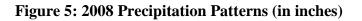
coast of the state approximately one to two times per year, most often in the late summer and early fall. Since W. Kerr Scott Reservoir is located well inland, the main impact of hurricanes felt at the reservoir is increased precipitation.

Table 3: Historical Climate Report	
Climate Phenomenon	Annual
Average High Temperature (degrees Fahrenheit)	68.9
Average Low Temperature (degrees Fahrenheit)	42.8
Average Total Precipitation (inches)	50.0
Average Total Snowfall (inches)	9.9



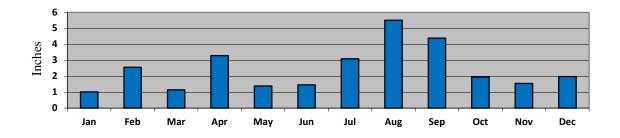
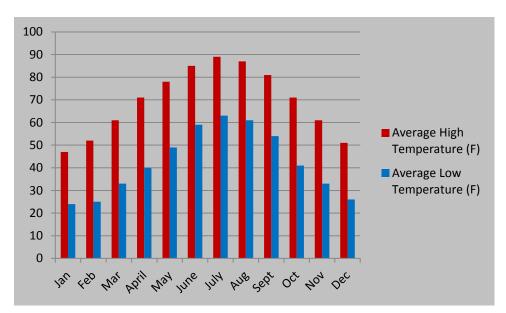


Figure 6: Annual High and Low Temperatures (degrees Fahrenheit)



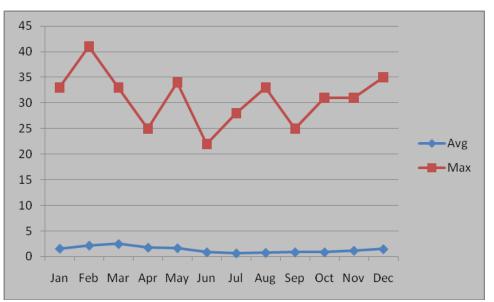


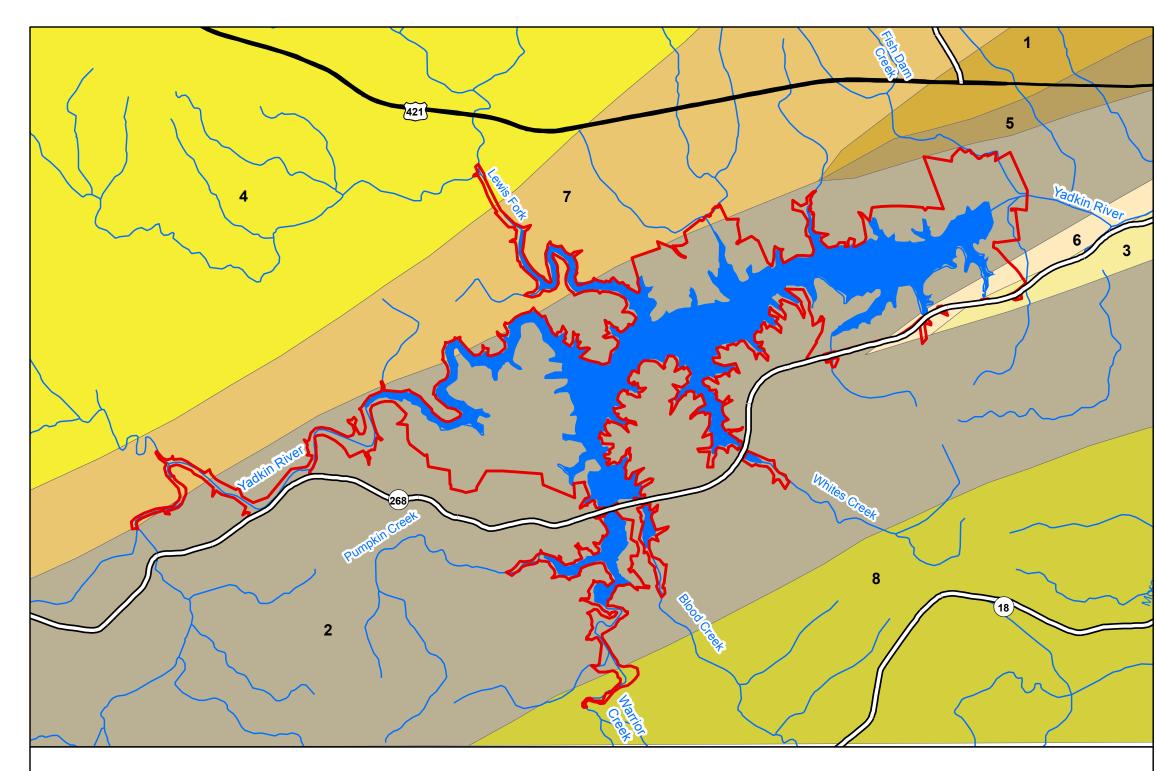
Figure 7: 2008 Average and Maximum Wind Speeds (mph)

2.8 Geology, Topography, and Soils

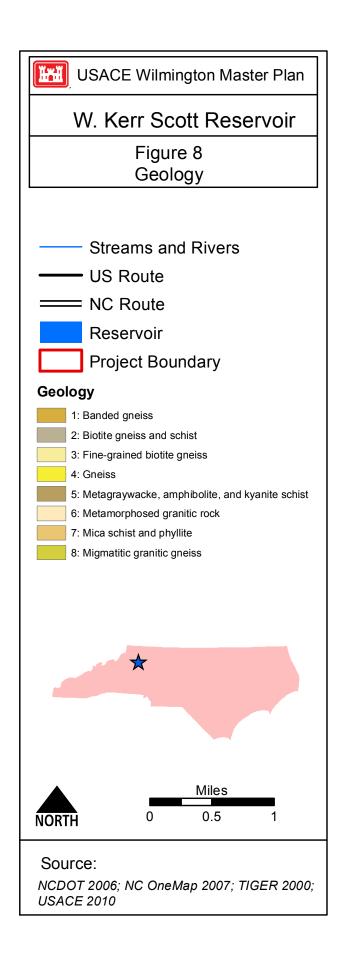
The local geology (Appendix H, Figure 8), topography (Appendix H, Figure 9), and soils have been an important influence in the development and management of W. Kerr Scott Reservoir. The relationship between these three resources dictates the type of vegetation that can succeed in a given area, the availability of ground water, susceptibility to flooding, and appropriate recreational uses. Since the publication of the 1983 Master Plan, there have been limited changes to the topography, geology, or soils on project lands. Any measureable changes that have occurred have been a result of the construction of new facilities or shoreline erosion. The development of new facilities has required grading of existing land surface, construction of impervious surfaces over undeveloped soils, and some subsurface disturbance to access utilities or ground water supplies. Shoreline erosion also results in changes in topography within a confined area; however, the cumulative effects of shoreline erosion can result in more notable impacts to soils and geologic resources. As the shoreline erodes, the subsurface rocks and minerals are exposed to similar erosive conditions.

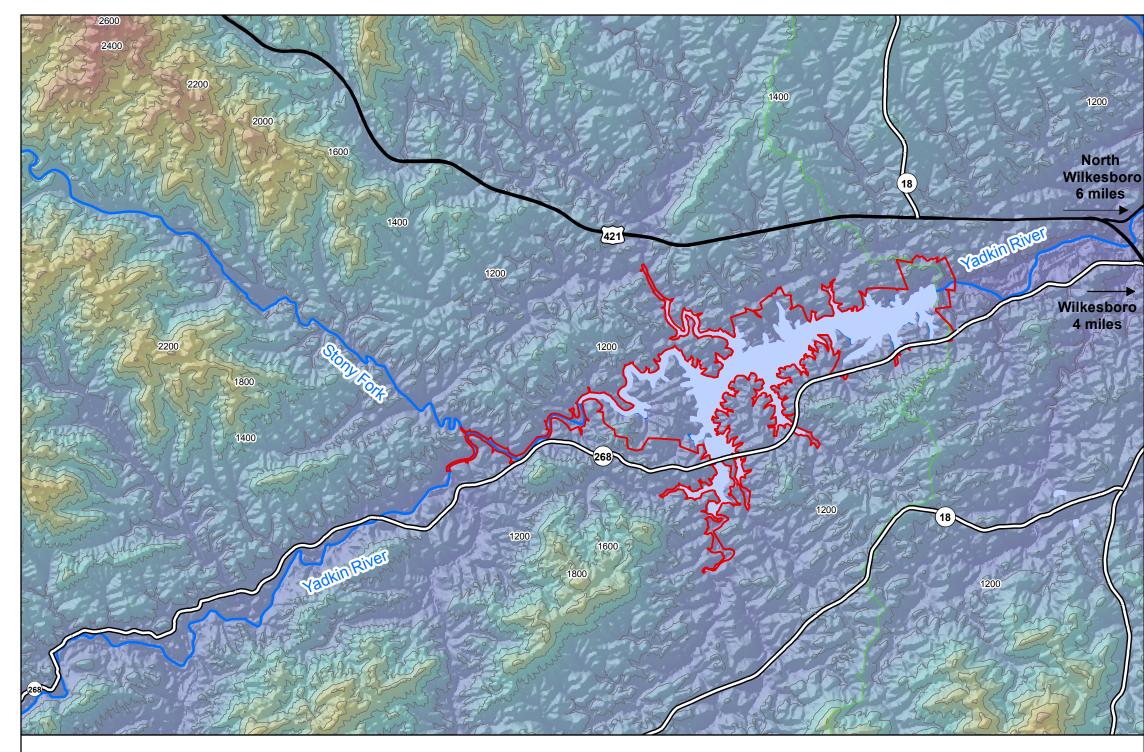
2.8.1 Geology

The project is located within the inner belt of the Piedmont physiographic province between the Blue Ridge and Brushy Mountain ranges (Appendix H, Figure 4). The general area is underlain by ancient metamorphic rocks of sedimentary origin, most of which belong to a broad geologic group known as the "Carolina Gneiss" (USACE 1983). Since the publication of the 1983 Master Plan, there has been little development that may have impacted geologic resources. The geology beneath the project lands has an impact on soil conditions, described below, and ground water, discussed under Section 2.3.2.

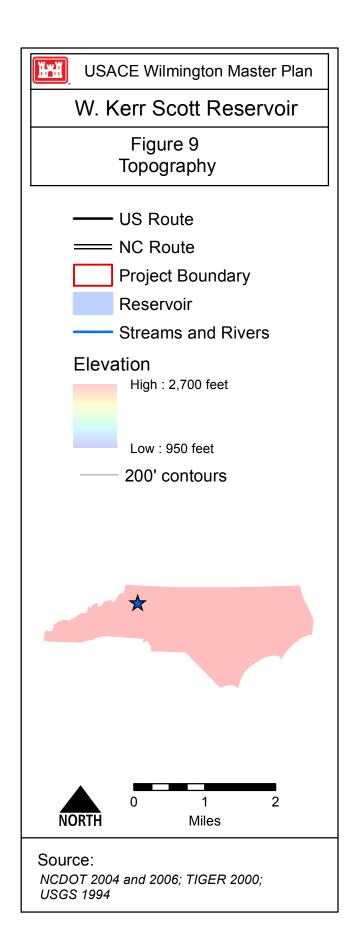


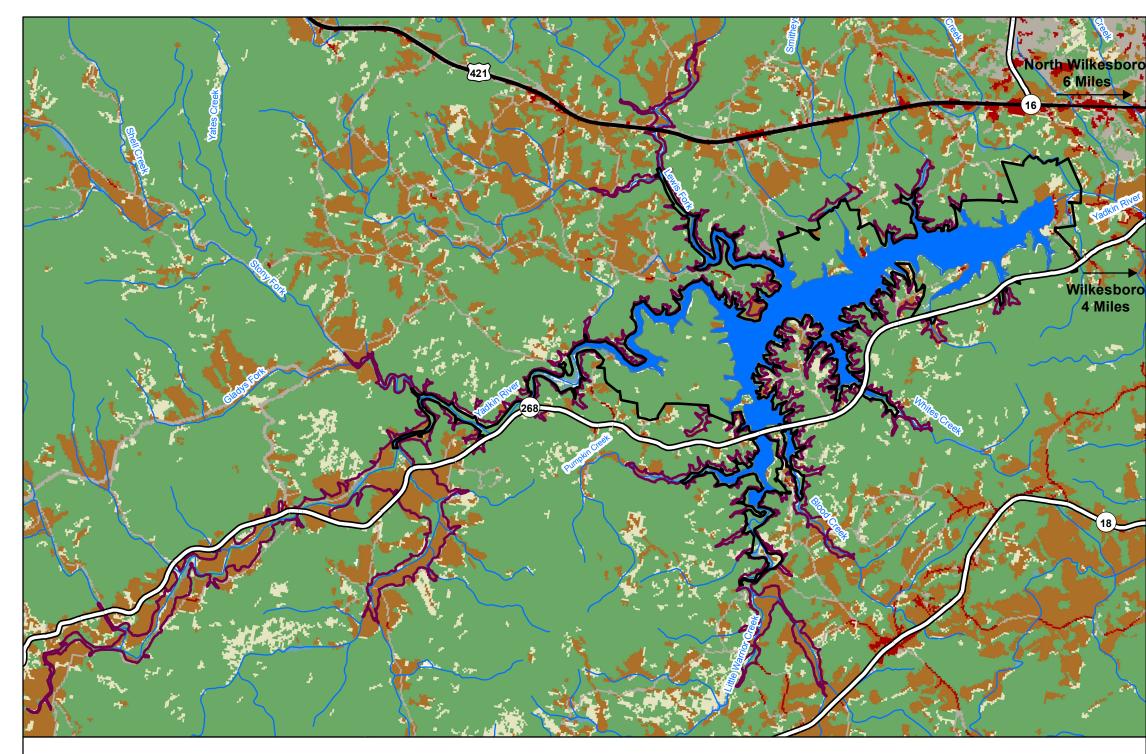
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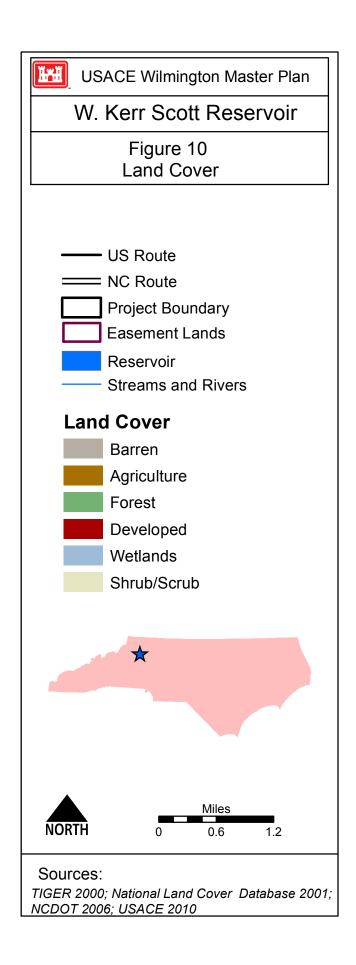


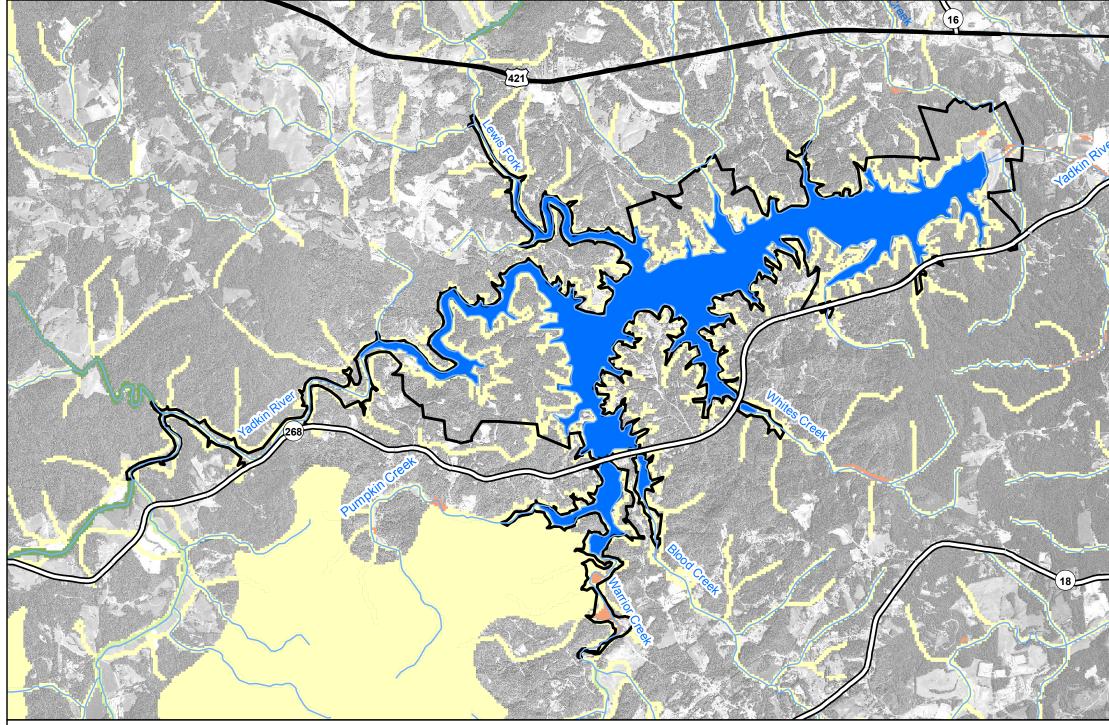
Located in the foothills of the Blue Ridge Mountains, the topography within the W. Kerr Scott Reservoir watershed is rather varied. Elevations drop to approximately 950 feet msl within the floodplain below the reservoir before rising to nearly 2,700 feet msl in the upper reaches of the watershed (USACE 1983).





Adjacent to the project lands, forest and agriculture are the predominant land uses, with pockets of single family residential development along the north and south shores of the reservoir. Higher density commercial and residential development is concentrated about 5 miles east of the project, in the twin towns of Wilkesboro and North Wilkesboro. These towns contain the area's highest concentration of commercial, industrial, and visitor services.





Fish and wildlife resources are influenced by regional and site specific conditions, including climate, water supply and quality, as well as appropriate habitat for breeding, nesting, and feeding. Continued monitoring of wildlife species, along with the development and maintenance of WMA's will allow the USACE to maintain and promote fish and wildlife resources at W. Kerr Scott Reservoir. The conservation priority values range from "moderate" (1) to a "maximum" (10) focusing on areas that warrant the most urgent, most intensive or strongest efforts at protection. No values below a score of 1 were assigned, nor are shown in this map.

