

# Region 2000 Hazard Mitigation Plan

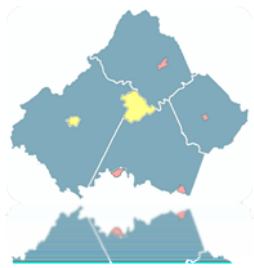


## Participating Jurisdictions:

Altavista, Town of	Appomattox, Town of	Campbell County
Amherst County	Bedford County	Lynchburg City
Amherst, Town of	Bedford City	Pamplin City, Town of
Appomattox County	Brookneal, Town of	

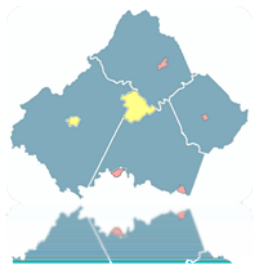
*This report was funded by the Federal Emergency Management Agency through the Virginia Department of Emergency Management.*

*Developed and published by Region 2000 Staff.*



## Table of Contents

<b>Executive Summary .....</b>	<b>7</b>
Authority .....	8
Jurisdictions.....	8
Participation .....	9
<b>Introduction .....</b>	<b>11</b>
Plan Organization .....	12
<b>Community Profiles.....</b>	<b>13</b>
Summary of changes .....	13
Region 2000.....	13
Amherst County.....	15
National Flood Insurance Program .....	15
Land Use.....	15
Appomattox County.....	16
National Flood Insurance Program .....	16
Land Use.....	17
Bedford City.....	18
National Flood Insurance Program .....	18
Land Use.....	18
Bedford County .....	19
National Flood Insurance Program .....	19
Land Use.....	19
Campbell County .....	20
National Flood Insurance Program .....	20
Land Use.....	21
Lynchburg City .....	22
National Flood Insurance Program .....	22
Land Use.....	22
Plan Linkage .....	23

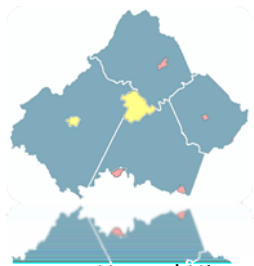


**Planning Process ..... 24**

Summary of Changes ..... 24  
Project Management Team..... 24  
Timetable of meetings ..... 25  
Project management team meetings ..... 26  
Public Input ..... 26  
Development of the Plan ..... 27  
Comprehensive Plans..... 27  
Stormwater Management Plans..... 28  
Emergency Operations Plans ..... 28  
Multi-Jurisdictional Plan Adoption ..... 28  
Plan Linkage ..... 28

**Hazard Identification and Risk Assessment (HIRA) ..... 29**

Summary of Changes: ..... 29  
Purpose of HIRA..... 30  
Regional Information ..... 31  
Watersheds ..... 32  
Critical Facilities ..... 33  
Data Limitations ..... 34  
Hazard Identification ..... 35  
    Types of Hazards..... 35  
    Probability of Hazards..... 36  
    Major Disasters..... 36  
  
Mapping Considerations ..... 39  
    Level of Hazard Mapping ..... 39  
    Problem Spot Mapping ..... 39  
  
Severe Winter Storm (High Ranking) ..... 41  
    Hazard History ..... 41  
    Hazard Profile..... 41  
    Predictability and Frequency..... 41  
    North Eastern Snowfall Impact Scale (NESIS)..... 43  
    Ice Potential ..... 44  
    Steep Slopes ..... 45  
    Vulnerability Analysis..... 45  
  
Flooding (High Ranking) ..... 48



Hazard History ..... 48

Hazard Profile ..... 48

Flood Maps ..... 48

Vulnerability Analysis ..... 49

FEMA-Designated Repetitive Loss Properties ..... 50

Structures at Risk-Vulnerability ..... 52

Estimating Losses ..... 53

Problem Spot Mapping ..... 56

Critical Facilities ..... 56

Dams ..... 57

Drought (High Ranking) ..... 61

    Hazard History ..... 61

    Hazard Profile ..... 61

    Vulnerability Analysis ..... 62

Hurricane Wind (Medium Ranking) ..... 65

    Hazard History ..... 65

    Hazard Profile ..... 65

    Hurricane Damage Scale ..... 66

    Vulnerability Analysis ..... 68

    Building Types ..... 68

    Critical Facilities ..... 69

    Loss Estimation ..... 69

    Problem Spot Mapping ..... 71

Tornado Wind (Medium Ranking) ..... 72

    Hazard History ..... 72

    Hazard Profile ..... 72

    Vulnerability Analysis ..... 74

Wildfire (Medium Ranking) ..... 75

    Hazard History ..... 75

    Hazard Profile ..... 76

    Vulnerability Analysis ..... 77

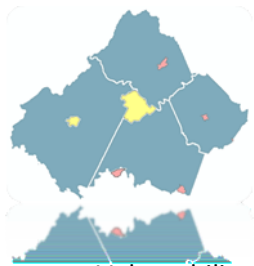
    Department of Forestry ..... 77

Landslide and Land Subsidence (Low Ranking) ..... 79

    Hazard History ..... 79

    Hazard Profile ..... 80

    Hazard Areas ..... 82



Vulnerability Analysis..... 82

Problem Spot Mapping ..... 82

Terrorism (Low Ranking)..... 83

    Hazard History ..... 83

    Hazard Profile..... 83

    Hazard Areas ..... 83

    Vulnerability Analysis..... 83

Earthquakes..... 84

    Hazard Profile..... 84

    Hazard History ..... 84

    Vulnerability Analysis..... 84

Plan Linkage ..... 86

**Mitigation ..... 87**

Summary of Changes ..... 87

Purpose of Mitigation ..... 87

Vision and Goals ..... 87

Action Development..... 88

Mitigation Actions ..... 90

    Community Ranking..... 90

    Regional Actions ..... 91

    Jurisdictional Actions ..... 91

    Mitigation Strategy for Localities with Repetitive Loss Properties ..... 93

Capability Assessment ..... 93

Administrative Capability..... 94

    Departmental Descriptions ..... 97

Technical Capability ..... 99

Fiscal Capability ..... 100

Floodplain Management..... 101

Comprehensive Plans..... 103

Stormwater Management Plans..... 103

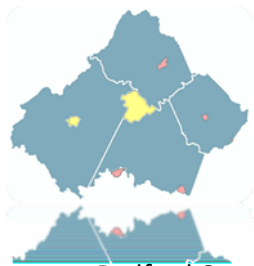
Emergency Operations Plans ..... 103

Plan Incorporation ..... 105

    Amherst County (including the Town of Amherst)..... 105

    Appomattox County (including Town of Appomattox and Town of Pamplin City) ..... 105

    Bedford City..... 106



Bedford County ..... 106

Lynchburg City ..... 109

Legal Capability..... 109

    Dillon Rule ..... 109

    Regulation ..... 110

    Land Use..... 110

    Planning ..... 110

    Zoning ..... 111

    Subdivision Regulation..... 111

    Floodplain Regulation ..... 111

    Building Codes and Building Inspection..... 112

    Acquisition..... 112

    Taxation ..... 112

    Spending ..... 113

**Implementation and Plan Maintenance ..... 115**

Summary of Changes ..... 115

Adoption ..... 115

Tracking Incorporation of the Plan into Local Planning Processes..... 116

Monitoring Progress ..... 117

Evaluating the Plan ..... 117

Plan Update..... 118

Prioritization..... 118

Funding Opportunities ..... 119

Continued Public Involvement ..... 119

Conclusions ..... 120