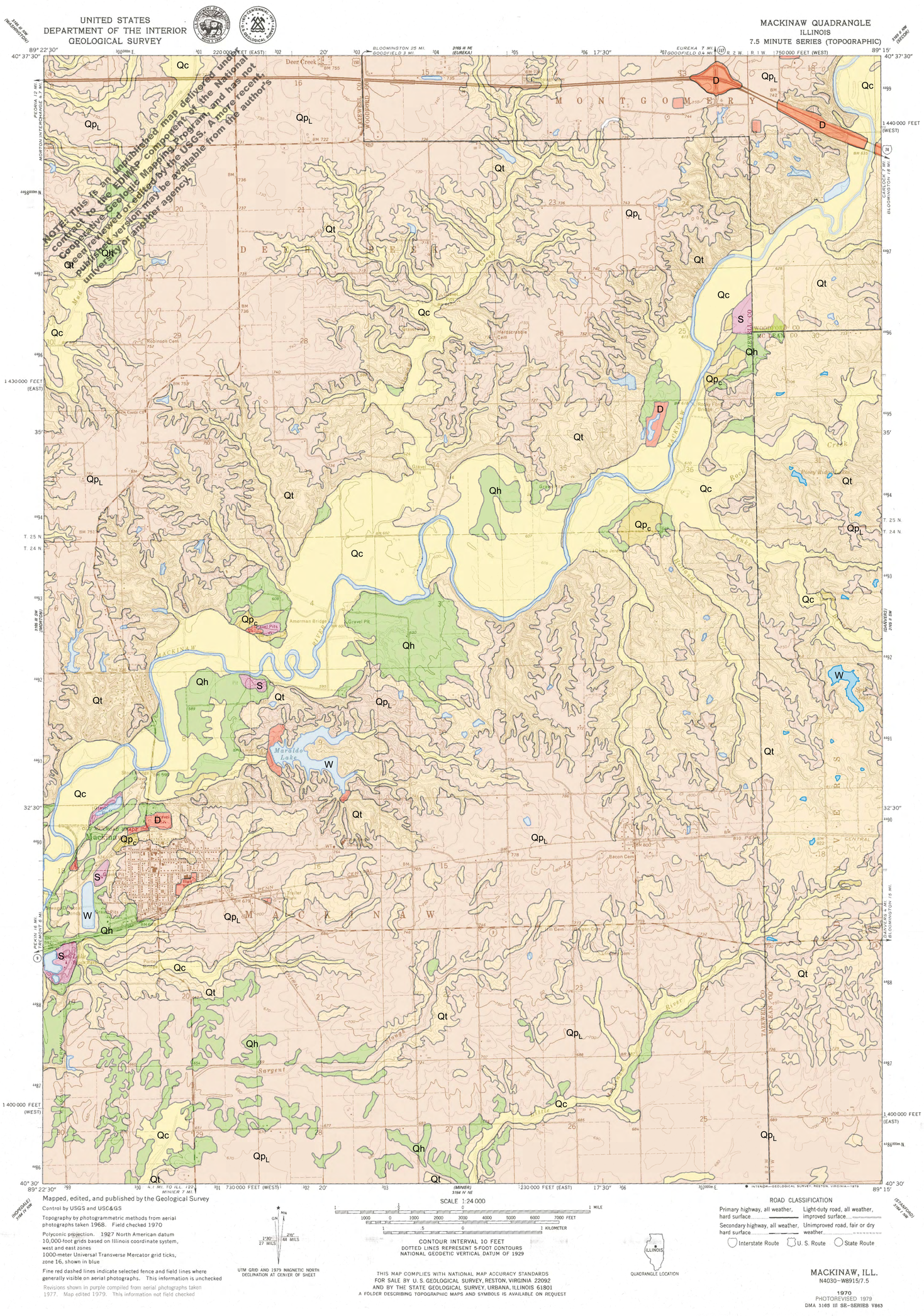
# Surficial Geology of the Mackinaw 7.5 Minute Quadrangle
# Mclean, Tazewell, and Woodford Counties, Illinois


**John Woodside**
**Department of Geography-Geology, Illinois State University**
**2007**


Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1968. Field checked 1970

Polyconic projection. 1927 North American datum
10,000-foot grids based on Illinois coordinate system, west and east zones
1000-meter Universal Transverse Mercator grid ticks, zone 16, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

Revisions shown in purple compiled from aerial photographs taken 1977. Map edited 1979. This information not field checked

UTM GRID AND 1979 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092
AND BY THE STATE GEOLOGICAL SURVEY, URBANA, ILLINOIS 61801
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION
Primary highway, all weather, hard surface
Light-duty road, all weather, improved surface
Secondary highway, all weather, hard surface
Unimproved road, fair or dry weather
Interstate Route · U. S. Route · State Route

MACKINAW, ILL.
N4030–W8915/7.5
1970
PHOTOREVISED 1979
DMA 3165 III SE–SERIES V863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## Lithologic Units and Interpretations

### Geologic Materials

Quaternary — Holocene

**Cahokia Alluvium**

- Bedded silts, clays, and sand and gravel. Deposited in floodplains and channels of modern rivers and stream.

Qc

Quaternary — Pleistocene — Wisconsinan Episode

**Peyton Colluvium**

- Dominantly a pebbly silt, but its composition depends on the materials above.
  - Narrow belts of poorly sorted debris that accumulated at the base of steep slopes, largely by creep and slopewash.

$Qp_c$

**Peoria Loess**

- Light yellow-tan to gray, fine sand to brownish gray clayey silt. Wind transported and deposited.

$Qp_L$

**Henry Formation**

- Sand and gravels (predominantly stratified).
  - Outwash on floodplains (valley train).

Qh

**Wedron Formation**

**Tiskilwa Till Member**

- Medium to fine grained diamict. Pink-tan to reddish tan-brown.

Qt

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**Disturbed materials**

D

**Surface mined**

S

**Water features**

W

**Geologic contact**


**References:**

Hansel, A.K, Johnson, H.W., 1996, Wedron and Mason Groups: Lithostratigraphic Reclassification of Deposits of the Wisconsin Episode, Lake Michigan Lobe Area, Illinois State Geological Survey Bulletin 104, 116 p.

Shields, W.E., Malone, D.H., and Harp, B.R., 2005, Geologic Map of the LaSalle, IL 7.5 Minute Quadrangle, Scale 1:24,000.

Willman, H.B., Frye, JC., 1970, Illinois State Geological Survey Bulletin 94, 204 p.

http://www.isgs.uiuc.edu/sections/quat/quat-deposit-map.shtml