

Description of Map Units

QUATERNARY SYSTEM

- Holoocene**
- Ha** **Holocene undifferentiated alluvium**—Undifferentiated deposits of small upland streams: unconsolidated alluvial deposits of minor streams and creeks filling valleys incised into older deposits, with textures varying from gravelly sand to sandy mud.
 - Hb** **Backswamp deposits**—fine-grained Holoocene deposits of rivers, underlying the flood basins between meander belts.
 - Harm₃** **Arkansas River meander-belt deposits**—point bar deposits underlying meander belt 3 of the Arkansas River.
 - Hod** **Ouachita River distributary deposits**—sandy and silty sediments occupying abandoned courses of a relict distributary system of the Ouachita River. In the Monroe area the sediments comprise yellowish to orangish brown silty very fine sand with varying though relatively small proportions of admixed clay.
 - Hol** **Ouachita River natural levee deposits**—deposits forming low natural levees flanking the meander belts of the Ouachita River. Where observed in the Monroe area the sediments comprise grayish brown silty clay with well developed soil structure.
 - Hocs** **Ouachita River crevasse splay deposits**—sandy and silty sediments forming fanlike crevasse splays that originate from the Ouachita River. Where observed in the Monroe area the sediments comprise interlaminated gray-brown silt and organic-rich, dark clayey silt.
 - Hom** **Ouachita River meander deposits**—point bar deposits underlying meander belts of the Ouachita River.

PLEISTOCENE

- PRAIRIE ALLOGROUP**
- Plu** **Upper Lapine alloformation**—stratigraphically higher sequence underlying the lower of two depositional surfaces of the Lapine alloformation. Silty to sandy clay, and clayey to silty very fine to fine sand, of grayish to dark gray coloration with orange-brown to red mottles. May be veneered locally by silty colluvium.
 - Pli** **Lower Lapine alloformation**—stratigraphically lower sequence underlying the higher of two depositional surfaces of the Lapine alloformation. Tan to light gray fine to very fine sand, in places clayey and/or gravelly, weathering to yellowish brown or orangish brown coloration. Ironstone nodules are common and range in size up to 0.6 m. Contains some admixed dark brown organic material in places. May be veneered locally by silty colluvium.
 - Pli_r** **Lapine alloformation, relict beach ridge**—relict shoreline ridges formed on depositional surfaces of the Lapine alloformation. Grayish very fine to medium sand, in places clayey and/or gravelly, weathering to tan, yellowish brown, orangish brown, or reddish brown coloration. The texture typically becomes clayier away from the ridge crests. The upper 1 to 2 m may consist of a reddish brown weathering zone in places.
 - Plm** **Lapine alloformation meander-belt deposits**—sandy point bar deposits underlying the abandoned course of a meander belt formed on the depositional surface of the upper Lapine alloformation. Grayish clayey very fine to fine sand with orange-brown mottles.

- Open Water, Inundated Area, Wetland**
- Contact**—includes inferred contacts.
- Streams**
- Topographic Contours**

References:
 Andersen, H. V., 1960. Geology of Sabine Parish: Louisiana Department of Conservation, Louisiana Geological Survey, Geological bulletin no. 34, 164 p. plus plates (includes one 1:62,500-scale geologic map).
 Andersen, H. V., 1993. Geology of Natchitoches Parish: Louisiana Geological Survey, Geological bulletin no. 44, 227 p. plus plates (includes one 1:62,500-scale geologic map).

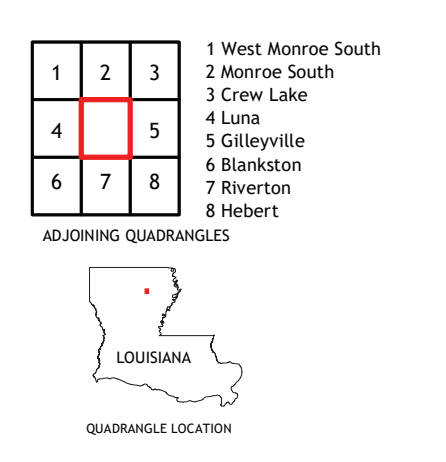
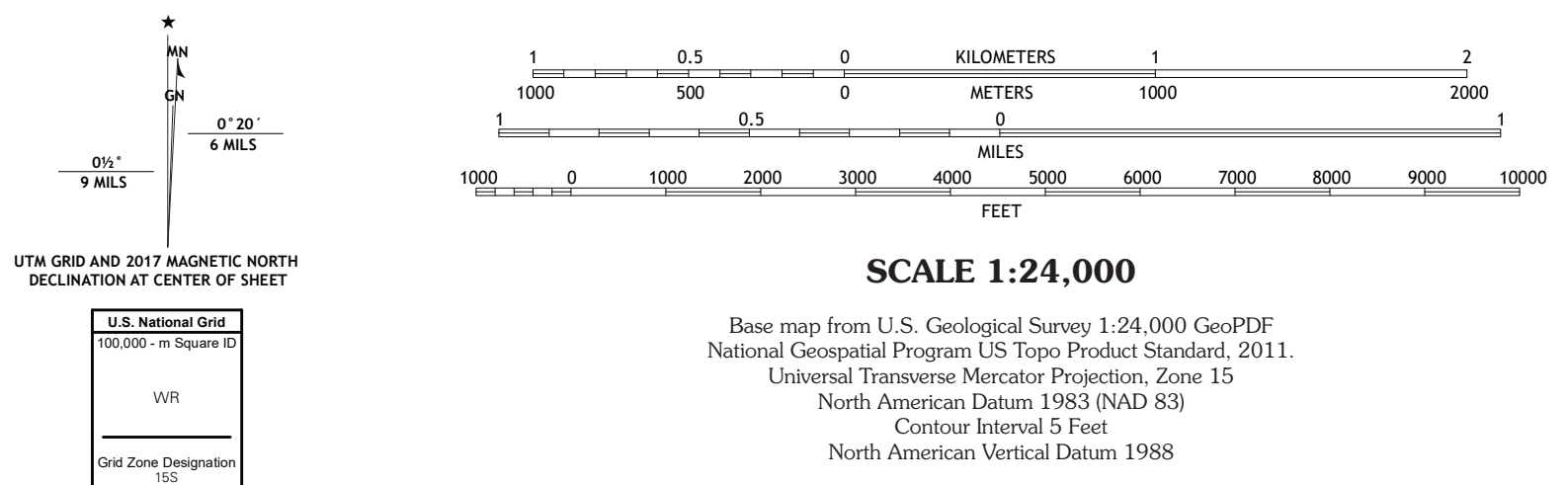
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Base Map.....United States Geological Survey, 2020
 Boundaries.....LaDOTD, 2007
 Contours.....National Elevation Dataset, 2008 - 2011
 Hydrography.....National Hydrography Dataset, 2002 - 2017
 Names.....GNIS, 1980 - 2017
 Roads.....U.S. Census Bureau, 2017
 Wetlands.....FWS National Wetlands Inventory 2021

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Geologic Map of the Bosco 7.5 minute quadrangle Ouachita, Caldwell, and Richland Parishes, Louisiana