

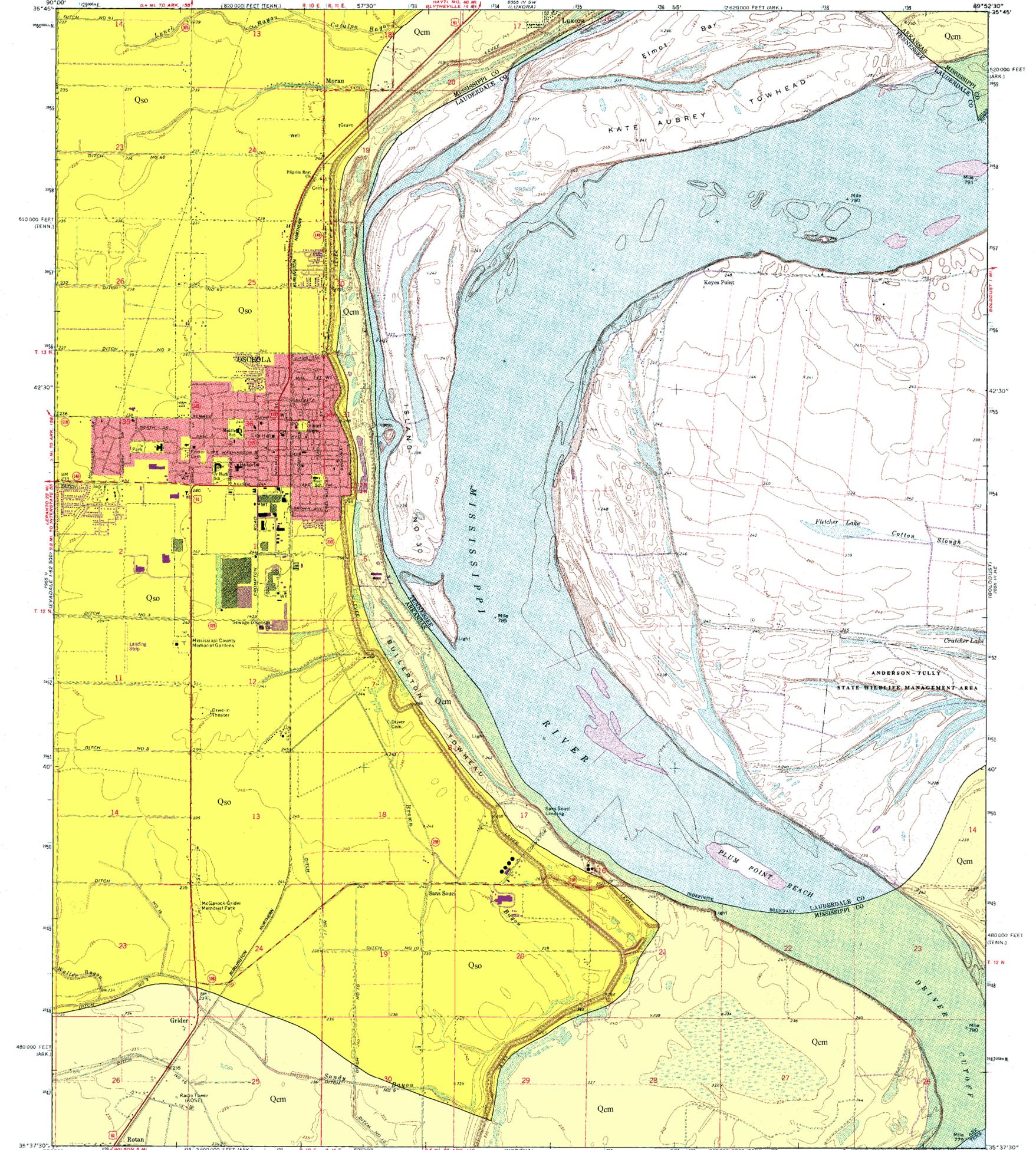
# GEOLOGIC WORKSHEET OF THE ARKANSAS PORTION OF THE OSCEOLA QUADRANGLE, MISSISSIPPI COUNTY, ARKANSAS



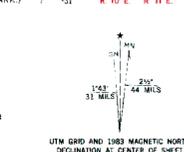
Geology by Boyd R. Haley  
1969  
Geology modified by Scott M. Ausbrooks and William L. Prior  
2006  
Arkansas Geological Commission, Bekki White, State Geologist  
Digital compilation by Jerry W. Clark

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

OSCEOLA QUADRANGLE  
ARKANSAS - TENNESSEE  
7.5 MINUTE SERIES (TOPOGRAPHIC)  
NW 1/4 OSCEOLA 15' QUADRANGLE



Mapped, edited, and published by the Geological Survey  
Control by USGS and NOS/NOAA  
Topography by photogrammetric methods from aerial photographs  
taken 1971. Field checked 1972  
Projection: Arkansas coordinate system, north zone  
(Lambert conformal conic)  
10,000-foot grid ticks based on Arkansas coordinate system,  
north zone and Tennessee coordinate system  
1000-meter Universal Transverse Mercator grid ticks, zone 16, shown in blue  
1927 North American Datum  
To place on the predicted North American Datum 1983  
move the projection lines 6 meters south and  
6 meters east as shown by dashed corner ticks  
Red tint indicates areas in which only landmark buildings are shown  
Fine red dashed lines indicate selected fence and field lines where  
generally visible on aerial photographs. This information is un-checked  
There may be private inholdings within the boundaries of the  
National or State reservations shown on this map



SCALE 1:24,000  
CONTOUR INTERVAL 5 FEET  
NATIONAL GEODETTIC VERTICAL DATUM OF 1929  
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092  
ARKANSAS GEOLOGICAL COMMISSION, LITTLE ROCK, ARKANSAS 72204  
AND TENNESSEE DEPARTMENT OF CONSERVATION, DIVISION OF GEOLOGY, NASHVILLE, TENN. 37218  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION  
Primary highway, hard surface  
Secondary highway, hard surface  
Interstate Route  
U. S. Route  
State Route  
Light-duty road, hard or improved surface  
Unimproved road  
GOLF COURSE



OSCEOLA, ARK.-TENN.  
NW 1/4 OSCEOLA 15' QUADRANGLE  
35089-F8-TF-024  
1972  
PHOTO REVISION 1983  
DMA 8055 III NW-SERIES V084

### Description of Map Units

Alluvium - Both units are equivalent in age  
**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 abandoned 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 abandoned channels) than lithology or age. Fossils are rare and the thickness is variable.

### About the Map

The *Geologic Worksheet of the Arkansas Portion of the Osceola Quadrangle* is a 1:24,000 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., 2006. Copies of this map are available from the Arkansas Geological Commission, Little Rock, AR.

### Disclaimer

Although this map was compiled from digital data that was successfully processed on a computer system using ArcGIS 9.0 at the Arkansas Geological Commission (AGC), no warranty, expressed or implied, is made by AGC regarding the unity of the data on any other system, nor shall the act of distribution constitute any such warranty. AGC 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 Commission.  
The base used in the making of this map was acquired online from GeoStor. The data is DRG24K (Digital Raster Graphics), 1:24,000, USGS.