APPENDIX A - AMELIA COUNTY

Hazard Rankings

Status of Mitigation Actions

Building Permit Data

Land Use Cover Map

Future Land Use Map

Critical Facilities Maps

Flood Zone Map

NFIP Survey Results

Hazard Rankings – Amelia County (From Qualitative Assessment and Local Input)

Hazard	Likelihood	Spatial Extent	Potential Impact	HAZARD RATING
Drought	3	2	2	7
Winter Storms	2	3	2	7
Severe Thunderstorms and Tornadoes	2	2	2	6
Hurricanes and Tropical Storms	2	3	1	6
Flood	2	2	1	5
Earthquakes	1	2	1	4
Wildfire	1	1	1	3
Dam/Levee Failure	1	1	1	3
Erosion	1	1	1	3
Landslides	1	1	1	3
Sinkholes	0	1	1	2

Hazard rankings are based on a qualitative assessment, as described below. The values assigned for each option chosen are added together for each hazard to arrive at a total score.

	Assigned Value	Definition
Likelihood of Occ	urrence	
Highly Likely	3	Near 100% annual probability
Likely	2	Between 10 and 100% annual probability
Possible	1	Between 1 and 10% annual probability
Unlikely	0	Less than 1% annual probability
Spatial Extent		
Large	3	More than 50% of area affected
Moderate	2	Between 10 and 50% of area affected
Small	1	Less than 10% of area affected
Potential Impact		
Catastrophic	4	High number of deaths/injuries possible. More than 50% of property in affected area damaged or destroyed. Complete shutdown of facilities for 30 days or more.
Critical	3	Multiple deaths/injuries possible. More than 25% of property in affected area damaged or destroyed. Complete shutdown of facilities for more than one week.
Limited	2	Minor injuries only. More than 10% of property in affected area damaged or destroyed. Complete shutdown of facilities for more than one day.
Minor	1	Very few injuries, if any. Only minor property damage and minimal disruption on quality of life. Temporary shutdown of facilities.

Detailed Information/Status of Local Mitigation Actions (includes detailed data for each action, as requested by FEMA)

Amelia County Mitigation Action 1	Elevate and relocate homes or critical infrastructures out of flood zones.	
Category:		Prevention/Structural Projects
Hazard(s) Addressed:		Flood
Priority (High, Moderate, Low):		Medium
Estimated Cost:		\$200,000
Potential Funding Source	es:	FEMA grant funding, possibly local funds
Lead Agency/Department Responsible:		County Building Inspector
Implementation Schedule:		Near term
Status: No action taken -	- awaiting funds	

Amelia County Mitigation Action 2	Construct waterproof barriers at the wastewater treatment plant to prevent future flood damages if the future relocation plan does not eliminate the hazard soon enough.	
Category:		Prevention/Structural Projects
Hazard(s) Addressed:		Flood
Priority (High, Moderate, Low):		Medium
Estimated Cost:		\$200,000
Potential Funding Sources:		FEMA grant funding, possibly local funds
Lead Agency/Department Responsible:		County Wastewater Plan Manager
Implementation Schedule:		Near term
Status: No action taken – awaiting funds		

Amelia County Mitigation Action 3	Install window clips for mounting plywood or install hurricane shutters to protect windows of critical facilities.	
Category:		Prevention/Structural Projects
Hazard(s) Addressed:		Wind/Tornadoes/Severe Thunderstorms
Priority (High, Modera	ate, Low):	Medium
Estimated Cost:		\$750,000
Potential Funding Sou	ırces:	County, possibly federal grant funding
Lead Agency/Department Responsible:		County Emergency Management Office, Building Inspector
Implementation Schedule:		Near term
Status: No action take	en – awaiting funds	

Amelia County Mitigation Action 4	Build redundant communications system components to back- up primary communications.		
Category:		Emergency Services	
Hazard(s) Addressed:		Multiple	
Priority (High, Moderate, Low):		High	
Estimated Cost:		\$500,000	
Potential Funding Sources:		FEMA grant funding, local funds	
Lead Agency/Department Responsible:		County Emergency Management Office	
Implementation Schedule:		Near term	
Status: No action taken -	- awaiting funds		

Amelia County Mitigation Action 5	When new homes are constructed, provide information to encourage clearing trees, brush, and other flammable natural materials a safe distance from the home creating a "Green Zone" between the forest and the structures.	
Category:		Prevention
Hazard(s) Addressed:		Fire
Priority (High, Moderate, Low):		High
Estimated Cost:		Minimal – Staff time, Virginia Department of Forestry has brochures available
Potential Funding Sources:		N/A
Lead Agency/Departn Responsible:	nent	County Emergency Management Office, Building Inspector
Implementation Schedule:		Near term
Status: No action taken – need to coordinate with VDOT on this.		

Amelia County Mitigation Action 6	Relocate the Emergency Operations facility to the County Administration Building, to deal with the expected growth and expansion of County services and staffing resources, and install hurricane shutters or window clips to protect the new facility.		
Category:		Emergency Services	
Hazard(s) Addressed:		Multiple	
Priority (High, Moderate, Low):		High	
Estimated Cost:		\$10,000	
Potential Funding Sources:		County funding, possible DHS grants	
Lead Agency/Department Responsible:		County Emergency Management Office	
Implementation Schedule:		Near term	
Status: Completed.			

Amelia County Mitigation Action 7	Information from this plan will be provided to residents and businesses through the local newspaper, inserted in tax bills or regular mailings to all addresses, and in public meetings.	
Category:		Prevention/Emergency Services
Hazard(s) Addressed:		Multiple
Priority (High, Moderate, Low):		Medium
Estimated Cost:		\$500/year
Potential Funding Sources:		County
Lead Agency/Department Responsible:		County Emergency Management Office, County Administrator's Office
Implementation Schedule:		Near term
Status: No action taken – lack of staff resources		

Amelia County Mitigation Action 8	Provide recommended methods of reducing risk and vulnerability on the County's website. Develop and distribute educational brochures to all school children to be taken home to parents.	
Category:		Prevention/Emergency Services
Hazard(s) Addressed:		Multiple
Priority (High, Moderate, Low):		Medium
Estimated Cost:		\$1,000
Potential Funding Source	es:	County, possibly VDEM and DHS grants
Lead Agency/Department Responsible:	t	County Emergency Management Office, County Administrator's Office
Implementation Schedule:		Near term
Status: Completed.		

Amelia County Mitigation Action 9	Contact civic organizations, church organizations, and business groups to develop a Safe Community Committee. The County will facilitate the committee, which will develop recommendations for improving safety in the community and providing recommendations to provide educational information on a County-wide basis.	
Category:		Prevention/Emergency Services
Hazard(s) Addr	Iressed: Multiple	
Priority (High,	, Moderate, Low): Medium	
Estimated Cos	ted Cost: \$100	
Potential Fund	ial Funding Sources: County funds	
Lead Agency/Department Responsible:		County Emergency Management Office, County Administrator's Office
Implementation Schedule: Ne		Near term
Status: Completed. Done through other avenues		

Amelia County Mitigation Action 10	Review all permits for new development and substantial improvements for compliance with the County's ordinances as they relate to flood areas.	
Category:		Prevention/Property Protection
Hazard(s) Addressed:		Flood
Priority (High, Moderate, Low):		Moderate
Estimated Cost:		None
Potential Funding Sources:		N/A
Lead Agency/Department Responsible:		County Planning Department
Implementation Schedule:		Short/near term
Status: Ongoing – enforced through County Zoning Ordinance (includes a Flood Plain District) and Subdivision Ordinance (restricts development in areas subject to flooding).		

Amelia County Mitigation Action 11	Install storm water drainage system to prevent flooding in buildings in flood prone areas.				
Category:		Prevention/Property Protection			
Hazard(s) Addressed:		Flood			
Priority (High, Moderate, Low):		High			
Estimated Cost:		Depending on size of area to be protected, could be anywhere from \$100,000 to \$500,000 or more			
Potential Funding Sources:		FEMA grant, with local funding match			
Lead Agency/Department Responsible:		County Administration/Planning Department			
Implementation Schedule:		Dependant on availability of funding			
Status: No action taken, lack of funding					

Amelia County removed two (2) mitigation actions, as noted below:

Amelia County Mitigation Action	Secure mobile homes beyond standard tie-downs to reduce their vulnerability to high winds.			
Category:		Prevention/Structural Projects		
Hazard(s) Addressed:		Wind/Tornadoes/Severe Thunderstorms		
Priority (High, Moderate, Low):		Medium		
Estimated Cost:		\$750,000		
Potential Funding Sources:		County, local businesses		
Lead Agency/Department Responsible:		County Emergency Management Office, Building		
		Inspector		
Implementation Schedule:		Near term		
Remove – Funding requirements make this action cost-prohibitive.				

Amelia County Mitigation Action	provide safer lo	Install safe rooms and develop severe weather shelters to provide safer locations for the public during rapidly developing weather events.			
Category:		Prevention/Structural Projects			
Hazard(s) Addressed:		Wind/Tornadoes/Severe Thunderstorms			
Priority (High, Moderate, Low):		Medium			
Estimated Cost:		\$750,000			
Potential Funding Sources:		County, possibly federal grant funding			
Lead Agency/Department Responsible:		County Emergency Management Office, Building Inspector			
Implementation Schedule:		Near term			
Remove – Funding requirements make this action cost-prohibitive. Additionally, there are multiple areas of need – which would multiply the cost.					

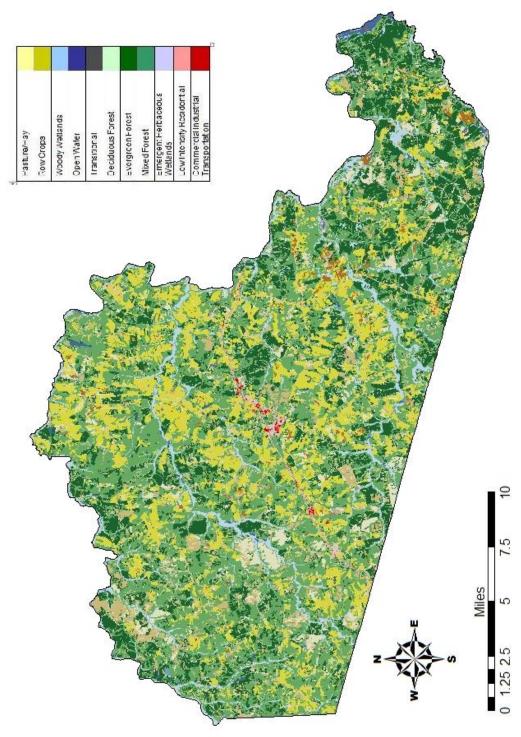
Mitigation action previously completed per 2012 Plan update:

Amelia County Mitigation Action	Evaluate current staff levels to ensure the County has enough trained staff to manage mitigation strategies as well as emergencies on the local level.				
Category:		Prevention/Emergency Services			
Hazard(s) Addressed:		Multiple			
Priority (High, Moderate, Low):		Medium			
Estimated Cost:		Minimal			
Potential Funding Sources:		County funding, possibly VDEM			
Lead Agency/Department Responsible:		County Emergency Management Office			
Implementation Schedule:		Short term			
Status: Completed. County has hired a full-time emergency manager					

Building Permit Data – Amelia County

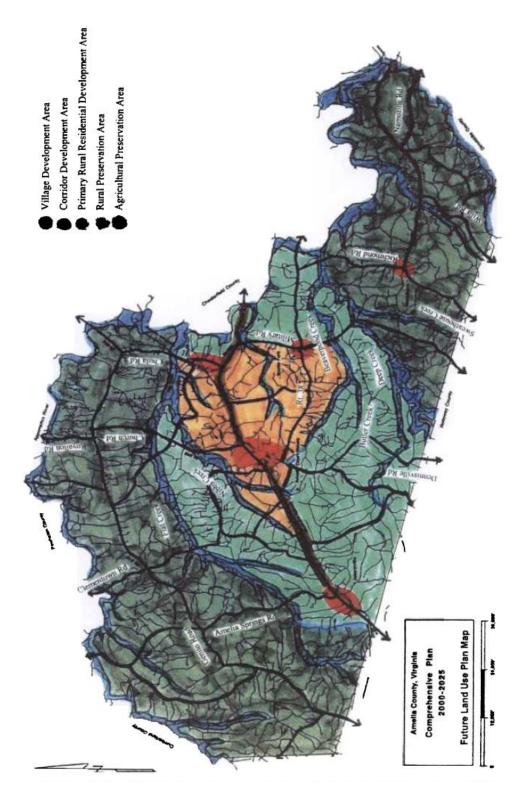
Year	Residential Permits Issued	Commercial Permits Issued
1981	59	6
1982	55	0
1983	77	0
1984	82	0
1985	86	0
1986	85	0
1987	129	8
1988	134	7
1989	158	12
1990	179	4
1991	163	3
1992	109	18
1993	175	23
1994	158	20
1995	174	27
1996	169	31
1997	176	25
1998	179	16
1999	169	17
2000	147	21
2001	137	20
2002	136	15
2003	162	18
2004	161	32
2005	165	17
2006	208	24
2007	122	23
2008	103	18
2009	75	18
2010	69	15
2011	39	11
2012	44	8
2013	61	16
2014	63	8
2015	51	8

Amelia County Land Use Cover Map



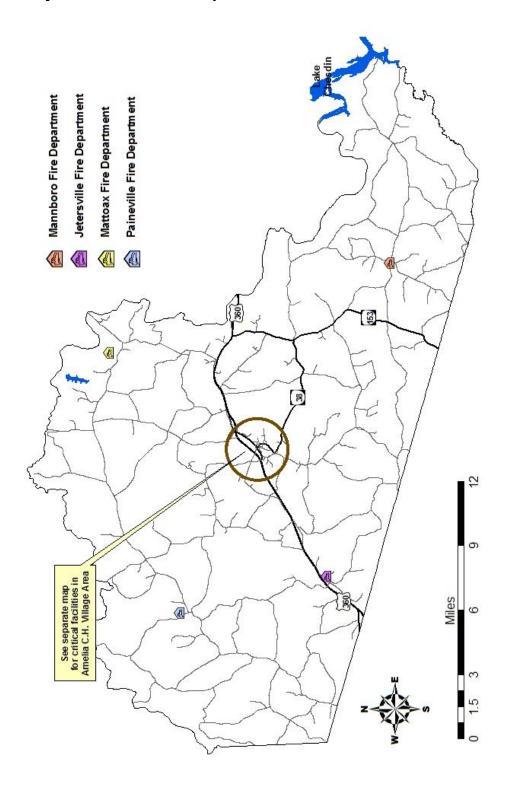
Map created by CRC - October 2015 Source: 2011 National Land Use Cover Dataset

Amelia County Future Land Use Map

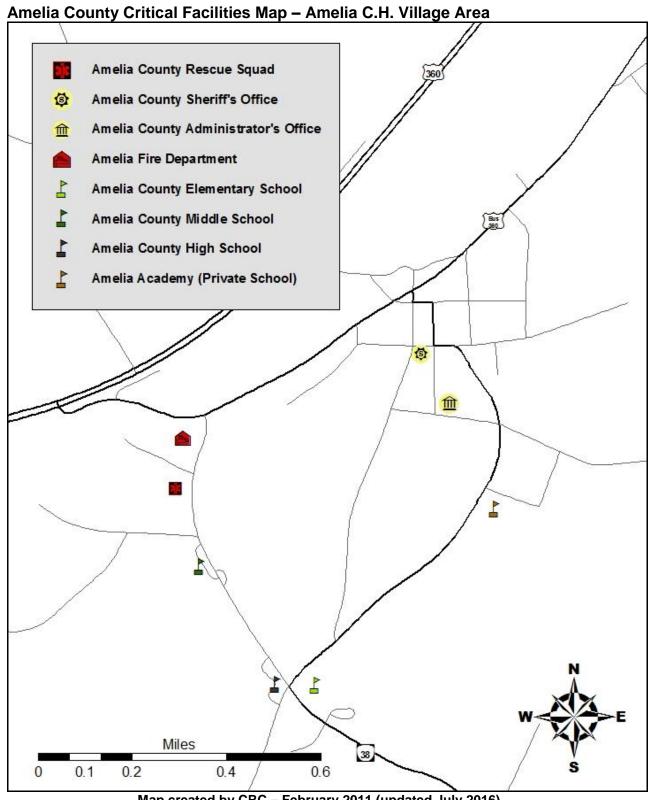


Source: Amelia County Comp Plan

Amelia County Critical Facilities Map

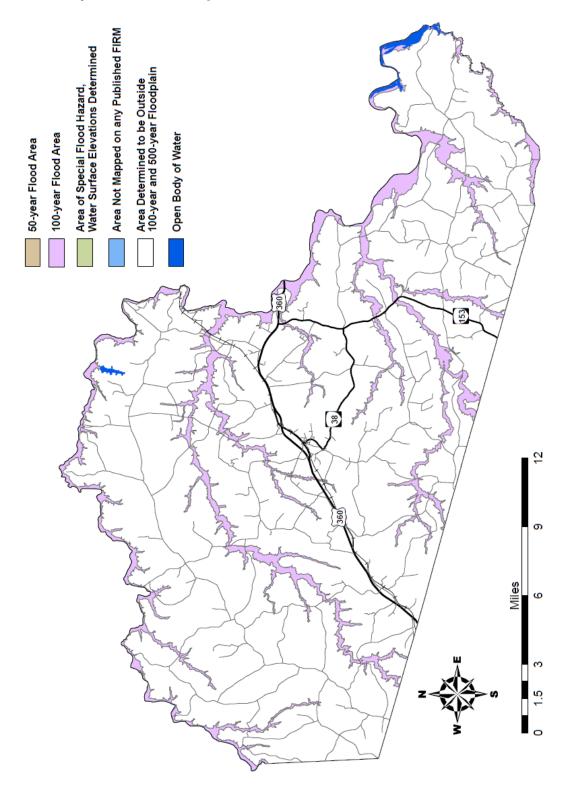


Map created by CRC – February 2011 (updated July 2016) Source: Amelia County



Map created by CRC – February 2011 (updated July 2016) Source: Amelia County

Amelia County Flood Zone Map



Map created by CRC - February 2011 (source: FEMA)

NFIP Survey Results

NATIONAL FLOOD INSURANCE PROGRAM (NFIP) SURVEY

MUNICIPALITY: Appelia

	Requirement	Recommended Action	Yes/No	Comments
an eff Flood munic	the municipality maintain accessible copies of fective Flood insurance Rate Map (FIRM)/Digital d Insurance Rate Map (DFIRM)? Does the icipality maintain accessible copies of the most nt Flood insurance Study (FIS)?	Place these documents in the local libraries or make available publicly.	Hes No	Not successive abor necessed this info
	he municipality adopted the most current M/FIRM and FIS?	State the date of adoption, if approved.	Yes	Apr 16, 2009
c. Does updat	the municipality support request for map tes?	If yes, state how.	No	Not sure of this?
Mana scient	the municipality share with Federal Emergency agement Agency (FEMA) any new technical or tific data that could result in map revisions in 6 months of creation or identification of new	If yes, specify how.	No	We've never had anything that would require this action
	the municipality provide assistance with local iplain determinations?	If yes, specify how.	Yes	data and assist them with corners and assist them with corners and assist
	the municipality maintain a record of approved ers of Map Change?	If yes, specify the responsible office.	No	Never had any

2. FLOODPLAIN MANAGEMENT Requirement	Recommended Action	Yes/No	Comments
Has the municipality adopted a compliant floodplain management ordinance that, at a minimum, regulates the following:	If yes, answer questions (1) through (4) below.	Ves	
(1) Does the municipality issue permits for all proposed development in the Special Flood Hazard Areas (SFHAs)?	If yes, specify the office responsible.	No.	No permits espeed
(2) Does the municipality obtain, review, and utilize any Base Flood Elevation (BFE) and floodway data, and/or require BFE data for subdivision proposals and other development proposals larger than 50 lots or 5 acres?	If yes, specify the office responsible.	Хо	No request received
(3) Does the municipality identify measures to keep all new and substantially improved construction reasonably safe from flooding to or above the BFE, including anchoring, using flood-resistant materials, and designing or locating utilities and service facilities to prevent water damage?	If yes, specify the office responsible.	Иo	No request recailed
(4) Does the municipality document and maintain records of elevation data that document lowest floor elevation for new or substantially improved structures?	If yes, specify the office responsible.	No	No permits issued
b. If a compliant floodplain ordinance was adopted, does the municipality enforce the ordinance by monitoring compliance and taking remedial action to correct violations?	If yes, specify how.	Yes	¥1

. FLOODPLAIN MANAGEMENT			
Requirement	Recommended Action	Yes/No	Comments
. Has the municipality considered adopting activities that extend beyond the minimum requirements? Examples include:		No	
 Participation in the Community Rating System 			
 Prohibition of production or storage of chemicals in SFHA 	If yes, specify activities.		
 Prohibition of certain types of structures, such as hospitals, nursing homes, and Jails in SFHA 			
 Prohibition of certain types of residential housing (manufactured homes) in SFHA 			
 Floodplain ordinances that prohibit any new residential or nonresidential structures in SFHA 			

	Requirement	Recommended Action	Yes/No	Comments
a.	Does the municipality educate community members about the availability and value of flood insurance?	If yes, specify how.	No	
	Does the municipality inform community property owners about changes to the DFIRM/FIRM that would impact their insurance rates?	If yes, specify how.	No	
c.	Does the municipality provide general assistance to community members regarding insurance issues?	If yes, specify how.	No	