

A decorative graphic on the right side of the page. It features three blue circles of different sizes, each composed of three concentric rings in varying shades of blue. Two thin, light blue diagonal lines intersect the circles. One line runs from the top left towards the bottom right, passing behind the circles. Another line runs from the top right towards the bottom left, passing in front of the circles.

# **Athens County Hazard Mitigation Plan 2019**

Part of a Multi-Jurisdictional Program to Make  
Athens County Safer for its Citizens

## **Purpose Statement**

**The Athens County Multi-jurisdictional Natural Hazards Mitigation Plan identifies local hazard mitigation goals and objectives, and specific mitigation actions to implement over the long term that will result in reduction in risk and potential for future losses associated with the occurrence of natural hazards.**

**The participating entities developed a mitigation action plan that will be adopted and implemented by each participating community. This Plan was produced to reduce the impact of natural hazards on citizens, infrastructure, private property, and critical facilities through a combined effort of communities, institutions, and residents.**

## Table of Contents

<b>Chapter 1 – Introduction and the Mitigation Planning Process.....</b>	<b>1</b>
<b>1.1 Background for Mitigation Planning.....</b>	<b>1</b>
<b>1.2 Purpose .....</b>	<b>2</b>
<b>1.3 Athens County – Profile.....</b>	<b>2</b>
<b>1.3.1 History, Culture, and Physiography .....</b>	<b>2</b>
<b>1.4 Overview of Natural Hazards Mitigation Planning .....</b>	<b>5</b>
<b>1.4.1 General Plan Requirements and Process.....</b>	<b>5</b>
<b>1.4.2 Previous Natural Hazard Mitigation Plans.....</b>	<b>6</b>
<b>1.5 The Planning Process for 2019 .....</b>	<b>9</b>
<b>1.5.1 Background .....</b>	<b>9</b>
<b>1.5.2 Organizing.....</b>	<b>10</b>
<b>1.5.3 Outreach .....</b>	<b>10</b>
<b>1.6 Relationship to other community, regional, and state plans .....</b>	<b>12</b>
<b>1.6.1 Community Overview and Capabilities by Jurisdiction.....</b>	<b>12</b>
<b>1.6.1.1 Albany .....</b>	<b>13</b>
<b>1.6.1.2 Amesville .....</b>	<b>13</b>
<b>1.6.1.3 Athens City .....</b>	<b>14</b>
<b>1.6.1.4 Athens County Unincorporated .....</b>	<b>15</b>
<b>1.6.1.5 Buchtel.....</b>	<b>16</b>
<b>1.6.1.6 Chauncey.....</b>	<b>16</b>
<b>1.6.1.7 Coolville.....</b>	<b>16</b>
<b>1.6.1.8 Glouster .....</b>	<b>16</b>
<b>1.6.1.9 Jacksonville.....</b>	<b>17</b>
<b>1.6.1.10 Nelsonville .....</b>	<b>17</b>
<b>1.6.1.11 Trimble .....</b>	<b>17</b>
<b>1.6.2 Buckeye Hills Regional Council.....</b>	<b>18</b>
<b>1.6.3 State of Ohio Draft Hazard Mitigation Plan 2019.....</b>	<b>18</b>
<b>Chapter 2 - Hazards Analysis and Risk Assessment.....</b>	<b>20</b>
<b>2.1 Hazards Background.....</b>	<b>20</b>
<b>2.2 Natural Hazard Profiles .....</b>	<b>22</b>
<b>2.2.1 Dam/Levee Failure .....</b>	<b>22</b>
<b>2.2.2 Drought .....</b>	<b>27</b>

2.2.3 Earthquake .....	28
2.2.4 Extreme Cold .....	30
2.2.5 Extreme Heat.....	31
2.2.6 Flooding .....	33
2.2.6.1 Flooding (Flash) .....	34
2.2.6.2 Flooding (Riverine).....	35
2.2.7 Freezing Rain/Ice Storm .....	37
2.2.8 Hail.....	38
2.2.9 High Wind.....	39
2.2.10 Invasive Species.....	40
2.2.11 Landslide/Rockfall .....	42
2.2.12 Land Subsidence.....	45
2.2.13 Thunderstorm and Lightning .....	46
2.2.14 Tornado .....	47
2.2.15 Wildfire.....	50
2.2.16 Winter Storm/Blizzard .....	52
2.3 Risk Assessment by Jurisdiction.....	53
2.3.1 Background .....	53
2.3.2 Scenarios and Assumed Impacts from Hazards.....	54
2.3.2.1 Dam Failure.....	54
2.3.2.2 Drought.....	55
2.3.2.3 Earthquake.....	56
2.3.2.4 Extreme Cold .....	57
2.3.2.5 Extreme Heat.....	57
2.3.2.6 Flooding (Flash) .....	57
2.3.2.7 Flooding (Riverine).....	58
2.3.2.8 Freezing Rain/Ice Storm .....	58
2.3.2.9 Hail.....	58
2.3.2.10 High Winds .....	58
2.3.2.11 Invasive Species.....	59
2.3.2.12 Landslide/Rockfall .....	59
2.3.2.13 Land Subsidence (Mines) .....	60
2.3.2.14 Thunderstorm/Lightning.....	60

2.3.2.15 Tornado .....	61
2.3.2.16 Wildfire .....	61
2.3.2.17 Winter Storms/Blizzard .....	61
2.3.3 Albany Village .....	62
2.3.4 Amesville Village .....	66
2.3.5 Athens City .....	70
2.3.6 Athens County (unincorporated).....	75
2.3.7 Buchtel Village .....	80
2.3.8 Chauncey Village .....	84
2.3.9 Coolville Village.....	88
2.3.10 Glouster Village .....	92
2.3.11 Jacksonville Village .....	96
2.3.12 Nelsoville City.....	100
2.3.13 Trimble Village .....	104
2.4 Future Potential Areas of Risk.....	108
2.4.1 Future Growth .....	108
2.4.2 Harmful Algal Bloom (HAB).....	108
2.4.3 Hydraulic Fracturing.....	109
2.4.4 Climate Change .....	109
Chapter 3 - Mitigation Plan .....	114
3.1 Background on Mitigation Strategies .....	114
3.1.1 Foundations.....	114
3.1.2 Goals .....	115
3.2 Mitigation Matrix.....	117
Chapter 4 - Plan Adoption and Maintenance .....	124
4.1 Plan Adoption .....	124
4.2 Implementation .....	124
4.3 Maintenance and Plan Updates .....	127
4.3.1 National Flood Insurance Program (NFIP).....	128
Glossary of Terms and Definitions.....	130
List of Figures.....	132
List of Maps .....	132
List of Tables .....	132
Appendix.....	133

<b>Appendix 1 – Athens County Census Data .....</b>	<b>133</b>
<b>Appendix 2 – Planning Committee Members Invitees and Schedule.....</b>	<b>136</b>
<b>Appendix 3 – Public Survey Questions and Responses.....</b>	<b>141</b>
<b>Appendix 4 – Key Person Survey Questions and Responses.....</b>	<b>155</b>
<b>Appendix 5 – Survey Results Summary .....</b>	<b>166</b>
<b>Appendix 6 – Press Release .....</b>	<b>168</b>
<b>Appendix 7 – Nelsonville and City of Athens Ordinances and Regulations.....</b>	<b>169</b>
City of Nelsonville Ordinances and Regulations .....	169
City of Athens Ordinances and Regulations.....	169
Village of Albany Ordinance and Regulations.....	169
<b>Appendix 8 – Athens County Vulnerable Population Maps.....</b>	<b>170</b>
Carless Household Map.....	170
Senior Household Map .....	171
Minorities Household Map.....	172
Persons with Disabilities Household Map.....	173
Persons Living in Poverty Household Map .....	174
<b>Appendix 9 – National Climatic Data Center.....</b>	<b>175</b>
Storm Data .....	175
Storm Data Summary .....	190
<b>Appendix 10 – Athens County Repetitive Loss Property 2018 .....</b>	<b>191</b>
<b>Appendix 11 – Athens County Recent Public Assistance Received.....</b>	<b>194</b>
<b>Appendix 12 - Resolutions .....</b>	<b>196</b>