

Description of Map Units

QUATERNARY SYSTEM

Holocene

- Hua** **Holocene undifferentiated alluvium**—Undifferentiated deposits of small upland streams; alluvial deposits of minor streams and creeks of varying textures, filling valleys incised into older deposits. Alluvium is not shown in certain contexts where a distinct channel is lacking, primarily in some places where it adjoins alluvial-fan deposits (Qaf).
- Hsm** **Small River meander belt deposits**—Point bar deposits underlying the meander belts of small streams.
- Hb** **Backswamp deposits**—Fine-grained Holocene deposits of rivers, underlying the flood basins between meander belts.
- Hrm** **Red River meander-belt deposits**—Point bar deposits underlying meander belts of the Red River.
- Hrd** **Red River distributary deposits**—Silty to clays, reddish brown sediments that form the narrow natural levees of distributaries that extend from Red River meander belts into the adjacent backswamps.

QUATERNARY UNDIFFERENTIATED

- Qaf** **Quaternary alluvial fan deposits**—Unnamed alluvial fan deposits.

PLEISTOCENE

DEWEYVILLE ALLOGROUP

- Pd** **Deweyville Allogroup, undifferentiated**—Alluvial deposits of the late Pleistocene Red River filling a characteristically overstepped meander belt cut into underlying strata of the Upper Prairie Allogroup on the west side of the valley north of Mooringsport.

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 clay very fine sand, with red mottles in places, weathering yellowish to yellowish brown.

TERTIARY SYSTEM

Pliocene

UPLAND ALLOGROUP

- Pi** **Willis Formation, undifferentiated**—Deeply dissected alluvial sediments deposited by Pliocene streams in west-central and northwestern Louisiana. The unit is unconformably underlain by Tertiary formations of Miocene to Eocene age, and is bounded downward by the Lisse surface.

PALEOCENE-EOCENE

WILCOX GROUP

- PEw** **Wilcox Group, undifferentiated**—Grayish very fine to fine sand, typically clayey, rarely with sparse granules, in places with silty or silty clay interlamination and/or channel cutouts. Typically of gray or light gray coloration with yellow-brown to red mottles in places, ranging to very pale brown with dark yellowish brown mottles; includes gray weathering to strong brown, pale yellow weathering to olive yellow, and pale brown weathering to dark yellowish brown hues. In places contains carbonaceous beds, petrified wood, and ironstone, with ironstone concretions up to 25 cm in diameter. A reddish or grayish to brownish weathering mantle up to 2 m thick is developed locally.

PALEOCENE

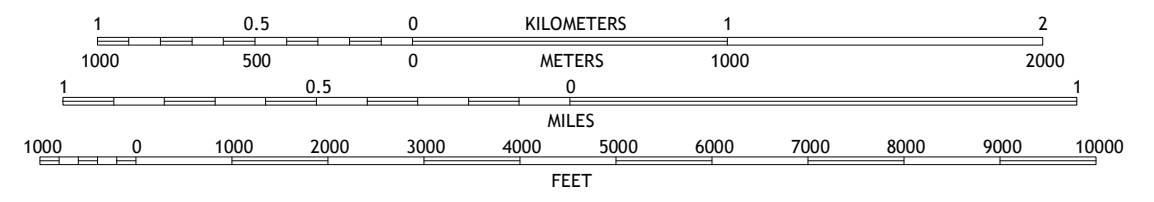
MIDWAY GROUP

- Pm** **Midway Group, undifferentiated**—Laminated fissile silty clay and clayey silt, of dark gray coloration weathered to brown. A whitish reworked loessic clay is localized along its upper contact with the overlying Wilcox Group in places (Durham and Smith, 1958), such as in an area southeast of Mooringsport and directly east of Walnut Bayou where clay of the Midway is mined for brick production.

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

Sources:

- Durham, C. O., Jr., and C. R. Smith, 1958, Louisiana Midway-Wilcox correlation problems: Louisiana Department of Conservation, Louisiana Geological Survey, Geological Pamphlet no. 5, 17 p.
- Albertson, P. E., and J. B. Dinkar, 1993, Geomorphic Investigation of Shreveport to Dairingfield Navigation Project: U.S. Army Corps of Engineers Waterway Experiment Station, Vicksburg, Mississippi, Technical Report no. GL-93-31, 148p.
- Smith, C. R. (1970), (Geologic Map of Caddo Parish, Louisiana): Unpublished map, Louisiana Geological Survey, Baton Rouge, Louisiana, scale 1:62,500.



SCALE 1:24,000
CONTOUR INTERVAL 10 FEET
NORTH AMERICAN DATUM OF 1983 (NAD 83)
WORLD GEODETIC SYSTEM 1984 (WGS 84)
UNIVERSAL TRANSVERSE MERCATOR PROJECTION, ZONE 15
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011.



1	2	3	2 Trees
4	5	3 Gilliam	
6	7	4 Porters Point	
8	8	5 Dixie	
		6 Lake	
		7 Blanchard	
		8 North Highlands	

ROAD CLASSIFICATION	
Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	Railroad
Interstate Route	US Route
	State Route

Produced and published by the Louisiana Geological Survey
3079 Energy, Coast & Environment Building, Louisiana State University
Baton Rouge, LA 70803 • 225/578-5320 • www.lgs.lsu.edu

This geologic map was funded in part by the USGS National Cooperative Geologic Mapping Program under STATEMAP award number 05HQAG0027 (2005)

Copyright ©2020 by the Louisiana Geological Survey

Geology by: Richard P. McCulloh and Paul V. Heinrich

GIS Compilers: R. Hampton Peele, Arti Singh, Arvind Parthasarathy, and Supriya Gunasekaran

Revision GIS: Robert Paulsell

Cartography by: Lisa Pond and Robert Paulsell

The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. Government or the state of Louisiana.

This map has been carefully prepared from the best existing sources available at the time of preparation. However, the Louisiana Geological Survey and Louisiana State University do not assume responsibility or liability for any reliance thereon. This information is provided with the understanding that it is not guaranteed to be correct or complete, and conclusions drawn from such data are the sole responsibility of the user. These regional geologic quadrangles are intended for use at the scale of 1:24,000. A detailed on-the-ground survey and analysis of a specific site may differ from these maps.

Mooringsport Surface Geology
revision 2020