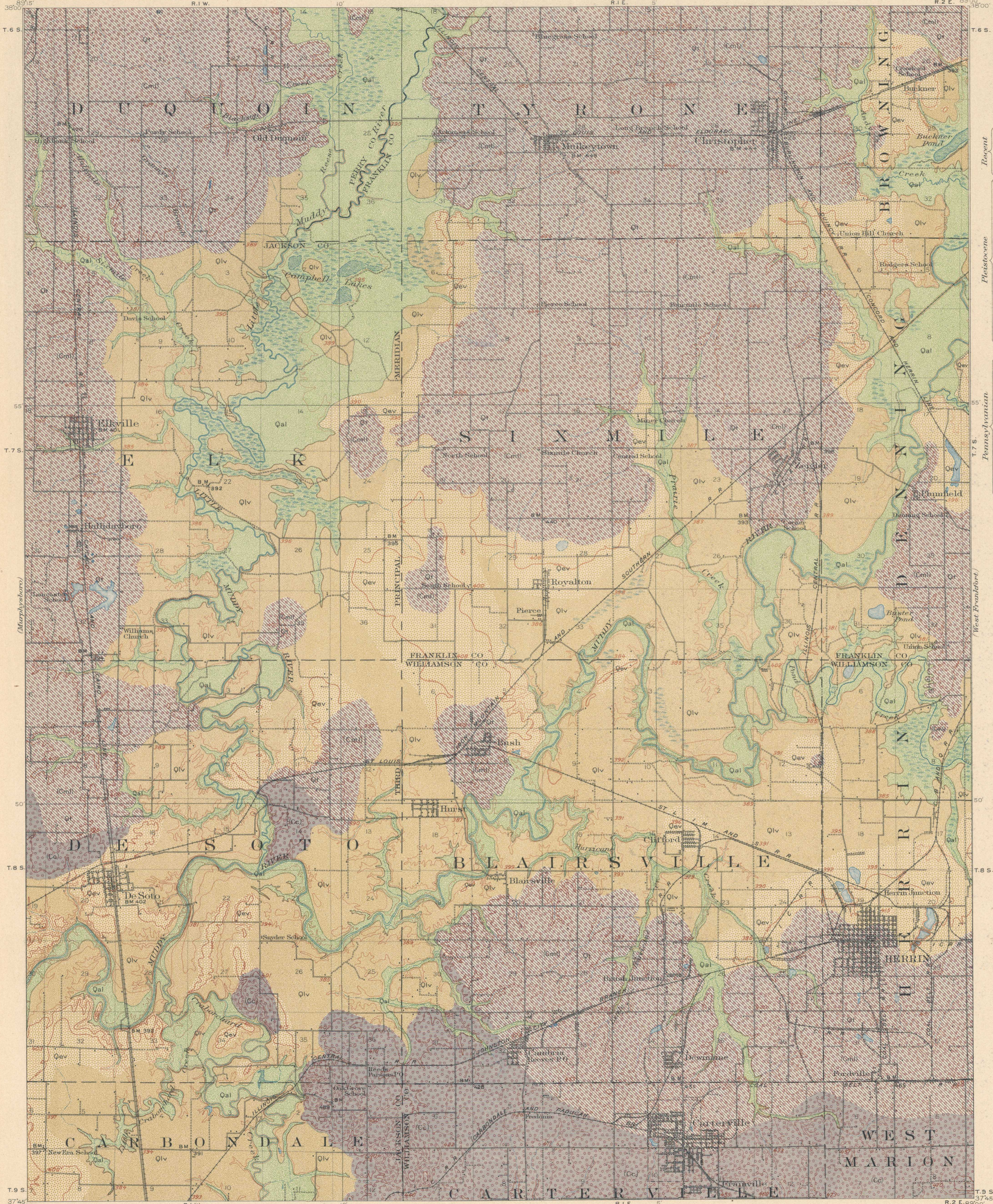


AREAL GEOLOGY

U.S. GEOLOGICAL SURVEY
GEORGE OTIS SMITH, DIRECTOR

STATE OF ILLINOIS
GOVERNOR C.S. DENEEN, T.C. CHAMBERLIN, E.J. JAMES, COMMISSIONERS
FRANK W. DE WOLF, DIRECTOR, STATE GEOLOGICAL SURVEY

ILLINOIS
HERRIN QUADRANGLE
R. 2 E. 89° 00'



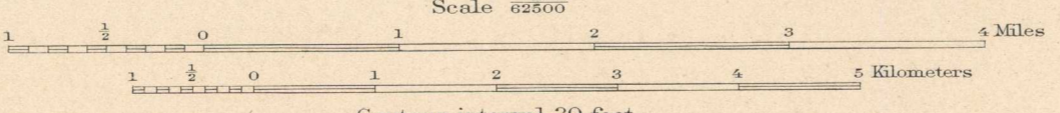
LEGEND

SEDIMENTARY ROCKS

(Areas of subaqueous deposits are shown by patterns of parallel lines, subaerial deposits by patterns of dots and circles)

- | | | | |
|----------------|-----|--|---------------|
| Recent | Qal | Alluvium
<i>(in flood plains of present streams)</i> | QUATERNARY |
| | Qlv | Later valley fill
<i>(fluvio-lacustrine clay and silt on terraces of Mississippi River)</i> | |
| Pleistocene | Qev | Earlier valley fill
<i>(fluvio-lacustrine sand, clay, and silt, apparently older than Quaternary terraces of Mississippi River)</i> | CARBONIFEROUS |
| Alluvial stage | Qf | Glacial till
<i>(drift overlain by thin loess and locally by fine sand)</i> | |
| Pennsylvanian | Cml | McLeansboro formation
<i>(shale, limestone, and sandstone with several thin coal beds)</i> | CARBONIFEROUS |
| in most places | Cc | Carboniferous formation
<i>(shale, sandstone, and limestone with two or more workable coal beds; Herrin (No. 1) coal at top; Morrisboro (No. 2) coal at base; not exposed at surface)</i> | |

R. B. Marshall, Chief Geographer.
W. H. Herron, Geographer in charge.
Topography by W. J. Lloyd and J. A. Duck.
Control by L. E. Tucker, Henry Bucher, and T. A. Green.
Surveyed in 1908.



Contour interval 20 feet.
Datum is mean sea level.
Edition of Mar. 1912.

Geology of the Carboniferous rocks by T. E. Savage,
Quaternary by E. W. Shaw.
Surveyed in 1908 and 1909.
SURVEYED IN COOPERATION WITH THE STATE OF ILLINOIS.