

**CITY OF CHELSEA
INDIVIDUAL MITIGATION
ACTION PLAN**



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

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CITY OF CHELSEA MITIGATION ACTION PLAN

Geography/History

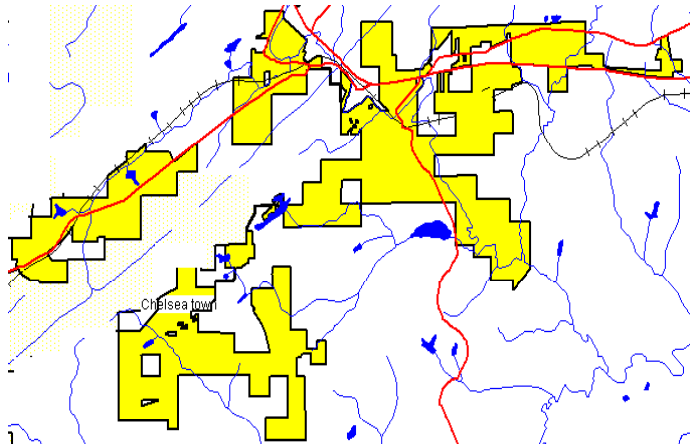
The City of Chelsea is located in north central Shelby County approximately 10 miles Southeast of Birmingham along the U.S. Hwy 280 corridor. According to the U.S. Census Bureau, the county has a total area of 810 square miles (2,097 km²), of which, 795 square miles (2,058 km²) of it is land and 15 square miles (38 km²) 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, the Indian Hills Country Club. Lakes and streams include Lenora Lake, Gizella, Lake, Little Creek and Cooper Branch (B).

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

Population and Demographics

As of the census of 2000, there were 2,949 people, 1,022 households, and 849 families residing in the city. The population density was 293.6 people per square mile (113.4/km). There were 1,091 housing units at an average density of 108.6/sq mi (42.0/km). The racial makeup of the city was 96.78% White, 0.78% Black or African American, 0.88% Native American, 0.17% Asian, 0.03% Pacific Islander, 0.58% from other races, and 0.78% from two or more races. 0.81% of the population was Hispanic or Latino of any race.



There were 1,022 households out of which 44.2% had children under the age of 18 living with them, 74.2% were married couples living together, 6.6% had a female householder with no husband present, and 16.9% were non-families. 14.0% of all households were made up of individuals and 4.1% had someone living alone who was 65 years of age or older. The average household size was 2.86 and the average family size was 3.17.

In the city the population was spread out with 29.3% under the age of 18, 7.4% from 18 to 24, 34.0% from 25 to 44, 22.1% from 45 to 64, and 7.3% who were 65 years of age or older. The median age was 34 years. For every 100 females there were 98.9 males. For every 100 females age 18 and over, there were 98.0 males.

Economy

The median income for a household in the city was \$67,083, and the median income for a family was \$72,206. Males had a median income of \$46,071 versus \$28,403 for females. The per capita income for the city was \$24,717. About 5.5% of families and 7.2% of the population were below the poverty line, including 8.4% of those under age 18 and 9.2% of those age 65 or over.

The most common occupations for males includes: Other management occupations except farmers and farm managers (10%), Computer specialists (8%), Sales representatives, services, wholesale and manufacturing (7%), Engineers (5%), Other sales and related workers including supervisors (5%), Retail sales workers except cashiers (5%), Electrical equipment mechanics and other installation, maintenance, and repair occupations including supervisors (5%).

The most common occupations for females Includes: Secretaries and administrative assistants (10%), Preschool, kindergarten, elementary and middle school teachers (8%), Other food preparation and serving workers including supervisors (7%), Other office and administrative support workers including supervisors (7%), Other sales and related workers including supervisors (7%), Child care workers (4%), Other management occupations except farmers and farm managers (4%)

Infrastructure

Chelsea government consists of a mayor and five council members. The city of Chelsea fire department consists of two stations with 60 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	Type	Enrollment
Chelsea Park	Elementary	648
Chelsea	Intermediate	308
Chelsea	Middle	652
Chelsea	High	672
Mt. Laurel	Elementary	644

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



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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	2004	Y	N	Y	Y	
Capital Improvements Plan	Annual Budget	2009		N	N	N	
Comprehensive Plan	Resolution	1998		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	
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	
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	1989		N	N	Y	
Subdivision Regulations	Zoning Ordinance	1970		N	N	Y	
Wildfire Ordinance				N	N	N	
Zoning Ordinances	Ordinance	1989		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 Chelsea Administrative And Technical Capabilities
C=County Provides, S=State Provides, F=Federal Provides



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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	25	25	25
Fire Personnel	Professional(s)	Fire Dept.	60	60	60
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	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/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	C17	C17	C17
Medical Practioners	Professional(s)	Medical Facilities	4	4	4
Public Works	Directors/Engineers	Public Works	1	1	1
Public Communication	911 specialists	E-911	C15	C15	C15
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		
	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			



	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		
Jurisdiction Bonds	Incur debt through general obligation bonds	X			
Project Funding	Capital improvement	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 st 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 st 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 st 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
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 st 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



<p>Pandemic Hazard Goal: Mitigate the impact of a Pandemic on the City of</p>	<p>Objective PD.1: Improve the City of Chelsea’s Pandemic/Vector warning and information distribution to citizens Objective PD.2: Improve the City of Chelsea’s 1st responder capabilities to prepare for and respond to Pandemic/Vector events. Objective PD.3: Improve the City of Chelsea’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 Chelsea</p>	<p>Objective WF7.1: Improve the City of Chelsea’s Wild-land Fire warning and information distribution to citizens Objective WF.2: Improve the City of Chelsea’s 1st 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</p>
<p>HAZMAT Hazard Goal: Mitigate the impact of HAZMAT events on the City of Chelsea</p>	<p>Objective HM.1: Improve the City of Chelsea’s Hazardous Materials spill or release warning and information distribution to citizens Objective HM.2: Improve the City of Chelsea’s 1st responder capabilities to prepare for and respond to Hazardous Materials spill/release events Objective HM.3: Improve the City of Chelsea’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 Chelsea</p>	<p>Objective ID.1: Improve the City of Chelsea’s Illegal Drug Laboratories warning and information distribution to citizens Objective ID.2: Improve the City of Chelsea’s 1st responder capabilities to prepare for and respond to Illegal Drug Laboratories Objective ID.3: Improve the City of Chelsea’s capability to prepare for, respond to and recover from Illegal Drug Laboratories existence</p>
<p>Terror Hazard Goal: Mitigate the impact of terrorist events on the City of Chelsea</p>	<p>Objective TR.1: Improve the City of Chelsea’s Domestic/International Terrorism warning and information distribution to citizens Objective TR.2: Improve the City of Chelsea’s 1st responder capabilities to prepare for and respond to Domestic/International Terrorism events Objective TR.3: Improve the City of Chelsea’s capability to prepare for, respond to and recover from Domestic/International Terrorism events</p>
<p>Urban Fire Hazard Goal: Mitigate the impact of Urban Fires on the City of Chelsea</p>	<p>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 1st 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</p>

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, Admistration, 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
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



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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
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**City of Chelsea
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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.	City of Chelsea	Local funds & Grants	5500 100,000	Ongoing	88
HW1b	Educate the public on High Wind weather preparedness, response and recovery	City of Chelsea, Fire Svc	Local funds & Grants	950 50,000	Ongoing	87
HW1c	Educate special needs/school/local populations on High Wind preparedness and response	City of Chelsea, Fire Svc	Local funds & Grants	950 50,000	Ongoing	87
HW1c	Distribute High Wind preparedness information to special needs/school/local populations	City of Chelsea, Fire Svc	Local funds & Grants	250 50,000	Ongoing	87
AH3p	Develop/implement/maintain the jurisdictions Mitigation Action Plan	City of Chelsea, Fire Svc	Local funds & Grants	3000 100,000	2012 2013	85
UF1a	Educate school, special needs and the community populations on fire safety and response	City of Chelsea, Fire Svc	Local funds & Grants	1,100 50,000	Ongoing	85
UF1b	Educate school, special needs and the community population on fire extinguisher use	City of Chelsea, Fire Svc	Local funds & Grants	2,800 50,000	Ongoing	85
UF1c	Assist fire departments in obtaining fire prevention program materials	City of Chelsea, Fire Svc	Local funds & Grants	1,100 50,000	Ongoing	85
AH1e	Distribute safe room/Shelter in place information to schools/special needs and local	City of Chelsea, Fire Svc	Local funds & Grants	2500 100,000	Ongoing	84
IL1a	Educate school and Local funds populations on Meth Lab awareness	Fire Dept BOE Sheriff's Office	Existing	1,000 50,000	On Going	84
UF3d	Develop fire plans for all major businesses and critical facilities	City of Chelsea, Fire Svc	Local funds & Grants	1,000 50,000	Ongoing	84
AH3x	Develop a community shelter program for mobile home parks	City of Chelsea, EMA	Local funds & Grants	180,000 1,000,000	2012 2013	83
TR1b	Educate schools/special needs/government officials on procedures for handling suspicious mail	BOE City of Chelsea, SCSO	Local funds & Grants	9,900 100,000	2012 2013	82
UF3f	Obtain fire equipment to combat fires where water hydrants are non-existent	City of Chelsea, Fire Svc	Local funds & Grants	350,000 1,000,000	2011 2012	82
UF3h	Acquire and install six inch water mains/hydrants county wide	City of Chelsea, Fire Svc	Local funds & Grants	800,000 2,000,000	2013 2014	82
AH3r	Participate in NFIP's Cooperating Technical Partners Program (CTP)	City of Chelsea	Local funds	1,000 50,000	2012 2014	81
FL3e	Inspect and maintain natural drainage channels to clear beaver dams and debris	City of Chelsea	Local funds	1,000 350,000	2010 2014	81
HM1b	Educate the public on common hazardous materials in home	City of Chelsea, Fire Svc	Local funds & Grants	2400 100,000	2010 2011	81
HM1d	Educate schools, special needs and Local funds population on hazmat evacuation	City of Chelsea, Fire Svc	Local funds & Grants	9500 100,000	2011 2012	81
HW3a	Adopt/enforce comprehensive Building Code legislation	City Govt Planning	Existing	1,000 50,000	On Going	81
PD3i	Maintain contact with state and federal agencies regarding biological and disease threats.	ADPH SCSO EMA, City Govt	Existing	1,000 50,000	On Going	81
UF2c	Obtain/maintain fire fighting supplies at all fire departments	City of Chelsea, Fire Svc	Local funds & Grants	4,100 100,000	On going	81
FL1a	Distribute flood awareness and preparedness literature at events	City of Chelsea, Fire Svc	Local funds & Grants	650 50,000	2011 2013	80

Hazard Goal & Action	Action/Project Description	Responsibility	Funding Source	Estimated Cost/ Benefit	Start/ End Date	Priority
FL2a	Obtain PPE for all personnel responding to flood events	City of Chelsea, Fire Svc	Local funds & Grants	4500 100,000	2011 2012	80
FL3c3	Adopt/enforce mobile home legislation to restrict development of lots within the flood plain.	City Govt Planning	Existing	1,000 350,000	On Going	80
FL3k	Obtain/install/maintain/monitor rainfall and stream gauges to predict Local funds flooding	City of Chelsea	Local funds & Grants	11000 150,000	2010 2011	80
HM1c	Educate schools special needs, and community populations on chemical hazards in the area.	City of Chelsea, Fire Svc	Local funds & Grants	2400 100,000	2011 2012	80
PD2e	Exercise response to a pandemic event in conjunction with the medical community	City of Chelsea, Fire Svc	Local funds & Grants	8,800 100,000	2013 2014	80
PD3a	Participate in the national Pandemic surveillance program	City Govt ADPH	Existing	1,000 50,000	On Going	80
AH3a	Adopt the National Incident Management System (NIMS)	City of Chelsea	Local funds & Grants	1,000 100,000	2009 2010	79
AH3b2	Develop redundancy capabilities for emergency radio communications	City of Chelsea, Fire Svc	Local funds & Grants	19500 100,000	2012 2013	79
AH3j	Maintain a supplier list of food, medicines, water and fuel vendors	City of Chelsea, Fire Svc	Local funds & Grants	950 50,000	2010 2011	79
AH3u	Ensure that mutual aid shelter, response, mass casualty and recovery agreements are current	City of Chelsea, Fire Svc	Local funds & Grants	1200 50,000	2011 2014	79
AH3y	Insure building code compliance Inspections are conducted on construction projects	City of Chelsea	Local funds & Grants	3,000 500,000	2010 2014	79
TR1a	Educate schools/special needs/local populations on recognizing potential terrorist events	BOE SCSO City of Chelsea	Existing	5,000 50,000	On Going	79
TR1c	Distribute terrorism awareness information to schools/special needs/public populations	SCSO City of Chelsea	Local funds & Grants	950 50,000	2012 2013	79
TR1d	Educate school/special needs/officials/ local population on terrorism preparedness info.	BOE City of Chelsea, SCSO	Local funds & Grants	1,600 50,000	2012 2013	79
TR1e	Post terrorism and bomb identification information in buildings and schools	BOE SCSO	Existing	1,000 50,000	On Going	79
TR1f	Identify/distribute to appropriate officials potential terrorism targets information	SCSO EMA	Existing	1,000 50,000	On Going	79
TR2a	Train terror response agencies on terrorist potential and county potential terrorism targets.	SCSO City Govt, Fire Svc	Local funds & Grants	1,600 50,000	2012 2013	79
UF3c	Encourage fire inspections to be regularly conducted at businesses and industry	City of Chelsea, Fire Svc	Local funds & Grants	1,000 50,000	Ongoing	79
AH1b	Schedule regular maintenance and testing of hazard warning units (Monthly Testing)	City of Chelsea, EMA	Local funds & Grants	8000 500,000	Ongoing	78
AH3t	Annually review and update hazard related legislation	City of Chelsea, Fire Svc	Local funds & Grants	500 50,000	2009 2014	78
HM1g	Establish school hazard materials environmental impact programs	BOE Fire Dept	Existing	1,000 50,000	On Going	78
HM2c	Develop/maintain hazmat SOG's/FOG's for 1 st responders	City of Chelsea, Fire Svc	Local funds & Grants	850 50,000	Ongoing	78
IL3a	Join/participate in Local funds state and federal drug task forces	City of Chelsea Sheriff's Office	Grants Local funds	1,000 50,000	On Going	78

Hazard Goal & Action	Action/Project Description	Responsibility	Funding Source	Estimated Cost/ Benefit	Start/ End Date	Priority
PD1b	Educate school/special needs/local populations on preparing and self care during a pandemic	Public Health' BOE, City Govt	Existing	1,000 50,000	On Going	78
TR3e	Support State Homeland Security strategies to counter terrorism	City of Chelsea, SCSO	Local funds & Grants	200 50,000	On going	78
TR3e1	Join and/or continue to participate in the Joint Terrorism Task Force.	City Of Chelsea, SCSO	Local funds	1,000 50,000	2010 2014	78
TR3k	Work with schools to develop terrorism preparedness and response plans	BOE Fire Svc SCSO	Existing	1,000 50,000	On Going	78
TR3m	Encourage special needs facilities to implement a security system	City Govt Fire Svc SCSO	Existing	1,000 50,000	On Going	78
TR3o	Develop evacuation plans for identified terrorism targets	City Govt, SCSO EMA	Local funds	1,000 50,000	2010 2011	78
UF3b	Ensure that fire codes are rigidly enforced with citations issued for violations.	City of Chelsea, Fire Svc	Local funds & Grants	1,000 50,000	Ongoing	78
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	1,500 100,000	Ongoing	78
WF1f	Publish outdoor burn ban info in area newspapers during Wild-land fire seasons.	City of Chelsea, Fire Svc	Local funds & Grants	1,250 100,000	2009 2014	78
FL3a	Participate in the National Flood Insurance Program (NFIP)	City Govt	Existing	1,000 150,000	On Going	77
FL3d	Participate in the NFIP Community Rating System	City of Chelsea	Local funds	1,000 150,000	2012 2014	77
HM3b	Maintain and annually update an inventory of hazmat sites.	LEPC Fire Dept	Existing	1,000 50,000	On Going	77
HM3i	Enforce S.A.R.A. Title III and Tier II company reporting of hazardous chemicals.	EMA, LEPC Fire Dept	Existing	1,000 50,000	On Going	77
HW3g	Adopt/enforce tie down and skirting legislation for mobile homes and mobile home parks	City Govt Planning	Existing	1,000 500,000	On Going	77
PD1c	Develop/distribute Pandemic preparedness information to limited English speaking residents	Public Health BOE, City Govt	Existing	1,000 50,000	On Going	77
AH2c	Train 1 st responders in search and rescue techniques	City of Chelsea, Fire Svc	Local funds & Grants	4000 100,000	2010 2011	76
AH3o	Assist businesses, schools, special needs and government facilities to post evacuation routes	City Govt BOE, Fire Svc	Local Funds Grants	1,000 50,000	On Going	76
FL3h	Educate developers on Watershed, Floodplain and wetland development restrictions	City Govt Planning	Local funds	1,000 150,000	On Going	76
HM3h	Maintain a current list of Hazardous Materials spill clean up companies available to the county	EMA LEPC Fire Dept	Existing	1,000 50,000	On Going	76
HW2c	Train 1 st responders to respond to High Wind events	City of Chelsea, Fire Svc	Local funds & Grants	1,100 50,000	2009 2012	76
PD1a	Educate the public on preparedness and self care for a Pandemic event	Public Health City Of Chelsea	Existing	1,000 50,000	On Going	76
PD1e	Assist schools in developing an infectious disease surveillance program	Public Health BOE, City Govt	Existing	1,000 50,000	On Going	76
UF2a	Obtain fire PPE for all personnel responding to fire incidents	City of Chelsea, Fire Svc	Local funds & Grants	62,500 200,000	2010 2011	76

Hazard Goal & Action	Action/Project Description	Responsibility	Funding Source	Estimated Cost/ Benefit	Start/ End Date	Priority
UF2d	Train all fire responders in fire combat techniques annually	City of Chelsea, Fire Svc	Local funds & Grants	21,000 200,000	On going	76
UF3a	Ensure that NFPA standards and codes are followed.	City Govt, Fire Svc	Existing	1,000 50,000	On Going	76
UF3k	Obtain smoke detectors and provide free to residents in need.	City of Chelsea, Fire Svc	Local funds & Grants	10,000 250,000	Ongoing	76
PD2c	Develop a list of 1 st responders for early infectious disease vaccination	City of Chelsea, Fire Svc	Local funds & Grants	2,000 50,000	Ongoing	75
WF1d	Distribute wildfire awareness and prevention information to schools/businesses/local populations	Fire Department City of Chelsea	Local funds & Grants	2,800 100,000	Ongoing	75
WF1e	Work with the DNR to distribute USFS fuels reduction information (Firewise.)	City of Chelsea, Fire Svc	Local funds & Grants	1,500 100,000	Ongoing	75
WF3g	Maintain contact with the Forestry office that issues daily "fire potential" reports	City of Chelsea, Fire Svc	Local funds & Grants	600 50,000	2010 2014	75
AH2b	Evaluate/maintain 1st responders emergency kits annually	Fire Svc.	Local funds & Grants	4200 50,000	2010 2011	74
AH2g	Train 1 st responders and officials on the National Incident Management System (NIMS)	City of Chelsea	Local funds & Grants	2600 100,000	2010 2011	74
AH2h	Train 1 st responders and officials in Emergency Operations Center Ops and the EOP	City of Chelsea, Fire Svc	Local funds & Grants	2600 100,000	2010 2011	74
AH2i	Train 1 st responders/officials in performing damage assessments.	EMA, Fire Svc	Local funds, Grants	5,000 100,000	On going	74
AH3d	Obtain additional Emergency Operations Center equipment and crisis management software	City of Chelsea	Local funds & Grants	6500 100,000	2011 2012	74
AH3k	Obtain disaster supply kits for schools/special needs facilities	City of Chelsea	Local funds & Grants	6000 100,000	2010 2012	74
HW1a	Obtain NOAA weather radios for schools, government and special needs facilities	City of Chelsea	Local funds & Grants	19,000 100,000	2011 2012	74
HW2b	Obtain 1 st responder PPE and supplies for High Wind response	City of Chelsea, Fire Svc	Local funds & Grants	8,900 100,000	2010 2011	74
HW3d	Develop a debris clearance program that can be utilized citywide	City of Chelsea Co Engineer	Existing	1,000 50,000	2009 2010	74
HW3h	Adopt/enforce legislation to control construction standards of mobile homes moved into the city.	City Govt Planning	Existing	1,000 250,000	On Going	74
UF2h	Train fire 1 st responders to at least the "Awareness and Operations level" under OSHA 1910.120	City of Chelsea	Local funds & Grants	26,500 100,000	On going	74
WF2g	Identify Private 1 st responders and contractors to assist in wild-land fire response	City of Chelsea, Fire Svc	Local funds & Grants	1,500 50,000	2009 2010	74
AH1d	Obtain backup power systems for audible warning devices	City of Chelsea, EMA	Local funds & Grants	50,000 200,000	2012 2013	73
AH2a	Obtain/distribute interoperable radios for all 1 st responders	City of Chelsea, Fire Svc	Local funds & Grants	45000 200,000	2010 2011	73
AH2e	Train 1 st responders on responding to mass casualty events	City of Chelsea, Fire Svc	Local funds & Grants	4000 100,000	2011 2012	73
HM2d	Train 1 st responders in hazardous materials response and recovery	City of Chelsea, Fire Svc	Local funds & Grants	16,000 100,000	2012 2013	73

Hazard Goal & Action	Action/Project Description	Responsibility	Funding Source	Estimated Cost/ Benefit	Start/ End Date	Priority
HW2d	Exercise a High Wind event with 1 st responders at least annually	City of Chelsea	Local funds & Grants	6,300 100,000	Ongoing	73
PD3h	Adopt/enforce Pandemic Flu legislation to cancel large public and private events	City Govt ADPH	Local funds	1,000 50,000	2009 2010	73
UF2b	Train firefighters to obtain for state and national certifications	City of Chelsea, Fire Svc	Local funds & Grants	6,200 100,000	On going	73
UF3f	Adopt/enforce commercial and special needs facilities sprinkler/smoke alarm legislation	City of Chelsea, Fire Svc	Local funds & Grants	1,000 50,000	Ongoing	73
WF1b	Educate school/businesses/local populations on the causes of wild land fires	Fire Department City of Chelsea	Local funds & Grants	2800 200,000	Ongoing	73
AH1c	Obtain and/or expand warning sirens to for all uncovered areas	City of Chelsea, EMA	Local funds & Grants	150000 600,000	2013 2014	72
AH3e1	Assist non-governmental critical facilities to obtain emergency generators/pigtails	EMA, City of Chelsea	FEMA Grants	500,000 1,000,000	2011 2012	72
AH3o1	Obtain signage to direct the public evacuation during hazard events	City of Chelsea	Local funds & Grants	3500 100,000	2012 2013	72
FL3l	Identify alternative access points for single access neighborhoods	City Govt Planning	Local funds	2,500 100,000	2010 2011	72
FL3m	Acquire signage to indicate water depth at flooding points	City Govt Planning	Local funds Grants	7,000 150,000	2010 2011	72
HM2a	Obtain PPE for all personnel responding to hazmat incidents	City of Chelsea, Fire Svc	Local funds & Grants	92,000 200,000	2012 2013	72
HW1g	Train citizens in weather observation in conjunction with the National Weather Service	City of Chelsea	Local funds & Grants	3,100 100,000	Ongoing	72
IS3d	Establish snow and ice removal methods	City Govt, Fire Svc	Existing	1,000 150,000	On Going	72
UF3j	Adopt/enforce legislation to restrict the disposal of flammable liquids and other hazardous materials	City of Chelsea	Local funds & Grants	1,000 50,000	2010 2011	72
FL3a5	Obtain and maintain NFIP FIRMS to identify jurisdiction flood prone areas	City Govt Planning	Existing	15,000 150,000	On Going	71
HM1a	Educate school populations on hazardous materials preparedness and response	City of Chelsea, Fire Svc	Local funds & Grants	1,200 100,000	2010 2012	71
HW1g	Develop a plan to provide weather radios to low income residents	City of Chelsea	Local funds & Grants	15000 150,000	Ongoing	71
IL2b	Train 1 st responders in Methamphetamine Lab chemicals	City of Chelsea, Fire Svc	Local funds & Grants	11,500 100,000	2013 2014	71
IL2c	Provide Meth Lab training to all personnel responding to Meth Labs	City of Chelsea, Fire Svc	Local funds & Grants	12,000 100,000	2013 2014	71
WF3i	Adopt/enforce wildfire legislation that includes burning bans	City of Chelsea, Fire Svc	Local funds & Grants	1,000 50,000	Ongoing	71
AH2d	Exercise 1 st responder and hospital Mass Casualty plans regularly.	City of Chelsea, Fire Svc	Local funds & Grants	5200 100,000	2010 2011	70
AH3i1	Evaluate shelter requirements annually & add necessary shelters	City of Chelsea, EMA	Local funds & Grants	950 50,000	2010 2011	70
AH3s	Obtain funds for critical government departments to develop Continuity of Operations Plans	City of Chelsea, EMA	Local funds & Grants	23,000 200,000	2011 2012	70

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	1,000 50,000	On Going	70
AH3s2	Develop strategies to prevent loss of public records	City of Chelsea	Local funds & Grants	3200 100,000	2010 2011	70
FL3f	Identify roadways, culverts and bridges damaged by flooding	City of Chelsea	Local funds	1,000 50,000	2010 2011	70
FL3g	Update County Land Use Plan to identify areas where development should be restrictive	City Govt Planning	Local funds	10,000 150,000	On Going	70
HM3b	Develop evacuation perimeters and routes for high risk hazmat sites	City of Chelsea, Fire Svc	Local funds	1,000 50,000	2010 2011	70
HM3j	Adopt/enforce hazardous materials site building setback legislation	City Govt	Existing	1,000 50,000	2011 2012	70
FL2b	Train all 1 st responders on repetitive flooding areas and structures	City of Chelsea, Fire Svc	Local funds & Grants	950 50,000	2010 2011	69
FL3a4	Educate developers, builders and the public on the location of NFIP designated floodplains	City Govt Planning	Existing	1,000 150,000	On Going	69
FL3f3	Obtain/Install barriers to block flooding roadways and bridges	City of Chelsea	City Budget Grants	10,000 150,000	2010 2011	69
IL2a	Obtain PPE for all personnel that respond to Meth Labs	City of Chelsea, Fire Svc	Local funds & Grants	6,800 50,000	2013 2014	69
Hm3e	Obtain hazmat containment equipment for water, roads/railroads	Fire Dept	Grant Local funds	100,000 300,000	2011 2012	68
TR2e	Obtain terrorism PPE for personnel responding to terrorism incidents	Fire Department	Grant Local funds	100,000 200,000	2010 2011	68
TR2f	Obtain terrorism response and control equipment and supplies	Fire Department EMA SCSSO	Grant Local funds	200,000 300,000	2010 2011	68
TR2i	Obtain CBRNE detection devices and train 1 st responders on use	EMA 1 st Responders	Grant Local funds	250,000 500,000	2010 2011	68
UF1d	Obtain a fire education-training trailer for the jurisdiction.	City of Chelsea, Fire Svc	Local funds & Grants	86,000 300,000	2011 2012	68
UF3g	Enforce legislation that fire extinguishers are clearly marked, available and regularly tested	City of Chelsea, Fire Svc	Local funds & Grants	1,000 150,000	Ongoing	68
WF2c	Train fire 1 st responders in wild-land fire response techniques	Fire Department	Local funds & Grants	3,600 200,000	Ongoing	68
FL3a1	Adopt/enforce an NFIP flood plain management plan	City Govt	Existing	1,000 250,000	2009 2014	67
FL3a2	Adopt/enforce floodplain legislation to require structures are built above the NFIP BSE	City Govt	Existing	1,000 250,000	2012	67
HM2e	Maintain an inventory of Mark I packs to respond to chemical agents	Fire Svc	Local funds	1,000 50,000	2010 2014	67
HM2f	Exercise an annual hazardous materials event with appropriate agencies and 1 st responders	Fire Department	FEMA Local funds	5,000 100,000	2010 2014	67
HM3d	Obtain monitoring equipment for high risk hazmat sites	Fire Dept	Grant Local funds	75,000 200,000	2012 2013	67
HW3e	Obtain funding to build mobile home community storm shelters	City of Chelsea, EMA	Local funds & Grants	180,000 1,000,000	2012 2013	67



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

Hazard Goal & Action	Action/Project Description	Responsibility	Funding Source	Estimated Cost/ Benefit	Start/ End Date	Priority
PD2a	Obtain infectious disease PPE for all personnel responding to a pandemic	Public Health, Fire Svc	Grants	1,000 50,000	2010 2011	67
PD2a	Obtain appropriate Pandemic personal protected equipment (PPE) and fit for 1 st responders	City of Chelsea, Fire Svc	Local funds & Grants	5,800 100,000	2010 2011	67
PD3c	Develop a traffic flow and security plan for medical dispensing sites	SCSO ADPH City Govt	Existing	1,000 50,000	On Going	67
TR2b	Train all terrorism 1 st responders in terrorism attack techniques	City of Chelsea, Fire Svc, SCSO	Local funds & Grants	950 50,000	2012 2013	67
TR2c	Train 1st responders and agencies on CBRNE response	Fire Department SCSO	Grants Local funds	10,000 100,000	2010 2011	67
TR2g	Train all appropriate 1 st responders in CBRNE agents	Fire Department SCSO	Grant Local funds	10,000 100,000	2010 2011	67
WF1a	Educate homeowners and businesses on wildfire fuels reduction	Fire Department City Govt	Existing	1,000 50,000	On Going	67
WF2e	Obtain DNR compatible radios for interoperable communications.	City of Chelsea, Fire Svc	Local funds & Grants	21,000 100,000	2010 2011	67
AH3e	Obtain/install emergency generators or "pigtailed" for critical government facilities and fuel depots.	City of Chelsea	Local funds & Grants	15000 150,000	2012 2013	66
UF3i	Adopt/enforce housing code legislation to limit number of citizens in sub-standard housing	City Govt,	Existing	1,000 250,000	On Going	66
PD2b	Train Pandemic event 1 st responders on preparedness and response actions	City of Chelsea, Fire Svc	Local funds & Grants	6,500 100,000	Ongoing	65
TR2j	Exercise a potential terrorism event with 1 st responders at least annually	EMA Fire Dept SCSO	Existing	10,000 100,000	2010 2011	65
FL3a3	Educate builders, developers and the public on the National Flood Insurance Program (NFIP)	City Govt Planning	Existing	1,000 150,000	On Going	64
FL3f	Develop a storm water management plan for the jurisdiction	City Govt	Local funds Grants	25,000 250,000	2010 2011	64
WF2f	Exercise fire response regularly for residences, businesses and industry	City of Chelsea, Fire Svc	Local funds & Grants	20,000 100,000	Ongoing	64
FL3e	Adopt/enforce land use flood plain wetlands and watershed zoning	City Govt Planning	Existing	1,000 150,000	On Going	63
FL3g	Adopt/enforce storm water legislation to reduce runoff from developments.	City Govt Planning	Local funds	1,000 150,000	On Going	63
Hm2b	Obtain hazmat detecting equipment for 1 st responders	City of Chelsea, Fire Svc	Local funds & Grants	10,000 100,000	2011 2013	63
HM3c	Develop/maintain a citywide hazard materials response plan	LEPC EMA	Grant Local funds	15,000 100,000	2010 2011	63
WF2b	Obtain specialized equipment to combat wild-land fires.	Fire Svc City of Chelsea	Local funds & Grants	4,600 200,000	2012 2013	63
TR2d	Establish and equip a CBRNE team to respond to incidents in the city.	Fire Detent	Grant Local funds	100,000 200,000	2010 2011	62
FL3i	Obtain equipment to build water flow and water retention areas to mitigate flooding	City Govt Planning	Grants Local funds	100,000 500,000	2013 2014	61
HM3a	Create a GIS Maps of hazmat sites to display ERG established zones	City of Chelsea	Local funds & Grants	4500 100,000	2010 2012	60

Hazard Goal & Action	Action/Project Description	Responsibility	Funding Source	Estimated Cost/ Benefit	Start/ End Date	Priority
PD3d	Exercise infectious disease events in conjunction with in Strategic National Stockpile drills	ADPH EMA 1 st Responders	Grants Local funds	5,000 100,000	2010 2011	60
FL3f1	Install/replace/maintain culverts ditches and bridges to reduce storm water flooding	City of Chelsea	Local funds & Grants	800,000 1,000,000	Ongoing	59
FL3f2	Obtain equipment to mitigate bridge, culverts, and roadway flooding	City of Chelsea	Grants Local funds	100,000 500,000	2012 2013	59
HM2g	Acquire and equip a hazardous materials response vehicle	Fire Dept, EMA	Grant Local funds	100,000 300,000	2010 2011	58

"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	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	3	4	2	2	1	2	2	3	3	3	73
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	3	3	3	6	6	2	2	3	3	3	3	3	84
Encouraged citizens to develop emergency preparedness, response and recovery plans.	3	6	6	9	3	2	3	2	3	2	3	3	2	3	3	3	6	6	3	2	3	3	3	3	3	88
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



**City of Chelsea
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Train 1 st responders on responding to mass casualty events	2	6	0	9	3	2	3	2	2	2	2	2	2	2	3	3	3	4	4	2	2	3	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	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	3	74	
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 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	79	
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 and fuel depots.	3	3	4	9	3	3	2	2	2	1	2	2	2	3	3	3	2	2	2	1	2	2	2	2	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 & 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 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 jurisdictions Mitigation Action Plan	2	9	6	9	3	3	3	2	3	1	2	2	2	3	3	3	4	4	3	2	3	3	3	3	3	3	85	
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	1	3	2	9	3	3	3	2	1	2	1	1	1	2	3	3	3	4	4	3	2	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	1	2	3	3	3	4	4	3	2	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	1	2	3	3	3	4	4	3	2	3	3	3	3	3	70	
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 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	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	



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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
Educate school populations on hazardous materials preparedness and response	2	6	2	6	3	2	3	2	2	2	2	2	3	3	3	4	4	1	2	3	3	3	3	3	3	3	71
Educate the public on common hazardous materials in home	3	6	2	6	3	2	3	2	3	2	2	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	81
Educate schools special needs, and community populations on chemical hazards in the area.	2	6	2	6	3	2	3	2	3	2	2	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	80
Educate schools, special needs and Local funds population on hazmat evacuation	3	6	2	6	3	2	3	2	3	2	2	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	81
Establish school hazard materials environmental impact programs	3	6	0	6	3	2	3	2	3	2	2	3	3	3	3	3	6	6	1	3	3	3	3	3	3	3	78
Obtain PPE for all personnel responding to hazmat incidents	2	6	2	6	3	2	3	2	2	2	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	3	72
Obtain hazmat detecting equipment for 1 st responders	1	3	2	6	3	2	3	2	1	1	2	2	2	3	3	3	4	4	2	1	3	3	2	2	3	3	63
Develop/maintain hazmat SOG's/FOG's for 1 st responders	2	6	2	6	3	2	3	1	3	1	3	3	2	3	3	3	6	6	2	3	3	3	3	3	3	3	78
Train 1 st responders in hazardous materials response and recovery	2	6	2	6	3	2	3	2	2	2	3	2	2	3	3	3	4	4	2	2	3	3	3	3	3	3	73
Maintain an inventory of Mark I packs to respond to chemical agents	2	3	0	6	3	2	3	1	2	2	3	2	2	3	3	3	4	4	1	3	3	3	3	3	3	3	67
Exercise an annual hazardous materials event with appropriate agencies and 1 st responders	2	6	2	6	3	2	2	2	2	2	2	2	2	3	3	2	4	4	2	2	3	2	2	2	3	3	67
Acquire and equip a hazardous materials response vehicle	2	3	2	6	3	3	3	2	1	1	1	1	1	3	3	3	2	2	2	1	3	3	2	2	3	3	58
Create a GIS Maps of hazmat sites to display ERG established zones	2	0	0	6	3	2	3	2	2	1	1	2	2	3	3	3	2	4	2	2	3	3	3	3	3	3	60
Develop evacuation perimeters and routes for high risk hazmat sites	2	0	0	6	3	2	3	2	3	2	2	2	2	3	3	3	6	6	2	3	3	3	3	3	3	3	70
Maintain and annually update an inventory of hazmat sites.	2	6	4	6	3	2	3	2	3	2	2	2	2	3	3	3	6	4	2	2	3	3	3	3	3	3	77
Develop/maintain a citywide hazard materials response plan	1	6	2	6	3	3	2	3	1	1	1	1	2	3	3	3	4	2	2	1	3	3	2	2	3	3	63
Obtain monitoring equipment for high risk hazmat sites	2	6	4	6	3	3	2	2	1	2	1	1	2	3	3	2	4	2	2	1	3	3	3	3	3	3	67
Obtain hazmat containment equipment for water, roads/railroads	2	3	4	6	3	3	3	2	2	2	2	2	2	3	3	3	4	1	2	1	3	3	3	3	3	3	68
Maintain a current list of Hazardous Materials spill clean up companies available to the county	2	0	2	6	3	2	3	2	3	3	3	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	76
Enforce S.A.R.A. Title III and Tier II company reporting of hazardous chemicals.	2	6	2	6	3	2	3	1	3	2	3	3	3	3	3	3	4	6	3	3	3	3	2	2	3	3	77
Adopt/enforce hazardous materials site building setback legislation	1	6	2	6	3	3	2	1	2	1	2	1	1	3	3	2	4	6	3	3	3	3	3	3	3	3	70
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



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Obtain appropriate Pandemic personal protected equipment (PPE) and fit for 1 st responders	2	6	0	4	3	2	3	2	2	1	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	3	67
Train Pandemic event 1 st responders on preparedness and response actions	2	3	0	4	3	2	3	2	2	2	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	3	65
Develop a list of 1 st responders for early infectious disease vaccination	2	3	0	4	3	2	3	3	3	3	3	3	2	3	3	3	6	6	2	3	3	3	3	3	3	3	75
Exercise response to a pandemic event in conjunction with the medical community	2	6	0	4	3	3	3	3	3	3	3	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	80
Participate in the national Pandemic surveillance program	2	6	0	4	3	3	3	3	3	3	3	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	80
Develop a traffic flow and security plan for medical dispensing sites	2	0	0	4	3	2	2	2	2	2	3	2	3	3	3	3	6	6	1	3	3	3	3	3	3	3	67
Exercise infectious disease events in conjunction with in Strategic National Stockpile drills	2	3	0	4	3	2	2	2	2	2	2	2	2	3	3	2	4	4	2	2	3	2	2	2	3	60	
Adopt/enforce Pandemic Flu legislation to cancel large public and private events	2	6	0	4	3	2	2	2	3	2	2	2	3	3	3	2	6	6	2	3	3	3	3	3	3	3	73
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	81
Educate schools/special needs/local populations on recognizing potential terrorist events	3	6	2	3	3	2	3	2	3	2	3	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	79
Educate schools/special needs/government officials on procedures for handling suspicious mail	3	9	2	3	3	2	3	2	3	2	3	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	82
Distribute terrorism awareness information to schools/special needs/public populations	3	6	2	3	3	2	3	2	3	2	3	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	79
Educate school/special needs/officials/ local population on terrorism preparedness info.	3	6	2	3	3	2	3	2	3	2	3	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	79
Post terrorism and bomb identification information in buildings and schools	3	6	2	3	3	2	3	2	3	2	3	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	79
Identify/distribute to appropriate officials potential terrorism targets information	3	6	2	3	3	2	3	2	3	2	3	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	79
Train terror response agencies on terrorist potential and county potential terrorism targets.	3	6	2	3	3	2	3	2	3	2	3	3	3	3	3	3	6	6	2	3	3	3	3	3	3	3	79
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



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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	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	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	78	
Work with schools to develop 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	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	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	78	
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	3	6	6	2	3	3	3	3	3	3	85	
Educate school, special needs and the community population on fire extinguisher use	3	6	4	7	3	2	3	2	3	2	3	3	3	3	3	3	6	6	2	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	3	3	3	3	3	6	6	2	3	3	3	3	3	3	85	
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	68	
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	3	4	4	2	2	3	3	3	3	3	76	
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	73	
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	81	
Train all fire responders in fire combat techniques annually	2	6	4	7	3	2	3	2	3	2	2	2	2	3	3	3	4	4	2	2	3	3	3	3	3	76	
Train fire 1 st 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	74	
Ensure that NFPA standards and codes are followed.	2	0	4	7	3	1	3	3	3	2	3	2	2	3	3	3	6	6	2	3	3	3	3	3	3	76	
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	3	4	4	3	3	3	3	3	3	3	78	
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	3	79	
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	6	6	3	3	3	3	3	3	3	84	
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	73	
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	6	6	2	3	3	3	3	3	3	82	



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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	68
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	6	6	2	3	3	3	3	3	3	82
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	2	1	2	2	2	2	3	66
Adopt/enforce legislation to restrict the disposal of flammable liquids and other hazardous materials	2	6	0	7	3	3	2	1	2	1	2	2	2	3	3	2	6	6	1	3	3	3	3	3	3	72
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	3	76
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	67
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	3	73
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	3	6	6	2	3	3	3	3	3	3	78
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	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	3	6	6	2	3	3	2	2	2	3	75
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	3	6	6	2	3	3	3	3	3	3	78
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	63
Train fire 1 st 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	68
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	67
Exercise fire response regularly for residences, businesses and industry	2	6	2	2	3	2	2	2	2	2	2	2	2	3	3	2	4	4	2	2	3	3	2	2	3	64
Identify Private 1 st 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	74
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	3	6	6	2	3	3	3	3	3	3	75
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	71