

**CITY OF HELENA
INDIVIDUAL MITIGATION
ACTION PLAN**



**SHELBY COUNTY
ALABAMA
MULTI-JURISDICTIONAL
ALL HAZARDS
MITIGATION PLAN
2009 UPDATE**

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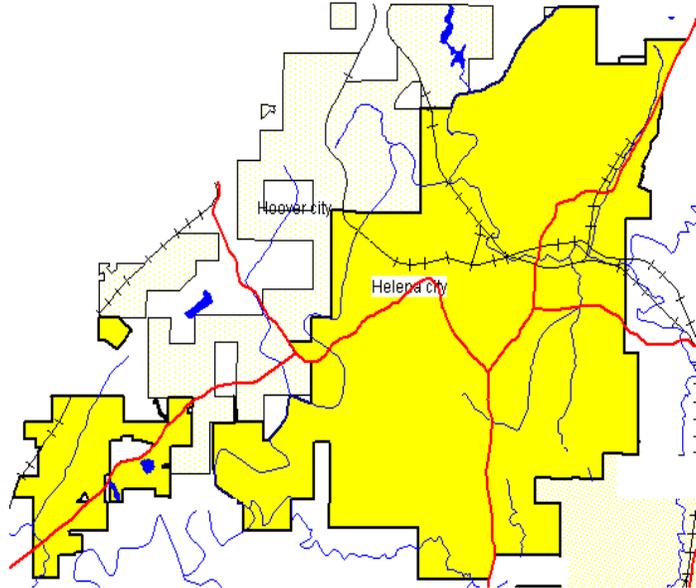
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CITY OF HELENA MITIGATION ACTION PLAN

Geography/History

Helena is located in northwest Shelby County approximately 20 miles south of Birmingham. The town of Helena began as a crossroads stage stop with the first white settlers coming around 1835 headed by Colonel Griffin. Among the early settlers were the Acton's, Davidson's, Lees and Roy's. Records show that two old gristmills were located along Buck Creek.

Post office records from 1849 refer to the town of Cove, thought to be little more than a crossroads stage stop. The name changed to Hillsboro in 1856. One of the earliest churches established in Helena was the Presbyterian, known as Old Harmony. This was around the year of 1850. With the discovery of coal, the coming railroads, and the steel mills, the community centered around the rolling mill, which was built around 1862. The rolling mill was built to manufacture material for the confederate war effort. Classified as "top secret", it continued to operate throughout the civil war. Near the end of the war in 1865, federal troops known as "Wilson's Raiders" razed the plant, burning it to the ground.



Pete Boyle headed the construction of the S. N. and A. Railroad and it was through his influence that the Railroad Station was named Helena in 1872. During the reconstruction period following the war, railroads began contributing to the growth in the area. One of the railroads completed a new train station named "Helena Station". The area around the station began to develop and grow, eventually absorbing Hillsboro and officially incorporating as the city of Helena. It was during this period when the steel mill was reopened

The town was first incorporated about 1877. In 1878, J.W. Davidson, who then owned nearly all the land comprising the site of Helena, donated a school lot.

Helena played a vital role in the Birmingham steel industry and growth. Helena had several prosperous coalmines, a variety of retail stores, a couple of hotels and boarding houses as well as a school. Also operating was a large railroad yard, a gristmill powered by Buck Creek and a cotton gin next to the train station. In 1916, it was learned certain errors made in filing papers for incorporation caused it to be invalid. As a result, the city was reincorporated in 1917.

Hard times hit the city around 1920. The coalmines were almost depleted and closed their operations. The town declined rapidly. Without local employment, many townspeople had little choice but to move elsewhere for work. Helena went to sleep for a period of time after the depression and devastating tornadoes of 1933.



Special Characteristics

Helena is highly regarded as a place to live and raise children. It has the eighth lowest crime rate per population in the U.S., and the city was ranked in Money Magazine's 2007 list of "Best Places to Live: Top 100" in the U.S., placing at number 91.

Helena's Outdoor Amphitheater located in Old Town Helena, is an outdoor concert hall, festival grounds, movie theater, wedding destination and special event location all wrapped up in one.

Major annual community events largely reflect traditional small town American life and include the Easter Egg Hunt, Buck Creek Festival, 4th of July Picnic, concert and fireworks, Fall Carnival, Spring Fling, and the Christmas Parade.

Major points of interest include the Cahaba River, Old Town Amphitheater, and the Old Town district, which includes the 1800s jail and railroad freight depot as well as commercial structures from the 1800s. Numerous parks are provided within Helena by the city and Shelby County. These parks feature open green spaces, playground equipment, a fishing pond, and a baseball field complex often used for tournaments as well as recreational leagues. The Old Town Helena Amphitheater along the banks of Buck Creek features a stage and grass seating area where numerous productions are staged, including the popular Summer Sundown Cinemas (free movie) and 4th of July celebration.

Water characteristics include the Cahaba River and its tributary Buck Creek, Prairie Brook, Beaverdam Creek and Lee Brook. Buck Creek is dammed upstream of Alabama Highway 261 in the Old Town area to form Lake Davidson. Fishing, wading, and canoeing are popular uses of both waterways

Population and Demographics

As of the census of 2000, there were 10,296 people, 3,828 households, and 3,043 families residing in the city. The population density was 603.0 people per square mile (232.9/km²). There were 3,983 housing units at an average density of 233.3/sq mi (90.1/km²). The racial makeup of the city was 93.25% White, 5.00% Black or African American, 0.20% Native American, 0.65% Asian, 0.02% Pacific Islander, 0.35% from other races, and 0.52% from two or more races. 1.00% of the population was Hispanic or Latino of any race.

There were 3,828 households out of which 43.4% had children under the age of 18 living with them, 70.2% were married couples living together, 7.4% had a female householder with no husband present, and 20.5% were non-families. 17.7% of all households were made up of individuals and 3.0% had someone living alone who was 65 years of age or older. The average household size was 2.69 and the average family size was 3.06.

In the city the population was spread out with 28.7% under the age of 18, 6.0% from 18 to 24, 42.7% from 25 to 44, 17.5% from 45 to 64, and 5.1% who were 65 years of age or older. The median age was 31 years. For every 100 females there were 90.9 males. For every 100 females age 18 and over, there were 88.6 males.



Economy

The median income for a household in the city was \$62,908, and the median income for a family was \$66,250. Males had a median income of \$45,291 versus \$32,431 for females. The per capita income for the city was \$26,323. About 1.4% of families and 2.2% of the population were below the poverty line, including 4.2% of those under age 18 and none of those age 65 or over.

The most common occupations for males includes: Computer specialists (8%), Sales representatives, services, wholesale and manufacturing (8%), Other sales and related workers including supervisors (6%), Other management occupations except farmers and farm managers (6%), Top executives (5%), Electrical equipment mechanics and other installation, maintenance, and repair occupations including supervisors (4%) and Retail sales workers except cashiers (4%).

The most common occupations for females includes: Registered nurses (8%), Preschool, kindergarten, elementary and middle school teachers (7%), Secretaries and administrative assistants (7%), Other management occupations except farmers and farm managers (5%), Business operations specialists (5%), Health technologists and technicians (5%) and Other office and administrative support workers including supervisors (5%),

Single-family new house construction building permits in Helena include:

- 2000: 187 buildings, average cost: \$111,400
- 2001: 204 buildings, average cost: \$133,000
- 2002: 202 buildings, average cost: \$141,000
- 2003: 157 buildings, average cost: \$161,600
- 2004: 353 buildings, average cost: \$151,900
- 2005: 242 buildings, average cost: \$172,700
- 2006: 177 buildings, average cost: \$193,000
- 2007: 169 buildings, average cost: \$211,900

The local economy is broadly diversified among professional, service, and manufacturing jobs. Many of the residents of Helena commute to work in other communities within the greater Birmingham area. Well known local industries include the Vulcan Materials Company construction aggregate quarry and the Plantation Pipeline depot and tank farm. A developed industrial park includes a wide variety of manufacturers

Infrastructure

A Mayor-Council form of government governs the City of Helena. The five member City Council and Mayor are each elected to four-year terms on an at-large basis.

The Helena Fire Department has three fire stations and also includes volunteer firefighters in addition to the paid staff. The Helena Fire Department is a combination of paid and volunteer status with 12 paid and 12 volunteers.

The Helena Police Department is a community-oriented organization, which strives to promote good working relationships with the citizens and businesses located in our city. The Helena Police Department has 26 (21 officers) full time employees and a K-9 unit.



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The Water Department manages residential and commercial accounts. The Water Works section handles the maintenance and repair of water lines. The Wastewater Treatment Plant & Collection System collects and treats city sewage.

The Shelby County School System provides kindergarten through 12th Grade public education. Helena Elementary School and Helena Middle School lie within the city limits, high school students attend Pelham High School in the neighboring city of Pelham, Alabama.

School	Type	Enrollment
Helena Elementary	K - 2	774
Helena Intermediate	3 - 5	692

Helena is conveniently located to two major interstates. I-459 is located 9 miles to the north which joins major east-west interstates I-20 and I-59; north-south oriented I-65 is 3 miles to the east of Old Town Helena. CSX Transportation provides rail service on two separate lines, the S&NA South subdivision between Birmingham and Montgomery, and the Lineville subdivision between Birmingham and Atlanta, Georgia. General aviation and private jet service is available at the nearby Bessemer Airport (EKY) about 8 miles north of Old Town. Extensive commercial flights are available at the Birmingham-Shuttlesworth International Airport (BHM) approximately 25 miles to the northeast. Intercity rail service is available on the Amtrak Crescent 19 miles to the north

Capabilities

The Legal and Regulatory Capability survey documents authorities available to the jurisdiction and/or enabling legislation at the state level affecting planning and land management tools that support local hazard mitigation planning efforts. The identified planning and land management tools are typically used by states and local and tribal jurisdictions to implement hazard mitigation activities. If the jurisdiction does not have this capability or authority, does another entity/jurisdiction have this authority at a higher level of government (county, parish, or regional political entity), or does the state prohibit the local jurisdictions from having this authority?

City of Helena Legal And Regulatory Capability						
Regulatory Tools/Plans	Regulatory Type: Ordinance Resolution Codes Plans Etc.	Year Adopted or Updated	Local Authority	State Prohibited	Higher Authority	Electronic copy Available
Building Codes	International Bldg Codes	1002	Y	N	Y	Y
Capital Improvements Plan	Annual Budget	2009		N	N	N
Comprehensive Plan	Resolution	2005		N	N	Y
Continuity of Operations Plan				N	N	N
Community Rating System		2005		N	Y	N
Economic Development Plan	Comprehensive Plan Resolution			N	N	Y
EMAP Certified				N	Y	N
Emergency Response Plan	County Emergency Operations Plan	2004	N	N	Y	Y
Flood Management, Plan	Resolution	2004		N	Y	Y
Growth Control Ordinance				N	N	N
Hazard Setback Regulations				N	N	N



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Hillside Ordinance				N	N	N
Historic Ordinance				N	N	N
NFIP Participant	Resolution	2004		N	Y	Y
Post-disaster Ordinance				N	N	N
Post-disaster Recovery Plan	County Emergency Operations Plan	2004	N	N	Y	Y
Real Estate Disclosure	AL Real Estate Commission	1960	N	N	Y	N
Site Plan Requirements	Zoning Ordinance	1999		N	N	Y
Subdivision Regulations	Zoning Ordinance	1999		N	N	Y
Wildfire Ordinance				N	N	N
Zoning Ordinances	Ordinance	1999		N	N	N

The Administrative and Technical Capacity survey documents personnel employed by your jurisdiction and the public and private sector resources that may be accessed to mitigate hazards in the community. For smaller jurisdictions with limited capacities, no local staff resources may be available for many of the categories. If so identify public resources at the next higher level of government that may be able to provide technical assistance to the community.

For some hazard mitigation actions, consider federal agencies that provide technical assistance, such as the U.S. Department of Agriculture (USDA) Cooperative Extension Service, which has offices in most counties. The planning team in rural communities must be creative in identifying outside resources to augment limited local capabilities. This information will be used when evaluating alternative mitigation actions and when preparing your mitigation.

City of Helena Administrative And Technical Capabilities					
C=County Provides, S=State Provides, F=Federal Provides					
Position	Staff/Personnel Resources	Department/Agency	Number Fully Trained	Number Fully Equipped	Total Personnel
Agriculture Resource	Agent	County Extension Svc.	S1	S1	S1
Building Inspector	Professional	Zoning and Inspections	C1	C1	C1
Emergency Manager	Certified Professional	Emergency Management	C1	C1	C1
Emergency Staff	Professional(s)	Emergency Management	C5	C5	C5
EMT First Responder	Professional(s)	Fire/Rescue	10	10	10
Fire Personnel	Professional(s)	Fire Dept.	14	14	14
Floodplain Manager	Engineer(s)	Engineering/Public Works	C1	C1	C1
GIS Specialist	Professional(s)	Property Assessor/IT	0	0	0
Government Elected	Elected Officials	Mayor/Commission	6	6	6
Government Administration	Employees	Jurisdiction	18	18	18
Grant writer	Professional(s)	Emergency Management	0	0	0
Hazards Analysis Mgr.	Professional(s)	Emergency Management	C1	C1	C1
Hazmat Team	Professional(s)	Fire/Sheriff Dept	C6	C6	C6
Information Systems	Certified Professional	IT department	2	2	2
Land Use/Management	Engineer(s)/Planners	State/Local Planning	C1	C1	C1
Law Enforcement	Sheriff, Police, Trooper	Sheriff/Police Department	21	21	26
Medical Practioners	Professional(s)	Medical Facilities	12	12	12



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Public Works	Directors/Engineers	Public Works	2	2	2
Public Communication	911 specialists	E-911	C11	C11	C11
Public Utilities	Professionals	Public Utilities	21	21	21
Surveyor	Professional	Contracted	1	1	1

The Fiscal Capability survey identifies whether the jurisdiction has access to or is eligible to use certain financial resources for hazard mitigation.

City of Helena Fiscal Capabilities					
Financial Resources	Description	Eligible			Used
		Yes	No	TBD	
Community Grants	Community Development Block Grants (CDBG)	X			X
	Hazard Mitigation Planning Grants (HMPG)	X			X
	PDM for disaster resistant universities		X		
	PDM Grants for communities	X			X
	Department of Health Grants		X		
	Department of Justice Grants	X			X
	Department of Agriculture Grants		X		
	Department of Energy Grants		X		
	Department of Education Grants		X		
	Fire department grants	X			X
	Flood Management Grants (FMA)	X			X
	Homeland Security Grant Program (HSGP)	X			X
	Repetitive Flood Claims Grants (RFC)	X			
	Severe Repetitive Loss Grants (SRL)	X			
	Private foundation grants	X			X
	Private business/industry grants	X			X
Debt Procurement	Incur debt through special tax/revenue bonds	X			
Dept Procurement	Incur debt through private activity bonds		X		
Impact Fees	Developer fees for new developments	X			X
Jurisdiction Bonds	Incur debt through general obligation bonds	X			X
Project Funding	Capital improvement	X			X
Spending Restrictions	Withhold spending in hazard-prone areas			X	
Special Taxes	Authority to levy taxes for specific purposes	X			X
Utility Fees	Fees for water, sewer, gas, or electric service	X			X

Mitigation Goals and Objectives

The Mitigation Committee believes that each of the following goals, objectives, and action items is necessary to begin to address hazard issues in City of Helena. The following goal statements represent a broad target for City of Helena and its municipalities to achieve through the implementation of their own specific Mitigation Action Plans before the next Plan update.

GOALS	OBJECTIVES
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<p>All Hazards Goal: Mitigate the impact of all hazards on the City of Helena</p>	<p>Objective AH.1: Improve the City of Helena’s information distribution and warning capabilities for all hazards to citizens Objective AH.2: Improve the City of Helena’s 1st responder capabilities to prepare for and respond to all hazards Objective AH.3: Improve the City of Helena’s capability to prepare for, respond to and recover from all hazards</p>
<p>Flooding Hazard Goal: Mitigate the impact of flooding on the City of Helena</p>	<p>Objective FL.1: Improve the City of Helena’s flood warning and information distribution to citizens Objective FL.2: Improve the City of Helena’s 1st responder capabilities to prepare for and respond to flood events. Objective FL.3: Improve the City of Helena’s capability to prepare for, respond to and recover from flood events</p>
<p>High Wind Hazard Goal: Mitigate the impact of High Winds on the City of Helena</p>	<p>Objective HW.1: Improve the City of Helena’s High Winds warning and information distribution to citizens Objective HW.2: Improve the City of Helena’s 1st responder capabilities to prepare for and respond to High Winds events. Objective HW.3: Improve the City of Helena’s capability to prepare for, respond to and recover from High Winds events</p>
<p>Ice/Snow Hazard Goal: Mitigate the impact of Ice/Snow on the City of Helena</p>	<p>Objective IS.1: Improve the City of Helena’s Ice/Snow warning and information distribution to citizens Objective IS.2: Improve the City of Helena’s 1st responder capabilities to prepare for and respond to Ice/Snow events. Objective IS.3: Improve the City of Helena’s capability to prepare for, respond to and recover from Ice/Snow events</p>
<p>Pandemic Hazard Goal: Mitigate the impact of a Pandemic on the City of</p>	<p>Objective PD.1: Improve the City of Helena’s Pandemic/Vector warning and information distribution to citizens Objective PD.2: Improve the City of Helena’s 1st responder capabilities to prepare for and respond to Pandemic/Vector events. Objective PD.3: Improve the City of Helena’s capability to prepare for, respond to and recover from Pandemic/Vector events</p>
<p>Wildfire Hazard Goal: Mitigate the impact of Wildfires on the City of Helena</p>	<p>Objective WF7.1: Improve the City of Helena’s Wild-land Fire warning and information distribution to citizens Objective WF.2: Improve the City of Helena’s 1st responder capabilities to prepare for and respond to Wild-land Fire events Objective WF.3: Improve the City of Helena’s capability to prepare for, respond to and recover from Wild-land Fire events</p>
<p>HAZMAT Hazard Goal: Mitigate the impact of HAZMAT events on the City of Helena</p>	<p>Objective HM.1: Improve the City of Helena’s Hazardous Materials spill or release warning and information distribution to citizens Objective HM.2: Improve the City of Helena’s 1st responder capabilities to prepare for and respond to Hazardous Materials spill/release events Objective HM.3: Improve the City of Helena’s capability to prepare for, respond to and recover from Hazardous Materials spill/release events</p>
<p>Illegal Drug Lab Hazard Goal: Mitigate the impact of Illegal Drug Laboratories the City of Helena</p>	<p>Objective ID.1: Improve the City of Helena’s Illegal Drug Laboratories warning and information distribution to citizens Objective ID.2: Improve the City of Helena’s 1st responder capabilities to prepare for and respond to Illegal Drug Laboratories Objective ID.3: Improve the City of Helena’s capability to prepare for, respond to and recover from Illegal Drug Laboratories existence</p>



Terror Hazard Goal: Mitigate the impact of terrorist events on the City of Helena	Objective TR.1: Improve the City of Helena’s Domestic/International Terrorism warning and information distribution to citizens Objective TR.2: Improve the City of Helena’s 1 st responder capabilities to prepare for and respond to Domestic/International Terrorism events Objective TR.3: Improve the City of Helena’s capability to prepare for, respond to and recover from Domestic/International Terrorism events
Urban Fire Hazard Goal: Mitigate the impact of Urban Fires on the City of Helena	Objective UF.1: Improve the City of Helena’s Urban Fire warning and information distribution to citizens Objective UF.2: Improve the City of Helena’s 1 st responder capabilities to prepare for and respond to Urban Fire events Objective UF.3: Improve the City of Helena’s capability to prepare for, respond to and recover from Urban Fire events

Multi-Jurisdictional Mitigation Actions

The actions listed in each jurisdiction’s Mitigation Action Plan serve as an easily understood menu of mitigation policies and projects for local decision-makers who want to quickly review their jurisdiction’s respective element of the countywide Plan. In preparing the individual MAP’s, each jurisdiction considered their overall hazard risk and capability to mitigate identified hazards as recorded through the risk and capability assessment process and to meet the countywide mitigation goals and the unique needs of their community.

Each jurisdiction participating in this Plan is responsible for implementing specific mitigation actions as prescribed in the adopted Mitigation Actions. In each Mitigation Action Plan, every proposed action is assigned to a specific local department or agency in order to assign responsibility and accountability and increase the likelihood of subsequent implementation. This approach enables individual jurisdictions to update their unique mitigation strategy as needed without altering the broader focus of the countywide Plan. The separate adoption of locally specific actions also ensures that each jurisdiction is not held responsible for monitoring and implementing the actions of other jurisdictions involved in the planning process.

Mitigation Actions Prioritizing

Prioritizing mitigation actions for each jurisdiction was based on the “STAPLEE” process. “STAPLEE” uses multiple factors under the categories of Social, Technical, Administration, Legal, Economic and Environment. The original STAPLEE factors have been modified to enhance the prioritization process. The enhancements include adding life, property and economic items to the Social category and implementing weighting factors to Social and Economic categories. A weighting factor of 3 is used for loss of life and a weighting factor of 1 through nine is used for Economic impact of the hazard occurrence. A weighting factor of 2 is used for cost/benefit items. The table used for prioritization is at the end of this section

Prioritizing mitigation actions for each jurisdiction was based on the “STAPLEE” process. “STAPLEE” uses multiple factors under the categories of Social, Technical, Administration, Legal, Economic and Environment			
Issue	1	2	3
<u>Social</u> High Community Acceptance	Potential objection from public and/or very expensive	Unknown if objectionable, or costs may be significant	Not objectionable and low/no costs



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High Effect on saving lives	Life saving impact is low	Life saving impact is moderate	Life saving impact is significant
High Effect on reducing property loss	Effect on reducing property loss is low	Effect on reducing property loss is moderate	Effect on reducing property loss is significant
Effect on reducing economic loss	Effect on reducing economic loss is low (factor 1-3)	Effect on reducing economic loss is moderate (factor 4-6)	Effect on reducing economic loss is significant (factor 7-9)
<u>Technical</u> Is Technical Feasibility	Technology not currently existing	Emerging or untested technology or unknown	Technology readily available
Is a Long-Term Solution	No, is not effective in helping reduce losses in the long term	Potentially or unknown	Yes, is effective in helping reduce losses in the long term
No Secondary Impacts	Yes, likely to create secondary problems	Potentially or unknown	No, unlikely to create secondary problems
<u>Administrative</u> Little Staffing is required	Need to hire a permanent employee(s)	Potentially need to hire a temporary employee(s) or unknown.	Do not have to hire
Funding Potential is high	No obvious source of funding available and action has significant cost impact	Limited or unknown funding available	Little or no funding required or funding can be readily obtained
Low Maintenance and Operations	The action is likely to require high level of ongoing maintenance	Unknown or action has the potential for moderate ongoing maintenance	Action requires limited or no ongoing maintenance
<u>Political</u> High Political Support	Local Elected Official likely to be contentious	Local Elected Official may be controversial	Local Elected Official likely to be supportive
Local Champion available	Unlikely there is a Local Elected Official to support	Uncertain if there is a Local Elected Official to champion	A Local Elected Official is likely to support and champion
High Public Support	Public Political support is unlikely	Public Political support is uncertain	Public Political support is likely
<u>Legal</u> State Authority Exists	No legal state authority exists	Legal state authority is unclear, uncertain or adoption is in progress	Legal state authority exists
Local Authority Exists	No legal authority exists	Legal authority is unclear, uncertain or adoption is in progress	Legal authority exists
Potential Legal Challenge is high	High likelihood of legal challenge by stakeholders	Moderate likelihood of legal challenge by stakeholders	Low likelihood of legal challenge by stakeholders
<u>Economic</u> High Action Benefit	Low benefit to the jurisdiction from the action	Moderate benefit to the jurisdiction from the action	High benefit to the jurisdiction from the action
Low Action Cost	High cost to implement action	Moderate cost to implement action	Low cost to implement action
High Economic Contribution	Low contribution to other community economic goals	Moderate contribution to other community economic goals	High contribution to other community economic goals
Outside Funding is Required	Likely for action to be delayed pending outside sources of funding	Possible for action to be delayed pending outside sources of funding	Unlikely for action to be delayed pending outside sources of funding
<u>Environmental</u> Low Land/Water Effect	High likelihood of negative consequences to land/water	Moderate likelihood of negative consequences to land/water	Low likelihood of negative consequences to land/water



Low Endangered Species Effect	High likelihood of potential negative consequences to endangered species	Moderate likelihood of negative consequences to endangered species	Low likelihood of negative consequences to endangered species
Low Hazmat Waste Site affect	High likelihood of potential affect on hazardous materials and waste sites	Moderate likelihood of affect on hazardous materials and waste sites	Low likelihood of affect on hazardous materials and waste sites
Low Environmental Effect	No, project is not consistent with jurisdiction environmental goals	Possible, project is consistent with jurisdiction environmental goals	Yes, project is consistent with jurisdiction environmental goals
Federal Law Compliant	No	Uncertain	Yes

Mitigation Actions

Each jurisdiction participating in this Plan is responsible for implementing specific mitigation actions as prescribed in the adopted Mitigation Action Plan. In each Mitigation Action Plan, every proposed action is assigned to a specific local department or agency in order to assign responsibility and accountability and increase the likelihood of subsequent implementation. This approach enables individual jurisdictions to update their unique mitigation strategy as needed without altering the broader focus of the countywide Plan. The separate adoption of locally specific actions also ensures that each jurisdiction is not held responsible for monitoring and implementing the actions of other jurisdictions involved in the planning process.

Hazard Goal & Action	Action/Project Description	Responsibility	Funding Source	Estimated Cost/ Benefit	Start/ End Date	Priority
HW1b	Educate school/special needs/local populations on high wind preparedness/response	FD NWS EMA	Local Funds	3,000 75,000	On Going	86
HW1c	Distribute High Wind preparedness information to special needs/school/local populations	NWS FD EMA	Local Funds	3,000 75,000	On Going	86
AH1e	Distribute safe room/shelter in place information to schools/special needs/local populations	FD PD BOE\ City Govt	Grant Local Funds	150,000 500,000	On Going	84
FL3e	Inspect and maintain natural drainage channels to clear beaver dams and debris	City Govt FD	Grant Local Funds	25,000 200,000	2010 2011	84
UF1a	Educate school/special needs/local populations on fire safety and response	FD BOE	Grant Local Funds	5,000 75,000	On Going	84
UF1b	Educate school, special needs and the community population on fire extinguisher use	FD	Local Funds	3,000 175,000	On Going	84
UF1c	Assist fire departments in obtaining fire prevention program materials	EMA FD	Local Funds	3,000 175,000	On Going	84
AH3x	Develop a community shelter program for mobile home parks	City Govt	Grant Local Funds	100,000 500,000	2011 2012	83
FL1a	Distribute flood awareness and preparedness literature at events	FD	Local Funds	2,000 50,000	On Going	83
FL2a	Obtain PPE for all personnel responding to flood events	FD	Grant Local Funds	50,000 200,000	2010 2011	83
FL3k	Obtain/install/maintain/monitor rainfall and stream gauges to predict local flooding	City Govt	Grant Local Funds	10,000 100,000	2010 2011	83

Hazard Goal & Action	Action/Project Description	Responsibility	Funding Source	Estimated Cost/ Benefit	Start/ End Date	Priority
PD1e	Assist schools in developing an infectious disease surveillance program	ADPH BOE	Local Funds	3,000 75,000	On Going	83
UF3d	Develop fire plans for all major businesses and critical facilities	FD	Local Funds	3,000 175,000	On Going	83
TR1b	Educate school/special needs/government officials on procedures to handle suspicious mail	BOE PD	Local Funds	3,000 75,000	On Going	82
AH3r	Participate in NFIP's Cooperating Technical Partners Program (CTP)	City Govt	Local Funds	3,000 75,000	On Going	81
PD3i	Maintain contact with state and federal agencies regarding biological and disease threats.	ADPH SCSO	Local Funds	3,000 75,000	On Going	81
UF3g	Enforce legislation that fire extinguishers are clearly marked, available and regularly tested	City Govt FD	Local Funds	3,000 75,000	On Going	81
AH3l	Assist schools in implementing an emergency phone line	City Govt BOE	Local Funds	3,000 75,000	On Going	80
FL3a	Participate in the National Flood Insurance Program (NFIP)	City Govt	Local Funds	3,000 75,000	On Going	80
FL3h	Request a study of the feasibility of flood control measures along the Cahaba Rivers.	City Govt	Grant Local Funds	25,000 200,000	2011 2012	80
HM1b	Educate the public on common hazardous materials in home	FD	Local Funds	3,000 75,000	On Going	80
HM1d	Educate schools, special needs and local population on hazmat evacuation	FD BOE	Local Funds	3,000 75,000	On Going	80
HW3a	Adopt/enforce comprehensive Building Code legislation	City Govt	Local Funds	3,000 75,000	On Going	80
IL1a	Educate school and local populations on Meth Lab awareness	BOE PD SCSO	Local Funds	3,000 75,000	On Going	80
PD2e	Exercise response to a pandemic event in conjunction with the medical community	EMA FD PD City Govt	Grant Local Funds	25,000 100,000	2010 2011	80
PD3a	Participate in the national Pandemic surveillance program	City Govt	Local Funds	3,000 75,000	On Going	80
UF2c	Obtain/maintain fire fighting supplies at all fire departments	FD	Grant Local Funds	50,000 150,000	2009 2010	80
AH3a	Adopt the National Incident Management System (NIMS)	City Govt	Local Funds	3,000 75,000	2009 2010	79
AH3j	Maintain a supplier list of food, medicines, water and fuel vendors	City Govt	Local Funds	3,000 75,000	On Going	79
AH3u	Ensure all mutual aid shelter, response, mass casualty and recovery agreements are current	City Govt ADPH ADHR EMA	Local Funds	3,000 75,000	On Going	79
AH3y	Insure building code compliance Inspections are conducted on construction projects	City Govt	Local Funds	60,000 1,000,000	On Going	79
FL3h	Educate developers on Watershed, Floodplain and wetland development restrictions	City Govt	Local Funds	3,000 75,000	On Going	79
HM1c	Educate schools special needs, and community populations on chemical hazards in the area.	FD BOE	Local Funds	3,000 75,000	On Going	79
IL3a	Join/participate in local state and federal drug task forces	SCSO PD	Grant Local Funds	100,000 200,000	2009 2010	79



**City of Helena
All Hazards Mitigation Action Plan**

Hazard Goal & Action	Action/Project Description	Responsibility	Funding Source	Estimated Cost/ Benefit	Start/ End Date	Priority
TR1a	Educate schools/special needs/local population on recognizing potential terrorist events	BOE PD	Local Funds	3,000 75,000	On Going	79
TR1c	Distribute terrorism awareness information to schools/special needs/local populations	PD	Local Funds	3,000 75,000	On Going	79
TR1d	Educate school, special needs, officials and the local population on terrorism preparedness info.	BOE PD	Local Funds	3,000 75,000	On Going	79
TR1e	Post terrorism and bomb identification information in buildings and schools	BOE PD	Local Funds	3,000 75,000	On Going	79
TR1f	Identify/distribute to appropriate officials potential terrorism targets information	PD	Local Funds	3,000 75,000	On Going	79
TR2a	Train terror response agencies on terrorist potential and city potential terrorism targets.	PD SCSO	Grant Local Funds	25,000 100,000	2009 2010	79
AH1b	Schedule regular maintenance and testing of hazard warning units (Monthly Testing)	Fire Dept 911	Local Funds	3,000 100,000	On Going	78
AH3t	Annually review and update hazard related legislation	City Govt	Local Funds	3,000 75,000	On Going	78
PD1b	Educate schools, special needs and local population on preparing for a pandemic	BOE ADPH City Govt	Local Funds	3,000 75,000	On Going	78
TR3e	Support State Homeland Security strategies to counter terrorism	City Govt	Local Funds	3,000 75,000	On Going	78
TR3e1	Join and/or continue to participate in the Joint Terrorism Task Force.	PD	Local Funds	3,000 75,000	On Going	78
TR3k	Assist schools in developing terrorism preparedness and response plans	PD BOE	Local Funds	3,000 75,000	On Going	78
TR3m	Encourage special needs facilities to implement a security system	PD	Local Funds	3,000 75,000	On Going	78
TR3o	Develop evacuation plans for identified terrorism targets	PD FD	Local Funds	3,000 75,000	On Going	78
UF3c	Encourage fire inspections to be regularly conducted at businesses and industry	FD	Local Funds	3,000 375,000	On Going	78
HM1g	Establish school hazard materials environmental impact programs	FD BOE	Local Funds	3,000 75,000	On Going	77
HM2c	Develop/maintain hazmat SOG's/FOG's for 1 st responders	FD EMA	Local Funds	10,000 100,000	2009 2010	77
IL3b	Maintain/publicize a hotline to report suspected meth labs	SCSO PD	Local Funds	5,000 50,000	2009 2010	77
PD1c	Develop/distribute Pandemic preparedness information to limited English speaking residents	ADPH City Govt	Local Funds	5,000 80,000	On Going	77
UF3b	Ensure that fire codes are rigidly enforced with citations issued for violations.	FD PD	Local Funds	3,000 375,000	On Going	77
WF1b	Educate business/school/local populations on the causes of wild land fires	AFC FD	Local Funds	3,000 75,000	On Going	77
WF1f	Publish outdoor burn ban info in area newspapers during Wild-land fire seasons.	City Govt	Local Funds	3,000 75,000	On Going	77
AH2c	Train 1 st responders in search and rescue techniques	PD FD	Grant Local Funds	25,000 100,000	2009 2010	76



City of Helena
All Hazards Mitigation Action Plan

Hazard Goal & Action	Action/Project Description	Responsibility	Funding Source	Estimated Cost/ Benefit	Start/ End Date	Priority
AH3o	Assist businesses, schools, special needs and government facilities to post evacuation routes	City Govt PD	Local Funds	3,000 75,000	On Going	76
AH3p	Develop/implement/maintain the city's Mitigation Action Plan	City Govt FD PD	Grant Local Funds	20,000 100,000	2009 2010	76
AH3s2	Develop strategies to prevent loss of public records	City Govt	Local Funds	3,000 75,000	On Going	76
FL3d	Participate in the NFIP Community Rating System	City Govt	Local Funds	3,000 175,000	2010 2011	76
HM3b	Maintain and annually update an inventory of hazmat sites.	FD EMA LEPC	Local Funds	3,000 75,000	On Going	76
HM3i	Enforce S.A.R.A. Title III and Tier II company reporting of hazardous chemicals.	FD EMA LEPC	Local Funds	3,000 75,000	On Going	76
HW3g	Adopt/enforce tie down and skirting legislation for mobile homes and mobile home parks	City Govt	Local Funds	3,000 75,000	On Going	76
PD1a	Educate the public on preparedness and self care for a Pandemic event	ADPH City Govt	Local Funds	3,000 75,000	On Going	76
FL3l	Identify alternative access points for single access neighborhoods	City Govt	Local Funds	3,000 75,000	On Going	75
FL3m	Acquire signage to indicate water depth at flooding points	City Govt PD FD	Grant Local Funds	10,000 200,000	2010 2011	75
HM3h	Maintain a current list of Hazardous Materials spill clean up companies available to the city	FD LEPC EMA	Local Funds	3,000 75,000	On Going	75
HW2c	Train 1 st responders to respond to High Wind events	FD PD	Grant Local Funds	25,000 100,000	2009 2010	75
PD2c	Develop a list of 1 st responders for early infectious disease vaccination	City Govt	Local Funds	3,000 75,000	2009 2010	75
UF2a	Obtain fire PPE for all personnel responding to fire incidents	FD	Grant Local Funds	85,000 200,000	2009 2010	75
UF2d	Train all fire responders in fire combat techniques annually	FD	Grant Local Funds	5,000 75,000	2009 2010	75
UF3a	Ensure that NFPA standards and codes are followed.	City Govt FD	Local Funds	3,000 75,000	On Going	75
UF3j	Adopt/enforce legislation to restrict the disposal of flammable liquids and other hazardous materials	City Govt	Local Funds	3,000 175,000	On Going	75
AH2b	Evaluate/maintain 1st responders emergency kits annually	FD PD PW	Local Funds	5,000 5,000	On Going	74
AH2g	Train 1 st responders and officials on the National Incident Management System (NIMS)	City Govt PD FD	Grant Local Funds	10,000 75,000	2009 2010	74
AH2h	Train 1 st responders and officials in Emergency Operations Center Ops and the EOP	City Govt PD FD	Local Funds	5,000 100,000	2009 2010	74
AH2i	Train 1 st responders/officials in performing damage assessments.	City Govt FD EMA	Local Funds	3,000 75,000	On Going	74
AH3d	Obtain additional Emergency Operations Center equipment and crisis management software	EMA City Govt	Grant Local Funds	5,000 100,000	2010 2011	74
AH3k	Obtain disaster supply kits for schools/special needs facilities	City Govt FD BOE	Grant Local Funds	7,000 75,000	2010 2011	74



**City of Helena
All Hazards Mitigation Action Plan**

Hazard Goal & Action	Action/Project Description	Responsibility	Funding Source	Estimated Cost/ Benefit	Start/ End Date	Priority
FL3a5	Obtain and maintain NFIP FIRMS to identify jurisdiction flood prone areas	City Govt	Local Funds	3,000 75,000	On Going	74
HM3h	Enforce pre-planning requirements for Extremely Hazardous Substances (EHS)	City Govt FD LEPC	Local Funds	3,000 75,000	On Going	74
WF1c	Educate school/special needs/local populations on preparedness for and response to a wild-land fire	AFC FD BOE	Local Funds	3,000 75,000	On Going	74
WF1d	Develop a plan to distribute wildfire awareness and prevention information	AFC FD	Local Funds	3,000 75,000	On Going	74
WF1e	Work with the DNR to distribute USFS fuels reduction information (Firewise.)	AFC FD	Local Funds	3,000 75,000	On Going	74
WF3g	Maintain contact with the Forestry office that issues daily "fire potential" reports	AFC FD	Local Funds	3,000 75,000	On Going	74
AH1d	Obtain backup power systems for audible warning devices	City Govt	Grant	50,000 200,000	2010 2011	73
AH2a	Obtain/distribute interoperable radios for all 1 st responders	FD PD PW	Grant Local Funds	50,000 100,000	2011 2012	73
AH2e	Train 1 st responders on responding to mass casualty events	FD PD	Grants Local Funds	5,000 50,000	2009 2010	73
AH3b2	Develop redundancy capabilities for emergency radio communications	911 PD	Local Funds	23,000 75,000	On Going	73
FL3c3	Adopt/enforce mobile home legislation to restrict development of lots within the flood plain.	City Govt	Local Funds	3,000 275,000	On Going	73
FL3f	Identify roadways, culverts and bridges damaged by flooding	City Govt	Local Funds	3,000 75,000	On Going	73
FL3g	Update City Land Use Plan to identify areas where development should be restrictive	City Govt	Local Funds	3,000 75,000	On Going	73
HW1a	Obtain NOAA weather radios for schools, government and special needs facilities	FD BOE	Grant Local Funds	30,000 150,000	2010 2011	73
HW2b	Obtain 1 st responder PPE and supplies for High Wind response	FD City Govt	Grant Local funds	50,000 200,000	2010 2011	73
HW3d	Develop a debris clearance program that can be utilized city wide	City Govt EMA Co Engr	Grant Local Funds	20,000 100,000	2009 2010	73
HW3h	Adopt/enforce legislation to control construction standards of mobile homes moved into the city.	City Govt	Local Funds	3,000 75,000	On Going	73
IS3d	Establish snow and ice removal methods	FD PD City Govt	Local Funds	3,000 75,000	On Going	73
PD3h	Adopt/enforce Pandemic Flu legislation to cancel large public and private events	City Govt	Local Funds	3,000 75,000	On Going	73
UF2h	Train fire 1 st responders to at least the "Awareness and Operations level" under OSHA 1910.120	FD	Grant Local Funds	15,000 100,000	On Going	73
WF2g	Identify Private 1 st responders and contractors to assist in wild-land fire response	FD	Local Funds	3,000 75,000	On Going	73
AH1c	Obtain and/or expand warning sirens to for all uncovered areas (4 locations)	City Govt	Grant Local Funds	75,000 500,000	2010 2011	72
AH3e1	Assist non-governmental critical facilities to obtain emergency generators/pigtails	City Govt	Grant Local Funds	50,000 200,000	2010 2011	72

Hazard Goal & Action	Action/Project Description	Responsibility	Funding Source	Estimated Cost/ Benefit	Start/ End Date	Priority
AH3o1	Obtain signage to direct the public evacuation during hazard events	City Govt FD PD	Grant Local Funds	22,000 100,000	2010 2011	72
FL2b	Train all 1 st responders on repetitive flooding areas and structures	FD	Grant Local Funds	25,000	2010 2011	72
FL3a4	Educate developers, builders and the public on the location of NFIP designated flood plains	City Govt	Local Funds	3,000 75,000	On Going	72
FL3c	Obtain funding to retrofit, elevate or relocate NFIP repetitive flooding structures in flood plains	City Govt	Grant Local Funds	500,000 1,000,000	On Going	72
FL3f3	Obtain/Install barriers to block flooding roadways and bridges	FD PD	Grant Local Funds	25,000 100,000	2010 2011	72
HM2d	Fund hazmat response training for all 1 st responders	FD EMA	Local funds Grant	25,000 100,000	2010 2011	72
HW2d	Exercise a High Wind event with 1 st responders at least annually	City Govt FD PD	Local Funds	13,000 175,000	2010 2011	72
IL2b	Train 1 st responders in Methamphetamine Lab chemicals	SCSO PD FD	Grant Local Funds	25,000 100,000	2009 2010	72
IL2c	Provide Meth Lab training to all personnel responding to Meth Labs	SCSO PD FD	Grant	10,000 50,000	2009 2010	72
UF2b	Train firefighters to obtain for state and national certifications	FD	Grant Local Funds	30,000 100,000	2009 2010	72
UF3e	Adopt/enforce sprinkler and smoke alarm legislation	City Govt FD	Local Funds	3,000 575,000	On Going	72
WF1a	Educate homeowners and businesses on wildfire fuels reduction	AFC FD	Local Funds	3,000 75,000	On Going	72
AH3a1	Develop/maintain a countywide NIMS resource inventory software	City Govt FD PD	Grant Local Funds	3,000 75,000	On Going	71
HM2a	Obtain PPE for all personnel responding to hazmat incidents	FD EMA	Grant Local Funds	100,000 200,000	2010 2011	71
HM3j	Adopt/enforce hazardous materials site building setback legislation	City Govt	Local Funds	3,000 75,000	On Going	71
HW1g	Train citizens in weather observation in conjunction with the National Weather Service	NWS FD EMA	Local Funds	5,000 75,000	On Going	71
UF3i	Adopt/enforce housing code legislation to limit number of citizens in sub-standard housing	City Govt	Local Funds	3,000 75,000	On Going	71
UF3k	Obtain smoke detectors and provide free to residents in need.	City Govt FD	Grant Local Funds	10,000 200,000	2010 2011	71
AH2d	Exercise 1 st responder and hospital Mass Casualty plans regularly.	FD PD	Local Funds	2,000 50,000	2009 2010	70
AH3i1	Evaluate shelter requirements annually & develop a program to add necessary shelters	ARC City Govt EMA ADPH	Local Funds	13,000 275,000	On Going	70
FL2f1	Train appropriate 1 st responders for a swift water rescue team	FD EMA	HLS Grant Local funds	25,000 100,000	2011 2012	70
FL3a1	Adopt/enforce an NFIP flood plain management plan	City Govt	Local Funds	3,000 75,000	On Going	70
FL3a2	Adopt/enforce floodplain legislation to require structures to be built above the NFIP BSE	City Govt	Local Funds	3,000 375,000	On Going	70



**City of Helena
All Hazards Mitigation Action Plan**

Hazard Goal & Action	Action/Project Description	Responsibility	Funding Source	Estimated Cost/ Benefit	Start/ End Date	Priority
HM1a	Educate school/special needs/local populations on hazardous materials preparedness/response	FD BOE	Local Funds	3,000 75,000	On Going	70
HW1g	Develop a plan to provide weather radios to low income residents	City Govt FD	Grant Local Funds	10,000 75,000	2009 2010	70
IL2a	Obtain PPE for all personnel that respond to Meth Labs	SCSO EMA PD FD	Grant Local Funds	75,000 200,000	2009 2010	70
WF3i	Adopt/enforce wildfire legislation that includes burning bans	City Govt FD	Local Funds	3,000 75,000	On Going	70
HM3b	Develop evacuation perimeters and routes for high risk hazmat sites	FD PD LEPC	Local Funds	3,000 75,000	On Going	69
AH3s	Obtain funds for critical government departments to develop Continuity of Operations Plans	City Govt	Grant Local Funds	5,000 50,000	On Going	68
TR2e	Obtain terrorism PPE for personnel responding to terrorism incidents	EMA PD FD	Grant Local Funds	50,000 200,000	2009 2010	68
TR2f	Obtain terrorism response and control equipment and supplies	EMA PD FD	Grant Local Funds	25,000 100,000	2009 2010	68
TR2i	Obtain CBRNE detection devices and train 1 st responders on use	PD FD EMA	Grant Local Funds	50,000 200,000	2009 2010	68
FL3a3	Educate builders, developers and the public on the National Flood Insurance Program (NFIP)	City Govt	Local Funds	3,000 175,000	On Going	67
FL3f	Develop a storm water management plan for the jurisdiction	City Govt	Grant Local Funds	10,000 100,000	2010 2011	67
Hm3e	Obtain hazmat containment equipment for water, roads/railroads	FD EMA	Grant Local Funds	75,000 200,000	2010 2011	67
PD2a	Obtain infectious disease PPE for all personnel responding to a pandemic	ADPH City Govt	Grant Local Funds	25,000 100,000	2010 2011	67
PD2a	Obtain appropriate Pandemic personal protected equipment (PPE) and fit for 1 st responders	ADPH City Govt	Grant Local Funds	25,000 100,000	2010 2011	67
PD3c	Develop a traffic flow and security plan for medical dispensing sites	SCSO PD ADPH	Local Funds	3,000 75,000	2009 2010	67
TR2b	Train all terrorism 1 st responders in terrorism attack techniques	FD PD SCSO	Grant Local Funds	25,000 100,000	2009 2010	67
TR2c	Train 1st responders and agencies on CBRNE response	FD PD	Local Funds	5,000 75,000	2009 2010	67
TR2g	Train all appropriate 1 st responders in CBRNE agents	PD FD	Funds Local Funds	10,000 100,000	2009 2010	67
UF1d	Obtain a fire education-training trailer for the jurisdiction.	FD	Grant Local Funds	100,000 200,000	2010 2011	67
UF3f	Obtain fire equipment to combat fires where water hydrants are non-existent	FD	Grant Local Funds	200,000 500,000	2009 2010	67
WF2c	Train fire 1 st responders in wild-land fire response techniques	FD AFC	Local Funds	3,000 75,000	2009 2010	67
AH3e	Obtain/install emergency generators or "pigtailed" for critical government facilities (City Hall, FS# 1, FS# 2 FS # 3, Pump Stations	City Govt FD PD	Grant Local Funds	150,000 500,000	2010 2011	66



**City of Helena
All Hazards Mitigation Action Plan**

Hazard Goal & Action	Action/Project Description	Responsibility	Funding Source	Estimated Cost/ Benefit	Start/ End Date	Priority
FL3e	Adopt/enforce land use flood plain wetlands and watershed zoning	City Govt	Local Funds	3,000 175,000	On Going	66
FL3g	Adopt/enforce storm water legislation to reduce runoff from developments.	City Govt	Local Funds	3,000 75,000	On Going	66
HM2e	Maintain an inventory of Mark I packs to respond to chemical agents	FD	Grant Local Funds	30,000 100,000	On Going	66
HM2f	Exercise an annual hazardous materials event with appropriate agencies and 1 st responders	FD PD EMA	Grant	10,000 100,000	2009 2010	66
HM3d	Obtain monitoring equipment for high risk hazmat sites	FD EMA	Grant Local Funds	50,000 200,000	2010 2011	66
HW3e	Obtain funding to build mobile home community storm shelters	City Govt EMA	Grant Local Funds	250,000 500,000	2010 2011	66
WF2e	Obtain DNR compatible radios for interoperable communications.	City Govt FD PD	Grant Local funds	30,000 100,000	2009 2010	66
AH3s1	Assist businesses to develop Business Continuity Plans	City Govt	Local Funds	3,000 75,000	On Going	65
PD2b	Train Pandemic event 1 st responders on preparedness and response actions	ADPH FD PD	Local Funds	13,000 175,000	On Going	65
TR2j	Exercise a potential terrorism event with 1 st responders at least annually	PD FD EMA	Grant Local Funds	10,000 100,000	2009 2010	65
UF3h	Acquire and install six inch water mains/hydrants city wide	City Govt	Grant Local Funds	500,000 1,000,000	2011 2012	65
FL2f	Obtain equipment to develop a swift water rescue team	FD EMA	HLS Grant Local funds	90,000 300,000	2011 2012	64
FL3i	Obtain equipment to build water flow and water retention areas to mitigate flooding	City Govt	Grant Local Funds	100,000 300,000	2010 2011	64
WF2f	Exercise fire response regularly for residences, businesses and industry	FD	Local Funds	3,000 75,000	On Going	63
FL3f1	Install/replace/maintain culverts ditches and bridges to reduce storm water flooding	City Govt	Grant Local Funds	100,000 500,000	2010 2011	62
FL3f2	Obtain equipment to mitigate bridge, culverts, and roadway flooding	City Govt	Grant Local Funds	50,000 100,000	2010 2011	62
Hm2b	Obtain hazmat detecting equipment for 1 st responders	FD EMA	Local funds Grant	50,000 100,000	2009 2010	62
HM3c	Develop/maintain a countywide hazard materials response plan	FD EMA LEPC	Grant Local Funds	5,000 50,000	2009 2010	62
TR2d	Establish and equip a CBRNE team to respond to incidents in the city	FD PD	Grant Local Funds	20,000 150,000	2010 2011	62
WF2b	Obtain specialized equipment to combat wild-land fires.	FD	Grant Local funds	10,000 100,000	2009 2010	62
PD2d	Obtain supplies and materials needed to vaccinate and prophylax 1 st responders	City Govt ADPH EMA	Grant Local Funds	30,000 200,000	2009 2010	60
PD3d	Exercise infectious disease events in conjunction with in Strategic National Stockpile drills	ADPH EMA City Govt	Local Funds	3,000 75,000	2009 2010	60
HM3a	Create a GIS Maps of hazmat sites to display ERG established zones	FD PD	Grant Local Funds	10,000 100,000	2010 2011	59

Hazard Goal & Action	Action/Project Description	Responsibility	Funding Source	Estimated Cost/ Benefit	Start/ End Date	Priority
HM2g	Acquire and equip a hazardous materials response vehicle	FD EMA	Grant	55,000 200,000	2011 2012	57

"STAPLEE" Mitigation Actions Prioritization Table																										
Action/Project Description	Social			Technical			Administrative			Political			Legal			Economic			Environmental			Prioritization				
	High Community Acceptance	High effect on Loss of Life-WF=3	High Effect on Property Loss WF=2	High Effect on Economic Loss WF=1-9	is Technical Feasibility	is a Long-Term Solution	No Secondary Impacts	Little Staffing required	Funding Potential is High	Low Maintenance/Operations	High Political Support	Has a Local Champion	Has Public Support	State Authorized	Local Authority Exists	Potential Legal Challenge is High	Action Benefit is High WF=2	Action Cost is Low WF=2	High Economic Goal Contribution	Outside Funding Not Required	Land/Water Effect is Low		Low Endangered Species Effect	HAZMAT Waste Site Effect is Low	Environmental Effect is low	Federal law Compliant is High
Schedule regular maintenance and testing of hazard warning units (Monthly Testing)	3	9	0	9	3	3	2	1	3	1	3	3	3	3	3	3	6	4	2	2	2	2	3	2	3	78
Obtain and/or expand warning sirens to for all uncovered areas (4 locations)	3	9	0	9	3	3	2	2	3	1	3	3	3	3	3	2	4	2	2	1	2	2	2	2	3	72
Obtain backup power systems for audible warning devices	3	9	0	9	3	3	2	1	2	1	3	3	3	3	3	4	2	2	1	2	2	3	3	3	3	73
Distribute safe room/shelter in place information to schools/special needs/local populations	3	9	0	9	3	3	3	2	3	2	3	2	2	3	3	3	6	6	2	2	3	3	3	3	3	84
Obtain/distribute interoperable radios for all 1 st responders	2	6	2	9	3	3	3	2	2	1	2	2	2	3	3	3	4	2	2	2	3	3	3	3	3	73
Evaluate/maintain 1st responders emergency kits annually	2	3	0	9	3	1	3	3	2	2	2	2	2	3	3	3	6	6	1	3	3	3	3	3	3	74
Train 1 st responders in search and rescue techniques	2	9	0	9	3	2	3	2	2	2	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	76
Exercise 1 st responder and hospital Mass Casualty plans regularly.	2	6	0	9	3	2	2	2	2	2	2	2	2	3	3	3	4	4	2	2	2	2	3	3	3	70
Train 1 st responders on responding to mass casualty events	2	6	0	9	3	2	3	2	2	2	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	73
Train 1 st responders and officials on the National Incident Management System (NIMS)	2	3	0	9	3	3	3	2	2	2	2	2	2	3	3	3	4	6	2	3	3	3	3	3	3	74
Train 1 st responders and officials in Emergency Operations Center Ops and the EOP	2	3	0	9	3	3	3	2	2	2	2	2	2	3	3	3	4	6	2	3	3	3	3	3	3	74



**City of Helena
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Train 1 st responders/officials in performing damage assessments.	2	3	0	9	3	3	3	2	2	2	2	2	2	3	3	3	4	6	2	3	3	3	3	3	3	3	74
Adopt the National Incident Management System (NIMS)	2	3	0	9	3	3	3	2	3	3	2	2	2	3	3	3	6	6	3	3	3	3	3	3	3	3	79
Develop/maintain a countywide NIMS resource inventory software	2	3	4	9	3	2	3	1	2	1	1	2	2	3	3	3	4	2	4	2	3	3	3	3	3	3	71
Develop redundancy capabilities for emergency radio communications	2	6	2	9	3	3	3	2	3	2	2	2	2	3	3	3	2	2	2	3	3	3	3	3	3	3	73
Obtain additional Emergency Operations Center equipment and crisis management software	2	6	4	9	3	2	3	2	1	1	2	2	2	3	3	3	4	2	4	1	3	3	3	3	3	3	74
Obtain/install emergency generators or "pigtailes" for critical government facilities (City Hall, FS# 1, FS# 2 FS # 3, Pump Stations	3	3	4	9	3	3	2	2	2	1	2	2	3	3	3	2	2	2	2	1	2	2	2	3	3	3	66
Assist non-governmental critical facilities to obtain emergency generators/pigtailes	2	3	4	9	3	2	3	2	2	2	3	2	2	3	3	2	4	2	4	1	2	3	3	3	3	3	72
Evaluate shelter requirements annually & develop a program to add necessary shelters	3	9	0	9	3	3	2	2	1	2	3	2	3	3	3	2	4	2	2	1	2	2	2	2	2	3	70
Maintain a supplier list of food, medicines, water and fuel vendors	2	6	0	9	2	2	3	2	2	2	3	2	3	3	3	3	6	6	2	3	3	3	3	3	3	3	79
Obtain disaster supply kits for schools/special needs facilities	3	3	0	9	2	2	3	2	2	2	3	2	3	3	3	3	6	4	2	2	3	3	3	3	3	3	74
Assist schools in implementing an emergency phone line	3	3	2	9	2	2	3	3	3	3	3	2	3	3	3	3	6	4	2	3	3	3	3	3	3	3	80
Assist businesses, schools, special needs and government facilities to post evacuation routes	2	3	2	9	2	2	3	2	3	3	2	1	2	3	3	2	6	6	2	3	3	3	3	3	3	3	76
Obtain signage to direct the public evacuation during hazard events	2	3	0	9	2	2	3	2	2	2	2	2	3	3	3	3	4	4	4	2	3	3	3	3	3	3	72
Develop/implement/maintain the city's Mitigation Action Plan	2	3	4	9	2	3	3	2	3	2	2	2	2	3	3	3	4	4	4	2	2	3	3	3	3	3	76
Participate in NFIP's Cooperating Technical Partners Program (CTP)	2	3	4	9	3	3	3	2	3	2	2	2	2	3	3	2	6	6	4	3	3	2	3	3	3	3	81
Obtain funds for critical government departments to develop Continuity of Operations Plans	2	0	2	9	3	3	3	2	1	2	1	1	2	3	3	3	4	4	4	1	3	3	3	3	3	3	68
Assist businesses to develop Business Continuity Plans	2	0	2	9	3	3	3	2	1	3	1	1	2	3	3	2	3	2	4	1	3	3	3	3	3	3	65
Develop strategies to prevent loss of public records	2	0	4	9	3	3	3	2	3	2	2	2	2	3	3	3	4	4	4	3	3	3	3	3	3	3	76
Annually review and update hazard related legislation	2	3	2	9	2	2	3	3	3	2	2	2	2	3	3	3	6	6	2	3	3	3	3	3	3	3	78
Ensure all mutual aid shelter, response, mass casualty and recovery agreements are current	2	3	2	9	3	2	3	3	3	2	2	2	2	3	3	3	6	6	2	3	3	3	3	3	3	3	79
Develop a community shelter program for mobile home parks	2	9	0	9	3	3	2	2	3	2	2	2	2	3	3	3	6	6	6	2	2	3	3	2	3	3	83
Insure building code compliance Inspections are conducted on construction projects	2	6	6	9	3	3	3	1	2	1	2	2	2	3	3	3	4	4	3	3	2	3	3	3	3	3	79
Distribute flood awareness and preparedness literature at events	2	6	2	8	3	2	3	2	3	2	3	3	2	3	3	3	6	6	3	3	3	3	3	3	3	3	83



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Obtain PPE for all personnel responding to flood events	2	6	4	8	3	3	3	2	3	2	3	3	3	3	3	3	4	4	4	2	3	3	3	3	3	83
Train all 1 st responders on repetitive flooding areas and structures	2	3	2	8	3	2	3	2	3	2	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	72
Obtain equipment to develop a swift water rescue team	2	6	0	8	3	3	3	2	1	1	2	2	2	3	3	3	1	2	2	0	3	3	3	3	3	64
Train appropriate 1 st responders for a swift water rescue team	2	6	0	8	3	3	3	1	2	2	2	2	2	3	3	3	2	4	4	0	3	3	3	3	3	70
Participate in the National Flood Insurance Program (NFIP)	3	0	4	8	3	3	3	3	2	3	2	2	2	3	3	3	6	6	3	3	3	3	3	3	3	80
Adopt/enforce an NFIP flood plain management plan	2	0	4	8	3	3	2	1	2	1	2	2	1	3	3	2	4	6	3	3	3	3	3	3	3	70
Adopt/enforce floodplain legislation to require structures to be built above the NFIP BSE	2	3	6	8	3	3	2	1	2	1	1	1	2	3	3	2	4	6	3	3	2	2	2	2	3	70
Educate builders, developers and the public on the National Flood Insurance Program (NFIP)	2	0	2	8	3	2	3	2	2	2	2	2	2	3	3	3	4	6	2	3	2	2	2	2	3	67
Educate developers, builders and the public on the location of NFIP designated flood plains	2	3	4	8	3	2	3	2	2	2	2	2	2	3	3	3	4	6	2	3	2	2	2	2	3	72
Obtain and maintain NFIP FIRMS to identify jurisdiction flood prone areas	2	3	4	8	3	2	3	2	2	2	2	2	2	3	3	3	4	4	2	3	3	3	3	3	3	74
Obtain funding to retrofit, elevate or relocate NFIP repetitive flooding structures in flood plains	2	6	6	8	3	2	2	2	1	2	1	1	2	3	3	1	4	6	1	1	3	3	3	3	3	72
Adopt/enforce mobile home legislation to restrict development of lots within the flood plain.	2	6	4	8	3	3	3	1	3	1	2	2	2	3	3	2	4	4	3	3	2	2	2	2	3	73
Participate in the NFIP Community Rating System	3	0	0	8	3	2	3	3	3	2	2	2	3	3	3	3	6	6	3	3	3	3	3	3	3	76
Adopt/enforce land use flood plain wetlands and watershed zoning	2	3	4	8	3	3	2	1	2	1	2	1	1	3	3	2	4	4	3	3	2	2	2	2	3	66
Inspect and maintain natural drainage channels to clear beaver dams and debris	2	6	6	8	2	2	2	3	2	2	2	2	2	3	3	2	6	6	6	2	3	3	3	3	3	84
Develop a storm water management plan for the jurisdiction	2	3	2	8	3	2	2	2	2	2	2	2	2	3	3	3	4	4	2	3	2	2	2	2	3	67
Identify roadways, culverts and bridges damaged by flooding	3	0	2	8	3	2	3	2	2	2	2	2	2	3	3	3	6	6	1	3	3	3	3	3	3	73
Install/replace/maintain culverts ditches and bridges to reduce storm water flooding	2	6	4	8	3	3	1	1	1	1	2	2	2	3	3	2	2	2	2	1	2	2	2	2	3	62
Obtain equipment to mitigate bridge, culverts, and roadway flooding	2	6	4	8	3	3	1	1	1	1	2	2	2	3	3	2	2	2	2	1	2	2	2	2	3	62
Obtain/Install barriers to block flooding roadways and bridges	2	6	2	8	3	2	2	2	2	2	2	2	2	3	3	3	4	4	1	2	3	3	3	3	3	72
Update City Land Use Plan to identify areas where development should be restrictive	2	3	6	8	3	2	2	3	2	2	2	2	1	3	3	1	4	4	2	3	3	3	3	3	3	73
Adopt/enforce storm water legislation to reduce runoff from developments.	2	0	2	8	3	3	2	1	2	1	2	2	2	3	3	2	4	6	3	3	2	2	2	2	3	66
Educate developers on Watershed, Floodplain and wetland development restrictions	2	3	4	8	3	2	3	2	3	2	2	2	2	3	3	3	6	6	2	3	3	3	3	3	3	79



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Request a study of the feasibility of flood control measures along the Cahaba Rivers.	2	6	6	8	3	3	3	2	2	2	2	1	2	3	3	3	4	4	6	1	3	2	3	3	3	80
Obtain equipment to build water flow and water retention areas to mitigate flooding	2	6	6	8	3	3	1	1	1	1	2	2	2	3	3	2	2	2	2	1	2	2	2	2	3	64
Obtain/install/maintain/monitor rainfall and stream gauges to predict local flooding	2	6	6	8	3	3	2	2	2	2	2	2	3	3	3	6	4	6	1	2	3	3	3	3	3	83
Identify alternative access points for single access neighborhoods	2	3	0	8	3	2	3	3	3	3	2	2	3	3	3	3	4	6	1	3	3	3	3	3	3	75
Acquire signage to indicate water depth at flooding points	2	3	0	8	3	2	3	3	3	3	2	2	3	3	3	3	4	6	1	3	3	3	3	3	3	75
Educate school/special needs/local populations on hazardous materials preparedness/response	2	6	2	5	3	2	3	2	2	2	2	2	2	3	3	3	4	4	1	2	3	3	3	3	3	70
Educate the public on common hazardous materials in home	3	6	2	5	3	2	3	2	3	2	2	3	3	3	3	3	6	6	2	3	3	3	3	3	3	80
Educate schools special needs, and community populations on chemical hazards in the area.	2	6	2	5	3	2	3	2	3	2	2	3	3	3	3	3	6	6	2	3	3	3	3	3	3	79
Educate schools, special needs and local population on hazmat evacuation	3	6	2	5	3	2	3	2	3	2	2	3	3	3	3	3	6	6	2	3	3	3	3	3	3	80
Establish school hazard materials environmental impact programs	3	6	0	5	3	2	3	2	3	2	2	3	3	3	3	3	6	6	1	3	3	3	3	3	3	77
Obtain PPE for all personnel responding to hazmat incidents	2	6	2	5	3	2	3	2	2	2	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	71
Obtain hazmat detecting equipment for 1 st responders	1	3	2	5	3	2	3	2	1	1	2	2	2	3	3	3	4	4	2	1	3	3	2	2	3	62
Develop/maintain hazmat SOG's/FOG's for 1 st responders	2	6	2	5	3	2	3	1	3	1	3	3	2	3	3	3	6	6	2	3	3	3	3	3	3	77
Fund hazmat response training for all 1 st responders	2	6	2	5	3	2	3	2	2	2	3	2	2	3	3	3	4	4	2	2	3	3	3	3	3	72
Maintain an inventory of Mark I packs to respond to chemical agents	2	3	0	5	3	2	3	1	2	2	3	2	2	3	3	3	4	4	1	3	3	3	3	3	3	66
Exercise an annual hazardous materials event with appropriate agencies and 1 st responders	2	6	2	5	3	2	2	2	2	2	2	2	2	3	3	2	4	4	2	2	3	2	2	2	3	66
Acquire and equip a hazardous materials response vehicle	2	3	2	5	3	3	3	2	1	1	1	1	1	3	3	3	2	2	2	1	3	3	2	2	3	57
Create a GIS Maps of hazmat sites to display ERG established zones	2	0	0	5	3	2	3	2	2	1	1	2	2	3	3	3	2	4	2	2	3	3	3	3	3	59
Develop evacuation perimeters and routes for high risk hazmat sites	2	0	0	5	3	2	3	2	3	2	2	2	2	3	3	3	6	6	2	3	3	3	3	3	3	69
Maintain and annually update an inventory of hazmat sites.	2	6	4	5	3	2	3	2	3	2	2	2	2	3	3	3	6	4	2	2	3	3	3	3	3	76
Develop/maintain a countywide hazard materials response plan	1	6	2	5	3	3	2	3	1	1	1	1	2	3	3	3	4	2	2	1	3	3	2	2	3	62
Obtain monitoring equipment for high risk hazmat sites	2	6	4	5	3	3	2	2	1	2	1	1	2	3	3	2	4	2	2	1	3	3	3	3	3	66
Obtain hazmat containment equipment for water, roads/railroads	2	3	4	5	3	3	3	2	2	2	2	2	2	3	3	3	4	1	2	1	3	3	3	3	3	67
Enforce pre-planning requirements for Extremely Hazardous Substances (EHS)	2	6	2	5	3	2	3	2	2	2	2	2	2	3	3	3	4	6	2	3	3	3	3	3	3	74



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Maintain a current list of Hazardous Materials spill clean up companies available to the city	2	0	2	5	3	2	3	2	3	3	3	3	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	75
Enforce S.A.R.A. Title III and Tier II company reporting of hazardous chemicals.	2	6	2	5	3	2	3	1	3	2	3	3	3	3	3	3	3	4	6	3	3	3	3	2	2	3	76	
Adopt/enforce hazardous materials site building setback legislation	1	6	2	7	3	3	2	1	2	1	2	1	1	3	3	2	4	6	3	3	3	3	3	3	3	3	71	
Obtain NOAA weather radios for schools, government and special needs facilities	3	6	0	7	3	3	3	2	2	1	2	2	3	3	3	3	4	4	2	2	3	3	3	3	3	3	73	
Educate school/special needs/local populations on high wind preparedness/response	3	6	4	7	3	2	3	2	3	2	3	3	3	3	3	3	6	6	3	3	3	3	3	3	3	3	86	
Distribute High Wind preparedness information to special needs/school/local populations	3	6	4	7	3	2	3	2	3	2	3	3	3	3	3	3	6	6	3	3	3	3	3	3	3	3	86	
Develop a plan to provide weather radios to low income residents	2	6	0	7	3	2	3	2	2	1	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	3	70	
Train citizens in weather observation in conjunction with the National Weather Service	2	6	0	7	3	2	3	2	2	2	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	3	71	
Obtain 1 st responder PPE and supplies for High Wind response	2	6	0	7	3	2	3	1	3	2	3	3	2	3	3	3	4	4	2	2	3	3	3	3	3	3	73	
Train 1 st responders to respond to High Wind events	3	6	0	7	3	2	3	2	3	2	3	3	2	3	3	3	4	4	2	2	3	3	3	3	3	3	75	
Exercise a High Wind event with 1 st responders at least annually	3	6	0	7	3	2	2	2	3	2	3	2	2	3	3	2	4	4	2	2	3	3	3	3	3	3	72	
Adopt/enforce comprehensive Building Code legislation	2	6	6	7	3	3	2	1	3	1	2	3	2	3	3	2	4	6	3	3	3	3	3	3	3	3	80	
Develop a debris clearance program that can be utilized city wide	3	0	2	7	3	3	1	1	3	2	3	3	3	3	3	3	6	6	6	3	2	2	1	2	2	73		
Obtain funding to build mobile home community storm shelters	2	6	0	7	3	3	2	2	1	2	2	2	2	3	3	2	4	2	2	1	3	3	3	3	3	3	66	
Adopt/enforce tie down and skirting legislation for mobile homes and mobile home parks	2	6	4	7	3	3	3	1	3	1	2	3	2	3	3	2	4	4	2	3	3	3	3	3	3	3	76	
Adopt/enforce legislation to control construction standards of mobile homes moved into the city.	2	6	2	7	3	3	3	1	3	1	2	2	2	3	3	2	4	4	2	3	3	3	3	3	3	3	73	
Educate school and local populations on Meth Lab awareness	3	6	2	4	3	2	3	2	3	2	3	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	80	
Obtain PPE for all personnel that respond to Meth Labs	2	6	0	4	3	2	3	1	3	2	3	3	2	3	3	3	4	4	2	2	3	3	3	3	3	3	70	
Train 1 st responders in Methamphetamine Lab chemicals	3	6	0	4	3	2	3	2	3	2	3	3	2	3	3	3	4	4	2	2	3	3	3	3	3	3	72	
Provide Meth Lab training to all personnel responding to Meth Labs	3	6	0	4	3	2	3	2	3	2	3	3	2	3	3	3	4	4	2	2	3	3	3	3	3	3	72	
Join/participate in local state and federal drug task forces	3	3	2	4	3	3	3	2	3	3	3	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	79	
Maintain/publicize a hotline to report suspected meth labs	3	3	2	4	3	3	3	3	3	3	3	3	3	3	3	2	6	4	2	3	3	3	3	3	3	3	77	
Establish snow and ice removal methods	2	6	2	4	3	2	2	2	3	2	3	2	3	3	3	3	6	6	2	3	2	2	2	2	2	3	73	
Educate the public on preparedness and self care for a Pandemic event	2	6	0	4	3	2	3	2	3	2	3	2	3	3	3	3	6	6	2	3	3	3	3	3	3	3	76	



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Train all terrorism 1 st responders in terrorism attack techniques	2	6	0	3	3	2	3	2	2	2	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	3	67
Train 1st responders and agencies on CBRNE response	2	6	0	3	3	2	3	2	2	2	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	3	67
Establish and equip a CBRNE team to respond to incidents in the city	2	6	4	3	3	3	3	1	2	1	1	1	2	3	3	3	2	1	2	1	3	3	3	3	3	3	62
Obtain terrorism PPE for personnel responding to terrorism incidents	2	6	0	3	3	2	3	3	2	2	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	3	68
Obtain terrorism response and control equipment and supplies	2	6	0	3	3	2	3	3	2	2	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	3	68
Train all appropriate 1 st responders in CBRNE agents	2	6	0	3	3	2	3	2	2	2	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	3	67
Obtain CBRNE detection devices and train 1 st responders on use	2	6	0	3	3	2	3	3	2	2	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	3	68
Exercise a potential terrorism event with 1 st responders at least annually	2	6	2	3	3	2	2	2	2	2	2	2	2	3	3	2	4	4	2	2	3	3	2	2	3	3	65
Support State Homeland Security strategies to counter terrorism	3	3	2	3	3	3	3	2	3	3	3	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	78
Join and/or continue to participate in the Joint Terrorism Task Force.	3	3	2	3	3	3	3	2	3	3	3	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	78
Assist schools in developing terrorism preparedness and response plans	3	3	2	3	3	3	3	2	3	3	3	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	78
Encourage special needs facilities to implement a security system	3	3	2	3	3	3	3	2	3	3	3	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	78
Develop evacuation plans for identified terrorism targets	3	3	2	3	3	3	3	2	3	3	3	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	78
Educate school/special needs/local populations on fire safety and response	3	6	4	6	3	2	3	2	3	2	3	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	84
Educate school, special needs and the community population on fire extinguisher use	3	6	4	6	3	2	3	2	3	2	3	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	84
Assist fire departments in obtaining fire prevention program materials	3	6	4	6	3	2	3	2	3	2	3	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	84
Obtain a fire education-training trailer for the jurisdiction.	2	6	4	6	3	3	3	2	1	2	2	1	2	3	3	3	2	1	2	1	3	3	3	3	3	3	67
Obtain fire PPE for all personnel responding to fire incidents	2	6	4	6	3	2	3	2	3	2	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	3	75
Train firefighters to obtain for state and national certifications	2	3	4	6	3	2	3	2	3	2	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	3	72
Obtain/maintain fire fighting supplies at all fire departments	2	6	6	6	3	2	3	2	3	2	3	3	2	3	3	3	4	4	3	2	3	3	3	3	3	3	80
Train all fire responders in fire combat techniques annually	2	6	4	6	3	2	3	2	3	2	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	3	75
Train fire 1 st responders to at least the "Awareness and Operations level" under OSHA 1910.120	2	3	4	6	3	2	3	2	3	2	2	2	2	3	3	3	4	4	2	3	3	3	3	3	3	3	73
Ensure that NFPA standards and codes are followed.	2	0	4	6	3	1	3	3	3	2	3	2	2	3	3	3	6	6	2	3	3	3	3	3	3	3	75



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