

Annex J Town of Rolesville

J.1 PLANNING PROCESS

The table below lists the HMPC members who represented the Town of Rolesville.

Table J.1 – HMPC Members

Agency	Representative	Position or Title
Planning Department	Danny Johnson	Planning Director
Town of Rolesville	Kelly Arnold	Town Manager

J.2 COMMUNITY PROFILE

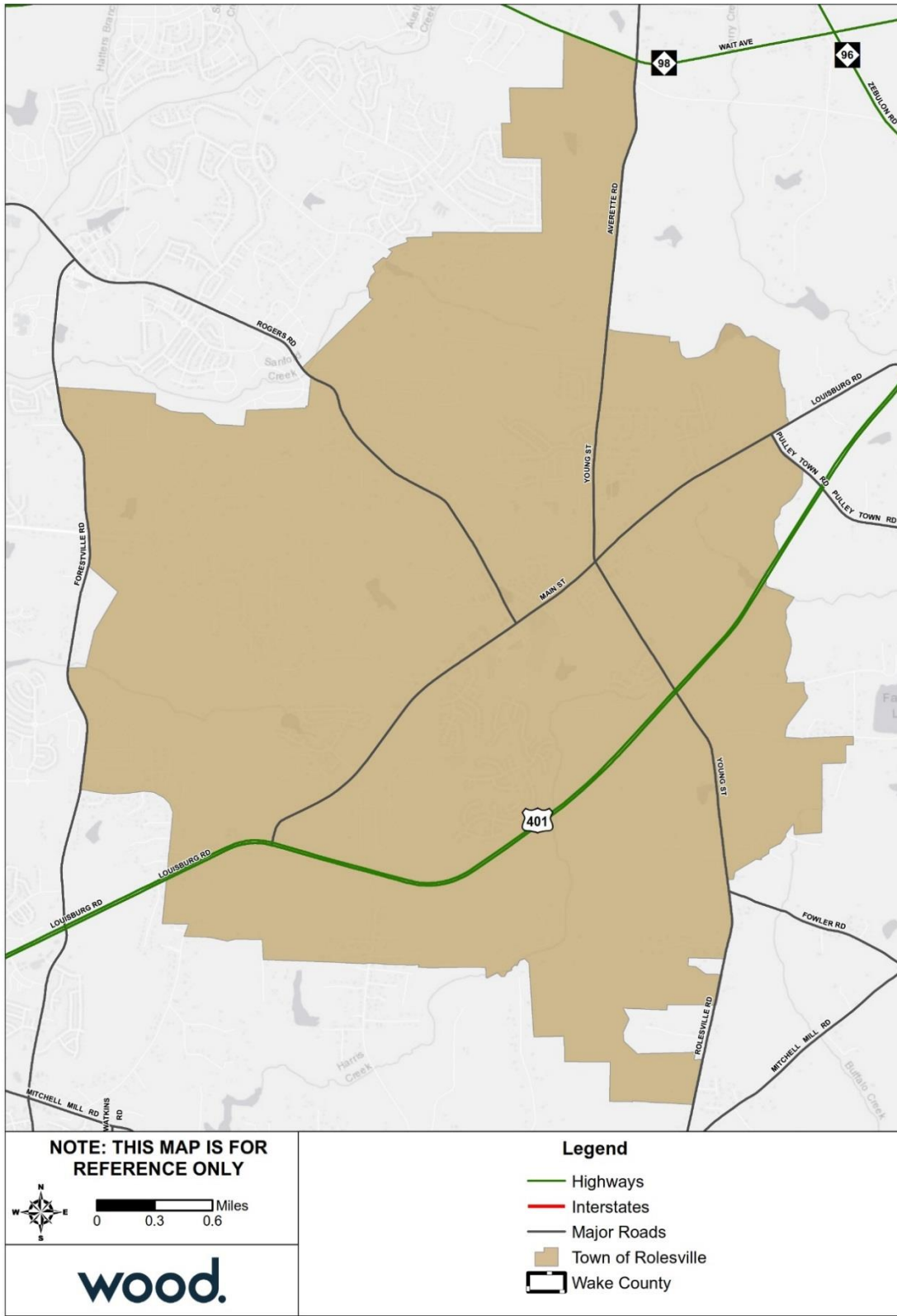
Geography

The Town of Rolesville is located in northeastern Wake County. It is neighbored by Wake Forest to the west and northwest, and Raleigh to the southwest. The Town is part of the Raleigh, NC Metropolitan Statistical Area, which falls within the larger Raleigh-Durham-Chapel Hill, NC Combined Statistical Area. Rolesville comprises a total land area of 3.9 square miles.

According to data from the U.S. Fish and Wildlife Service’s National Wetlands Inventory, there are approximately 359.5 acres of wetlands in Rolesville.

Figure J.1 shows a base map of the major transportation routes in the Town of Rolesville.

Figure J.1 – Major Transportation Routes – Town of Rolesville



Source: Wake County GIS Open Data

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Population and Demographics

Table J.2 provides population counts and growth estimates for the Town of Rolesville as compared to the County overall. Table J.3 provides demographic information for Rolesville as compared to the whole County.

Table J.2 – Population Counts, Rolesville, 2010-2017

Jurisdiction	2000 Census Population	2010 Census Population	2017 ACS Population Estimate	Total Change 2010-2017	% Change 2010-2017
Wake County total	627,846	900,993	1,023,811	122,818	13.6%
Town of Rolesville	907	3,786	6,308	2,522	40.0%

Source: US Census Bureau Decennial Census 2000, Decennial Census 2010; American Community Survey 2013-2017 5-Year Estimates

Table J.3 – Racial Demographics, Rolesville, 2017

Jurisdiction	White, %	Black, %	Asian, %	Other Race, %	Two or More Races, %	Persons of Hispanic or Latino Origin*, %
Wake County total	66.5%	20.4%	6.5%	3.6%	2.7%	10.0%
Town of Rolesville	66.2%	27.1%	3.2%	1.2%	2.4%	3.0%

Source: US Census Bureau, American Community Survey 2013-2017 5-Year Estimates

*Persons of Hispanic origin may be of any race, so also are included in applicable race categories

Asset Inventory

The following tables summarize the asset inventory for Rolesville in order to estimate the total physical exposure to hazards in this area. The locations of critical facilities are shown in Figure J.2 on the following page. Critical facilities are a subset of identified assets from the Critical Infrastructure & Key Resources dataset. Note that the counts are by building; where a critical facility comprises a cluster of buildings, each building is counted and displayed.

Table J.4 – Critical Infrastructure & Key Resources by Type

Jurisdiction	Food & Agriculture	Banking & Finance	Chemical	Commercial Facilities	Communications	Manufacturing	Defense	Government	Healthcare	IT	National Monuments	Nuclear	Postal & Shipping	Transportation	Energy	Emergency Services	Water	Other	Total
Town of Rolesville	43	1	0	37	0	11	0	20	2	0	0	0	0	4	0	2	0	0	120

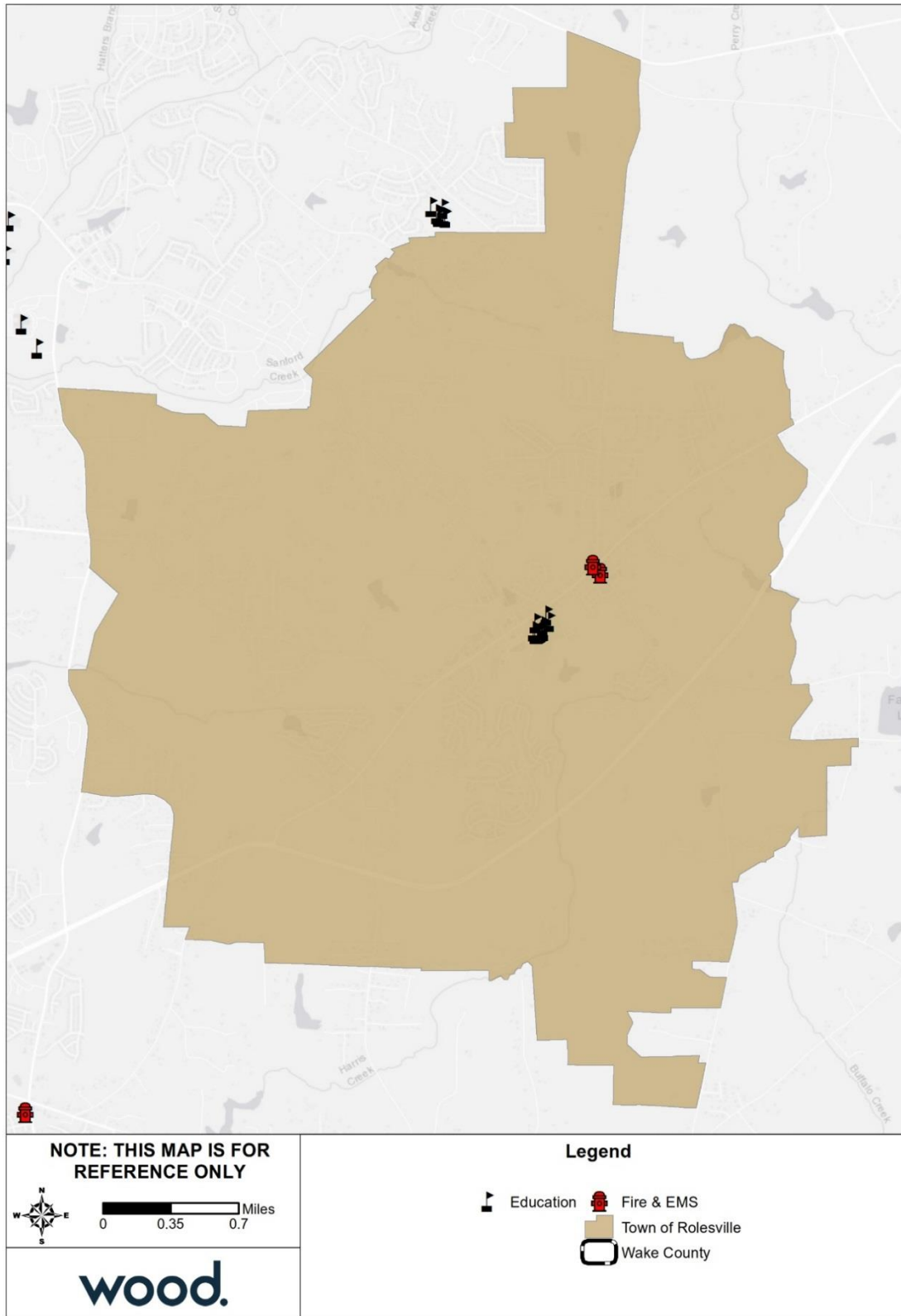
Source: NCEM Risk Management Tool

Table J.5 – High Potential Loss Facilities by Use

Jurisdiction	Residential	Commercial	Industrial	Government	Agricultural	Religious	Utilities	Other	Total
Town of Rolesville	4	8	1	4	0	1	0	0	18

Source: NCEM Risk Management Tool

Figure J.2 – Critical Facilities, Town of Rolesville



Source: NCEM IRISK Database, GIS Analysis

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To supplement the asset inventory and provide a clearer picture of the current asset exposure in the Town of Rolesville, current parcel data was evaluated to identify development since 2010. This information is not incorporated into the risk assessment, which was prepared using NCEM’s IRISK database. However, this summary of development since 2010 provides some context to understand the degree to which the IRISK exposure and vulnerability numbers differ from current conditions.

Table J.6 provides a summary by land class of parcel development from January 2011 to April 2019.

Table J.6 – Parcels Developed 2011 or Later, Town of Rolesville

Land Class	Number of Parcels	Sum of Building Value
Acres Greater Than 10 With House	1	\$233,814
Apartment	2	\$6,309,870
Commercial	3	\$7,641,736
EXEMPT	4	\$95,496,995
HOA	3	-
Part Exempt	2	\$369,123
Residential Less Than 10 Acres	1,340	\$393,252,705
Grand Total	1,355	\$503,304,243

Source: Wake County Open Data; retrieved April 8, 2019

There are three listings on the National Register of Historic Places for the Town of Rolesville. These sites are listed in the table below.

Table J.7 – Historic Properties

Ref#	Property Name	Status Date	Category	City
89002158	Green--Hartsfield House	12/21/1989	Building	Rolesville
02001728	Heartsfield--Perry Farm	1/23/2003	Building	Rolesville
03000966	Young, Dr. Lawrence Branch, House	9/25/2003	Building	Rolesville

Source: National Parks Service, National Register of Historic Places, October 2018

Housing

The following table details key housing statistics for Rolesville as compared to the County overall.

Table J.8 – Housing Statistics, Rolesville, 2010-2017

Jurisdiction	Housing Units (2010)	Housing Units (2017)	Housing Units Percent Change (2010-2017)	Owner-Occupied, % (2017)	Vacant Units, % (2017)	Median Home Value (2017)
Wake County total	371,836	411,632	10.7%	59.5%	7.2%	\$250,700
Town of Rolesville	1,341	2,355	75.6%	73.1%	12.6%	\$273,900

Source: U.S. Census Bureau 2010 Decennial Census, American Community Survey 2013-2017 5-Year Estimates

Note: Owner-Occupied and vacant-unit measures are reported as a percent of the total number of housing units.

Economy

The following tables present key economic statistics for Rolesville as compared to the County overall.

Table J.9 – Employment Statistics, Rolesville, 2017

Jurisdiction	Population in Labor Force	Percent Employed* (%)	Percent Unemployed* (%)	Percent Not in Labor Force* (%)	Unemployment Rate (%)
Wake County	564,096	67.2	3.5	29.2	4.9
Town of Rolesville	3,334	67.3	8.0	24.7	10.6

Source: U.S. Census Bureau, American Community Survey 2013-2017 5-Year Estimates

Note: This table reports only the civilian labor force. The labor force in armed services accounted for 0.3% or less of the population 16 and over in all jurisdictions. *Population employed, population unemployed, and Population not in labor force are reported as a percent of the total population aged 16 years and older.

Table J.10 – Percent of Employed Population by Occupation, Rolesville, 2017

Occupation	Management, business, science and arts (%)	Service (%)	Sales and Office (%)	Natural Resources, Construction, and Maintenance (%)	Production, transportation, and material moving (%)
Wake County	50.1	13.8	23.4	6.0	6.7
Town of Rolesville	54.0	15.8	22.8	1.6	5.8

Source: U.S. Census Bureau, American Community Survey 2013-2017 5-Year Estimates

J.3 RISK ASSESSMENT

This section contains a hazard profile and vulnerability assessment for those hazards that were rated with a higher priority for the Town of Rolesville than for Wake County as a whole. Risk and vulnerability findings are also presented here for those hazards that are spatially defined and have variations in risk that could be evaluated quantitatively on a jurisdictional level. The hazards included in this section are: Flood and Wildfire.

J.3.1 Flood

Table J.11 details the acreage of the Town of Rolesville by flood zone on the effective DFIRM. Per this assessment, just over 1 percent of the Town of Rolesville falls within the mapped 1%-annual-chance floodplains.

Table J.11 – Flood Zone Acreage in the Town of Rolesville

Flood Zone	Acreage	Percent of Total (%)
Zone A	30.83	0.39
Zone AE	74.64	0.93
Zone X (500-year)	15.21	0.19
Zone X Unshaded	7,865.05	98.49
Total	7,985.73	--

Source: FEMA Effective DFIRM; Wake County GIS

Figure J.3 reflects the effective mapped flood hazard zones for the Town of Rolesville, and Figure J.4 displays the depth of flooding estimated to occur in these areas during the 1%-annual-chance flood.

To supplement the IRISK assessment of property at risk from the 1% annual chance flood event in Section 4 and provide a clearer picture of the current property at risk in PLACE, current parcel data was evaluated to identify parcels developed since 2010. Using GIS analysis, parcels developed after 2010 were compared to the boundaries of the 1% annual chance floodplain to identify the exposure of newly developed property to the base flood. In most cases, a parcel was considered exposed to the floodplain if any portion of the parcel was located in the floodplain.

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This assessment does not evaluate flood impacts or provide damage estimates. However, this summary of development in or near the floodplain since 2010 provides some context to understand the degree to which the IRISK exposure and vulnerability numbers differ from current conditions.

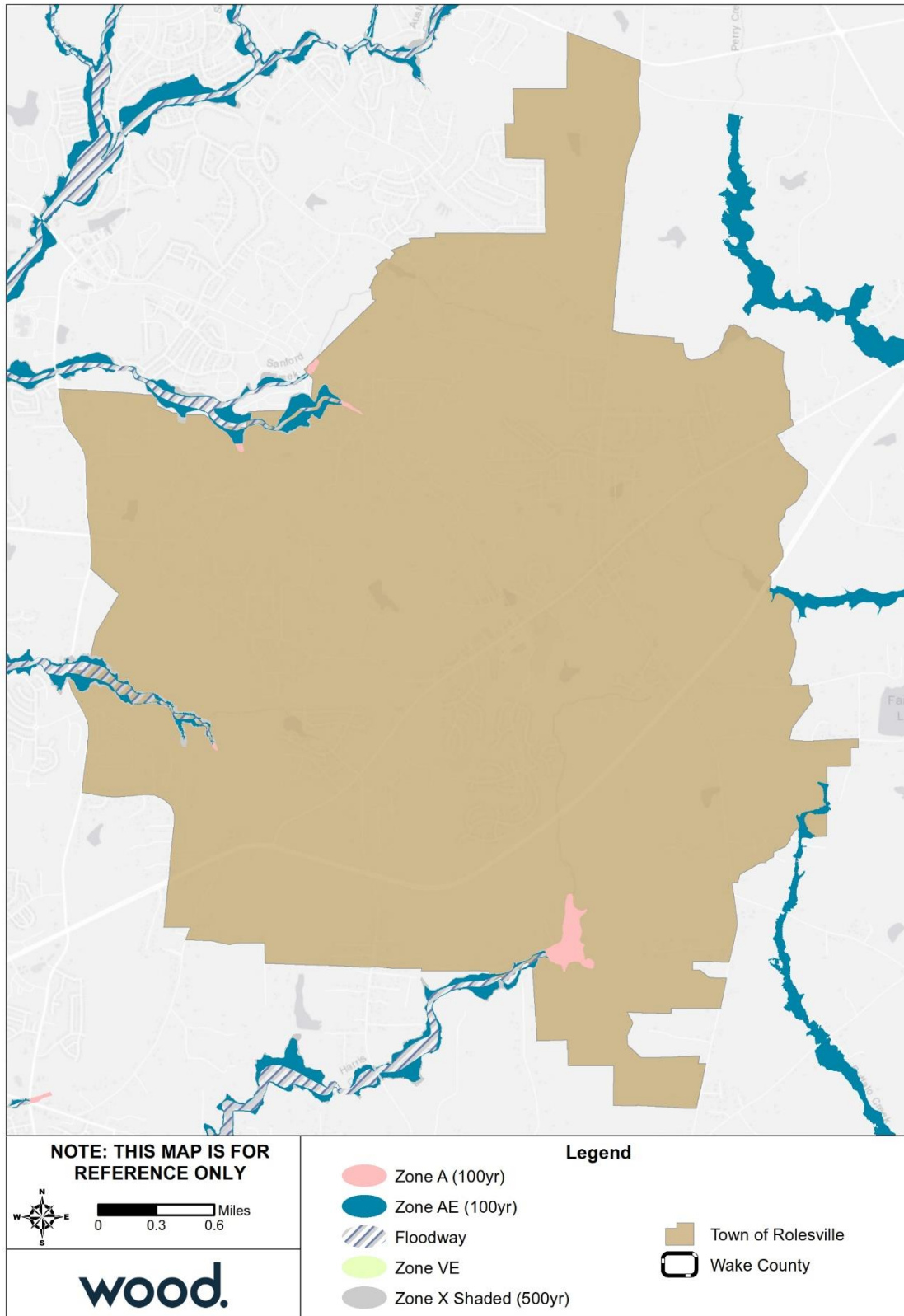
Table J.12 provides a summary by land class of parcel development located in the 1% annual chance floodplain from January 2011 to April 2019.

Table J.12 – Parcels Developed 2011 or Later and Located in 100-Year Floodplain, Town of Rolesville

Land Class	Number of Parcels	Sum of Building Value
EXEMPT	1	\$56,241,696
Residential Less Than 10 Acres	11	\$3,075,165
Grand Total	12	\$59,316,861

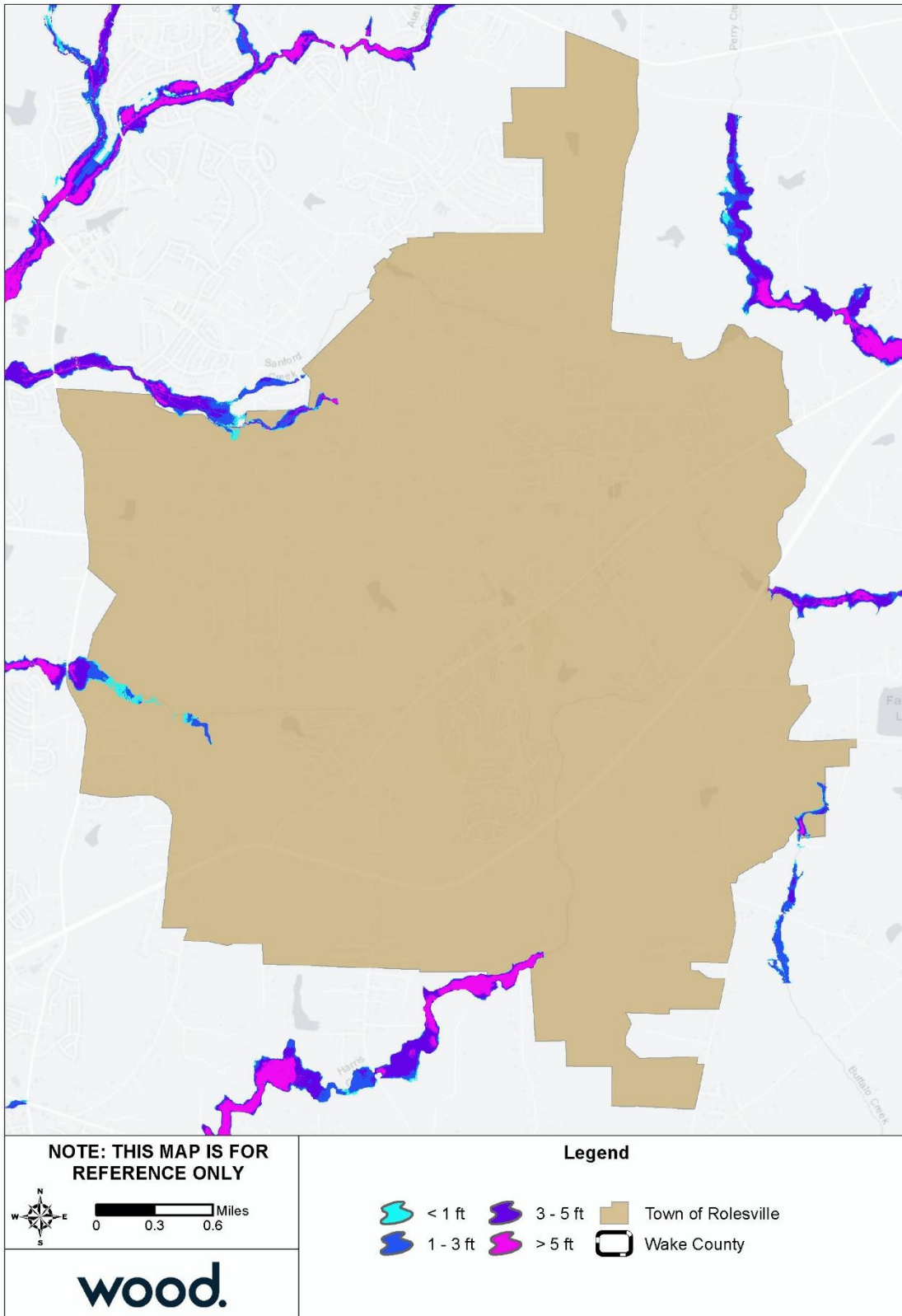
Source: Wake County Open Data; retrieved April 8, 2019; FEMA Effective DFIRM

Figure J.3 – Flood Zone Acreage in the Town of Rolesville



Source: FEMA Effective DFIRM

Figure J.4 – Flood Depth, 1%-Annual-Chance Floodplain, Town of Rolesville



Source: FEMA Effective DFIRM

J.3.2 Wildfire

Table J.13 summarizes the acreage in the Town of Rolesville that falls within the Wildland Urban Interface (WUI), categorized by housing density. Areas in the WUI are those where development may intermix with flammable vegetation. Over 15 percent of the Town of Rolesville is not included in the WUI.

Table J.13 – Wildland Urban Interface Acreage, Town of Rolesville

	Housing Density	Total Acreage	Percent of Total Acreage
	<i>Not in WUI</i>	1,246.2	15.6%
	LT 1hs/40ac	1,035.0	13.0%
	1hs/40ac to 1hs/20ac	964.4	12.1%
	1hs/20ac to 1hs/10ac	1,038.5	13.0%
	1hs/10ac to 1hs/5ac	1,072.0	13.4%
	1hs/5ac to 1hs/2ac	1,180.4	14.8%
	1hs/2ac to 3hs/1ac	1,445.6	18.1%
	GT 3hs/1ac	3.7	0.0%
	Total	7,985.7	

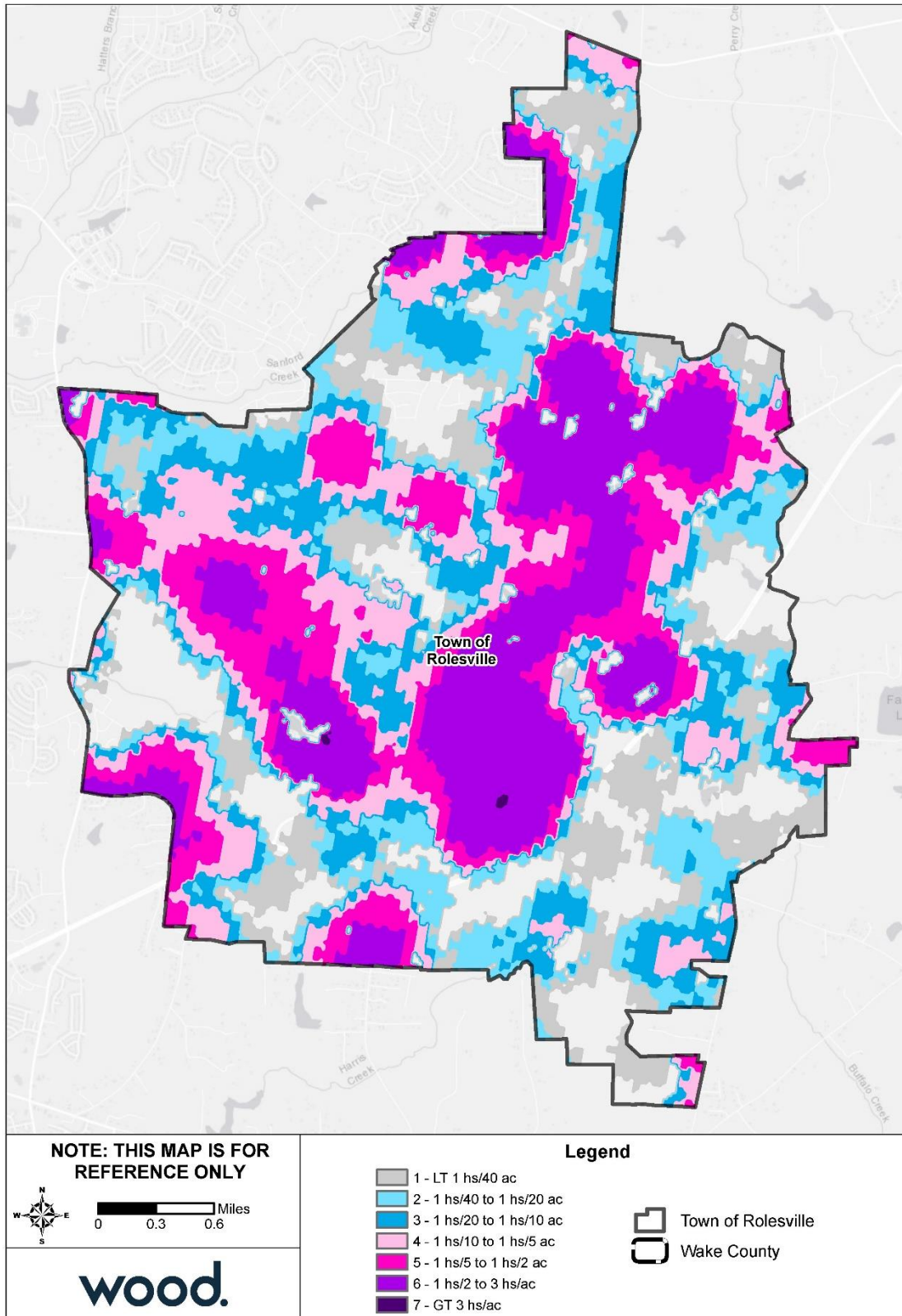
Source: Southern Wildfire Risk Assessment

Potential fire intensity is highest in west, south, and northwest Rolesville. These areas, however, are largely outside of the WUI. Additionally, the town has a whole has a low burn probability.

Figure J.5 depicts the WUI for the Town of Rolesville. The WUI is the area where housing development is built near or among areas of vegetation that may be prone to wildfire. Figure J.6 depicts the Fire Intensity Scale, which indicates the potential severity of fire based on fuel loads, topography, and other factors. Figure J.7 depicts Burn Probability based on landscape conditions, percentile weather, historical ignition patterns, and historical prevention and suppression efforts.

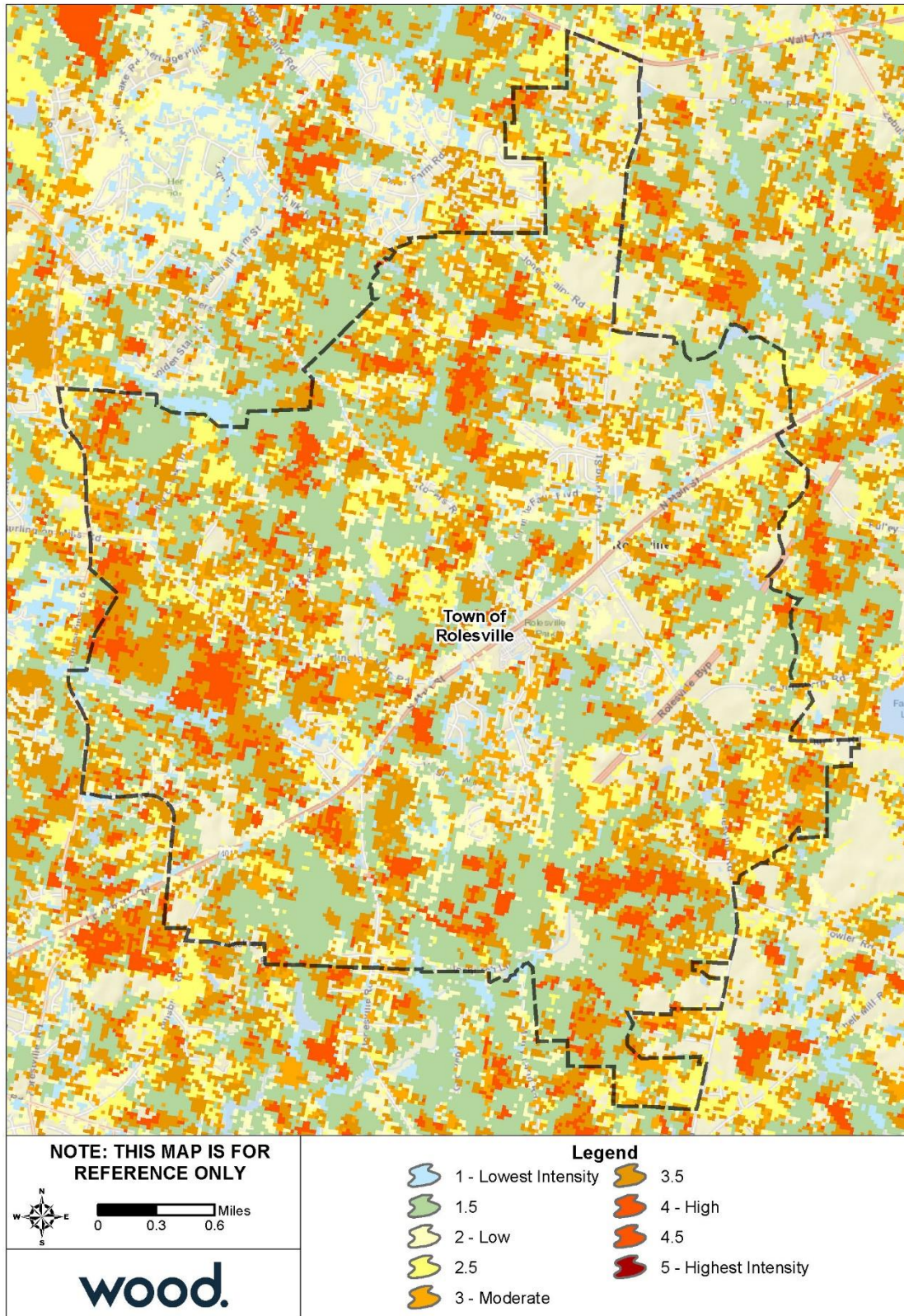
Potential fire intensity is highest in west, south, and northwest Rolesville. These areas, however, are largely outside of the WUI. Additionally, the town has a whole has a low burn probability.

Figure J.5 – Wildland Urban Interface, Town of Rolesville



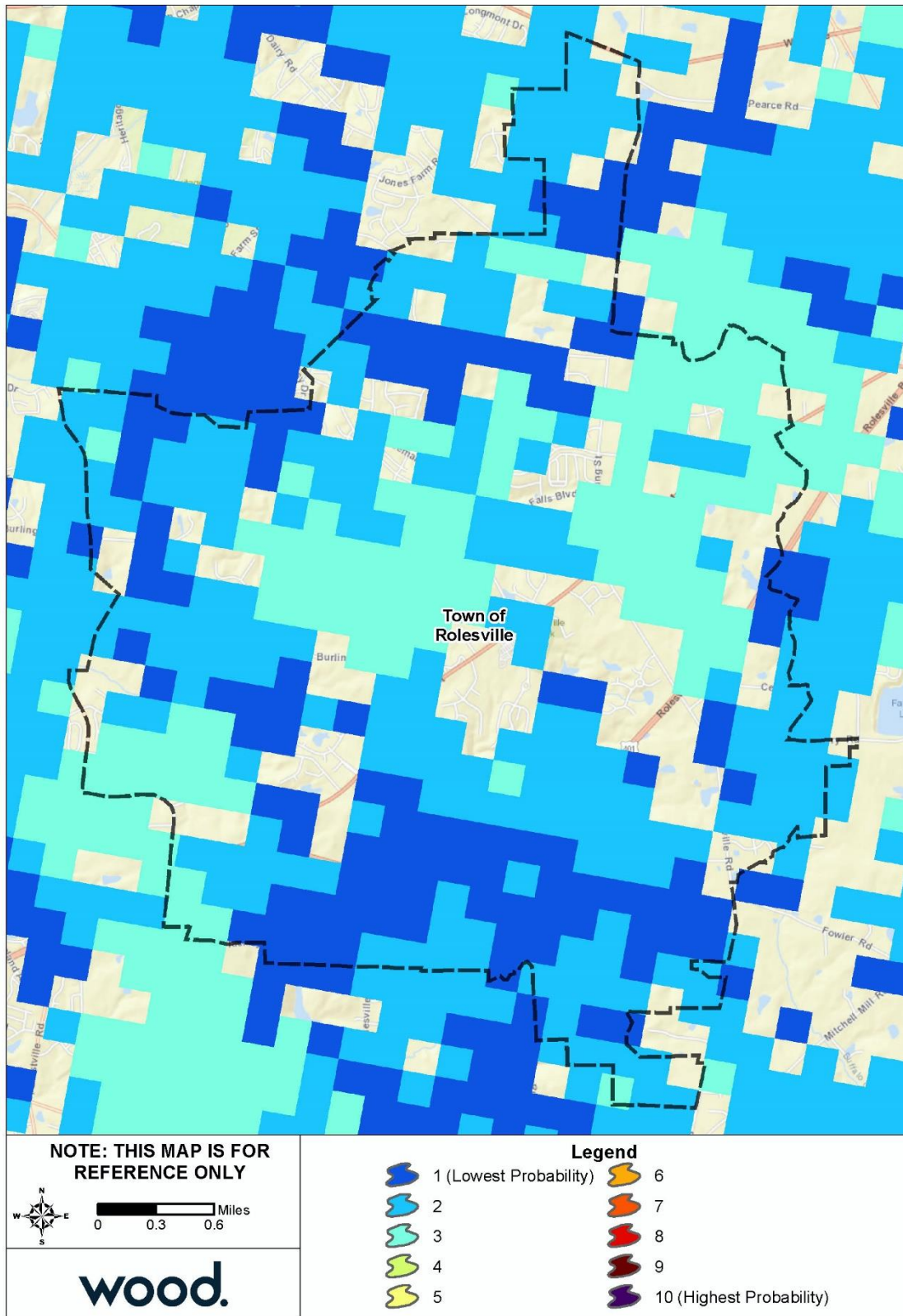
Source: Southern Wildfire Risk Assessment

Figure J.6 – Fire Intensity Scale, Town of Rolesville



Source: Southern Wildfire Risk Assessment

Figure J.7 – Burn Probability, Town of Rolesville



Source: Southern Wildfire Risk Assessment

J.4 CAPABILITY ASSESSMENT

J.4.1 Overall Capability

Details on the tools and resources in place and available to the Town of Rolesville were provided by the Town’s HMPC representatives and are summarized in Section 5 Capability Assessment. Based on that information and using the scoring methodology detailed in that section, Rolesville has an overall capability rating of Moderate. The Town’s Self-Assessment of key capability areas is summarized in Table J.14 below.

Table J.14 – Capability Self-Assessment, Rolesville

Capability Area	Rating
Plans, Ordinances, Codes and Programs	High
Administrative and Technical Capability	High
Fiscal Capability	Moderate
Education and Outreach Capability	Moderate
Mitigation Capability	Moderate
Political Capability	Moderate
Overall Capability	Moderate

J.4.2 Floodplain Management

The Town of Rolesville joined the NFIP as a regular participant in July 2001. The following tables reflect NFIP policy and claims data for the Town categorized by structure type, flood zone, Pre-FIRM and Post-FIRM.

Table J.15 – NFIP Policy and Claims Data by Structure Type

Structure Type	Number of Policies in Force	Total Premium	Insurance in Force	Number of Closed Paid Losses	Total of Closed Paid Losses
Single Family	15	\$5,495	\$4,417,000		
2-4 Family	0	\$0	\$0		
All Other Residential	0	\$0	\$0		
Non-Residential	0	\$0	\$0		
Total	15	\$5,495	\$4,417,000	0	\$0.00

Source: FEMA Community Information System, accessed November 2018

Table J.16 – NFIP Policy and Claims Data by Flood Zone

Flood Zone	Number of Policies in Force	Total Premium	Insurance in Force	Number of Closed Paid Losses	Total of Closed Paid Losses
A01-30 & AE Zones	0	\$0	\$0		
A Zones	0	\$0	\$0		
AO Zones	0	\$0	\$0		
AH Zones	0	\$0	\$0		
AR Zones	0	\$0	\$0		
A99 Zones	0	\$0	\$0		
V01-30 & VE Zones	0	\$0	\$0		
V Zones	0	\$0	\$0		
D Zones	0	\$0	\$0		
B, C & X Zone					

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Flood Zone	Number of Policies in Force	Total Premium	Insurance in Force	Number of Closed Paid Losses	Total of Closed Paid Losses
Standard	0	\$0	\$0		
Preferred	15	\$5,495	\$4,417,000		
Total	15	\$5,495	\$4,417,000	0	\$0.00

Source: FEMA Community Information System, accessed November 2018

Table J.17 – NFIP Policy and Claims Data Pre-FIRM

Flood Zone	Number of Policies in Force	Total Premium	Insurance in Force	Number of Closed Paid Losses	Total of Closed Paid Losses
A01-30 & AE Zones	0	\$0	\$0		
A Zones	0	\$0	\$0		
AO Zones	0	\$0	\$0		
AH Zones	0	\$0	\$0		
AR Zones	0	\$0	\$0		
A99 Zones	0	\$0	\$0		
V01-30 & VE Zones	0	\$0	\$0		
V Zones	0	\$0	\$0		
D Zones	0	\$0	\$0		
B, C & X Zone	2	\$724	\$630,000		
Standard	0	\$0	\$0		
Preferred	2	\$724	\$630,000		
Total	2	\$724	\$630,000	0	\$0.00

Source: FEMA Community Information System, accessed November 2018

Table J.18 – NFIP Policy and Claims Data Post-FIRM

Flood Zone	Number of Policies in Force	Total Premium	Insurance in Force	Number of Closed Paid Losses	Total of Closed Paid Losses
A01-30 & AE Zones	0	\$0	\$0		
A Zones	0	\$0	\$0		
AO Zones	0	\$0	\$0		
AH Zones	0	\$0	\$0		
AR Zones	0	\$0	\$0		
A99 Zones	0	\$0	\$0		
V01-30 & VE Zones	0	\$0	\$0		
V Zones	0	\$0	\$0		
D Zones	0	\$0	\$0		
B, C & X Zone	13	\$4,771	\$3,787,000		
Standard	0	\$0	\$0		
Preferred	13	\$4,771	\$3,787,000		
Total	13	\$4,771	\$3,787,000	0	\$0.00

Source: FEMA Community Information System, accessed November 2018

J.5 MITIGATION STRATEGY

Town of Rolesville											
Action #	Description	Goal	Objective	Hazard(s) Addressed	Relative Priority	Lead Agency/ Department	Estimated Cost	Potential Funding Sources	Implementation Schedule	2019 Status	Status Comments/Explanation
Prevention											
P-1	Provide backup power for all critical public facilities (wastewater treatment plant, sewer pump stations, Public Works and Utilities building, etc.) to ensure continued utility service during power loss.	3	1	All	Moderate	City of Raleigh	Cost varies by facility	Local	1 year	In-Progress – Carry Forward	City of Raleigh has updated sewer pump stations with backup power, no upgrade of Town buildings but intended for future budgets.
P-2	Transportation Plan – Continue to address disaster preparedness (evacuation) through road interconnectivity, paved roads, and widening of roads.	3	2	All	Moderate	Rolesville Planning	Staff Time	Local	1 year	In-Progress – Carry Forward	Town has policy for new development connectivity and is implemented with each new development. New Transportation Plan targeted in mid-year 2019.
P-3	Update Rolesville Stormwater Management Plan for operation/implementation and program effectiveness and study the possible changes	4	1	Flood	Moderate	Rolesville Administration	Staff Time	Local	2-3 years	New	N/A
Structural Projects											
SP-1	Install emergency power backup generator for Town Hall and Police Station to ensure continued operation of government during power loss.	3	2	All	High	Rolesville Administration	Over \$100,000	Local	2 years	New	N/A
Emergency Services											
ES-1	Implement Wake County Everbridge text alert system to notify citizens in real time of an event of local interest with instructions.	1	2	All	High	Rolesville Administration	Staff Time	Local	1 year	New	N/A
Public Education and Awareness											
PEA-1	Town website - develop hazard mitigation section covering such items as public access, evacuation routes, emergency contact numbers, and detailed weather reports in case of emergency,	1	1	All	Moderate	Rolesville Administration	Staff Time	Local	1 year	In-Progress – Carry Forward	Town is in the process of new Town's Website development and development of a hazard mitigation section will be included by Spring of 2019.