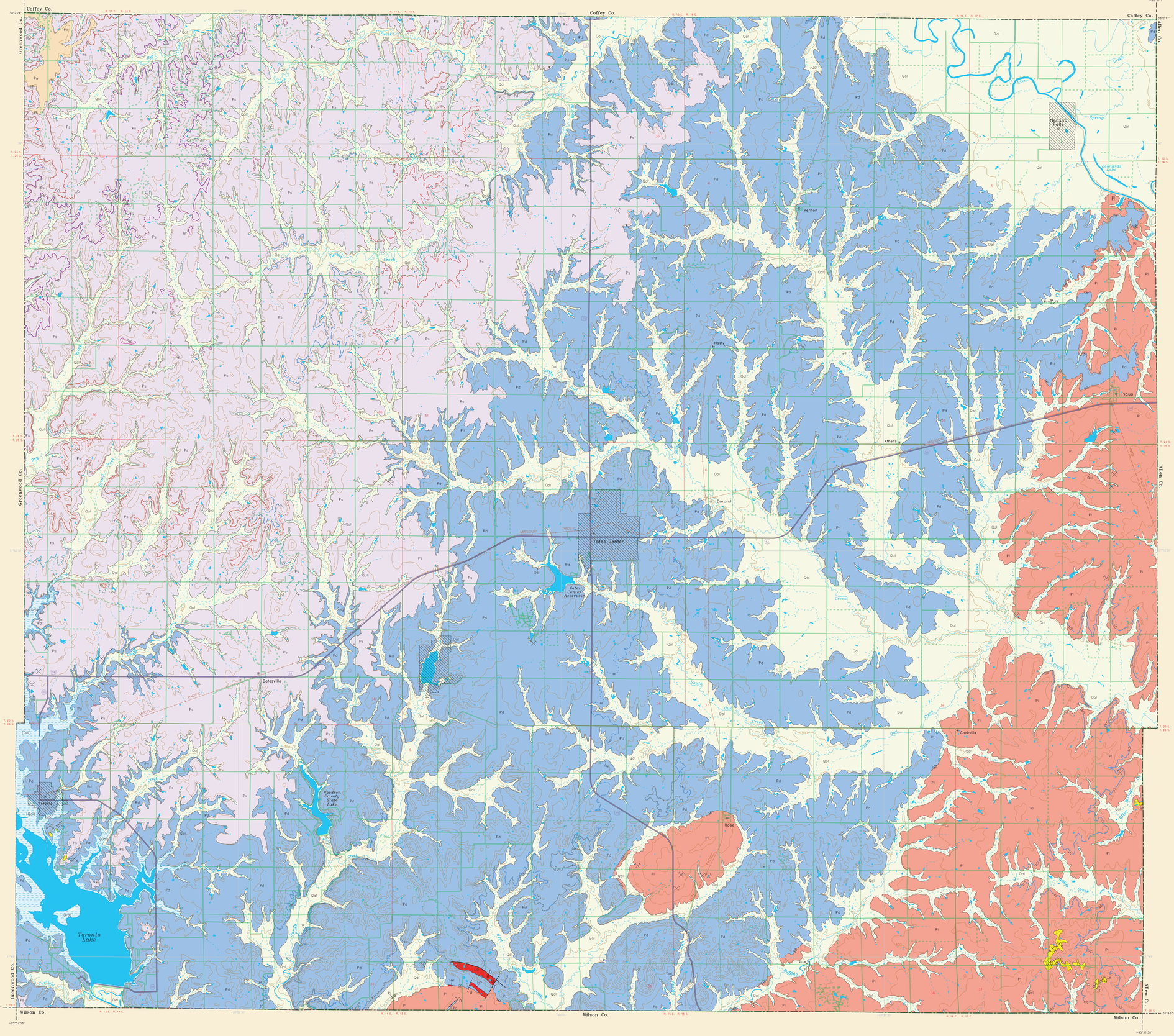
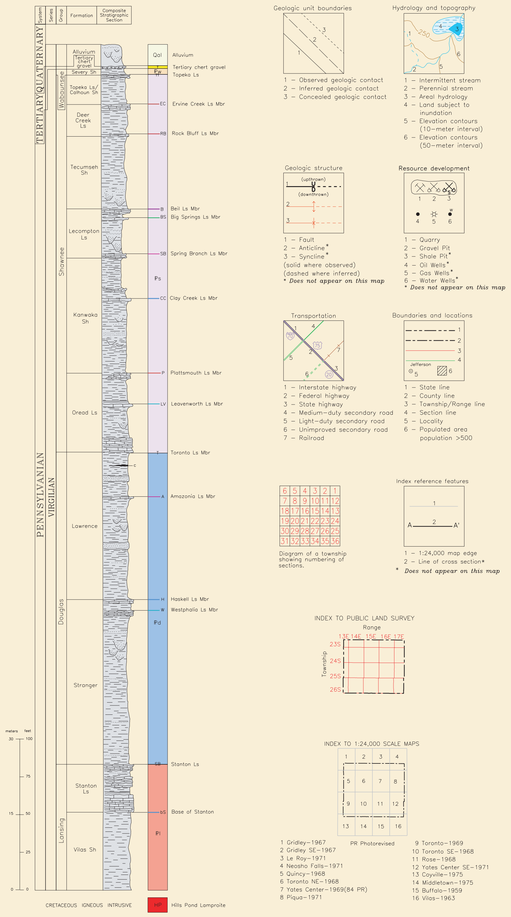


KANSAS GEOLOGICAL SURVEY
THE UNIVERSITY OF KANSAS
MAP M–52

GEOLOGIC MAP OF WOODSON COUNTY, KANSAS
1999

Geology mapped by
Daniel F. Merriam

Computer compilation
and cartography by
Jorgina A. Ross
Bryce Kohl
Kim S. Yap



Geologic unit boundaries

1 – Observed geologic contact
2 – Inferred geologic contact
3 – Concealed geologic contact

Hydrology and topography

1 – Intermittent stream
2 – Perennial stream
3 – Areal hydrology
4 – Land subject to inundation
5 – Elevation contours (10-meter interval)
6 – Elevation contours (50-meter interval)

Geologic structure

1 – Fault
2 – Anticline*
3 – Syncline*
(solid where observed)
(dashed where inferred)
Does not appear on this map

Resource development

1 – Quarry
2 – Gravel Pit
3 – Shale Pit*
4 – Oil Wells*
5 – Gas Wells*
6 – Water Wells*
Does not appear on this map

Transportation

1 – Interstate highway
2 – Federal highway
3 – State highway
4 – Medium-duty secondary road
5 – Light-duty secondary road
6 – Unimproved secondary road
7 – Railroad

Boundaries and locations

1 – State line
2 – County line
3 – Township/Range line
4 – Section line
5 – Locality
6 – Populated area population >500

Diagram of a township showing numbering of sections.

Index reference features

1 – 1:24,000 map edge showing number of cross section*
2 – Line of cross section*
Does not appear on this map

INDEX TO PUBLIC LAND SURVEY

Range 15E 14E 13E 12E
Township 23S 24S 25S 26S

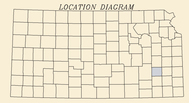
INDEX TO 1:24,000 SCALE MAPS

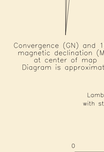
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

PR Photorevised

1 Gridley–1967
2 Gridley SE–1967
3 Le Roy–1971
4 Neosho Falls–1971
5 Quincy–1968
6 Toronto NE–1968
7 Yates Center–1969(84 PR)
8 Piqua–1971
9 Toronto–1969
10 Toronto SE–1968
11 Rose–1968
12 Yates Center SE–1971
13 Coyville–1975
14 Middletown–1975
15 Buffalo–1959
16 Vilas–1963

LOCATION DIAGRAM





Convergence (GN) and 1987 magnetic declination (MN) at center of map
Diagram is approximate

CONVERSION TABLE

feet	meters	kilometers	miles
1	0.3048	0.0003	0.00019
3.2808	1	0.001	0.00062
3280.8	1000	1	0.6212
5280	1609.4	1.6094	1

To convert feet to meters multiply by 0.3048
To convert meters to feet multiply by 3.2808
To convert kilometers to miles multiply by 0.6212
To convert miles to kilometers multiply by 1.6094

Lambert Conformal Conic Projection
with standard parallels at 33° and 45°

Scale 1:50,000

0 1 2 3 Kilometers
0 1 2 Miles

Elevation contours are presented for general reference. They are taken from USGS Digital Line Graph (DLG) files compiled from base maps at a scale of 1:100,000. In some places the contours from the DLG's may be more generalized than the base maps used for compilation of geologic outcrop patterns. Outcrop patterns on the map will typically reflect topographic variation more accurately than the associated contour lines. Repeated fluctuation of an outcrop line across a contour line should be interpreted as an indication that the mapped rock unit is maintaining a relatively constant elevation along a generalized contour.

The geology was mapped in the field using U.S.G.S. 7.5–min. 1:24,000–scale topographic maps. A preliminary 1:63,360–scale map compiled by R.C. Moore for the 1936 edition of the state geological map was available for field checking.

This map was produced by computer–aided cartography using the GMMAP (Geodata Interactive Management Map Analysis and Production) system developed at the Kansas Geological Survey.

The Kansas Geological Survey does not guarantee this map to be free from errors or inaccuracies and disclaims any responsibility or liability for interpretations made from the map or decisions based thereon.

Suggested reference to this map:
Merriam, D. F., 1998, Geologic Map of Woodson County, Kansas: Kansas Geological Survey, Map M–52, 1:50,000.

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(21/June/01)