USGS science for a changing world | LSU Louisiana Geological Survey

The National Map US Topo

BUHLER QUADRANGLE
LOUISIANA 7.5-MINUTE SERIES

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.

PLEISTOCENE

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

Ppbe — **Beaumont Alloformation**—coastal-plain deposits of late to middle Pleistocene streams, forming the oldest and topographically highest of the Prairie surfaces of southwestern Louisiana. The surface exhibits relict channels of the Red and Calcasieu River, and the unit includes deposits of the Ingleside barrier trend (Houston Ridge).

Pper — **Relict Pleistocene ridges**—alluvial remnants delineated on portions of the Beaumont Alloformation.

Ppei — **Relict Pleistocene barrier ridge (Houston ridge)**—eastern segment of Ingleside barrier trend; ridge delineated on the surface of the Beaumont Alloformation.

INTERMEDIATE ALLOGROUP

Pil — **Lissie Alloformation, undifferentiated**—dissected alluvial deposits of middle to early Pleistocene streams. Recognition is facilitated by the subregionally extensive De Ridder surface; previously subdivided into the Montgomery and Bentley terraces in southwestern Louisiana. The unit is bounded updip by the Willis surface and downdip by younger subunits of the Intermediate allogroup.

Open Water, Inundated Area, Wetland

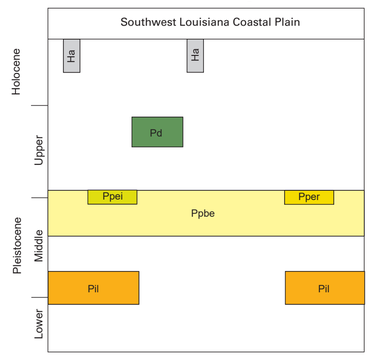
Contact—includes inferred contacts.

Normal fault—Identity and existence certain, location accurate. Ball and bar on downthrown block.

Streams

Topographic Contours

Correlation of Map Units



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 G14AC00222, 2014.

Copyright ©2015 by the Louisiana Geological Survey

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

GIS Compilers: R. Hampton Peele, Richard P. McCulloh, Paul V. Heinrich, Mallory N. Thomas

Cartography by: Robert L. Paulsell and Lisa Pond

UTM GRID AND 2015 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
VP
Grid Zone Designation
15R

KILOMETERS 0 0.5 1 2
METERS 1000 500 0 1000 2000
MILES 1 0.5 0 1
FEET 1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

SCALE 1:24,000

Base map from U.S. Geological Survey 1:24,000
Universal Transverse Mercator Projection, Zone 15
North American Datum 1983
Contour Interval 5 Feet
National Geodetic Vertical Datum 1988

ADJOINING QUADRANGLES

1	2	3
4		5
6	7	8

1 DeQuincy
2 Gordon
3 Gaytine
4 Brimstone
5 Moss Bluff
6 Sulphur
7 Westlake
8 Lake Charles

QUADRANGLE LOCATION

ROAD CLASSIFICATION

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

Geology of the Buhler 7.5 minute quadrangle Calcasieu Parish, Louisiana

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

This research is supported by the U. S. Geological Survey, National Cooperative Geologic Mapping Program. 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 was produced to conform with the National Geospatial Program US Topo Product Standard, 2011.

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 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.