OKLAHOMA GEOLOGICAL SURVEY
Charles J. Mankin, *Director*

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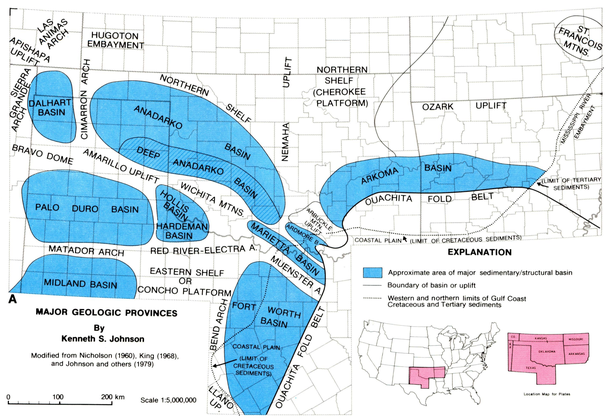
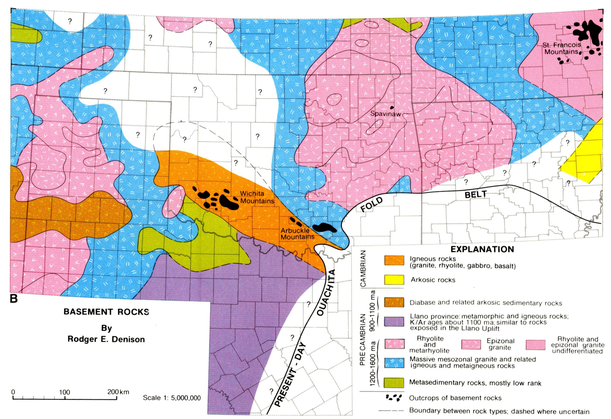
SPECIAL PUBLICATION 89-2 PLATE 5
Major geologic provinces and basement rocks through Missourian Series



A
MAJOR GEOLOGIC PROVINCES
By
Kenneth S. Johnson
Modified from Nicholson (1960), King (1968), and Johnson and others (1979)
0 100 200 km Scale 1:5,000,000



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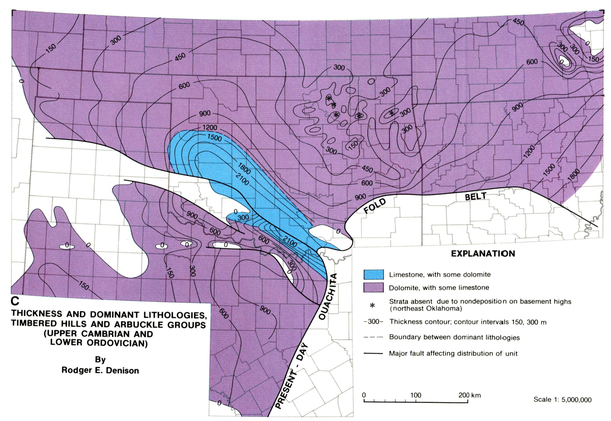
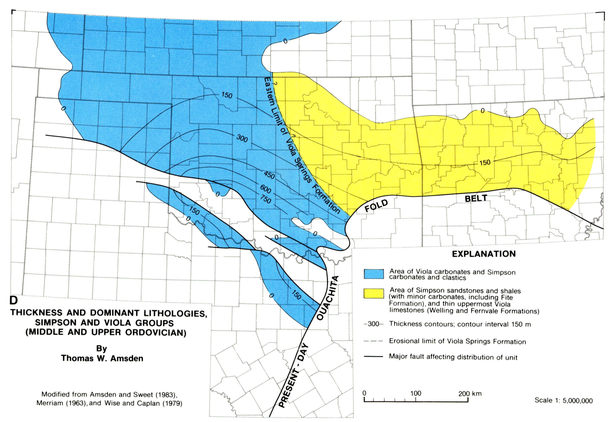
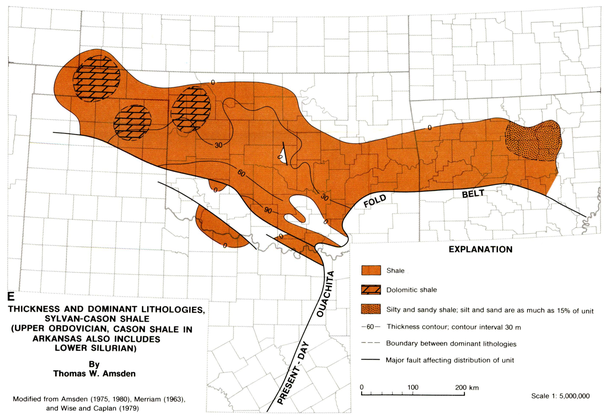
BASEMENT ROCKS
By
Rodger E. Denison
0 100 200 km Scale 1: 5,000,000



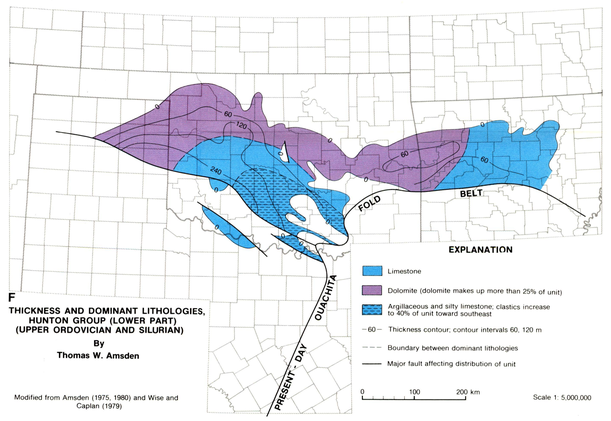
C
THICKNESS AND DOMINANT LITHOLOGIES, TIMBERED HILLS AND ARBUCKLE GROUPS (UPPER CAMBRIAN AND LOWER ORDOVICIAN)
By
Rodger E. Denison
0 100 200 km Scale 1: 5,000,000



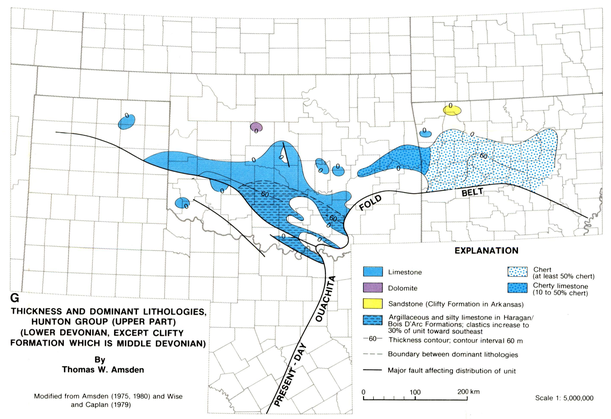
D
THICKNESS AND DOMINANT LITHOLOGIES, SIMPSON AND VIOLA GROUPS (MIDDLE AND UPPER ORDOVICIAN)
By
Thomas W. Amsden
Modified from Amsden and Sweet (1983), Merriam (1963), and Wise and Caplan (1979)
0 100 200 km Scale 1: 5,000,000



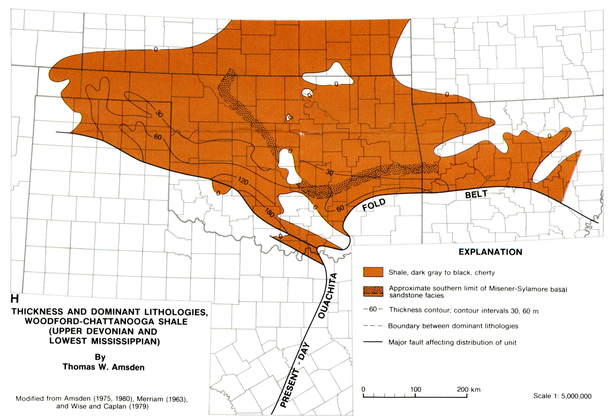
E
THICKNESS AND DOMINANT LITHOLOGIES, SYLVAN-CASON SHALE (UPPER ORDOVICIAN, CASON SHALE IN ARKANSAS ALSO INCLUDES LOWER SILURIAN)
By
Thomas W. Amsden
Modified from Amsden (1975, 1980), Merriam (1963), and Wise and Caplan (1979)
0 100 200 km Scale 1:5,000,000



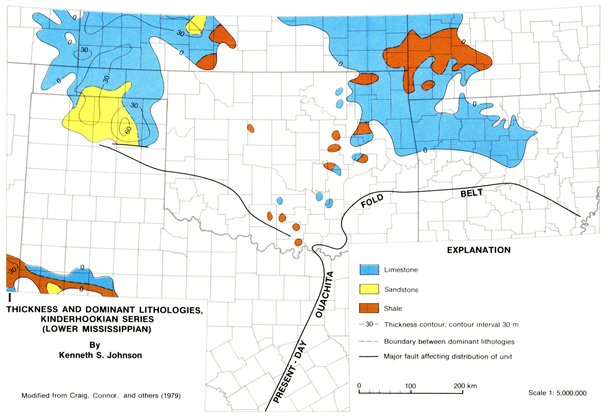
F
THICKNESS AND DOMINANT LITHOLOGIES, HUNTON GROUP (LOWER PART) (UPPER ORDOVICIAN AND SILURIAN)
By
Thomas W. Amsden
Modified from Amsden (1975, 1980) and Wise and Caplan (1979)
0 100 200 km Scale 1: 5,000,000



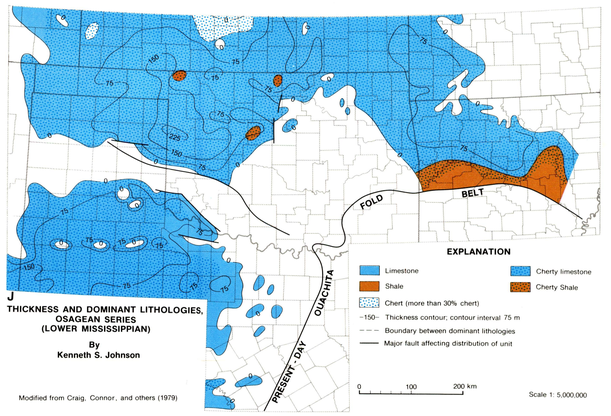
G
THICKNESS AND DOMINANT LITHOLOGIES, HUNTON GROUP (UPPER PART) (LOWER DEVONIAN, EXCEPT CLIFTY FORMATION WHICH IS MIDDLE DEVONIAN)
By
Thomas W. Amsden
Modified from Amsden (1975, 1980) and Wise and Caplan (1979)
0 100 200 km Scale 1: 5,000,000



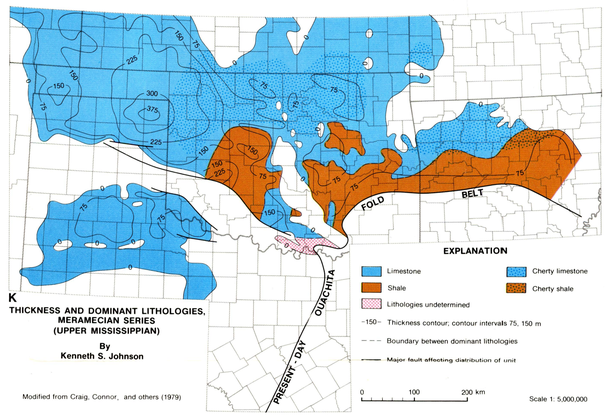
H
THICKNESS AND DOMINANT LITHOLOGIES, WOODFORD-CHATTANOOGA SHALE (UPPER DEVONIAN AND LOWEST MISSISSIPPIAN)
By
Thomas W. Amsden
Modified from Amsden (1975, 1980), Merriam (1963), and Wise and Caplan (1979)
0 100 200 km Scale 1: 5,000,000



I
THICKNESS AND DOMINANT LITHOLOGIES, KINDERHOOKIAN SERIES (LOWER MISSISSIPPIAN)
By
Kenneth S. Johnson
Modified from Craig, Connor, and others (1979)
0 100 200 km Scale 1: 5,000,000



J
THICKNESS AND DOMINANT LITHOLOGIES, OSAGEAN SERIES (LOWER MISSISSIPPIAN)
By
Kenneth S. Johnson
Modified from Craig, Connor, and others (1979)
0 100 200 km Scale 1: 5,000,000



K
THICKNESS AND DOMINANT LITHOLOGIES, MERAMECIAN SERIES (UPPER MISSISSIPPIAN)
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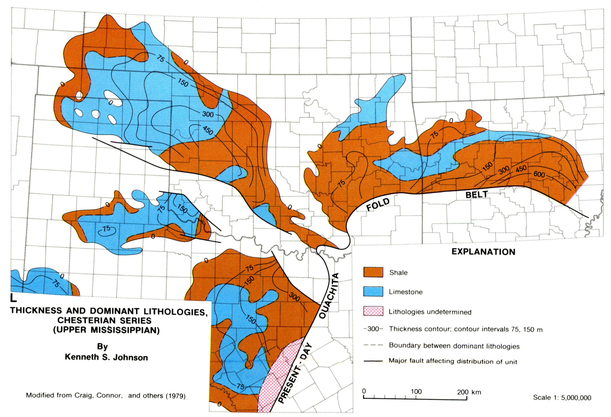
Kenneth S. Johnson
Modified from Craig, Connor, and others (1979)
0 100 200 km Scale 1: 5,000,000



L
THICKNESS AND DOMINANT LITHOLOGIES, CHESTERIAN SERIES (UPPER MISSISSIPPIAN)
By
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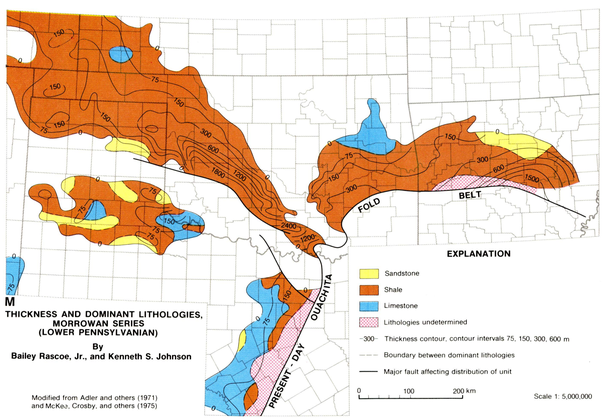
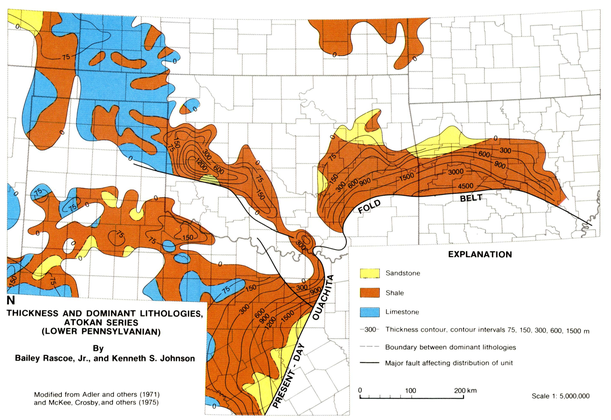
Modified from Craig, Connor, and others (1979)
0 100 200 km Scale 1: 5,000,000



M
THICKNESS AND DOMINANT LITHOLOGIES, MORROWAN SERIES (LOWER PENNSYLVANIAN)
By
Bailey Rascoe, Jr., and Kenneth S. Johnson
Modified from Adler and others (1971) and McKee, Crosby, and others (1975)
0 100 200 km Scale 1: 5,000,000



N
THICKNESS AND DOMINANT LITHOLOGIES, ATOKAN SERIES (LOWER PENNSYLVANIAN)
By
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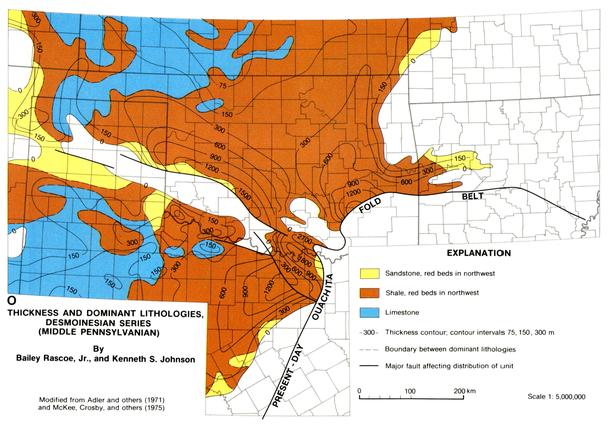
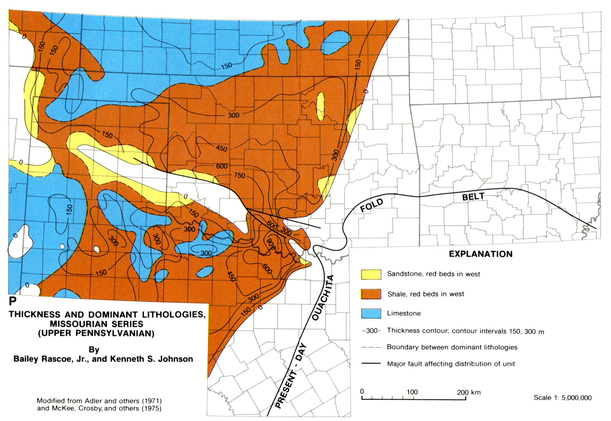
Modified from Adler and others (1971) and McKee, Crosby, and others (1975)
0 100 200 km Scale 1: 5,000,000



O
THICKNESS AND DOMINANT LITHOLOGIES, DESMOINESIAN SERIES (MIDDLE PENNSYLVANIAN)
By
Bailey Rascoe, Jr., and Kenneth S. Johnson
Modified from Adler and others (1971) and McKee, Crosby, and others (1975)
0 100 200 km Scale 1: 5,000,000



P
THICKNESS AND DOMINANT LITHOLOGIES, MISSOURIAN SERIES (UPPER PENNSYLVANIAN)
By
Bailey Rascoe, Jr., and Kenneth S. Johnson
Modified from Adler and others (1971) and McKee, Crosby, and others (1975)
0 100 200 km Scale 1: 5,000,000

Geologic Provinces, Basement Rocks, and Thickness and Dominant Lithologies of Sedimentary Rocks in the Southern Midcontinent

By

K.S.Johnson, T.W.Amsden, R.E.Denison, S.P.Dutton, A.G.Goldstein, B.Rascoe, Jr., P.K.Sutherland, and D.M.Thompson

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PLATE 5, Southern Mid-Continent — I
Geologic Provinces, Basement Rocks, Thickness and Dominant Lithologies of Sedimentary Rocks
Sedimentary Cover of the Craton: U.S.
Vol. D-2 of The Geology of North America (GNA-D2)