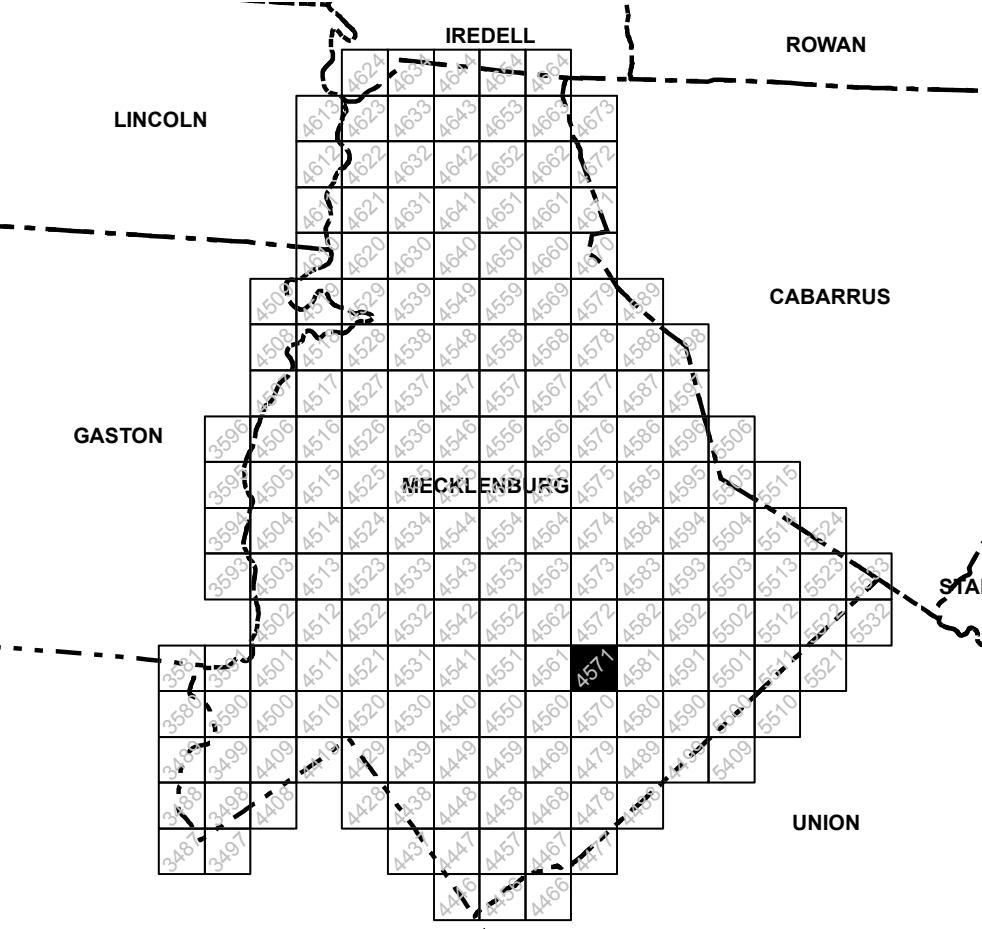


**STATE OF NORTH CAROLINA FIRM PANEL LOCATOR DIAGRAM**

**DATUM INFORMATION**

The projection used in the preparation of this map was the North Carolina State Plane (FIPSZONE 3200). The horizontal datum was the North American Datum of 1983, GRS80 ellipsoid. Differences in datum, ellipsoid, projection, or Universal Transverse Mercator zones used in the production of FIRMS for adjacent jurisdictions may result in slight positional differences in map features across jurisdictional boundaries. These differences do not affect the accuracy of this FIRM. All coordinates on this map are in U.S. Survey Feet, where 1 U.S. Survey Foot = 1200/3937 Meters.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988 (NAVD 88). These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. An average offset between NAVD 88 and the National Geodetic Vertical Datum of 1929 (NGVD 29) has been computed for each North Carolina county. This offset was then applied to the NGVD 29 flood elevations that were not revised during the creation of this statewide format FIRM. The offsets for each county shown on this FIRM panel are shown in the vertical datum offset table below. Where no offset exists, a flooding source with unrevised NGVD 29 flood elevations are coincident, an individual offset has been calculated and applied during the creation of this statewide format FIRM. See Section 6.1 of the accompanying Flood Insurance Study report to obtain further information on the conversion of elevations between NAVD 88 and NGVD 29. For current vertical datum offset values, and location information for bench marks shown on this map, please contact the North Carolina Geodetic Survey at the address shown below. You may also contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or its website at <http://www.ngs.noaa.gov>.

North Carolina Geodetic Survey  
121 West Jones Street  
Raleigh NC 27601  
(919) 733-3836  
<http://www.ngs.state.nc.us>

County Average Vertical Datum Offset Table	
County	Vertical Datum Offset (ft)
MECKLENBURG	-0.74

Example: NAVD 88 = NGVD 29 + (-0.74)

All streams listed in the **Flood Hazard Data Table** below were studied by detailed methods using field survey. Other flood hazard data shown on this map may have been derived using either a coastal analysis or limited detailed Riverine analysis. More information on the flooding sources studied by these analyses is contained in the Flood Insurance Study report.

Cross Section	Stream Station	1% Annual Chance (100-year) Water-Surface Elevation (ft NAVD88)		Floodway	Community Encroachment Line
		Existing Land Use Condition	Future Land Use Condition		
IRVING CREEK	010	978.7	6,648	582.4	100 / 360
MALCPINE CREEK	76	76,200	10,433	11,879	574.0
	76	76,200	10,433	11,879	574.4
	760	76,200	10,433	11,879	574.4
	792	79,175	10,433	11,879	574.4
	805	80,500	10,433	11,879	574.8
	817	81,700	10,433	11,879	575.1
	829	82,900	10,433	11,879	575.2
	843	84,300	10,433	11,879	581.0
	853	85,300	5,172	5,922	582.5
	865	86,500	5,172	5,922	584.4
				340 / 240	500 / 275

feet above confluence w/ McAlpine Creek - feet above mean elevation includes backflow from McAlpine Creek.

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