

Appendix VI-2 Action Packet

Type	Action Reference Number	Action	Severe Winter Weather	Flood	Drought	Wind	Wildfire	Landslide/Land Subsidence	Terrorism
Education & Outreach	1	VDOT 511 System	X	X					
Education & Outreach	2	Weather Related Hazards Education	X	X	X	X			
Education & Outreach	3	Hazardous Conditions Road Warning System	X	X				X	
Education & Outreach	4	National Weather Service Storm Ready Program Application	X	X		X			
Education & Outreach	5	VDOT Coordination Between Divisions Meetings	X	X		X		X	
Education & Outreach	6	Weather Alert Radio System	X	X		X			
Education & Outreach	7	Mitigating flood prone buildings		X					
Education & Outreach	8	Drought Mitigation - Education on alleviating conditions			X				
Education & Outreach	9	Dry Hydrant Installation - Location Optimization					X		
Education & Outreach	10	Money for Wildfire Mitigation					X		
Education & Outreach	11	Training on the importance of maintaining Right of Ways				X			
Information & Data Development	12	VDOT 511 System - Monitoring Conditions	X	X					
Information & Data Development	14	Monitor Road Cleanup Following Hazard Events	X	X		X	X	X	
Information & Data Development	15	National Weather Service Storm Ready Data Collection	X	X		X			
Information & Data Development	16	VDOT Coordination - Landslide Vulnerability						X	
Information & Data Development	17	VDOT Coordination of Steep Slope Roads	X						
Information & Data Development	18	Floodplain Updates and Assessment of What's At Risk		X					
Information & Data Development	19	VDOT Communication of Dangerous Roads	X	X					
Information & Data Development	20	Undergrowth Cleaning/ Prescribed Burns - VDOF & local collaboration					X		
Policy & Planning	21	VDOT 511 System - Government Coordination	X	X					
Policy & Planning	22	National Weather Service Storm Ready Operations Plan	X	X		X			
Policy & Planning	23	VDOT Coordination and Communication Between Divisions	X	X		X		X	
Policy & Planning	24	Establish building codes for flood prone areas		X					
Policy & Planning	25	Building Code Enforcement		X					

Type	Action Reference Number	Action	Severe Winter Weather	Flood	Drought	Wind	Wildfire	Landslide/Land Subsidence	Terrorism
Policy & Planning	26	Drought Mitigation - Voluntary restrictions			X				
Policy & Planning	27	Drought Mitigation - Water Permits			X				
Policy & Planning	28	Drought Mitigation - Water Control Board			X				
Policy & Planning	29	Undergrowth Cleaning/ Prescribed Burns					X		
Policy & Planning	30	Update Building Codes to Address impacts of wind related events				X			
Policy & Planning	31	Building Code Enforcement of Wind Standards				X			
Structural Mitigation	32	Maintaining Critical Facilities during Power Disruptions.	X	X		X			X
Structural Mitigation	33	Utility Line Protection	X			X			
Structural Mitigation	34	Evaluate and establish adequate drainage systems		X					
Structural Mitigation	35	Retrofitting Flood prone Buildings		X					
Structural Mitigation	36	Drought Mitigation - Agriculture Watering Locations			X				
Structural Mitigation	37	Drought Mitigation - Techniques			X				
Structural Mitigation	38	Optimizing Dry Hydrant Installation					X		
Structural Mitigation	39	Mitigating Wind Prone Buildings				X			
Structural Mitigation	40	Monitoring and Maintain areas near Right of Ways				X			
Structural Mitigation	41	VDOT Coordination with Maintaining Right of Ways				X			
Policy & Planning	42	Integrating Human Caused Hazards into EOPs							X

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Sections 3 and 4

Responsible Organizations/Communities:

Local Emergency Planning Committees (LEPCs)

VDOT

Action Timeline:

2005-2007

Estimated Cost to Complete Action:

< \$5,000

Potential Funding Sources:

Local Community Training Budgets

VDEM and FEMA Planning Funds (PDM/HMGP)

Potential Contacts:

Local Emergency Planning Committees (LEPCs)

Reference Links:

<http://www.epa.gov/ceppo/lepclist.htm>

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

Title of Action:

2. Weather-Related Hazards Education

Communities Involved:

Type of Action:

- | | |
|--|--|
| <input type="checkbox"/> Structural Mitigation | <input type="checkbox"/> Information & Data Development |
| <input type="checkbox"/> Policy & Planning | <input checked="" type="checkbox"/> Education & Outreach |

Hazards Addressed in Action:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Severe Winter Weather | <input type="checkbox"/> Wildfire |
| <input checked="" type="checkbox"/> Flood | <input type="checkbox"/> Landslide/Land Subsidence |
| <input checked="" type="checkbox"/> Drought | <input type="checkbox"/> Terrorism |
| <input checked="" type="checkbox"/> Wind | <input type="checkbox"/> Earthquake |

Action Description:

Develop programs for educating citizens within the region about prevalent weather-related hazards to increase their awareness, preparation, and plan of action during the events. This can be done in coordination with the National Weather Service or VDEM officials. Some examples include:

* Winter Weather: Driving Safety

* Flood: Building Codes, Flood-Proofing, Floodplain Awareness, Driving Safety

* Drought: Conservation Strategies, Water Use, Crop & Livestock Management

* Wind: Building Codes, Wind-Proofing, Tree & Property Management

There should also be an educational coordination set up with insurance companies to inform citizens on what hazards a given policy covers.

Proposed Mitigation Actions

HIRA Reference include section number(s):

Sections 3; 4; 5; 6

Responsible Organizations/Communities:

Action Timeline:

2005 -2007

Estimated Cost to Complete Action:

< \$5,000

Potential Funding Sources:

Local Community Training Budgets
VDEM and FEMA Planning Funds (PDM/HMGP)

Potential Contacts:

Emergency Responders, Fire & Rescue Departments, Insurance Companies
National Weather Service

Reference Links:

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Sections 3; 4; 8

Responsible Organizations/Communities:

Local Emergency Planning Committees (LEPCs)

Action Timeline:

2005-2010

Estimated Cost to Complete Action:

<\$20,000

Potential Funding Sources:

Federal Transportation Grants

Potential Contacts:

LEPCs

Reference Links:

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

Title of Action:

4. National Weather Service (NWS) Storm Ready Program Application

Communities Involved:

Type of Action:

- | | |
|--|--|
| <input type="checkbox"/> Structural Mitigation | <input type="checkbox"/> Information & Data Development |
| <input type="checkbox"/> Policy & Planning | <input checked="" type="checkbox"/> Education & Outreach |

Hazards Addressed in Action:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Severe Winter Weather | <input type="checkbox"/> Wildfire |
| <input checked="" type="checkbox"/> Flood | <input type="checkbox"/> Landslide/Land Subsidence |
| <input type="checkbox"/> Drought | <input type="checkbox"/> Terrorism |
| <input checked="" type="checkbox"/> Wind | <input type="checkbox"/> Earthquake |

Action Description:

Storm Ready is a National Weather Service (NWS) run program available for participating counties and communities to prepare and assist clients with communication and safety skills needed to save lives and property before and during weather related disasters. The program works closely with community leaders and emergency managers to strengthen local safety programs, planning, education, and awareness. Actions for this component of the Storm Ready process would be to bring county and community officials and emergency managers together to inform them about the program and discuss the advantages of becoming "Storm Ready." This will also involve brainstorming ways to improve weather related hazard education and increase public awareness of the events.

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Sections 3; 4; 6

Responsible Organizations/Communities:

LEPCs

Action Timeline:

2005-2007

Estimated Cost to Complete Action:

\$0

Potential Funding Sources:

Potential Contacts:

Local NWS Warnings Coordination Meteorologist (WCM)

<http://www.stormready.noaa.gov/stormmaps/va-cwa.htm>

Reference Links:

<http://www.nws.noaa.gov/stormready/>

<http://www.erh.noaa.gov/er/rnk/>

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Sections 3; 4; 6; 8

Responsible Organizations/Communities:

LEPCs

VDOT

Action Timeline:

2005 - 2007

Estimated Cost to Complete Action:

\$0

Potential Funding Sources:

Federal Transportation Grants

Potential Contacts:

LEPCs

Reference Links:

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

Title of Action:

6. Weather Alert Radio System

Communities Involved:

Type of Action:

- | | |
|--|--|
| <input type="checkbox"/> Structural Mitigation | <input type="checkbox"/> Information & Data Development |
| <input type="checkbox"/> Policy & Planning | <input checked="" type="checkbox"/> Education & Outreach |

Hazards Addressed in Action:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Severe Winter Weather | <input type="checkbox"/> Wildfire |
| <input checked="" type="checkbox"/> Flood | <input type="checkbox"/> Landslide/Land Subsidence |
| <input type="checkbox"/> Drought | <input type="checkbox"/> Terrorism |
| <input checked="" type="checkbox"/> Wind | <input type="checkbox"/> Earthquake |

Action Description:

The National Weather Service provides a weather forecast and warning radio system called the "Weather Alert Radio System." This action would provide weather alert radios to schools and other critical public facilities within the region for warning, education, and awareness purposes. This would involve coordinating with the National Weather Service to establish partnerships to provide weather radio access to these special facilities and then contacting the facility representatives to let them know that this weather alert system is available.

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Sections 3; 4; 6

Responsible Organizations/Communities:

LEPCs

Action Timeline:

2005-2007

Estimated Cost to Complete Action:

Potential Funding Sources:

NWS

Potential Contacts:

Local NWS Warning Coordinator

Reference Links:

<http://www.nws.noaa.gov/nwr/>

<http://www.nws.noaa.gov/nwr/resources/nwr.pdf>

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Section 3

Responsible Organizations/Communities:

LEPCs

Action Timeline:

2005-2007

Estimated Cost to Complete Action:

<\$5,000

Potential Funding Sources:

Local Community Training Budgets
VA Department of Conservation & Recreation

Potential Contacts:

VA DCR

Reference Links:

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Sections 5 & 7

Responsible Organizations/Communities:

Action Timeline:

2005-2007

Estimated Cost to Complete Action:

Potential Funding Sources:

Potential Contacts:

Southeast Rural Community Assistance Projects

Reference Links:

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

Title of Action:

9. Dry Hydrant Installation - Location Optimization

Communities Involved:

Type of Action:

- | | |
|--|--|
| <input type="checkbox"/> Structural Mitigation | <input type="checkbox"/> Information & Data Development |
| <input type="checkbox"/> Policy & Planning | <input checked="" type="checkbox"/> Education & Outreach |

Hazards Addressed in Action:

- | | |
|--|--|
| <input type="checkbox"/> Severe Winter Weather | <input checked="" type="checkbox"/> Wildfire |
| <input type="checkbox"/> Flood | <input type="checkbox"/> Landslide/Land Subsidence |
| <input type="checkbox"/> Drought | <input type="checkbox"/> Terrorism |
| <input type="checkbox"/> Wind | <input type="checkbox"/> Earthquake |

Action Description:

(See Dry Hydrant Installation Hazard Mitigation Plan for details about dry hydrants.) This program would be used to disseminate information on dry hydrant installation and their benefits. The program would focus on the education of those that are determined to be the most able to benefit from dry hydrants, such as those living in woodland communities. These people could be determined by studies dedicated to the determination of areas most susceptible to wildfire damage, including consideration of distance to the nearest water source, and travel time to the nearest fire station.

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Section 5; Fig. 12 - Drought Vulnerability Map

Responsible Organizations/Communities:

Action Timeline:

Estimated Cost to Complete Action:

Potential Funding Sources:

VDOF grants (Virginia Dry Hydrant Grant Program),
local communities, property owners, local fire departments

Potential Contacts:

A list of local fire departments and their contact information
can be found at: <http://cms.firehouse.com> (under FH network,
Virginia, FD Profiles/Links, Virginia, View FDs by Munic)

Reference Links:

VDOF webpage describing dry hydrants:
<http://www.dof.virginia.gov/coned/index.shtml>

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

Title of Action:

10. Money for Mitigation (existing VDOF program)

Communities Involved:

Type of Action:

- | | |
|--|--|
| <input type="checkbox"/> Structural Mitigation | <input type="checkbox"/> Information & Data Development |
| <input type="checkbox"/> Policy & Planning | <input checked="" type="checkbox"/> Education & Outreach |

Hazards Addressed in Action:

- | | |
|--|--|
| <input type="checkbox"/> Severe Winter Weather | <input checked="" type="checkbox"/> Wildfire |
| <input type="checkbox"/> Flood | <input type="checkbox"/> Landslide/Land Subsidence |
| <input type="checkbox"/> Drought | <input type="checkbox"/> Terrorism |
| <input type="checkbox"/> Wind | <input type="checkbox"/> Earthquake |

Action Description:

Publicize the VDOF's Money for Mitigation Program and use existing wildfire maps to prioritize areas in the RC.

Financial assistance to reduce fire hazards has been established at VDOF. The program provides 50/50 cost share funds to reduce wildfire fuels. Citizen's groups and homeowner's assn's are eligible applicants. This action attempts to provide education to potential beneficiaries of the Money for Mitigation program.

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Drought - Section 5

Wildfire - Section 7

Responsible Organizations/Communities:

LEPCs

Action Timeline:

Estimated Cost to Complete Action:

2005-2006

Potential Funding Sources:

Virginia Department of Forestry

Potential Contacts:

Region 2000 RC and local emergency management

agencies

Reference Links:

VDOF: www.vdof.org

Proposed Mitigation Actions

HIRA Reference include section number(s):

Responsible Organizations/Communities:

LEPCs

VDOT

Action Timeline:

Estimated Cost to Complete Action:

<\$2,000

Potential Funding Sources:

Potential Contacts:

Reference Links:

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

Title of Action:

12. VDOT 511 System - Monitoring Conditions

Communities Involved:

Type of Action:

- | | |
|--|--|
| <input type="checkbox"/> Structural Mitigation | <input checked="" type="checkbox"/> Information & Data Development |
| <input type="checkbox"/> Policy & Planning | <input type="checkbox"/> Education & Outreach |

Hazards Addressed in Action:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Severe Winter Weather | <input type="checkbox"/> Wildfire |
| <input checked="" type="checkbox"/> Flood | <input type="checkbox"/> Landslide/Land Subsidence |
| <input type="checkbox"/> Drought | <input type="checkbox"/> Terrorism |
| <input type="checkbox"/> Wind | <input type="checkbox"/> Earthquake |

Action Description:

Develop ways of monitoring winter weather and flood conditions that impact roads within the region and methods of coordination with VDOT, the State Police, and NWS to keep the 511 information network updated. This might include such things as determining optimal locations for VDOT cameras along major highway or road sections to track congestion and weather conditions in real time, or placing instrumentation along road networks to monitor road surface conditions.

Proposed Mitigation Actions

HIRA Reference include section number(s):

Section 3; 4

Responsible Organizations/Communities:

LEPCs

VDOT

Action Timeline:

Estimated Cost to Complete Action:

Potential Funding Sources:

Potential Contacts:

Reference Links:

<http://www.511virginia.org/>

<http://www.virginiadot.org/>

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Sections 3; 4; 6; 7; 8

Responsible Organizations/Communities:

Action Timeline:

Estimated Cost to Complete Action:

Potential Funding Sources:

Federal Transportation Grants

Potential Contacts:

Reference Links:

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

Title of Action:

15. National Weather Service (NWS) Storm Ready Data Collection

Communities Involved:

Type of Action:

- | | |
|--|--|
| <input type="checkbox"/> Structural Mitigation | <input checked="" type="checkbox"/> Information & Data Development |
| <input type="checkbox"/> Policy & Planning | <input type="checkbox"/> Education & Outreach |

Hazards Addressed in Action:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Severe Winter Weather | <input type="checkbox"/> Wildfire |
| <input checked="" type="checkbox"/> Flood | <input type="checkbox"/> Landslide/Land Subsidence |
| <input type="checkbox"/> Drought | <input type="checkbox"/> Terrorism |
| <input checked="" type="checkbox"/> Wind | <input type="checkbox"/> Earthquake |

Action Description:

To become a part of the Storm Ready network, a community must have the capability to monitor meteorological and hydrometeorological data and warn their citizens of imminent weather related hazards. This includes: warning reception devices such as the NOAA Weather Radio, Emergency Management Weather Information Network Receiver, access to weather Radar data, instrumentation to monitor local weather and hydrologic conditions, and warning media outlets (Radio, Television). This action will look into ways of attaining the required data and information outlets and the resources that need to be utilized or developed to facilitate these monitoring and communication processes. This action will also involve collecting and analyzing necessary information to develop and administer a formal hazardous weather operation plan.

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Section 3

Responsible Organizations/Communities:

LEPCs

Action Timeline:

2005-2010

Estimated Cost to Complete Action:

Potential Funding Sources:

Potential Contacts: Hendricus Lulof (540) 552-0084 Hendricus.Lulpfs@noaa.gov
Local NWS Warnings Coordination Meteorologist (WCM)
<http://www.stormready.noaa.gov/stormmaps/va-cwa.htm>

Reference Links:

<http://www.nws.noaa.gov/stormready/>

<http://www.erh.noaa.gov/er/rnk/>

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Section 8

Responsible Organizations/Communities:

LEPC

VDOT

Action Timeline:

Estimated Cost to Complete Action:

Potential Funding Sources:

Federal Transportation Grants

Potential Contacts:

USGS/VDOT/VDEM

Reference Links:

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Section 3

Responsible Organizations/Communities:

LEPCs

VDOT

Action Timeline:

Estimated Cost to Complete Action:

<\$10,000

Potential Funding Sources:

Potential Contacts:

VT CGIT

Reference Links:

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Section 4

Responsible Organizations/Communities:

Local Floodplain Managers

Action Timeline:

Estimated Cost to Complete Action:

Potential Funding Sources:

VA DCR

FEMA/VDEM

Potential Contacts:

VA DCR

Reference Links:

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Sections 3; 4

Responsible Organizations/Communities:

LEPC

VDOT

Action Timeline:

Estimated Cost to Complete Action:

Potential Funding Sources:

Federal Transportation Grants

Potential Contacts:

Reference Links:

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

Title of Action:

20. Undergrowth Cleaning / Prescribed Burns - VDOF/local
department collaboration

Communities Involved:

Type of Action:

- | | |
|--|--|
| <input type="checkbox"/> Structural Mitigation | <input checked="" type="checkbox"/> Information & Data Development |
| <input type="checkbox"/> Policy & Planning | <input type="checkbox"/> Education & Outreach |

Hazards Addressed in Action:

- | | |
|--|--|
| <input type="checkbox"/> Severe Winter Weather | <input checked="" type="checkbox"/> Wildfire |
| <input type="checkbox"/> Flood | <input type="checkbox"/> Landslide/Land Subsidence |
| <input type="checkbox"/> Drought | <input type="checkbox"/> Terrorism |
| <input type="checkbox"/> Wind | <input type="checkbox"/> Earthquake |

Action Description:

The combined resources and knowledge of local fire departments and the Virginia Department of Forestry (VDOF) could be used as the two work together on prescribed burns. VDOF's experience and knowledge of prescribed burns would work in conjunction with the local departments' knowledge of the area, and allow a system of prescribed burns to be enacted. In addition, the local fire department would be charged with managing all data involved; including the specific details of each burn.

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Section 7

Responsible Organizations/Communities:

Action Timeline:

Estimated Cost to Complete Action:

Potential Funding Sources:

Virginia Department of Forestry; local governments

Potential Contacts:

VDOF; local departments such as Amherst Fire Department,
Bedford Co. Fire and Rescue, Appomattox Volunteer Fire
Co., and Lynchburg Fire and EMS

Reference Links:

A list of local fire departments can be found at <http://cms.firehouse.com>
Virginia Department of Forestry: www.vdof.org

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Sections 3 & 4

Responsible Organizations/Communities:

VDOT

LEPCs

Action Timeline:

2005-2007

Estimated Cost to Complete Action:

Potential Funding Sources:

Potential Contacts:

Reference Links:

<http://www.511virginia.org/>

<http://www.virginiadot.org/>

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

Title of Action:

22. National Weather Service (NWS) Storm Ready Operation Plan

Communities Involved:

Type of Action:

- | | |
|---|---|
| <input type="checkbox"/> Structural Mitigation | <input type="checkbox"/> Information & Data Development |
| <input checked="" type="checkbox"/> Policy & Planning | <input type="checkbox"/> Education & Outreach |

Hazards Addressed in Action:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Severe Winter Weather | <input type="checkbox"/> Wildfire |
| <input checked="" type="checkbox"/> Flood | <input type="checkbox"/> Landslide/Land Subsidence |
| <input type="checkbox"/> Drought | <input type="checkbox"/> Terrorism |
| <input checked="" type="checkbox"/> Wind | <input type="checkbox"/> Earthquake |

Action Description:

There are population-based guidelines that a county or community must meet before it can be considered "Storm Ready," which are listed here:

http://www.stormready.noaa.gov/guideline_chart.htm

Actions for this mitigation strategy include evaluating the current status of each locality that should be in the program to determine which guidelines are already met and develop ways of enhancing policies and resources available to the locality to reach all other necessary requirements and begin the Storm Ready application process. This action also involves developing a formal hazardous weather operation plan for each locality.

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Sections 3; 4; 6

Responsible Organizations/Communities:

Action Timeline:

Estimated Cost to Complete Action:

Potential Funding Sources:

Potential Contacts:

Local NWS Warnings Coordination Meteorologist (WCM)

<http://www.stormready.noaa.gov/stormmaps/va-cwa.htm>

Reference Links:

<http://www.nws.noaa.gov/stormready/>

<http://www.erh.noaa.gov/er/rnk/>

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Sections 3; 4; 6; 8

Responsible Organizations/Communities:

VDOT

Action Timeline:

Estimated Cost to Complete Action:

Potential Funding Sources:

Potential Contacts:

Reference Links:

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Section 4

Responsible Organizations/Communities:

Local Floodplain Manager

Action Timeline:

2005-2007

Estimated Cost to Complete Action:

Potential Funding Sources:

Potential Contacts:

Reference Links:

HIRA Reference include section number(s):

Section 4

Responsible Organizations/Communities:

Local floodplain coordinators

Action Timeline:

Estimated Cost to Complete Action:

Potential Funding Sources:

Potential Contacts:

VA DCR / VDEM

Reference Links:

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Section 5

Responsible Organizations/Communities:

Action Timeline:

Estimated Cost to Complete Action:

Potential Funding Sources:

Virginia Department of Forestry

Potential Contacts:

Reference Links:

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Responsible Organizations/Communities:

LEPCs

VDOF

Action Timeline:

Estimated Cost to Complete Action:

Potential Funding Sources:

Virginia Department of Forestry

Potential Contacts:

Reference Links:

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

Title of Action:

28. Drought Mitigation - Water Control Board

Communities Involved:

Region 2000 RC

Type of Action:

- | | |
|---|--|
| <input type="checkbox"/> Structural Mitigation | <input type="checkbox"/> Information & Data Development |
| <input checked="" type="checkbox"/> Policy & Planning | <input checked="" type="checkbox"/> Education & Outreach |

Hazards Addressed in Action:

- | | |
|--|--|
| <input type="checkbox"/> Severe Winter Weather | <input type="checkbox"/> Wildfire |
| <input type="checkbox"/> Flood | <input type="checkbox"/> Landslide/Land Subsidence |
| <input checked="" type="checkbox"/> Drought | <input type="checkbox"/> Terrorism |
| <input type="checkbox"/> Wind | <input type="checkbox"/> Earthquake |

Action Description:

Implement water conservation awareness programs
in coordination with the State Water Control Board,
as outlined in Ex Order 39. This orders states, but not
limited to, cooperation with local and regional
government agencies to establish water
conservation and economic development.

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Responsible Organizations/Communities:

Action Timeline:

Estimated Cost to Complete Action:

Potential Funding Sources:

Potential Contacts:

Steven A. Dietrich Regional Director 540-562-6762
sadietrich@deq.virginia.gov

Thomas Henderson Regional Director 434-582-5120, ext. 6020
tlhenderson@deq.virginia.gov

Reference Links:

<http://www.deq.virginia.gov/cboards/homepage.html#water>

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

Title of Action:

29. Undergrowth Cleaning / Prescribed Burns

Communities Involved:

Type of Action:

- | | |
|---|---|
| <input type="checkbox"/> Structural Mitigation | <input type="checkbox"/> Information & Data Development |
| <input checked="" type="checkbox"/> Policy & Planning | <input type="checkbox"/> Education & Outreach |

Hazards Addressed in Action:

- | | |
|--|--|
| <input type="checkbox"/> Severe Winter Weather | <input checked="" type="checkbox"/> Wildfire |
| <input type="checkbox"/> Flood | <input type="checkbox"/> Landslide/Land Subsidence |
| <input type="checkbox"/> Drought | <input type="checkbox"/> Terrorism |
| <input type="checkbox"/> Wind | <input type="checkbox"/> Earthquake |

Action Description:

Routine cleaning of underbrush and dead trees eliminates a major fuel source for wildfires. Carefully planned burns can clean a forest at ground level while leaving the trees themselves unharmed. In addition, in the case of a wildfire, undergrowth and dead vegetation burn much hotter than living vegetation. Local fire departments would likely control the burns, with planning assistance from local or state forestry agencies, such as VDOF.

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Section 7

Responsible Organizations/Communities:

Action Timeline:

Estimated Cost to Complete Action:

Potential Funding Sources:

Virginia Department of Forestry; local governments

Potential Contacts:

VDOF; local departments such as Amherst Fire Department,
Bedford Co. Fire and Rescue, Appomatox Volunteer Fire
Co., and Lynchburg Fire and EMS

Reference Links:

www.vdof.org

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Section 6

Responsible Organizations/Communities:

Local zoning officials

Action Timeline:

Estimated Cost to Complete Action:

Potential Funding Sources:

Potential Contacts:

Reference Links:

Proposed Mitigation Actions

HIRA Reference include section number(s):

Section 6

Responsible Organizations/Communities:

Action Timeline:

Estimated Cost to Complete Action:

Potential Funding Sources:

Potential Contacts:

Reference Links:

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Sections 3; 4; 6; 9

Responsible Organizations/Communities:

LEPCs

Action Timeline:

Estimated Cost to Complete Action:

Potential Funding Sources:

VDEM and FEMA Planning Funds (PDM/HMGP)

Potential Contacts:

Reference Links:

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Sections 3 and 6

Responsible Organizations/Communities:

Action Timeline:

Estimated Cost to Complete Action:

Potential Funding Sources:

Potential Contacts:

Reference Links:

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Responsible Organizations/Communities:

Action Timeline:

Estimated Cost to Complete Action:

Potential Funding Sources:

Potential Contacts:

VA DCR

Reference Links:

HIRA Reference include section number(s):

Section 4

Responsible Organizations/Communities:

VA DCR

Action Timeline:

Estimated Cost to Complete Action:

Variable - depending on flood proofing technique implemented.

Potential Funding Sources:

VDEM and FEMA Funds (HMGP)

Potential Contacts:

Reference Links:

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

Title of Action:

36. Drought Mitigation - Agriculture Watering Locations

Communities Involved:

Type of Action:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Structural Mitigation | <input type="checkbox"/> Information & Data Development |
| <input type="checkbox"/> Policy & Planning | <input type="checkbox"/> Education & Outreach |

Hazards Addressed in Action:

- | | |
|--|--|
| <input type="checkbox"/> Severe Winter Weather | <input type="checkbox"/> Wildfire |
| <input type="checkbox"/> Flood | <input type="checkbox"/> Landslide/Land Subsidence |
| <input checked="" type="checkbox"/> Drought | <input type="checkbox"/> Terrorism |
| <input type="checkbox"/> Wind | <input type="checkbox"/> Earthquake |

Action Description:

Drought mitigation in the agriculture sector would require
listing watering locations for local livestock, as well as
establishing water hauling programs for livestock.
For crops, issue emergency irrigation permits for using
state waters for irrigation.

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Section 5

Responsible Organizations/Communities:

Action Timeline:

Estimated Cost to Complete Action:

Potential Funding Sources:

Potential Contacts:

Reference Links:

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

Title of Action:

37. Drought Mitigation - Techniques

Communities Involved:

Type of Action:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Structural Mitigation | <input type="checkbox"/> Information & Data Development |
| <input type="checkbox"/> Policy & Planning | <input type="checkbox"/> Education & Outreach |

Hazards Addressed in Action:

- | | |
|--|--|
| <input type="checkbox"/> Severe Winter Weather | <input type="checkbox"/> Wildfire |
| <input type="checkbox"/> Flood | <input type="checkbox"/> Landslide/Land Subsidence |
| <input checked="" type="checkbox"/> Drought | <input type="checkbox"/> Terrorism |
| <input type="checkbox"/> Wind | <input type="checkbox"/> Earthquake |

Action Description:

Promote drought relief techniques such as stockpile pumps, pipes, water filters, and other equipment, establish water hauling programs for livestock, list livestock watering locations, and establish a hay hotline.

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Responsible Organizations/Communities:

Action Timeline:

Estimated Cost to Complete Action:

Potential Funding Sources:

Potential Contacts:

Reference Links:

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

Title of Action:

38. Optimizing Dry Hydrant Installation

Communities Involved:

Type of Action:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Structural Mitigation | <input type="checkbox"/> Information & Data Development |
| <input type="checkbox"/> Policy & Planning | <input type="checkbox"/> Education & Outreach |

Hazards Addressed in Action:

- | | |
|--|--|
| <input type="checkbox"/> Severe Winter Weather | <input checked="" type="checkbox"/> Wildfire |
| <input type="checkbox"/> Flood | <input type="checkbox"/> Landslide/Land Subsidence |
| <input type="checkbox"/> Drought | <input type="checkbox"/> Terrorism |
| <input type="checkbox"/> Wind | <input type="checkbox"/> Earthquake |

Action Description:

In rural areas where there are no water lines, dry hydrants provide a water source for fire trucks. Placing one dry hydrant for every 3 square miles of land would likely allow a fire truck to fill up their tank with no more than 6 minutes travel time to a fire, assuming a 35 mph driving speed.

A water body of at least the size of two football fields and at least 3 feet deep is needed. Hydrants are relatively inexpensive and easy to maintain.

Dry hydrants would be concentrated in those areas deemed most vulnerable to wildfire (see Section 5 in HIRA).

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Section 5; Fig. 12 - Drought Vulnerability Map

Responsible Organizations/Communities:

Action Timeline:

Estimated Cost to Complete Action:

The excavation is cost-effective and simple (1-2 day job); but
the water level must be reduced to allow implementation;
which can cost several thousand dollars

Potential Funding Sources:

VDOF grants (Virginia Dry Hydrant Grant Program),
local communities, property owners, local fire departments

Potential Contacts:

A list of local fire departments and their contact information
can be found at: <http://cms.firehouse.com> (under FH network,
Virginia, FD Profiles/Links, Virginia, View FDs by Munic)

Reference Links:

VDOF webpage describing dry hydrants:
<http://www.dof.virginia.gov/coned/index.shtml>

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

HIRA Reference include section number(s):

Section 4

Responsible Organizations/Communities:

Local floodplain manager

Action Timeline:

Estimated Cost to Complete Action:

Potential Funding Sources:

VDEM and FEMA grants

Potential Contacts:

Reference Links:

Proposed Mitigation Actions

HIRA Reference include section number(s):

Section 6

Responsible Organizations/Communities:

Action Timeline:

Estimated Cost to Complete Action:

Potential Funding Sources:

Potential Contacts:

Reference Links:

Proposed Mitigation Actions

HIRA Reference include section number(s):

Section 6

Responsible Organizations/Communities:

Action Timeline:

Estimated Cost to Complete Action:

Potential Funding Sources:

Potential Contacts:

Reference Links:

Region 2000 Regional Commission Hazard Mitigation Plan
Proposed Mitigation Actions

Title of Action:

42. Integrating Human-Caused Hazards in Emergency Operations Plans

Communities Involved:

Type of Action:

- | | |
|---|---|
| <input type="checkbox"/> Structural Mitigation | <input type="checkbox"/> Information & Data Development |
| <input checked="" type="checkbox"/> Policy & Planning | <input type="checkbox"/> Education & Outreach |

Hazards Addressed in Action:

- | | |
|--|--|
| <input type="checkbox"/> Severe Winter Weather | <input type="checkbox"/> Wildfire |
| <input type="checkbox"/> Flood | <input type="checkbox"/> Landslide/Land Subsidence |
| <input type="checkbox"/> Drought | <input checked="" type="checkbox"/> Terrorism |
| <input type="checkbox"/> Wind | <input type="checkbox"/> Earthquake |

Action Description:

FEMA uses the term "Human-caused hazards" to address those hazards that are primarily due to the actions of people. This includes hazards of a chemical, biological, radiological, and explosive nature.

Local community Emergency Operations Plans (EOPs) address these hazards at different levels. This proposed mitigation action would evaluate current EOPs for Region 2000 and determine if coverage of human-caused hazards is adequate or needs expansion.

Proposed Mitigation Actions

HIRA Reference include section number(s):

Section 9

Responsible Organizations/Communities:

Local Emergency Planning Committees (LEPCs)

Action Timeline:

2005-2007

Estimated Cost to Complete Action:

\$5,000 - \$10,000 additional as part of normal EOP update costs

Potential Funding Sources:

Community EOP Update Budget

VDEM and FEMA Planning Funding (PDM, HMGP)

Potential Contacts:

LEPCs Chairs

Reference Links:
