

**Description of Map Units**

QUATERNARY SYSTEM

HOLOCENE

- Ha** **Alluvium**—Undifferentiated deposits of small upland streams; alluvial deposits of minor streams and creeks of varying textures, filling valleys incised into older deposits.
- Hb** **Backswamp deposits**—Fine-grained Holocene deposits of rivers, underlying the flood basins between meander belts.
- Hrbp** **Red River point bar deposits**—Point bar deposits underlying meander belts of the Red River. (This map depicts a union of Hrbp1 through Hrbp8)
- Hrl** **Red River natural levee deposits**—deposits forming low natural levees flanking the meander belts of the Red River.
- Hrd** **Red River distributary deposits**—silty to clayey, reddish brown sediments that form the narrow natural levees of distributaries that extend from Red River meander belts into the adjacent backswamps.
- Hrc** **Red River channel remnants**—sinuous tonal patterns interpreted to be abandoned Red River channels, buried beneath backswamp deposits.

PLEISTOCENE

- DEWEYVILLE ALLOGROUP**
- Pd** **Deweyville Allogroup, undifferentiated**—alluvial deposits of ancestral late Pleistocene coastal plain streams and certain Mississippi River tributaries including the Red, Ouachita, Sabine, Calcasieu, Pearl, and Bogue Chitto valleys. Multiple levels are locally recognized.
- PRAIRIE ALLOGROUP**
- Ppl** **Upper Prairie Allogroup**—Late Pleistocene alluvial deposits of the younger of the Prairie Allogroup temporal phases of the Red River valley. Where observed in the area northwest of Shreveport, the unit consists of grayish clayey very fine sand, with red mottles in places, weathering yellowish to yellowish brown.

INTERMEDIATE ALLOGROUP

- Pimt** **Montgomery alloformation**—meander belt deposits of the Red River in central Louisiana. The unit is blanketed by yellow loam, incises the Bentley alloformation and older units, and is incised by Prairie Allogroup and Holocene units.
- Pib** **Bentley alloformation**—dissected alluvial deposits of early Pleistocene streams of primarily the Red River in central Louisiana. The unit is blanketed by yellow loam and incises Tertiary formations; it is incised by younger subunits of the Intermediate allogroup, and by the Prairie Allogroup and younger strata. Equivalent to the Natchez Formation of Mississippi.

TERTIARY SYSTEM

MIOCENE

- Mfl** **Lena Formation, Fleming Group**—texturally heterogeneous suite of generally poorly sorted clastic sediments comprising clay, silt/siltstone, and sandstone in varying proportions. Surface exposures in the Alexandria area predominantly comprise grayish, muddy fine to very fine sand, with red mottles in places.
- Mfcb** **Carnahan Bayou Formation, Fleming Group**—texturally heterogeneous suite of generally poorly sorted sediments comprising varying admixtures of sand/sandstone, with granules in places; silt/siltstone; and clay/mud. Primarily clayey very fine to fine sand containing some coarse and very coarse sand with some granules. Granules and pebbles include both quartz and rock fragments, with granules comprising predominantly quartz, and pebbles and cobbles consisting mostly of rock fragments; the rock fragments comprise both lightish clay/mud rip-up clasts, and in places, dark or black chert. Includes petrified wood and thin tuffaceous beds locally.

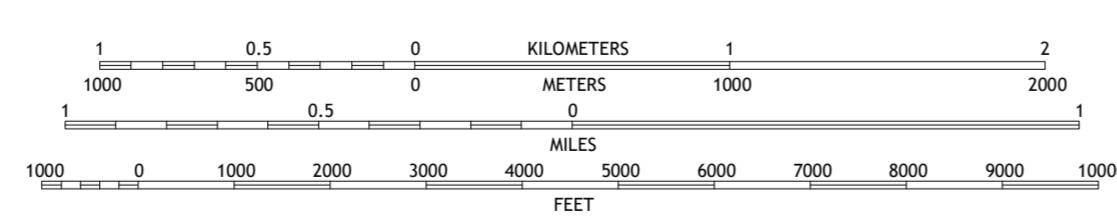
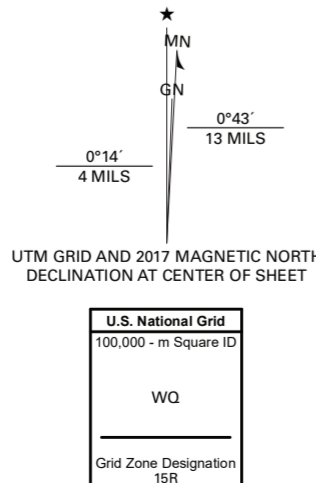
**Open Water, Inundated Area, Swamp**

- Contact**—includes inferred contacts.
- Streams**
- Topographic Contours**

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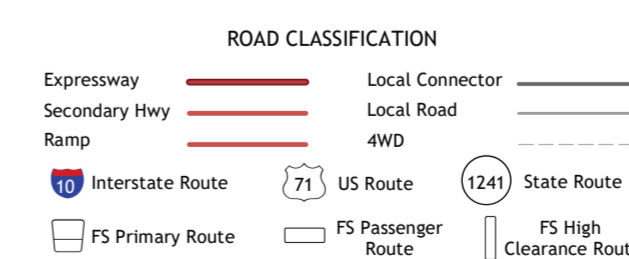
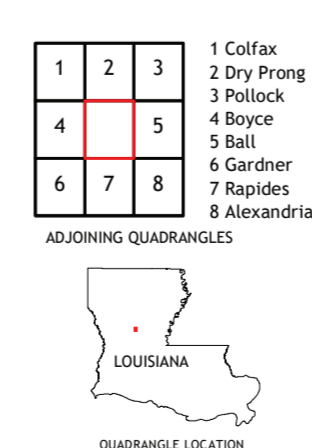
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SCALE 1:24,000

Base map from U.S. Geological Survey 1:24,000 GeoPDF  
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Universal Transverse Mercator Projection, Zone 15  
North American Datum 1983 (NAD 83)  
Contour Interval 10 Feet  
North American Vertical Datum 1988



Base Map.....United States Geological Survey, 2020  
Boundaries.....LaDOTD, 2007  
Contours.....National Elevation Dataset, 2008 - 2011  
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Names.....GNIS, 1980 - 2017  
Roads.....U.S. Census Bureau, 2017  
Wetlands.....FWS National Wetlands Inventory 2021

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**Geologic Map of the Rock Hill 7.5 minute quadrangle  
Grant and Rapides Parishes, Louisiana**