

**CITY OF CHELSEA  
INDIVIDUAL MITIGATION  
ACTION PLAN**



**SHELBY COUNTY  
ALABAMA  
MULTI-JURISDICTIONAL  
MULTI HAZARD  
MITIGATION PLAN  
2016**



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## CITY OF CHELSEA MITIGATION ACTION PLAN

### Geography/History

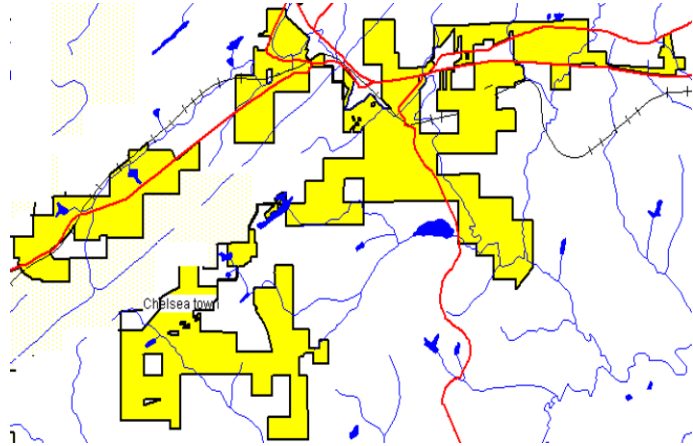
The City of Chelsea is located in north central Shelby County approximately 10 miles Southeast of Birmingham along the U.S. Hwy 280 corridor. According to the U.S. Census Bureau, the county has a total area of 810 square miles (2,097 km<sup>2</sup>), of which, 795 square miles (2,058 km<sup>2</sup>) of it is land and 15 square miles (38 km<sup>2</sup>) of it (1.83%) is water.

The earliest settlers to this area came in the early 1830s and were led by two Revolutionary War soldiers, Able Kendrick and Lewis Turner, and portions of their families from Virginia to South Carolina, then through Georgia to Central Alabama and Shelby County Alabama. Several early families in this area are included.

Lewis Turner settled, along with James Lewis Kendrick, which had intermarried with the Turner family in South Carolina, settled at Kendrick Springs or K-Springs, which later became the City of Chelsea in Shelby County, Alabama.

In 1846, a few individuals established a local fellowship of believers in Chelsea, Alabama, and became known as Liberty Baptist Church. These believers continued to partner with God in His kingdom work and Liberty Baptist Church was among the first ten originating churches of the Shelby Baptist Association in 1852.

The City of Chelsea was incorporated March 1, 1996 with an estimated population of 901.



### Special Characteristics

Notable characteristics in Chelsea include the Narrows. Lakes and streams include Lenora Lake, and Yellowleaf Creek.

Chelsea: is home to the Yellowleaf Game Preserve and Chelsea Park, which have a Pavilion, playground, soccer field baseball, and softball fields.

### Population and Demographics

As of the census of 2010, there were 10,183 people, 3,657 households, and 2,929 families residing in the city. The population density was 469.3 people per square mile. There were 3,657 housing units at an average density of 168.5/sq mi. The racial makeup of the city was 90.5% White, 6.1% Black or African American, 0.7% Native American, 2.7% Asian, 0.2% Pacific Islander, 1.4% from other races, and 1% from two or more races. 3.2% of the population was Hispanic or Latino of any race.



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There were 3,657 households out of which 43.1% had children under the age of 18 living with them, 69.8% were married couples living together, 7.4% had a female householder with no husband present, and 19.9% were non-families. 17.2% of all households were made up of individuals and 15.4% had someone living alone who was 65 years of age or older. The average household size was 2.75 and the average family size was 3.11.

In the city the population was spread out with 29.4% under the age of 18, 5.1% from 15 to 19, 34.2% from 25 to 44, 23.3% from 45 to 64, and 8% who were 65 years of age or older. The median age was 34.5 years. For every 51.2 females there were 48.8 males. For every 36.8 female age 18 and over, there were 33.8 males.

### Economy

The median income for a household in the city was \$84,868 and the median income for a family was \$89,498. Males had a median income of \$58,919 versus \$38,052 for females. The per capita income for the city was \$34,747. About 2.4% of families and 3.3% of the population were below the poverty line, including 51% of those under age 18 and 5.9% of those age 65 or over.

Single-family new house construction building permits include:

- 2007: 208 buildings, average cost: \$ \$172,639.21
- 2008: 56 buildings were constructed, average cost \$ \$176,785.71
- 2009: 55 buildings were constructed, average cost: \$157,132.85
- 2010: 45 buildings, average cost: \$ \$185,518.00
- 2011: 65 buildings, average cost: \$ \$184,076.92
- 2012: 143 buildings, average cost: \$194,163.12
- 2013: 148 buildings, average cost: \$ \$222,034.25
- 2014: 108 buildings, average cost: \$ \$221,685.19

### Infrastructure

Chelsea government consists of a mayor and five council members. The city of Chelsea fire department consists of three stations with 48 fire personnel. Chelsea contracts with the Shelby County Sheriffs department for law enforcement.

Chelsea currently has five schools in the Shelby County School system.

School	Enrollment
Chelsea Park Elementary	806
Chelsea High School	1158
Chelsea Middle School	982
Forest Oaks Elementary	747



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## 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 Chelsea 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 Building Codes	2012	Y	N	Y	Y
Capital Improvements Plan	Annual Budget	2009		N	N	N
Comprehensive Plan	Resolution	2012		N	N	Y
Continuity of Operations Plan				N	N	N
Community Rating System				N	Y	N
Economic Development Plan	Comprehensive Plan Resolution	1998		N	N	Y
Emergency Response Plan	County Emergency Operations Plan	2015	N	N	Y	Y
Flood Management, Plan	Resolution	2013		N	Y	Y
Growth Control Ordinance				N	N	N
Hazard Setback Regulations				N	N	N
Hillside Ordinance				N	N	N
Historic Ordinance				N	N	N
NFIP Participant	Resolution	2013		N	Y	Y
Post-disaster Ordinance				N	N	N
Post-disaster Recovery Plan	County Emergency Operations Plan	2015	N	N	Y	Y
Real Estate Disclosure	AL Real Estate Commission	1960	N	N	Y	N
Site Plan Requirements	Zoning Ordinance	1989		N	N	Y
Subdivision Regulations	Zoning Ordinance	2005		N	N	Y
Wildfire Ordinance				N	N	N
Zoning Ordinances	Ordinance	2012		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



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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 Chelsea 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	C2/1	C2/1	C2/1
Emergency Staff	Professional(s)	Emergency Management	C5	C5	C5
Emergency Medical Personnel	Professional(s)	Fire/Rescue	48	48	48
Fire Personnel	Professional(s)	Fire Dept.	48	48	48
Floodplain Manager	Engineer(s)	Engineering/Public Works	C1	C1	C1
GIS Specialist	Professional(s)	Property Assessor/IT	1	1	1
Government Elected	Elected Officials	Mayor/Council	6	6	6
Government Administration	Employees	Jurisdiction	6	6	6
Grant writer	Professional(s)	Emergency Management	0	0	0
Hazards Analysis Mgr.	Professional(s)	Emergency Management	C1	C1	C1
Hazmat Team	Professional(s)	Fire	C6	C6	C6
Information Systems	Certified Professional	IT department	C1	C1	C1
Land Use/Management	Engineer(s)/Planners	State/Local Planning	C1	C1	C1
Law Enforcement	Sheriff, Police, Trooper	Sheriff's Office	C6	C6	C6
Medical Practioners	Professional(s)	Medical Facilities	10	10	10
Public Works	Directors/Engineers	Public Works	4	4	4
Public Communication	911 specialists	E-911	C35	C35	C35
Public Utilities	Professionals	Public Utilities			
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 Chelsea 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			
	PDM for disaster resistant universities		X		
	PDM Grants for communities	X			
	Department of Health Grants		X		
	Department of Justice Grants		X		
	Department of Agriculture Grants		X		





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	Department of Energy Grants		X		
	Department of Education Grants		X		
	Fire department grants	X			X
	Flood Management Grants (FMA)	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			X
Dept Procurement	Incur debt through private activity bonds		X		
Impact Fees	Developer fees for new developments		X		
Jurisdiction Bonds	Incur debt through general obligation bonds	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 Chelsea. The following goal statements represent a broad target for City of Chelsea and its municipalities to achieve through the implementation of their own specific Mitigation Action Plans before the next Plan update.

GOALS	OBJECTIVES
All Hazards Goal: Mitigate the impact of all hazards on the City of Chelsea	Objective AH.1: Improve the City of Chelsea's information distribution and warning capabilities for all hazards to citizens Objective AH.2: Improve the City of Chelsea's 1 <sup>st</sup> responder capabilities to prepare for and respond to all hazards Objective AH.3: Improve the City of Chelsea's capability to prepare for, respond to and recover from all hazards
Flooding Hazard Goal: Mitigate the impact of flooding on the City of Chelsea	Objective FL.1: Improve the City of Chelsea's flood warning and information distribution to citizens Objective FL.2: Improve the City of Chelsea's 1 <sup>st</sup> responder capabilities to prepare for and respond to flood events. Objective FL.3: Improve the City of Chelsea's capability to prepare for, respond to and recover from flood events
High Wind Hazard Goal: Mitigate the impact of High Winds on the City of Chelsea	Objective HW.1: Improve the City of Chelsea's High Winds warning and information distribution to citizens Objective HW.2: Improve the City of Chelsea's 1 <sup>st</sup> responder capabilities to prepare for and respond to High Winds events. Objective HW.3: Improve the City of Chelsea's capability to prepare for, respond to and recover from High Winds events



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Ice/Snow Hazard Goal: Mitigate the impact of Ice/Snow on the City of Chelsea	Objective IS.1: Improve the City of Chelsea’s Ice/Snow warning and information distribution to citizens Objective IS.2: Improve the City of Chelsea’s 1 <sup>st</sup> responder capabilities to prepare for and respond to Ice/Snow events. Objective IS.3: Improve the City of Chelsea’s capability to prepare for, respond to and recover from Ice/Snow events
Wildfire Hazard Goal: Mitigate the impact of Wildfires on the City of Chelsea	Objective WF.1: Improve the City of Chelsea’s Wild-land Fire warning and information distribution to citizens Objective WF.2: Improve the City of Chelsea’s 1 <sup>st</sup> responder capabilities to prepare for and respond to Wild-land Fire events Objective WF.3: Improve the City of Chelsea’s capability to prepare for, respond to and recover from Wild-land Fire events
Urban Fire Hazard Goal: Mitigate the impact of Urban Fires on the City of Chelsea	Objective UF.1: Improve the City of Chelsea’s Urban Fire warning and information distribution to citizens Objective UF.2: Improve the City of Chelsea’s 1 <sup>st</sup> responder capabilities to prepare for and respond to Urban Fire events Objective UF.3: Improve the City of Chelsea’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.

<p>Prioritizing mitigation actions for each jurisdiction was based on the “STAPLEE” process. “STAPLEE” uses multiple factors under the categories of <u>S</u>ocial, <u>T</u>echnical, <u>A</u>dministration, <u>L</u>egal, <u>E</u>conomic and <u>E</u>nvironment</p>
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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
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



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Environmental 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 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 should review the 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 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
AH1f	Encouraged citizens to develop emergency preparedness, response and recovery plans.	Fire Svcs	Local funds & Grants	6,069 110,350	2015 2020	88
HW1b	Educate the public on High Wind weather preparedness, response and recovery.	City Govt, Fire Svc, EMA, NWS	Local funds & Grants	1,048 55,175	2015 2020	87
HW1c	Educate special needs/school/local populations on High Wind preparedness and response	City Govt, Fire Svc, EMA, NWS	Local funds & Grants	1,048 55,175	2015 2020	87
HW1c	Distribute High Wind preparedness information to special needs/school/local populations	City Govt, Fire Svc	Local funds & Grants	276 55,175	2015 2020	87
AH3p	Develop/implement/maintain the jurisdictions Mitigation Action Plan	City Govt, Fire Svc	Local funds & Grants	3,311 110,350	2015 2020	85
UF1a	Educate school, special needs and the community populations on fire safety and response	City Govt, Fire Svc	Local funds & Grants	1,214 55,175	2015 2020	85
UF1b	Educate school, special needs and the community population on fire extinguisher use	City Govt, Fire Svc	Local funds & Grants	3,090 55,175	2015 2020	85
UF1c	Assist fire departments in obtaining fire prevention program materials	City Govt, Fire Svc	Local funds & Grants	1,214 55,175	2015 2020	85
AH1e	Distribute safe room/Shelter in place information to schools/special needs and local	City Govt, Fire Svc	Local funds & Grants	2,759 110,350	2015 2020	84
UF3d	Develop fire plans for all major businesses and critical facilities	City Govt, Fire Svc	Local funds & Grants	1,104 55,175	2015 2020	84
AH3x	Develop a community shelter program for mobile home parks	City Govt, EMA	Local funds & Grants	198,630 1,103,500	2015 2020	83



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Hazard Goal & Action	Action/Project Description	Responsibility	Funding Source	Estimated Cost/ Benefit	Start/ End Date	Priority
TR1b	Educate schools/special needs/government officials on procedures for handling suspicious mail	BOE, SCSO	Local funds & Grants	10,925 110,350	2015 2020	82
UF3f	Obtain fire equipment to combat fires where water hydrants are non-existent	City Govt, Fire Svc	Local funds & Grants	386,225 1,103,500	2015 2020	82
UF3h	Acquire and install six inch water mains/hydrants city wide. City has replaced most mains.	City Govt, Fire Svc	Local funds & Grants	882,800 2,207,000	2015 2020	82
AH3r	Participate in NFIP's Cooperating Technical Partners Program (CTP)	City of Chelsea	Local funds	1,104 55,175	2015 2020	81
FL3e	Inspect and maintain natural drainage channels to clear beaver dams and debris	City of Chelsea	Local funds	1,104 386,225	2015 2020	81
HW3a	Adopt/enforce comprehensive Building Code legislation	City Govt Planning	Existing	1,104 55,175	2015 2020	81
PD3i	Maintain contact with state and federal agencies regarding biological and disease threats.	ADPH SCSO EMA, Fire Svcs	Existing	1,104 55,175	2015 2020	81
UF2c	Obtain/maintain fire fighting supplies at all fire departments	City Govt, Fire Svc	Local funds & Grants	4,524 110,350	2015 2020	81
FL1a	Distribute flood awareness and preparedness literature at events	City Govt, Fire Svc, EMA, NWS	Local funds & Grants	717 55,175	2015 2020	80
FL2a	Obtain PPE for all personnel responding to flood events. All current personnel have PPE.	City Govt, Fire Svc	Local funds & Grants	4,966 110,350	2015 2020	80
FL3c3	Adopt/enforce mobile home legislation to restrict development of lots within the flood plain.	City Govt Planning	Existing	1,104 386,225	2015 2020	80
FL3k	Obtain/install/maintain/monitor rainfall and stream gauges to predict Local funds flooding	City of Chelsea	Local funds & Grants	121,385 165,525	2015 2020	80
AH3a	Adopt the National Incident Management System (NIMS)	City Govt	Local funds & Grants	1,104 110,350	2015 2020	79
AH3b2	Develop redundancy capabilities for emergency radio communications	City Govt, Fire Svc, EMA	Local funds & Grants	21,518 110,350	2015 2020	79
AH3j	Maintain a supplier list of food, medicines, water and fuel vendors	City Govt, Fire Svc	Local funds & Grants	1,048 55,175	2015 2020	79
AH3u	Ensure that mutual aid shelter, response, mass casualty and recovery agreements are current	City Govt, Fire Svc	Local funds & Grants	1,324 55,175	2015 2020	79
AH3y	Insure building code compliance Inspections are conducted on construction projects	Fire Svcs, Shelby County	Local funds & Grants	3,311 551,750	2015 2020	79
UF3c	Encourage fire inspections to be regularly conducted at businesses and industry	City Govt, Fire Svc	Local funds & Grants	1,104 55,175	2015 2020	79
AH1b	Schedule regular maintenance and testing of hazard warning units (Monthly Testing)	Fire Svcs, EMA	Local funds & Grants	8000 551,750	2015 2020	78
AH3t	Annually review and update hazard related legislation	City Govt, Fire Svc	Local funds & Grants	500 55,175	2015 2020	78
IL3a	Join/participate in Local funds state and federal drug task forces	City Govt, SCSO	Grants Local funds	1,104 55,175	2015 2020	78
TR3m	Encourage special needs facilities to implement a security system	City Govt Fire Svc SCSO	Existing	1,104 55,175	2015 2020	78
UF3b	Ensure that fire codes are rigidly enforced with citations issued for violations.	City Govt, Fire Svc	Local funds & Grants	1,104 55,175	2015 2020	78



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Hazard Goal & Action	Action/Project Description	Responsibility	Funding Source	Estimated Cost/ Benefit	Start/ End Date	Priority
WF1c	Educate school/special needs/local populations on preparedness for and response to a wild-land fire	BOE City Govt, Fire Svc	Local funds & Grants	1,655 110,350	2015 2020	78
WF1f	Publish outdoor burn ban info in area newspapers during Wild-land fire seasons. Social Media.	Fire Svc	Local funds & Grants	1,250 110,350	2015 2020	78
FL3a	Participate in the National Flood Insurance Program (NFIP)	City Govt	Existing	1,104 165,525	2015 2020	77
FL3d	Participate in the NFIP Community Rating System	City of Chelsea	Local funds	1,104 165,525	2015 2020	77
HW3g	Adopt/enforce tie down and skirting legislation for mobile homes and mobile home parks	City Govt Planning	Existing	1,104 551,750	2015 2020	77
AH2c	Train 1 <sup>st</sup> responders in search and rescue techniques	City Govt, Fire Svc	Local funds & Grants	4,414 110,350	2015 2020	76
AH3o	Assist businesses, schools, special needs and government facilities to post evacuation routes	City Govt BOE, Fire Svc	Local Funds Grants	1,104 55,175	2015 2020	76
FL3h	Educate developers on Watershed, Floodplain and wetland development restrictions	City Govt Planning	Local funds	1,104 165,525	2015 2020	76
HW2c	Train 1 <sup>st</sup> responders to respond to High Wind events	City Govt, Fire Svc	Local funds & Grants	1,214 55,175	2015 2020	76
UF2a	Obtain fire PPE for all personnel responding to fire incidents	City Govt, Fire Svc	Local funds & Grants	62,500 220,700	2015 2020	76
UF2d	Train all fire responders in fire combat techniques annually	City Govt, Fire Svc	Local funds & Grants	23,174 220,700	2015 2020	76
UF3a	Ensure that NFPA standards and codes are followed.	City Govt, Fire Svc	Existing	1,104 55,175	2015 2020	76
UF3k	Obtain smoke detectors and provide free to residents in need.	City Govt, Fire Svc	Local funds & Grants	11,035 275,1875	2015 2020	76
WF1d	Distribute wildfire awareness and prevention information to schools/businesses/local populations	FIRE SVCS, City Govt	Local funds & Grants	3,090 110,350	2015 2020	75
WF3g	Maintain contact with the Forestry office that issues daily "fire potential" reports	City Govt, Fire Svc	Local funds & Grants	662 55,175	2015 2020	75
AH2b	Evaluate/maintain 1st responders emergency kits annually	Fire Svc.	Local funds & Grants	4,635 55,175	2015 2020	74
AH2g	Train 1 <sup>st</sup> responders and officials on the National Incident Management System (NIMS)	City Govt	Local funds & Grants	2,869 110,350	2015 2020	74
AH2h	Train 1 <sup>st</sup> responders and officials in Emergency Operations Center Ops and the EOP	City Govt, Fire Svc	Local funds & Grants	2,869 110,350	2015 2020	74
AH2i	Train 1 <sup>st</sup> responders/officials in performing damage assessments.	EMA	Local funds, Grants	5,518 110,350	2015 2020	74
AH3d	Obtain additional Emergency Operations Center equipment and crisis management software	City Govt	Local funds & Grants	7,173 110,350	2015 2020	74
AH3k	Obtain disaster supply kits for schools/special needs facilities	City Govt	Local funds & Grants	6,621 110,350	2015 2020	74
HW1a	Obtain NOAA weather radios for schools, government and special needs facilities	BOE, EMA	Local funds & Grants	20,967 110,350	2015 2020	74
HW2b	Obtain 1 <sup>st</sup> responder PPE and supplies for High Wind response	City Govt, Fire Svcs	Local funds & Grants	9,821 110,350	2015 2020	74



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Hazard Goal & Action	Action/Project Description	Responsibility	Funding Source	Estimated Cost/ Benefit	Start/ End Date	Priority
HW3d	Develop a debris clearance program that can be utilized citywide	City Govt Co Engineer	Existing	1,104 55,175	2015 2020	74
HW3h	Adopt/enforce legislation to control construction standards of mobile homes moved into the city.	Shelby County	Existing	1,104 275,1875	2015 2020	74
UF2h	Train fire 1 <sup>st</sup> responders to at least the "Awareness and Operations level" under OSHA 1910.120	Fire Svc	Local funds & Grants	29,243 110,350	2015 2020	74
WF2g	Identify Private 1 <sup>st</sup> responders and contractors to assist in wild-land fire response	City Govt, Fire Svcs	Local funds & Grants	1,655 55,175	2015 2020	74
AH1d	Obtain backup power systems for audible warning devices	City Govt, EMA	Local funds & Grants	55,175 220,700	2015 2020	73
AH2a	Obtain/distribute interoperable radios for all 1 <sup>st</sup> responders	Fire Svcs	Local funds & Grants	49,658 220,700	2015 2020	73
AH2e	Train 1 <sup>st</sup> responders on responding to mass casualty events	City Govt, Fire Svcs	Local funds & Grants	4,414 110,350	2015 2020	73
HW2d	Exercise a High Wind event with 1 <sup>st</sup> responders at least annually	City Govt	Local funds & Grants	6,952 110,350	2015 2020	73
UF2b	Train firefighters to obtain for state and national certifications	City Govt, Fire Svcs	Local funds & Grants	6,842 110,350	2015 2020	73
UF3f	Adopt/enforce commercial and special needs facilities sprinkler/smoke alarm legislation	City Govt, Fire Svcs	Local funds & Grants	1,104 55,175	2015 2020	73
AH1c	Obtain and/or expand warning sirens to for all uncovered areas. Transition to weather radio and notification system.	City Govt, EMA	Local funds & Grants	165,525 662,100	2015 2020	72
AH3e1	Assist non-governmental critical facilities to obtain emergency generators/pigtails	EMA, City Govt	FEMA Grants	551,750 1,103,500	2015 2020	72
AH3o1	Obtain signage to direct the public evacuation during hazard events	County Highway	Local funds & Grants	3,862 110,350	2015 2020	72
FL3l	Identify alternative access points for single access neighborhoods	City Govt Planning	Local funds	2,759 110,350	2015 2020	72
FL3m	Acquire signage to indicate water depth at flooding points	City Govt Planning	Local funds Grants	7,725 165,525	2015 2020	72
HW1g	Train citizens in weather observation in conjunction with the National Weather Service	NWS, EMA, Fire Svcs	Local funds & Grants	3,421 110,350	2015 2020	72
FL3a5	Obtain and maintain NFIP FIRMS to identify jurisdiction flood prone areas	City Govt Planning	Existing	16,533 165,525	2015 2020	71
HW1g	Develop a plan to provide weather radios to low income residents	City Govt	Local funds & Grants	16,533 165,525	2015 2020	71
WF3i	Adopt/enforce wildfire legislation that includes burning bans. Forestry and ADEM.	City Govt, Fire Svcs	Local funds & Grants	1,104 55,175	2015 2020	71
AH2d	Exercise 1 <sup>st</sup> responder and hospital Mass Casualty plans regularly.	City Govt, Fire Svcs	Local funds & Grants	5,738 110,350	2015 2020	70
AH3i1	Evaluate shelter requirements annually & add necessary shelters	City Govt, EMA, Fire Svcs	Local funds & Grants	1,048 55,175	2015 2020	70
AH3s	Obtain funds for critical government departments to develop Continuity of Operations Plans	City Govt, EMA	Local funds & Grants	25,381 220,700	2015 2020	70



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

Hazard Goal & Action	Action/Project Description	Responsibility	Funding Source	Estimated Cost/ Benefit	Start/ End Date	Priority
AH3s1	Encourage all businesses to develop Business Continuity Plans	City Govt, EMA	Existing	1,104 55,175	2015 2020	70
AH3s2	Develop strategies to prevent loss of public records	City of Chelsea	Local funds & Grants	3,521 110,350	2015 2020	70
FL3f	Identify roadways, culverts and bridges damaged by flooding	City of Chelsea	Local funds	1,104 55,175	2015 2020	70
FL3g	Update County Land Use Plan to identify areas where development should be restrictive	City Govt Planning	Local funds	11,035 165,525	2015 2020	70
FL2b	Train all 1 <sup>st</sup> responders on repetitive flooding areas and structures	City Govt, Fire Svcs	Local funds & Grants	1,048 55,175	2015 2020	69
FL3a4	Educate developers, builders and the public on the location of NFIP designated floodplains	City Govt Planning	Existing	1,104 165,525	2015 2020	69
FL3f3	Obtain/Install barriers to block flooding roadways and bridges	City Govt, County Highway	City Budget Grants	11,035 165,525	2015 2020	69
UF1d	Obtain a fire education-training trailer for the jurisdiction.	City Govt, Fire Svcs	Local funds & Grants	94,901 331,050	2015 2020	68
UF3g	Enforce legislation that fire extinguishers are clearly marked, available and regularly tested	City Govt, Fire Svcs	Local funds & Grants	1,104 165,525	2015 2020	68
WF2c	Train fire 1 <sup>st</sup> responders in wild-land fire response techniques	Fire Svcs	Local funds & Grants	3,600 220,700	2015 2020	68
FL3a1	Adopt/enforce an NFIP flood plain management plan	City Govt	Existing	1,104 275,1875	2015 2020	67
FL3a2	Adopt/enforce floodplain legislation to require structures are built above the NFIP BSE	City Govt	Existing	1,104 275,1875	2015 2020	67
HW3e	Obtain funding to build mobile home community storm shelters	City Govt, EMA	Local funds & Grants	198,630 1,103,500	2015 2020	67
WF2e	Obtain DNR compatible radios for interoperable communications.	City Govt, Fire Svcs	Local funds & Grants	23,174 110,350	2015 2020	67
AH3e	Obtain/install emergency generators or "pigtailed" for critical government facilities and fuel depots. Fire Stations 2 &3.	City of Chelsea	Local funds & Grants	16,533 165,525	2015 2020	66
UF3i	Adopt/enforce housing code legislation to limit number of citizens in sub-standard housing	City Govt,	Existing	1,104 275,1875	2015 2020	66
FL3a3	Educate builders, developers and the public on the National Flood Insurance Program (NFIP)	City Govt Planning	Existing	1,104 165,525	2015 2020	64
FL3f	Develop a storm water management plan for the jurisdiction	City Govt	Local funds Grants	27,588 275,1875	2015 2020	64
WF2f	Exercise fire response regularly for residences, businesses and industry	City Govt, Fire Svcs	Local funds & Grants	22,070 110,350	2015 2020	64
FL3e	Adopt/enforce land use flood plain wetlands and watershed zoning	City Govt Planning	Existing	1,104 165,525	2015 2020	63
FL3g	Adopt/enforce storm water legislation to reduce runoff from developments.	City Govt Planning	Local funds	1,104 165,525	2015 2020	63
WF2b	Obtain specialized equipment to combat wild-land fires.	Fire Svcs. City Govt	Local funds & Grants	5,076 220,700	2015 2020	63





## City of Chelsea All Hazards Mitigation Action Plan

Hazard Goal & Action	Action/Project Description	Responsibility	Funding Source	Estimated Cost/ Benefit	Start/ End Date	Priority
FL3i	Obtain equipment to build water flow and water retention areas to mitigate flooding	City Govt Planning	Grants Local funds	110,350 551,750	2015 2020	61
FL3f1	Install/replace/maintain culverts ditches and bridges to reduce storm water flooding	City Govt	Local funds & Grants	882,800 1,103,500	2015 2020	59
FL3f2	Obtain equipment to mitigate bridge, culverts, and roadway flooding	City Govt	Grants Local funds	110,350 551,750	2015 2020	59

"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
Encouraged citizens to develop emergency preparedness, response and recovery plans.	3	6	6	9	3	2	3	2	3	2	3	2	3	3	3	3	6	6	3	2	3	3	3	3	3	88
Obtain/install emergency generators or "pigtailed" for critical government facilities and fuel depots.	3	9	3	9	3	3	3	3	3	2	2	3	3	3	2	6	2	2	3	3	3	3	3	3	3	87
Educate the public on High Wind weather preparedness, response and recovery	3	6	4	8	3	2	3	2	3	2	3	3	3	3	3	6	6	3	3	3	3	3	3	3	3	87
Educate special needs/school/local populations on High Wind preparedness and response	3	6	4	8	3	2	3	2	3	2	3	3	3	3	3	6	6	3	3	3	3	3	3	3	3	87
Distribute High Wind preparedness information to special needs/school/local populations	3	6	4	8	3	2	3	2	3	2	3	3	3	3	3	6	6	3	3	3	3	3	3	3	3	87
Assist non-governmental critical facilities to obtain emergency generators/pigtailed	3	9	6	9	3	3	3	3	3	3	2	2	3	3	2	4	2	4	1	3	3	3	3	3	3	86
Evaluate shelter requirements annually & add necessary shelters	3	9	6	9	3	3	3	3	3	3	2	3	3	3	2	4	2	2	1	3	3	3	3	3	3	85
Develop/implement/maintain the jurisdictions Mitigation Action Plan	2	9	6	9	3	3	3	2	3	1	2	2	3	3	3	3	4	4	3	2	3	3	3	3	3	85
Educate school, special needs and the community populations on fire safety and response	3	6	4	7	3	2	3	2	3	2	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	85



**City of Chelsea  
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Educate school, special needs and the community population on fire extinguisher use	3	6	4	7	3	2	3	2	3	2	3	2	3	3	3	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	3	85
Assist fire departments in obtaining fire prevention program materials	3	6	4	7	3	2	3	2	3	2	3	2	3	3	3	3	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	85
Distribute safe room/Shelter in place information to schools/special needs and local	3	9	0	9	3	3	3	2	3	2	3	2	2	2	3	3	3	3	3	3	6	6	2	2	3	3	3	3	3	3	84	
Develop a community shelter program for mobile home parks	3	9	6	9	3	3	2	2	3	2	2	2	2	2	3	3	3	3	3	6	2	4	2	2	3	3	2	3	3	84		
Develop fire plans for all major businesses and critical facilities	2	6	6	7	3	2	3	2	2	2	3	2	2	3	3	3	3	3	3	6	6	3	3	3	3	3	3	3	3	3	84	
Educate schools/special needs/government officials on procedures for handling suspicious mail	3	9	2	3	3	2	3	2	3	2	3	2	3	3	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	3	82	
Obtain fire equipment to combat fires where water hydrants are non-existent	2	6	4	7	3	2	3	1	3	2	3	3	2	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	3	3	82	
Acquire and install six inch water mains/hydrants county wide	2	6	4	7	3	2	3	1	3	2	3	3	2	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	3	3	82	
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	2	3	3	3	3	81		
Inspect and maintain natural drainage channels to clear beaver dams and debris	2	6	6	5	2	2	2	3	2	2	2	2	2	3	3	2	6	6	6	2	3	3	3	3	3	3	3	3	3	3	81	
Adopt/enforce comprehensive Building Code legislation	2	6	6	8	3	3	2	1	3	1	2	3	2	3	3	2	4	6	3	3	3	3	3	3	3	3	3	3	3	3	81	
Maintain contact with state and federal agencies regarding biological and disease threats.	3	9	0	4	3	3	3	2	3	2	3	2	3	3	3	3	6	6	2	3	3	3	3	3	3	3	3	3	3	3	81	
Obtain/maintain fire fighting supplies at all fire departments	2	6	6	7	3	2	3	2	3	2	3	3	2	3	3	3	4	4	3	2	3	3	3	3	3	3	3	3	3	3	81	
Distribute flood awareness and preparedness literature at events	2	6	2	5	3	2	3	2	3	2	3	3	2	3	3	3	6	6	3	3	3	3	3	3	3	3	3	3	3	3	80	
Obtain PPE for all personnel responding to flood events	2	6	4	5	3	3	3	2	3	2	3	3	3	3	3	3	4	4	4	2	3	3	3	3	3	3	3	3	3	3	80	
Adopt/enforce mobile home legislation to restrict development of lots within the flood plain.	2	6	8	5	3	3	3	2	3	2	2	1	2	3	3	2	4	4	4	3	3	3	3	3	3	3	3	3	3	3	80	
Obtain/install/maintain/monitor rainfall and stream gauges to predict Local funds flooding	2	6	6	5	3	3	2	2	2	2	2	2	2	3	3	3	6	4	6	1	2	3	3	3	3	3	3	3	3	3	80	
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	3	3	3	3	79	
Develop redundancy capabilities for emergency radio communications	2	6	4	9	3	3	3	2	2	2	2	2	2	3	3	3	4	4	2	3	3	3	3	3	3	3	3	3	3	3	79	
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	3	3	3	3	79	
Ensure that 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	3	3	3	3	79	
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	3	3	3	3	79	



## City of Chelsea All Hazards Mitigation Action Plan

Encourage fire inspections to be regularly conducted at businesses and industry	2	6	6	7	3	2	3	1	2	1	3	3	2	3	3	3	4	4	3	3	3	3	3	3	79
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	3	2	3	78
Annually review and update hazard related legislation	2	3	2	9	2	2	3	3	3	2	2	2	3	3	3	6	6	2	3	3	3	3	3	3	78
Join/participate in Local funds state and federal drug task forces	3	3	2	3	3	3	3	2	3	3	3	3	3	3	3	6	6	2	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	6	6	2	3	3	3	3	3	3	78
Ensure that fire codes are rigidly enforced with citations issued for violations.	2	6	6	7	3	2	2	1	2	1	3	3	2	3	3	4	4	3	3	3	3	3	3	3	78
Educate school/special needs/local populations on preparedness for and response to a wild-land fire	3	6	2	2	3	2	3	2	3	2	3	3	3	3	3	6	6	2	3	3	3	3	3	3	78
Publish outdoor burn ban info in area newspapers during Wild-land fire seasons.	3	6	2	2	3	2	3	2	3	2	3	3	3	3	3	6	6	2	3	3	3	3	3	3	78
Participate in the National Flood Insurance Program (NFIP)	3	0	4	5	3	3	3	3	2	3	2	2	2	3	3	6	6	3	3	3	3	3	3	3	77
Participate in the NFIP Community Rating System	3	0	4	5	3	3	3	3	2	3	2	2	2	3	3	6	6	3	3	3	3	3	3	3	77
Adopt/enforce tie down and skirting legislation for mobile homes and mobile home parks	2	6	4	8	3	3	3	1	3	1	2	3	2	3	3	2	4	4	2	3	3	3	3	3	77
Train 1 <sup>st</sup> responders in search and rescue techniques	2	9	0	9	3	2	3	2	2	2	2	2	2	3	3	4	4	2	2	3	3	3	3	3	76
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	76
Educate developers on Watershed, Floodplain and wetland development restrictions	2	3	4	5	3	2	3	2	3	2	2	2	2	3	3	6	6	2	3	3	3	3	3	3	76
Train 1 <sup>st</sup> responders to respond to High Wind events	3	6	0	8	3	2	3	2	3	2	3	3	2	3	3	4	4	2	2	3	3	3	3	3	76
Obtain fire PPE for all personnel responding to fire incidents	2	6	4	7	3	2	3	2	3	2	2	2	2	3	3	4	4	2	2	3	3	3	3	3	76
Train all fire responders in fire combat techniques annually	2	6	4	7	3	2	3	2	3	2	2	2	2	3	3	4	4	2	2	3	3	3	3	3	76
Ensure that NFPA standards and codes are followed.	2	0	4	7	3	1	3	3	3	2	3	2	2	3	3	6	6	2	3	3	3	3	3	3	76
Obtain smoke detectors and provide free to residents in need.	2	6	2	7	3	3	1	1	2	1	3	3	2	3	3	2	6	6	2	3	3	3	3	3	76
Distribute wildfire awareness and prevention information to schools/businesses/local populations	3	6	2	2	3	2	3	2	3	2	3	3	3	3	3	6	6	2	3	3	2	2	2	3	75
Work with the DNR to distribute USFS fuels reduction information (Firewise.)	3	6	2	2	3	2	3	2	3	2	3	3	3	3	3	6	6	2	3	3	2	2	2	3	75
Maintain contact with the Forestry office that issues daily "fire potential" reports	3	3	2	2	3	2	3	2	3	3	3	3	2	3	3	6	6	2	3	3	3	3	3	3	75
Evaluate/maintain 1st responders emergency kits annually	2	3	0	9	3	1	3	3	2	2	2	2	2	3	3	6	6	1	3	3	3	3	3	3	74



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Train 1 <sup>st</sup> 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	3	74
Train 1 <sup>st</sup> 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	3	74
Train 1 <sup>st</sup> 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
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 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
Obtain NOAA weather radios for schools, government and special needs facilities	3	6	0	8	3	3	3	2	2	1	2	2	3	3	3	3	4	4	2	2	3	3	3	3	3	3	74
Obtain 1 <sup>st</sup> responder PPE and supplies for High Wind response	2	6	0	8	3	2	3	1	3	2	3	3	2	3	3	3	4	4	2	2	3	3	3	3	3	3	74
Develop a debris clearance program that can be utilized citywide	3	0	2	8	3	3	1	1	3	2	3	3	3	3	3	3	6	6	6	3	2	2	1	2	2	2	74
Adopt/enforce legislation to control construction standards of mobile homes moved into the city.	2	6	2	8	3	3	3	1	3	1	2	2	2	3	3	2	4	4	2	3	3	3	3	3	3	3	74
Train fire 1 <sup>st</sup> responders to at least the "Awareness and Operations level" under OSHA 1910.120	2	3	4	7	3	2	3	2	3	2	2	2	2	3	3	3	4	4	2	3	3	3	3	3	3	3	74
Identify Private 1 <sup>st</sup> responders and contractors to assist in wild-land fire response	2	3	2	2	3	1	3	3	3	3	3	3	2	3	3	3	6	6	2	3	3	3	3	3	3	3	74
Obtain backup power systems for audible warning devices	3	9	0	9	3	3	2	1	2	1	3	3	3	3	3	3	4	2	2	1	2	2	3	3	3	3	73
Obtain/distribute interoperable radios for all 1 <sup>st</sup> 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	3	73
Train 1 <sup>st</sup> 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	3	73
Exercise a High Wind event with 1 <sup>st</sup> responders at least annually	3	6	0	8	3	2	2	2	3	2	3	2	2	3	3	2	4	4	2	2	3	3	3	3	3	3	73
Train firefighters to obtain for state and national certifications	2	3	4	7	3	2	3	2	3	2	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	3	73
Adopt/enforce commercial and special needs facilities sprinkler/smoke alarm legislation	2	6	4	7	3	2	2	1	2	2	2	2	2	3	3	2	4	4	2	3	3	3	3	3	3	3	73
Educate school/businesses/local populations on the causes of wild land fires	2	6	2	2	3	2	3	2	3	2	3	3	3	3	3	3	6	6	2	3	2	2	2	2	2	3	73
Obtain and/or expand warning sirens to for all uncovered areas	3	9	0	9	3	3	2	2	3	1	3	3	3	3	3	2	4	2	2	1	2	2	2	2	2	3	72
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
Identify alternative access points for single access neighborhoods	2	3	0	5	3	2	3	3	3	3	2	2	3	3	3	3	4	6	1	3	3	3	3	3	3	3	72
Acquire signage to indicate water depth at flooding points	2	3	0	5	3	2	3	3	3	3	2	2	3	3	3	3	4	6	1	3	3	3	3	3	3	3	72
Train citizens in weather observation in conjunction with the National Weather Service	2	6	0	8	3	2	3	2	2	2	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	3	72



## City of Chelsea All Hazards Mitigation Action Plan

Obtain and maintain NFIP FIRMS to identify jurisdiction flood prone areas	2	3	4	5	3	2	3	2	2	2	2	2	2	2	3	3	3	4	4	2	3	3	3	3	3	3	71
Develop a plan to provide weather radios to low income residents	2	6	0	8	3	2	3	2	2	1	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	3	71
Adopt/enforce wildfire legislation that includes burning bans	2	6	2	2	3	3	2	1	3	1	3	3	2	3	3	2	4	6	2	3	3	3	3	3	3	3	71
Exercise 1 <sup>st</sup> 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	
Obtain funds for critical government departments to develop Continuity of Operations Plans	1	3	2	9	3	3	3	2	1	2	1	1	2	3	3	3	4	4	3	2	3	3	3	3	3	3	70
Encourage all businesses to develop Business Continuity Plans	1	3	2	9	3	3	3	2	1	2	1	1	2	3	3	3	4	4	3	2	3	3	3	3	3	3	70
Develop strategies to prevent loss of public records	1	3	2	9	3	3	3	2	1	2	1	1	2	3	3	3	4	4	3	2	3	3	3	3	3	3	70
Identify roadways, culverts and bridges damaged by flooding	3	0	2	5	3	2	3	2	2	2	2	2	2	3	3	3	6	6	1	3	3	3	3	3	3	3	70
Update County Land Use Plan to identify areas where development should be restrictive	2	3	6	5	3	2	2	3	2	2	2	2	1	3	3	1	4	4	2	3	3	3	3	3	3	3	70
Train all 1 <sup>st</sup> responders on repetitive flooding areas and structures	2	3	2	5	3	2	3	2	3	2	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	3	69
Educate developers, builders and the public on the location of NFIP designated floodplains	2	3	4	5	3	2	3	2	2	2	2	2	2	3	3	3	4	6	2	3	2	2	2	2	2	3	69
Obtain/Install barriers to block flooding roadways and bridges	2	6	2	5	3	2	2	2	2	2	2	2	2	3	3	3	4	4	1	2	3	3	3	3	3	3	69
Obtain a fire education-training trailer for the jurisdiction.	2	6	4	7	3	3	3	2	1	2	2	1	2	3	3	3	2	1	2	1	3	3	3	3	3	3	68
Enforce legislation that fire extinguishers are clearly marked, available and regularly tested	2	6	2	7	3	3	2	3	1	1	1	1	2	3	3	3	4	2	3	1	3	3	3	3	3	3	68
Train fire 1 <sup>st</sup> responders in wild-land fire response techniques	2	6	2	2	3	2	3	2	2	2	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	3	68
Adopt/enforce an NFIP flood plain management plan	2	0	4	5	3	3	2	1	2	1	2	2	1	3	3	2	4	6	3	3	3	3	3	3	3	3	67
Adopt/enforce floodplain legislation to require structures are built above the NFIP BSE	2	3	6	5	3	3	2	1	2	1	1	1	2	3	3	2	4	6	3	3	2	2	2	2	2	3	67
Obtain funding to build mobile home community storm shelters	2	6	0	8	3	3	2	2	1	2	2	2	2	3	3	2	4	2	2	1	3	3	3	3	3	3	67
Educate homeowners and businesses on wildfire fuels reduction	2	6	2	2	3	2	2	2	2	2	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	3	67
Obtain DNR compatible radios for interoperable communications.	2	6	2	2	3	2	2	2	2	2	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	3	67
Adopt/enforce housing code legislation to limit number of citizens in sub-standard housing	2	9	6	7	3	3	1	1	1	2	2	1	2	3	3	2	2	2	1	2	2	2	2	2	2	3	66
Educate builders, developers and the public on the National Flood Insurance Program (NFIP)	2	0	2	5	3	2	3	2	2	2	2	2	2	3	3	3	4	6	2	3	2	2	2	2	2	3	64
Develop a storm water management plan for the jurisdiction	2	3	2	5	3	2	2	2	2	2	2	2	2	3	3	3	4	4	2	3	2	2	2	2	3	64	



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

Exercise fire response regularly for residences, businesses and industry	2	6	2	2	3	2	2	2	2	2	2	2	2	2	3	3	2	4	4	2	2	3	3	2	2	3	64
Adopt/enforce land use flood plain wetlands and watershed zoning	2	3	4	5	3	3	2	1	2	1	2	1	1	3	3	2	4	4	3	3	2	2	2	2	2	3	63
Adopt/enforce storm water legislation to reduce runoff from developments.	2	0	2	5	3	3	2	1	2	1	2	2	2	3	3	2	4	6	3	3	2	2	2	2	3	3	63
Obtain specialized equipment to combat wild-land fires.	2	6	2	2	3	3	2	3	1	1	1	1	2	3	3	3	4	2	3	1	3	3	3	3	3	3	63
Obtain equipment to build water flow and water retention areas to mitigate flooding	2	6	6	5	3	3	1	1	1	1	2	2	2	3	3	2	2	2	2	1	2	2	2	2	2	3	61
Install/replace/maintain culverts ditches and bridges to reduce storm water flooding	2	6	4	5	3	3	1	1	1	1	2	2	2	3	3	2	2	2	2	1	2	2	2	2	2	3	59
Obtain equipment to mitigate bridge, culverts, and roadway flooding	2	6	4	5	3	3	1	1	1	1	2	2	2	3	3	2	2	2	2	1	2	2	2	2	2	3	59