The Charles City Quadrangle is located in Floyd County, rural central Iowa. The mapped area includes only bedrock exposures, including quarries and a limestone quarry within the mapping area. The land surface of this mapping area is mostly covered by Quaternary deposits with a thickness less than 6 m (20 ft) in bedrock valley sections and over 45 ft above sea level. The maximum thickness of the Quaternary deposits is about 130 ft. Due to the complex bedrock topography, minor structural features and lack of field observations, this bedrock mapping project was completed at 1:24,000 scale, grid spacing of 6 m (20 ft), and 63 grid cells were logged and studied, which provided important regional stratigraphic information for the bedrock geologic mapping of the Iowa Basin.

The Middle Devonian carbonate rocks form the important lithographic city formation. Map interpretations are not a substitute for detailed site specific studies. Bedrock topography and bedrock mapping projects provide important regional geologic information for the geologic studies in the Iowa Basin. Recent important studies of the Iowa Basin include Witzke and Bunker (1984), Anderson (1984), McKay and Liu (2012), and Day and others (2006, 2008). Geologic mapping projects at 1:24,000 scale, mapping area included within the Iowa Geological Survey (IGS) GEOSAM database. Within the mapping area, a total of 328 grid cells were accessed and studied, which provided important regional stratigraphic information for the bedrock geologic mapping of the Iowa Basin.

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Bedrock stratigraphic information from the surrounding area, including bedrock outcrops, quarries, and scattered Cretaceous deposits. Recent important studies of the Iowa Basin include Witzke and Bunker (1984), Anderson (1984), McKay and Liu (2012), and Day and others (2006, 2008). The Middle and lower Upper Devonian carbonate rocks form the important lithographic city formation. Map interpretations are not a substitute for detailed site specific studies. Bedrock topography and bedrock mapping projects provide important regional geologic information for the geologic studies in the Iowa Basin.

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