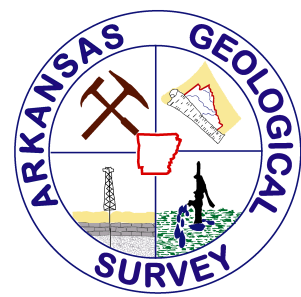
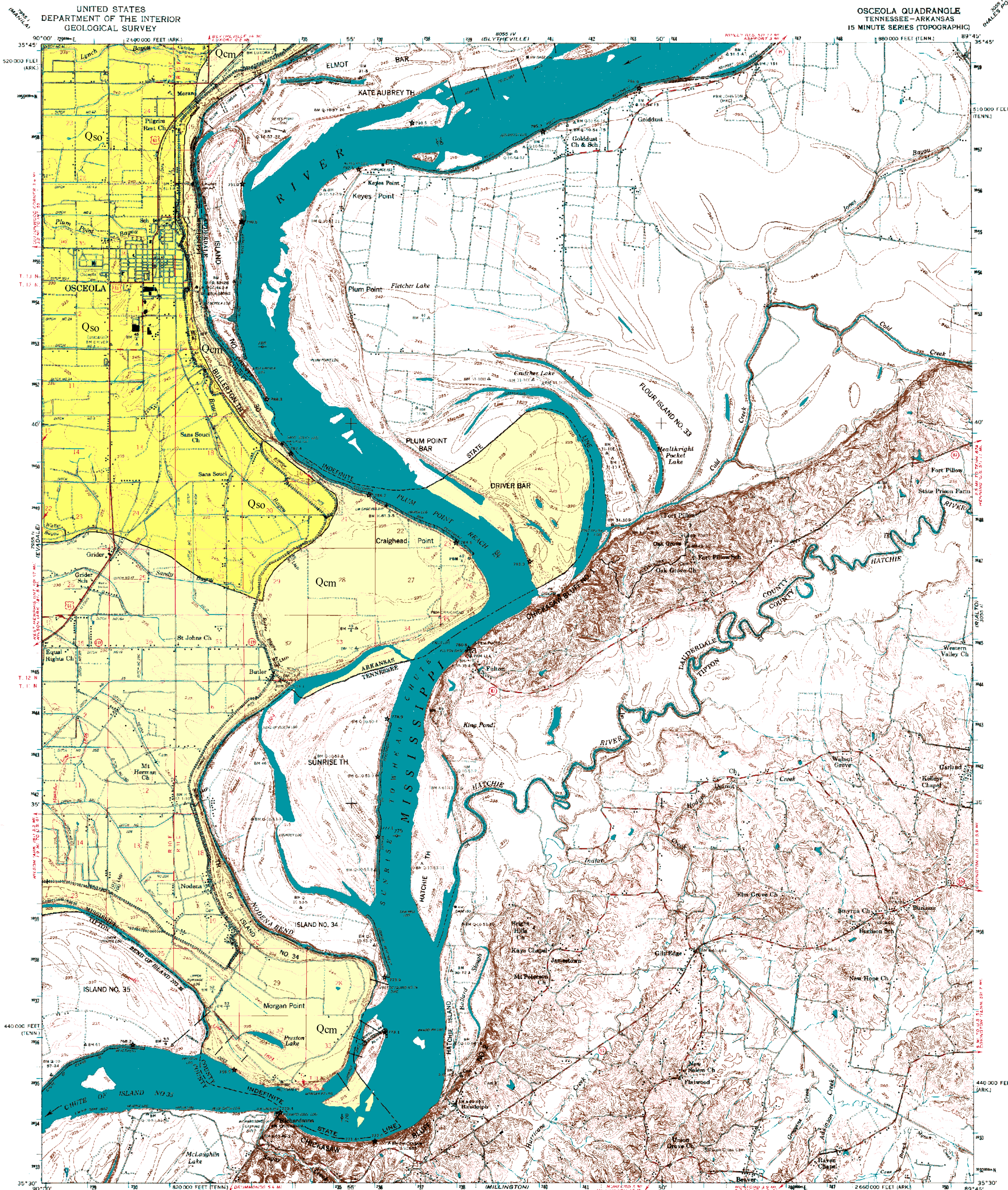


GEOLOGIC WORKSHEET OF THE ARKANSAS PORTION OF THE OSCEOLA 15-MINUTE QUADRANGLE MISSISSIPPI COUNTY, ARKANSAS



Geology by Boyd R. Haley
1969
Modified by Scott M. Ausbrooks and William L. Prior
2008
Digital compilation by Jerry W. Clark
Arkansas Geological Survey, Bekki White, State Geologist



About the Map

The *Geologic Worksheet of the Arkansas Portion of the Osceola Quadrangle* is a 1:62,500 scale digital geologic worksheet. The original geology was scanned, digitized and transferred from the Osceola 1:62,500 scale geologic worksheet of Haley, B.R., 1969 and modified by Ausbrooks, S.M., and Prior, W.L., 2008. Copies of this map are available from the Arkansas Geological Survey, Little Rock, AR.

Description Of Map Units

- Qcm** The Quaternary Age (Holocene) *Channel Meander Alluvium* are alluvial sediments derived from typically older alluvial deposits that have been more recently reworked by channel meanders and include flood plain deposits of significant streams. Sediments will typically include unconsolidated gravels, sands, silts, clays and varying mixtures of any and all of these. The division of this unit from other Holocene alluvial sediments is based primarily on geomorphic considerations (presence of meander scars, point bars, and abandon channels) than lithology or age. Fossils are rare and the thickness is variable.
- Qso** The Quaternary Age (Holocene) *Stream Overbank Alluvium* are alluvial sediments derived from a combination of deposits from small streams, the overbank deposits of present-day significant streams, or older meander and flood plain deposits from ancient significant streams. These sediments will typically include unconsolidated gravels, sands, silts, clays and varying mixtures of any and all of these. The individual deposits are often lenticular and discontinuous. The division of this unit from other Holocene alluvial sediments is based primarily on geomorphic considerations (presence of natural levees and absence of meander scars, point bars, and abandon channels) than lithology or age. Fossils are rare and the thickness is variable.

References

- Haley, B. R., 1969, *Geologic Worksheet of the Osceola Quadrangle*, Arkansas Geological Commission: Open-File Report, scale 1:62,500.
- McFarland, J. D., 2004, *Stratigraphic Summary of Arkansas*: Arkansas Geological Commission Information Circular 36, 39p.

Disclaimer

Although this map was compiled from digital data that was successfully processed on a computer system using ArcGIS 9.x at the Arkansas Geological Survey (AGS), no warranty, expressed or implied, is made by AGS regarding the unity of the data on any other system, nor shall the act of distribution constitute any such warranty. AGS does not guarantee this map or digital data to be free of errors or liability for interpretations from this map or digital data, or decisions based thereon. 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 Arkansas Geological Survey. The base used in the making of this map was created by Arkansas Geological Survey using USGS paper maps. The data is DRG62.5k (Digital Raster Graphics), 1:62,000 scale, USGS.

Mapped and edited by the Mississippi River Commission
Published by the Geological Survey
Control by USGS, USCAGS, USCE, and MRC
Topography by photogrammetric methods from aerial photographs taken 1961-1962 and planimetric surveys 1930, 1942, and 1946. Fairs checked 1963
Polyconic projection, 1927 North American datum
10,000-foot grid based on Tennessee coordinate system, and Arkansas coordinate system, north zone
1000-meter Universal Transverse Mercator grid ticks, zone 16, shown in blue

UTM GRID AND 1983 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

CONTOUR INTERVAL 10 AND 20 FEET
DASHED LINES REPRESENT HALF-INTERVAL CONTOURS
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D.C. 20242.
TENNESSEE DIVISION OF GEOLOGY, NASHVILLE, TENNESSEE 37219.
ARKANSAS GEOLOGICAL COMMISSION, LITTLE ROCK, ARKANSAS 72203.
AND MISSISSIPPI RIVER COMMISSION, VICKSBURG, MISSISSIPPI 39181
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION
Heavy-duty Light-duty
Medium-duty Unimproved dirt

U.S. Route State Route
Distances on the Mississippi River above Head of Passes, and on the Hatchie River above Mouth are shown at 5 mile intervals

OSCEOLA, TENN.-ARK.
19330-WB945-15
1969
AMS 3005 III-SERIES Y741