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**APPENDIX C – CHARLOTTE COUNTY AND TOWNS OF CHARLOTTE COURT
HOUSE, DRAKES BRANCH, KEYSVILLE, PHENIX**

Hazard Rankings

Status of Mitigation Actions

Building Permit Data

Land Use Cover Map

Future Land Use Maps

Critical Facilities Maps

Flood Zone Map

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Hazard Rankings – Charlotte Co. (From Qualitative Assessment and Local Input)

Hazard	Likelihood	Spatial Extent	Potential Impact	HAZARD RATING
Hurricanes and Tropical Storms	2	3	3	8
Severe Thunderstorms and Tornadoes	3	1	2	6
Wildfire	3	1	2	6
Flood	3	1	2	6
Winter Storms	2	3	1	6
Drought	2	2	1	5
Dam/Levee Failure	1	1	2	4
Earthquakes	1	2	1	4
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 Occurrence		
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.

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

Charlotte County

Charlotte County Mitigation Action 1	Identify most at-risk critical facilities in County and evaluate potential mitigation techniques.
Category:	Emergency Services
Hazard(s) Addressed:	Multiple
Priority (High, Moderate, Low):	Moderate
Estimated Cost:	N/A
Potential Funding Sources:	Minimal or none, depending on scope of study
Lead Agency/Department Responsible:	County Emergency Services Coordinator
Implementation Schedule:	Short term (if no or low cost)
Status: FEMA flood evaluation complete, other evaluations incomplete due to lack of staff resources	

Charlotte County Mitigation Action 2	Emergency generators/backup power for water, wastewater treatment plant facilities.
Category:	Emergency Services
Hazard(s) Addressed:	All
Priority (High, Moderate, Low):	High
Estimated Cost:	\$10,000 - \$20,000 each, depending on type
Potential Funding Sources:	Would likely seek grants from FEMA, USDA
Lead Agency/Department Responsible:	County Emergency Services Coordinator
Implementation Schedule:	Dependant on availability of funding
Status: A generator is being installed to provide backup power for the Charlotte Court House pump station and force main sewage line	

Charlotte County Mitigation Action 3	Backup wireless connectivity to internet (with power backup at source).
Category:	Emergency Services
Hazard(s) Addressed:	All
Priority (High, Moderate, Low):	Moderate
Estimated Cost:	Unknown at this time
Potential Funding Sources:	Would probably seek grants if cost-intensive
Lead Agency/Department Responsible:	County Administration/ Emergency Services Coordinator
Implementation Schedule:	Dependant on availability of funding
Status: Alternatives being pursued; generator connection to Internet service equipment is being installed and equipment is in place to backup the dispatch center	

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Charlotte County Mitigation Action 4	Improve GIS data for tax parcels, public works, existing businesses – action applies to County and the towns of Keysville, Drakes Branch, Charlotte Court House, and Phenix.
Category:	Prevention
Hazard(s) Addressed:	All
Priority (High, Moderate, Low):	Moderate/High
Estimated Cost:	\$75,000
Potential Funding Sources:	Would likely seek grant funding
Lead Agency/Department Responsible:	County Administration, town staffs
Implementation Schedule:	Dependant on availability of funding
Status: <i>Completed</i>	

Charlotte County added two (2) new mitigation actions, as seen below.

Charlotte County New Mitigation Action	Develop a backup emergency operations center as part of a continuity of operations plan.
Category:	Emergency Services
Hazard(s) Addressed:	All
Priority (High, Moderate, Low):	Moderate/High
Estimated Cost:	
Potential Funding Sources:	Grant funding/local funds
Lead Agency/Department Responsible:	County Emergency Services Coordinator
Implementation Schedule:	Dependant on availability of funding
Status: Ongoing – Generator being installed.	

Charlotte County New Mitigation Action	Advertise and promote the availability of flood insurance.
Category:	Prevention/Property Protection/Public Education and Awareness
Hazard(s) Addressed:	Flood
Priority (High, Moderate, Low):	Moderate
Estimated Cost:	Minimal – Cost of brochures, advertising
Potential Funding Sources:	N/A
Lead Agency/Department Responsible:	County Administration
Implementation Schedule:	Short/near term
Status: No action taken – dependent upon availability of resources to implement	

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Charlotte County chose to remove one mitigation action, as seen below.

Charlotte County Mitigation Action	Encourage infill development through tax incentives, streamlined approval process, etc.
Category:	Prevention/Property Protection
Hazard(s) Addressed:	Multiple
Priority (High, Moderate, Low):	Moderate
Estimated Cost:	None – change to ordinances, building codes, local tax structure
Potential Funding Sources:	N/A
Lead Agency/Department Responsible:	County Administration/Board of Supervisors
Implementation Schedule:	N/A
Status: <u>Remove</u> – Lack of staff resources, funding.	

Town of Charlotte Court House

Charlotte Court House Mitigation Action 1	Emergency automatic startup generators/backup power for water treatment plant facilities.
Category:	Prevention
Hazard(s) Addressed:	All
Priority (High, Moderate, Low):	High
Estimated Cost:	\$10,000 - \$15,000 each, depending on type
Potential Funding Sources:	Would likely seek grants from FEMA, USDA
Lead Agency/Department Responsible:	Town staff
Implementation Schedule:	Dependant on availability of funding
Status: No action taken – awaiting funding	

Town of Drakes Branch

Drakes Branch Mitigation Action 1	Develop/update water management/emergency response plan.
Category:	Prevention/Natural Resource Protection
Hazard(s) Addressed:	Drought
Priority (High, Moderate, Low):	High
Estimated Cost:	Would depend on whether Town receives assistance
Potential Funding Sources:	Unknown at this time
Lead Agency/Department Responsible:	Town Council, possibly with help from CRC or a state agency
Implementation Schedule:	Dependant on availability of funding
Status: No action taken – lack of funding/staff resources	

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Drakes Branch Mitigation Action 2	Ensure local firefighters are properly trained and exercised in brush/forest firefighting techniques.
Category:	Emergency Services
Hazard(s) Addressed:	Fire
Priority (High, Moderate, Low):	High
Estimated Cost:	Minimal – cost of training (if any)
Potential Funding Sources:	N/A
Lead Agency/Department Responsible:	Town staff or Fire Department
Implementation Schedule:	Short term
Status: No action taken – lack of staff resources	

Drakes Branch Mitigation Action 3	Purchase emergency generators/backup power for critical facilities.
Category:	Prevention
Hazard(s) Addressed:	Multiple
Priority (High, Moderate, Low):	Moderate/High
Estimated Cost:	Depends on size and how many
Potential Funding Sources:	Town would like to seek grant funds
Lead Agency/Department Responsible:	Town staff/Town Utilities Operator/Fire Department
Implementation Schedule:	Dependant on availability of funding
Status: Completed	

Drakes Branch Mitigation Action 4	Install quick-connect emergency generator hook-ups for critical facilities.
Category:	Prevention
Hazard(s) Addressed:	Multiple
Priority (High, Moderate, Low):	Moderate/High
Estimated Cost:	Depends on how many
Potential Funding Sources:	Would like to seek grant funding
Lead Agency/Department Responsible:	Town Utilities Operator/Fire Department
Implementation Schedule:	Dependant on availability of funding
Status: No action taken – awaiting funding	

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Drakes Branch Mitigation Action 5	Identify and recruit civic groups and volunteer agencies for community mitigation projects.
Category:	Public Education and Awareness
Hazard(s) Addressed:	Multiple
Priority (High, Moderate, Low):	Moderate
Estimated Cost:	None
Potential Funding Sources:	N/A
Lead Agency/Department Responsible:	Town staff, possibly with CRC and other agencies
Implementation Schedule:	Short/near term
Status: No action taken – lack of staff resources	

Drakes Branch Mitigation Action 6	Retrofit fire and police stations to become hazard resistant.
Category:	Emergency Services
Hazard(s) Addressed:	Multiple
Priority (High, Moderate, Low):	Moderate/High
Estimated Cost:	Unknown at this time
Potential Funding Sources:	Probably would seek grant funds
Lead Agency/Department Responsible:	Town staff/Fire Department
Implementation Schedule:	Dependant on availability of funding
Status: No action taken – awaiting funding	

Drakes Branch added one (1) new mitigation action, as seen below.

Drakes Branch New Mitigation Action	Prohibit or limit floodplain development through regulatory and/or incentive-based measures.
Category:	Prevention/Property Protection
Hazard(s) Addressed:	Flood
Priority (High, Moderate, Low):	Moderate
Estimated Cost:	None – would only involve changes to ordinances
Potential Funding Sources:	N/A
Lead Agency/Department Responsible:	County Planning Department
Implementation Schedule:	Short/near term
Status: Ongoing – enforced through a Floodplain District Ordinance, which places restrictions and requirements on building in flood areas.	

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Town of Keysville

Keysville Mitigation Action 1	Emergency automatic startup generators/backup power for water, wastewater treatment plant facilities.
Category:	Prevention
Hazard(s) Addressed:	All
Priority (High, Moderate, Low):	High
Estimated Cost:	\$10,000 - \$20,000 each, depending on type
Potential Funding Sources:	Would likely seek grant funds from FEMA, USDA
Lead Agency/Department Responsible:	Town staff/Town Utilities Operator
Implementation Schedule:	Dependant on availability of funding
Status: No action taken – awaiting funding	

Town of Phenix

Phenix Mitigation Action 1	Emergency automatic startup generators/backup power for water treatment plant facilities.
Category:	Emergency Services
Hazard(s) Addressed:	All
Priority (High, Moderate, Low):	High
Estimated Cost:	\$10,000 - \$15,000 each, depending on type
Potential Funding Sources:	Would likely seek grant funding (FEMA, USDA)
Lead Agency/Department Responsible:	Town staff/Town Water System Operator
Implementation Schedule:	Dependant on availability of funding
Status: No action taken – awaiting funding	

Phenix added one (1) new mitigation action, as seen below.

Phenix New Mitigation Action	Prohibit or limit floodplain development through regulatory and/or incentive-based measures.
Category:	Prevention/Property Protection
Hazard(s) Addressed:	Flood
Priority (High, Moderate, Low):	Moderate
Estimated Cost:	None – would only involve changes to ordinances
Potential Funding Sources:	N/A
Lead Agency/Department Responsible:	County Planning Department
Implementation Schedule:	Short/near term
Status: Ongoing – enforced through a Floodplain Ordinance, which places restrictions and requirements on building in flood areas.	

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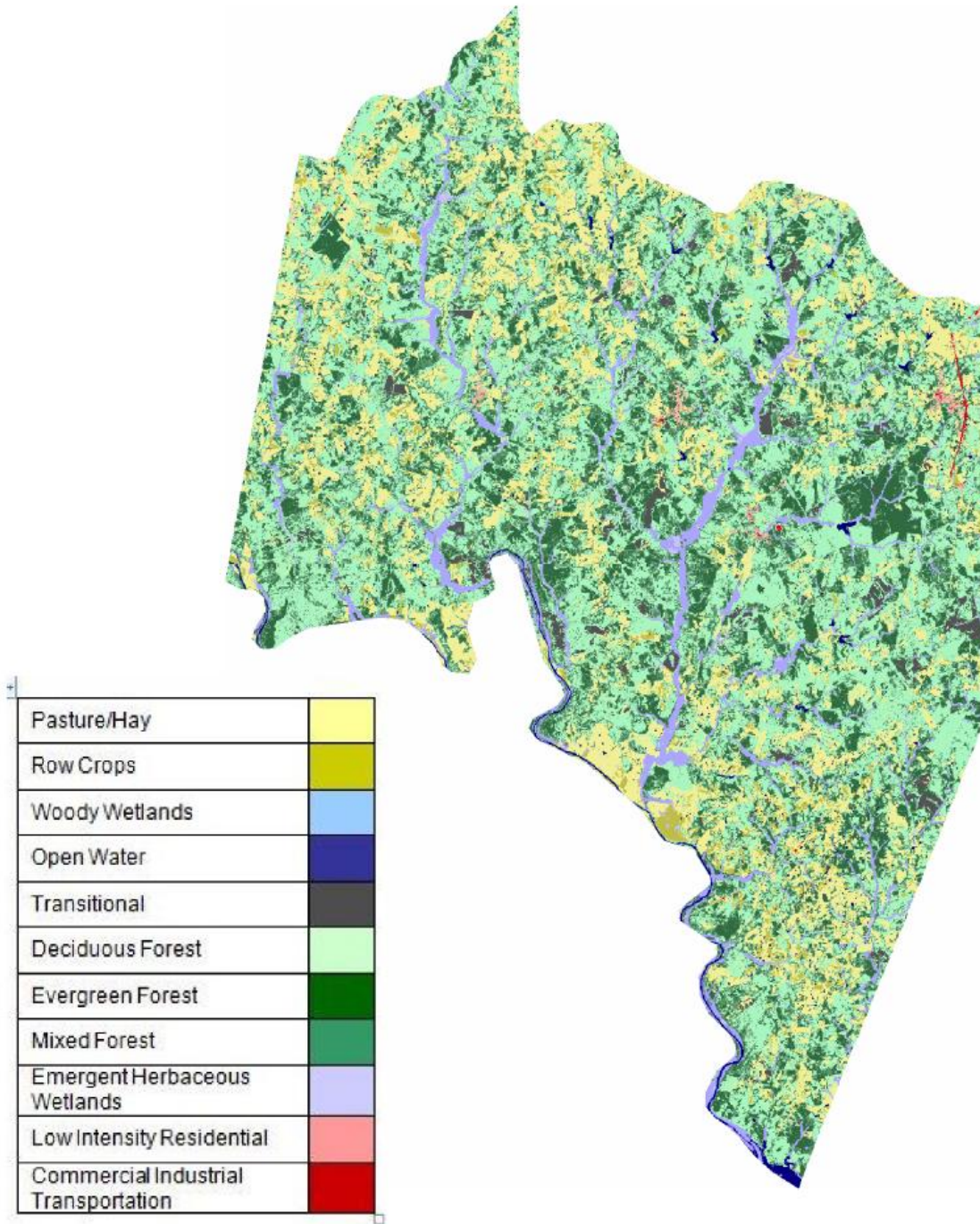
Building Permit Data – Charlotte County and Towns of Charlotte Court House, Drakes Branch, Keysville, Phenix

Year	Residential Permits Issued	Commercial Permits Issued
2003	78	0
2004	102	5
2005	103	10
2006	81	8
2007	89	2
2008	73	7
2009	81	5

NOTE: Building permits for the Towns are handled through the Charlotte County Building Inspectors' Office.

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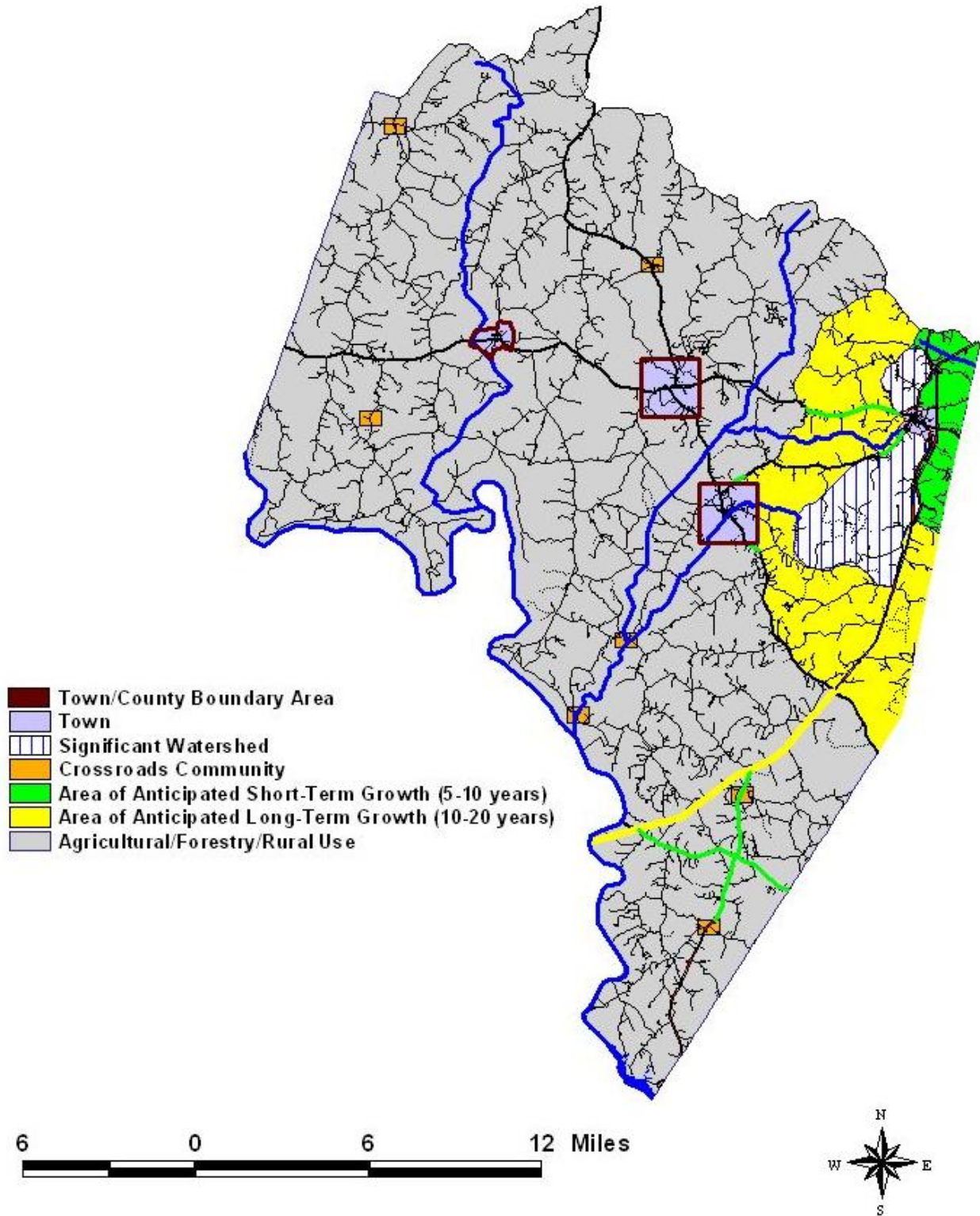
Charlotte County Land Use Cover Map



Created by CRC - August 2010
Source: National Land Cover Dataset, UVA Geostat Center

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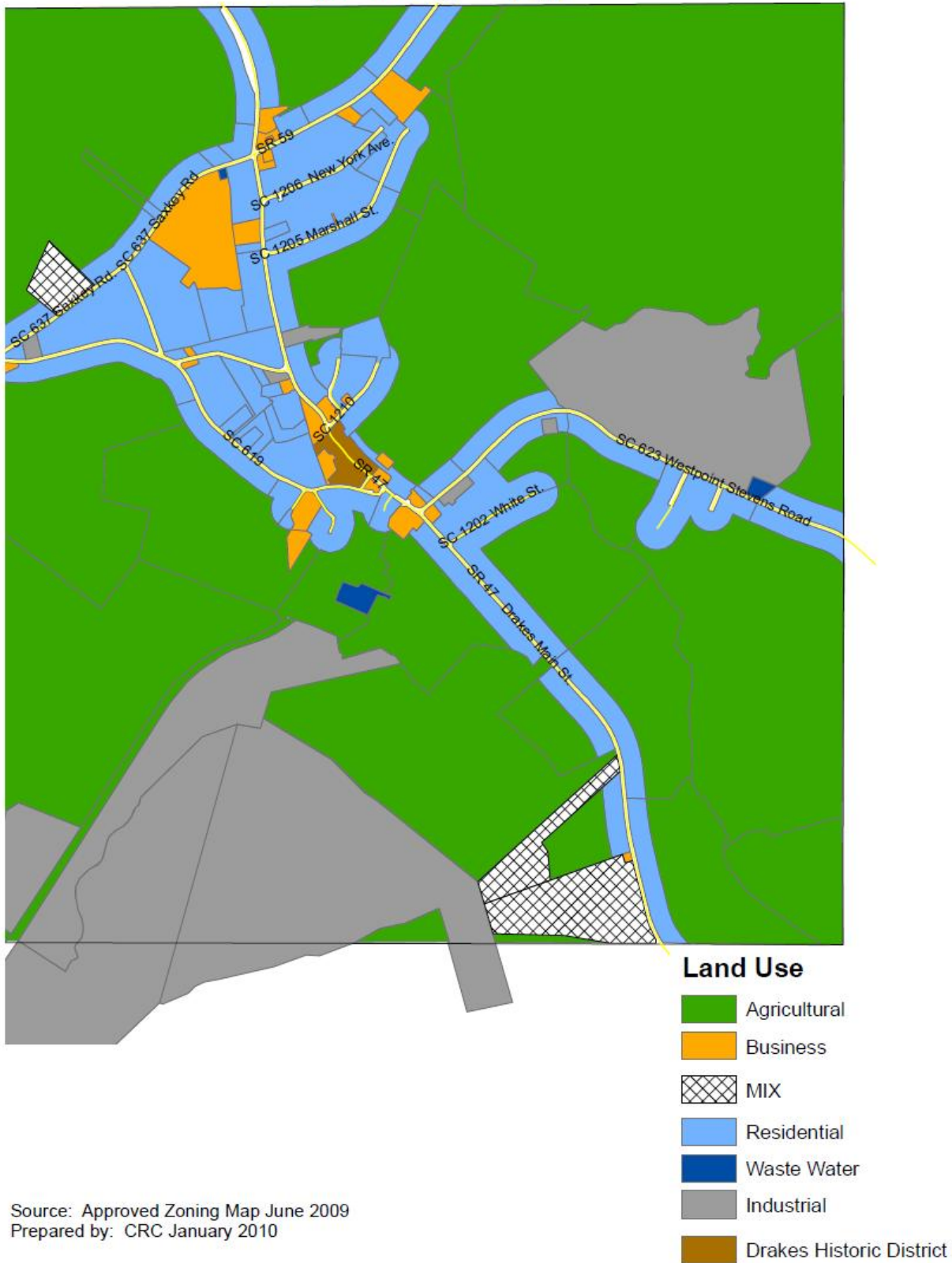
Charlotte County Future Land Use Map



Map created by CRC – October 2006

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Town of Drakes Branch Future Land Use Map

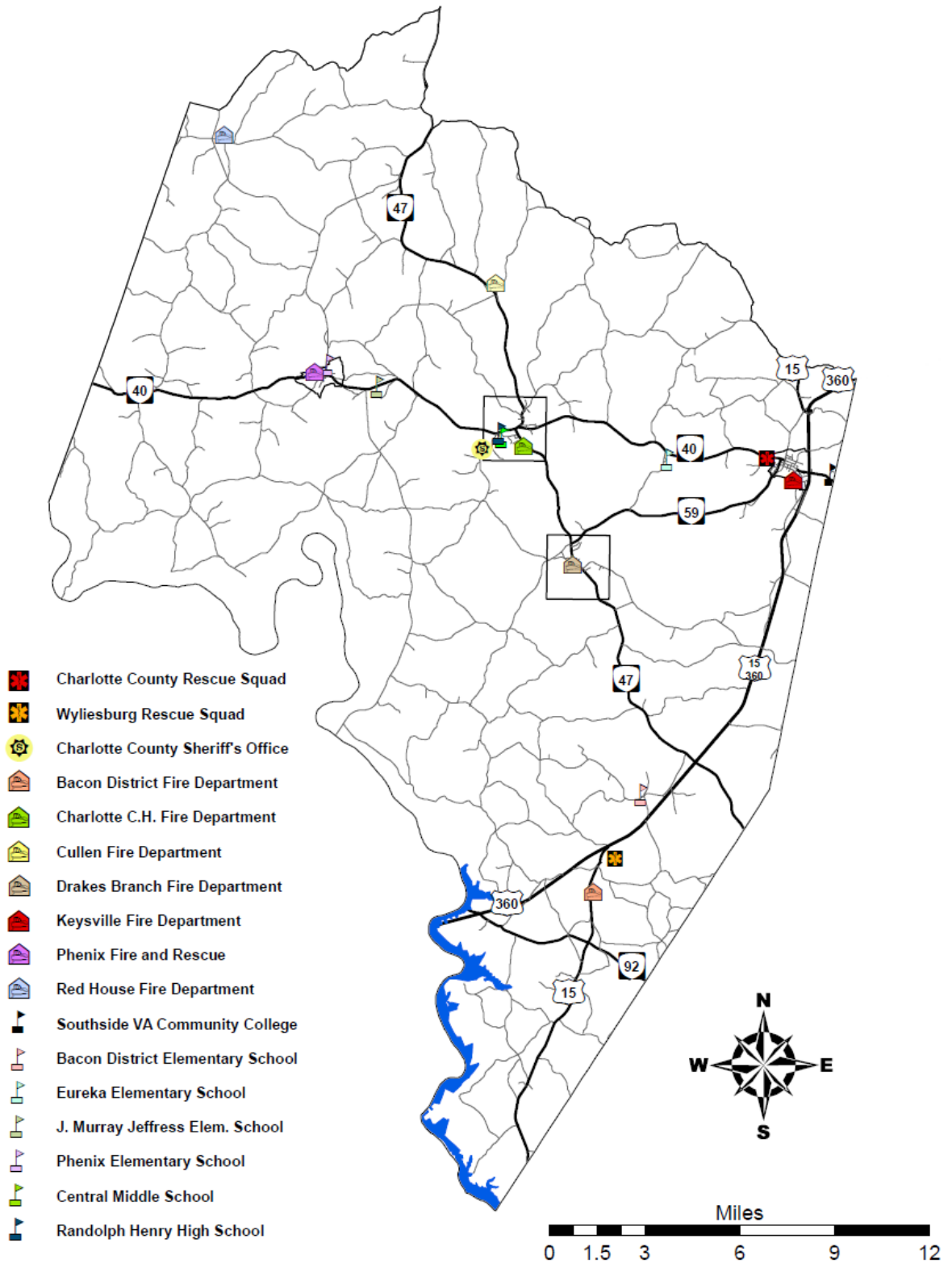


Source: Approved Zoning Map June 2009
Prepared by: CRC January 2010

NOTE: Drakes Branch is the only Town in Charlotte County for which we have a separate future land use map.

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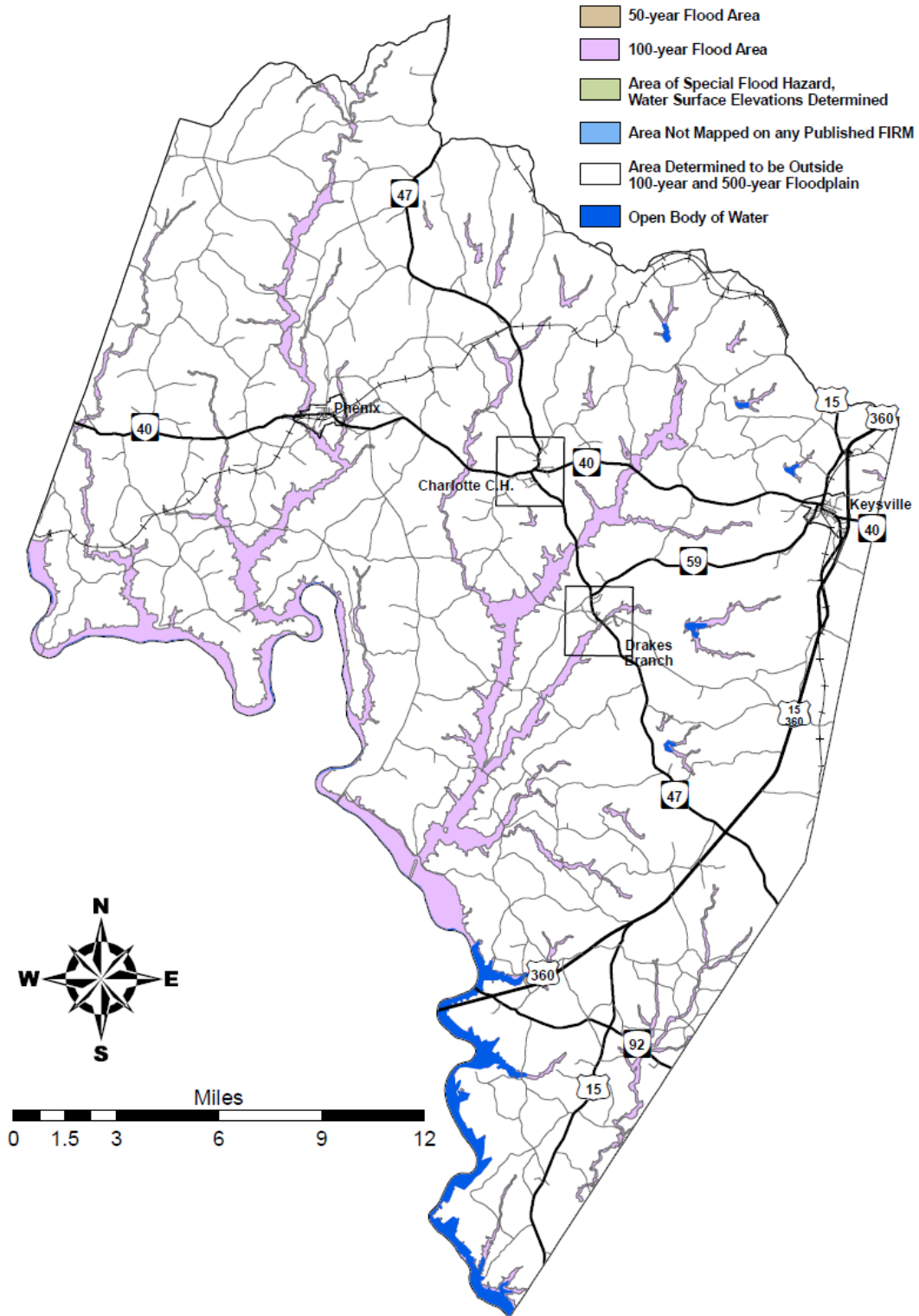
Charlotte County Critical Facilities Map



Map created by CRC – February 2011 (source: Charlotte County)

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Charlotte County Flood Zone Map



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