

**Description of Map Units**

QUATERNARY SYSTEM

HOLOCENE

- 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 silt.
- Hb** **Backswamp deposits**—fine-grained Holocene deposits of rivers, underlying the flood basins between meander belts.
- Hmd,u** **Distributary complex of Mississippi River meander belt 3, upper deposits**—natural levee deposits of the distributary course of the youngest (Bayou Teche) occupation of Mississippi River meander belt 3.
- Hm,m,l** **Mississippi River meander belt 3, lower deposits**—Point bar deposits of an older (Bayou Portage) occupation of Mississippi River meander belt 3.

PLEISTOCENE

- Loess**—Eolian silt veneer of late Wisconsin age (Peoria Loess) mantling Pleistocene strata. Loess is 3-5 m thick in Youngville quadrangle (Miller, 1983) and consists of gray to brown clayey silt to silty clay, in places with rootlets, organic matter, calcareous and/or iron-oxide stains and/or nodules, light gray to dark brown mottles, and some very fine to fine sand.

PRAIRIE ALLOGROUP

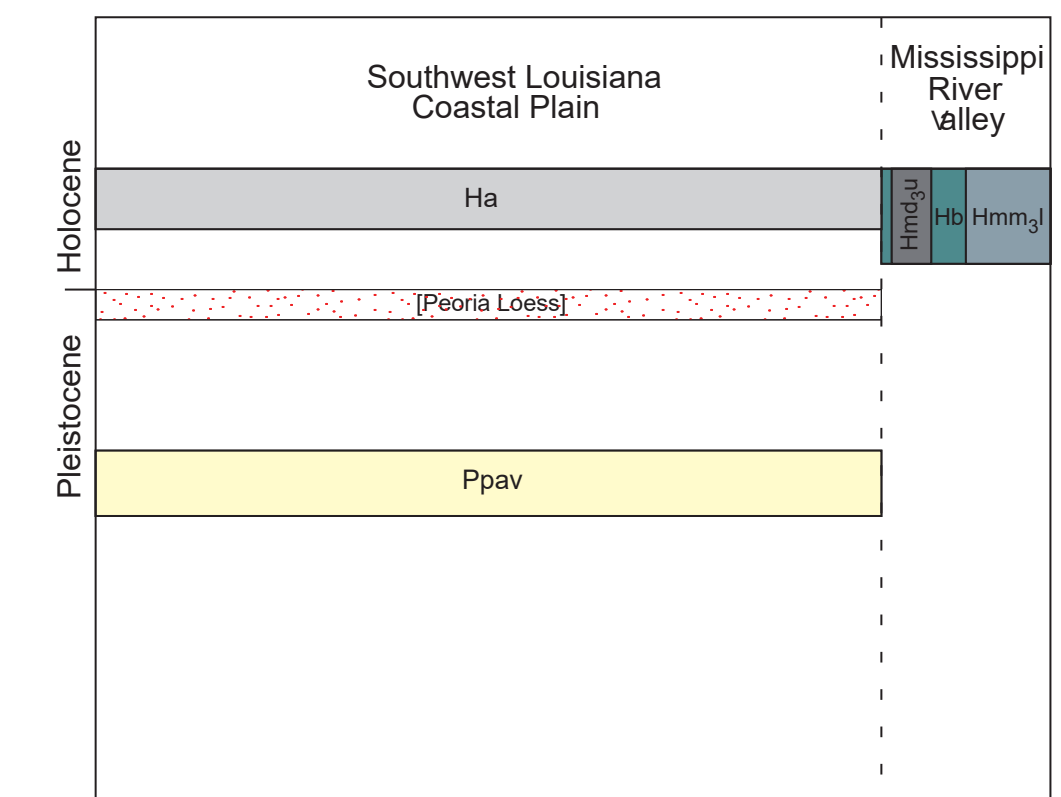
- Ppav** **Avoyelles alloformation**—Meander-belt deposits of the late Pleistocene Mississippi River, terraced above and parallel to its western valley wall and incised into the underlying Beaumont Alloformation. The surface is occupied by relict channels of the Lafayette meander belt. Gray, tan, and brown clay, silt, and sand, in places calcareous and/or carbonaceous, or with clay pockets, silt seams, laminae of clayey silt and sand, sand layers, organic matter, iron-oxide stains and/or nodules (≤ 2 mm), and brown mottles.

- Open Water, Inundated Area, Wetland**
- Contact**—includes inferred contacts.
- Streams**
- Topographic Contours**
- Normal fault**—Identity and existence certain, location accurate. Ball and bar on downthrown block.
- Inferred fault**—Identity and existence certain, location inferred. Ball and bar on downthrown block.
- Inferred fault**—Identity and existence questionable, location inferred.
- Concealed fault**—Identity and existence certain, location concealed. Ball and bar on downthrown block.

References:

Miller, B. J. (compiler), [1983], [1983], Distribution and thickness of loess in Baton Rouge, Louisiana 1 x 2 degree quadrangle; Louisiana State University Department of Agronomy, Louisiana Agricultural Center, Louisiana Agricultural Experiment Station, Baton Rouge, unpublished map, Louisiana Geological Survey, scale 1:250,000.

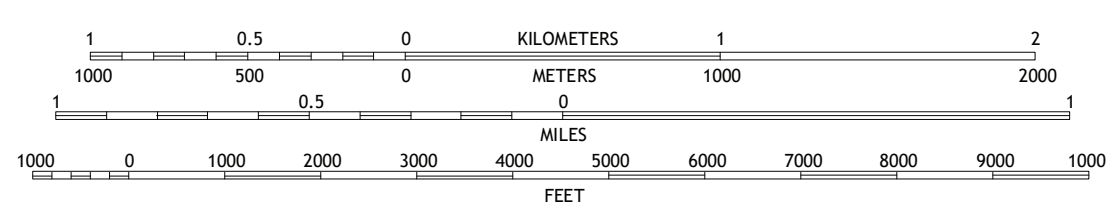
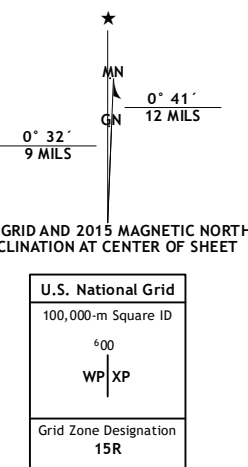
**Correlation of Map Units**



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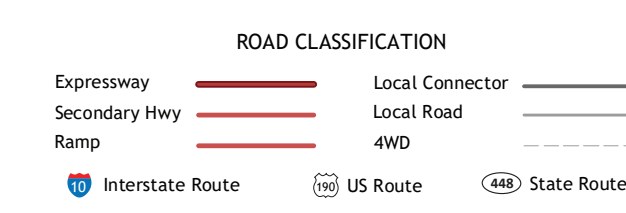
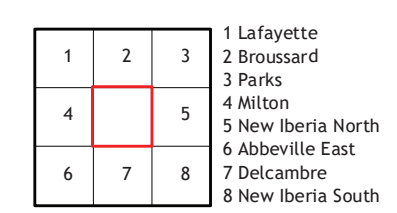
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Cartography: Robert L. Paulsell and Lisa Pond



SCALE 1:24,000

Base map from U.S. Geological Survey 1:24,000 GeoPDF  
National Geospatial Program US Topo Product Standard, 2011.  
Universal Transverse Mercator Projection, Zone 15  
North American Datum 1983 (NAD 83)  
Contour Interval 5 Feet  
National Geodetic Vertical Datum 1988



**ROAD CLASSIFICATION**  
Expressway  
Secondary Hwy  
Ramp  
Local Connector  
Local Road  
4WD  
Interstate Route  
US Route  
State Route

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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Cooperative Geologic Mapping Program. The views and conclusions  
contained in this document are those of the authors and should not be  
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produced to conform with the National Geospatial Program US Topo  
Product Standard, 2011.

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survey and analysis of a specific site may differ from these maps.

**Geologic Map of the Youngville 7.5 minute quadrangle  
Iberia, St. Martin, Lafayette, and Vermillion Parishes, Louisiana**