jurisdictions.
5.2.h			X	This activity will be addressed in the City of Boise annex.
5.2.i		X		Evacuation plans are complete. Public outreach is ongoing and is now addressed by Objective 8.
5.2.j			X	This activity will be addressed in the annexes of appropriate fire jurisdictions.
5.2.k			X	This activity will be addressed in the annexes of appropriate fire jurisdictions.
5.3.a		X		This activity is now addressed by Objective 7.
5.3.b		X		This activity is now addressed by Objective 9.
5.3.c		X		This activity is now addressed by Objective 9.
5.3.d		X		This is an ongoing activity regulated by County Ordinance #769.
5.3.e		X		This is an ongoing activity that involves multiple jurisdictions and districts. Its purpose and intent are now addressed by Objectives 5 and 9.
5.3.f			X	This activity is a response action and will be addressed by the jurisdictions in Emergency Operations Plans.
5.3.g		X		This activity is now addressed by Objective 5.
5.3.h			X	This activity will be addressed in the ACHD annex.
5.4.a		X		This activity is now addressed by Objective 5.
5.4.b		X		This activity is now addressed by Objectives 8 and 9.

**TABLE 13-7.
PREVIOUS ACTION PLAN IMPLEMENTATION STATUS**

Action #	Action Status			Comments
	Completed	Carry Over to Plan Update	Removed; No Longer Feasible	
5.4.c		X		This activity is now addressed by Objectives 8 and 9.
5.4.d			X	This activity will be addressed in the annex of appropriate fire jurisdiction.
5.4.e			X	This activity will be addressed in the annex of appropriate fire jurisdiction.
5.4.f			X	This activity will be addressed in the annex of appropriate fire jurisdiction.
5.4.g			X	This activity will be addressed in the annex of appropriate fire jurisdiction.
5.4.h			X	This activity will be addressed in the annex of appropriate fire jurisdiction.
5.4.i			X	This activity will be addressed in the annex of appropriate jurisdiction.
5.4.j			X	This activity will be addressed in the annex of appropriate jurisdiction.
5.4.k			X	This activity is being removed from the Mitigation Plan as it is a direct function of the Interoperable Communications Initiatives being funded through IBHS.
5.4.l			X	This activity is being removed from the Mitigation Plan as it is a direct function of the Interoperable Communications Initiatives being funded through IBHS.
5.4.m			X	This activity will be addressed by the policies of the fire jurisdictions that have volunteer staff.
5.4.n		X		ACCCEM coordinates with all local response agencies to create multi-year training plans. Training funds are available through ACCCEM or directly through IBHS depending on the scope.
5.5.a		X		This activity is now addressed by Objective 5.
5.5.b		X		This activity is now addressed by Objectives 5 and 9.
5.5.c		X		This activity is now addressed by Objective 8.
5.5.d		X		This activity is now addressed by Objective 5.
5.5.e		X		This activity is now addressed by Objective 9.
5.5.f			X	This is a program that will be implemented by the Bureau of Land Management on an as needed basis.

**TABLE 13-7.
PREVIOUS ACTION PLAN IMPLEMENTATION STATUS**

Action #	Action Status			Comments
	Completed	Carry Over to Plan Update	Removed; No Longer Feasible	
5.5.g			X	This is a program that will be implemented by the Bureau of Land Management on an as needed basis.
5.5.h		X		This activity is now addressed by Objective 9.
5.2.j			X	This activity will be addressed in the annexes of appropriate fire jurisdictions.
5.2.k			X	This activity will be addressed in the annexes of appropriate fire jurisdictions.
5.3.a		X		This activity is now addressed by Objective 7.
5.3.b		X		This activity is now addressed by Objective 9.
5.3.c		X		This activity is now addressed by Objective 9.
5.3.d		X		This is an ongoing activity regulated by County Ordinance #769.

