

## **Appendix E – Record of Changes**

The following is a record of the changes made to the 2011 Richmond-Crater Multi-Regional Hazard Mitigation Plan for the purposes of updating for use in 2017.

2016 Plan Section	Heading Section	Changes Made
SECTION I. EXECUTIVE SUMMARY	Intro 1.1 Hazard Identification and Risk Assessment 1.2 Capability Assessment 1.3 Mitigation Strategy 1.4 Plan Maintenance 1.5 Conclusions	Minor edits Edits and updated table 1.1 summarizing hazard ranking Edits and updated summary table 1.2 on local mitigation capacity self-assessment Edits - major overhaul of Plan Mitigation Goals to track with Central VA Emergency Management Alliance goals Updated using CVEMA and HMTAC as leadership during maintenance period - change from CV UASI which was disbanded due to lack of continued DHS UASI funding No substantive changes
SECTION II. INTRODUCTION	2.1 Mitigation 2.2 The Local Mitigation Planning Impetus 2.3 Organization of the Plan	Stakeholder communities refreshed, Figure 2.1 map of regional added. Condensed history of legislative and regulatory federal mitigation planning requirements Updated plan organization; explained redacting of critical facilities data
SECTION III. PLANNING PROCESS	Introduction 3.1 The Hazard Mitigation Technical Advisory Committee (HMTAC) 3.2 Public Participation and Stakeholder Input 3.3 Incorporation of Existing Plans and Studies 3.4 Method and Schedule for Keeping the Plan Current	Refreshed; added Figure 3.1 planning process flow chart Explained organization and representation of HMTAC; updated HMTAC Table 3.1 members' names, locality, agencies, position titles. Added Table 3.2 Regional Mitigation & Resiliency Partners; Table 3.3 HMTAC Meeting Summary; and Table 3.4 Summary Jurisdiction Participation in the Plan Update Process. Updated to reflect public outreach comment meetings, social media and traditional news release outreach. Updated to list major plans and datasets used in update. Specific information references in Sections 4.0, 5.0 and 6.0 and are documented in Section 9.0 References. References Section 8.0 Plan Maintenance
SECTION IV. COMMUNITY PROFILE	4.1 Introduction 4.2 Physiography 4.3 Hydrology 4.4 Climate	Updated Introduction to reflect new 2015 VA Census data. Corrected the directions of surrounding counties and rivers. No Change No Change

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SECTION IV. COMMUNITY PROFILE	4.5 Land Use and Development Trends 4.6 Population 4.7 Housing 4.8 Business and Labor 4.9 Transportation 4.10 Infrastructure	Updated to reflect land use as of the publication date of each community's Comprehensive Plan. Updated sections and Table 4.1 to reflect new 2015 TIGER Census data. Updated section to reflect current estimates from the 2015 TIGER Census data. Updated section with new data and updated list of major regional employers by County and large cities. Updated Section with edits. Updated Section with edits.
SECTION V. HIRA	5.1 Critical Facilities 5.2 Land Cover and Use 5.3 Data Limitations 5.4 Hazard Identification 5.5 Major Disasters 5.6 Flooding	Critical Facilities data redacted per HMTAC direction; located in Appendix G - Critical Facilities (redacted) No change. Some relevant material is covered in sections 4.2, 4.3 and 4.5. Updated. Section 5.4.2 table of consideration and hazard level changed with supplemental text. & Section 5.4.3 table of HIRA sources and analysis updated. Added Tables about Presidentially declared disasters based on type and occurrence in county from 2010-2016 with supplemental text. Older disaster tables located in Appendix B - HIRA. Section 5.6.4 Hazard History table updated to 2011-2016 with previous occurrences sent to Appendix B-3. Table of occurrences and damages updated for 1993-2016 with supplemental text. & Section 5.6.7 NFIP participants, policies, and claims tables and dates updated with supplemental text. Section 5.6.9 annualized flood events and losses table updated with supplemental text. Flood analysis for all jurisdictions except Colonial Heights performed using FEMA TEIF 2.0 methodology. Colonial Heights flood analysis performed using HAZUS because building footprint data was not available.

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SECTION V. HIRA	5.7 Wind (including Hurricanes and Thunderstorms)	Tornadoes made into new separate section. & Section 5.7.3 Hazard History table updated to 2011-2016 with previous occurrences sent to Appendix B-3. Virginia State Hazard Mitigation Plan updated to 2013 plan. Plan's Hurricanes track figure revised. Table of annualized hurricane events and losses 1993-2016 changed with supplemental text updated. Table of annualized wind events and losses 1956-2016 changed with supplemental text updated based on updated analysis.
	5.8 Tornadoes	Section 5.8.3 Hazard History table updated to 2011-2016 with previous occurrences sent to Appendix B-3. Tables of annualized tornado events and losses 1950-2016 and touchdowns by Fujita Rating 1950-2016 updated with supplemental text and revised figures.
	5.9 Thunderstorms (including Hail and Lightning)	Section 5.9.3 Hazard History table updated to 2010-2016 with previous occurrences sent to Appendix B-3. & Section 5.9.4 Annualized Thunderstorm events and losses 1956-2016 updated with supplemental text and revised figures.
	5.10 Winter Weather	Section 5.10.3 Hazard History table updated to 2010-2016 with previous occurrences sent to Appendix B-3. & Section 5.10.5 Tables of Weather service alerts, alert types, and annualized events and losses 1993-2016 were updated/added with supplemental text changed/added.
	5.11 Droughts and Extreme Heat	Section 5.11.3 Hazard History table updated to 1976-2016 because of such few significant drought events occurred during plan update period. Section 5.11.4 Table of annualized drought events and losses 1993-2016 was updated with supplemental text and revised figures.
	5.12 Mass Evacuation	Updated.
	5.13 Wildfires	Section 5.13.3 Number of wildfires per year was updated with VDOF supplemental text changed to match. & Section 5.13.4 table of wildfire events and losses updated to 1995-2016 with supplemental text. Figure update. VDOF stopped tracking loss data in 2010 so full loss analysis was limited.
	5.14 Landslides	Data and text updated.
	5.15 Land Subsidence / Karst /Sinkholes	Data and text updated.
	5.16 Earthquakes	Data and text updated.
	5.17 Hazard Identification and Risk Assessment	Data and text updated.

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SECTION VI. CAPABILITY ASSESSMENT	<p>6.1 Introduction</p> <p>6.2 Staff and Organizational Capability</p> <p>6.3 Technical Capability</p> <p>6.4 Fiscal Capability</p> <p>6.5 Policy and Program Capability</p> <p>6.6 Legal Authority</p> <p>6.7 Summary</p>	<p>Minor edits</p> <p>Updated Key Departments Table 6.2 Key Staff Responsible for mitigation based on capability survey and one-on-one jurisdiction interviews.</p> <p>Updated Table 6.2 Summary Technical Capability Matrix; complete Matrix table in new Appendix I - Capability Assessment</p> <p>Budget figures updated. Updated Table 6.3 Fiscal Capability Matrix with available data.</p> <p>Updated based on locality surveys to include program highlights in mitigation, emergency operations planning, floodplain management.</p> <p>Updated based on on-line research and returned jurisdiction capability assessment surveys.</p> <p>Updated Mitigation Capability Self-Assessment Table based on returned jurisdictional capability assessment surveys. It should be noted that many town functions are performed by county staff or departments through an MOA with the town.</p>
SECTION VII. MITIGATION STRATEGIES	<p>7.1 Setting Mitigation Goals</p> <p>7.2 Selecting Mitigation Action</p> <p>7.3 Developing a Mitigation Action Plan</p> <p>7.4 Selecting Mitigation Actions</p>	<p>2010 goals replaced by HMTAC with CVEMA goals + one hazard reduction-specific goal.</p> <p>Edited to reflect prioritization processes.</p> <p>Updated.</p> <p>Updated with 2017 - 2022 mitigation actions.</p>
SECTION VIII. PLAN MAINTENANCE	<p>8.1 Formal Plan Adoption</p> <p>8.2 Implementation</p> <p>8.3 Maintenance</p>	<p>Minor edits</p> <p>Minor edits</p> <p>Table added</p>