

EXPLANATION

GEOLOGIC BASE

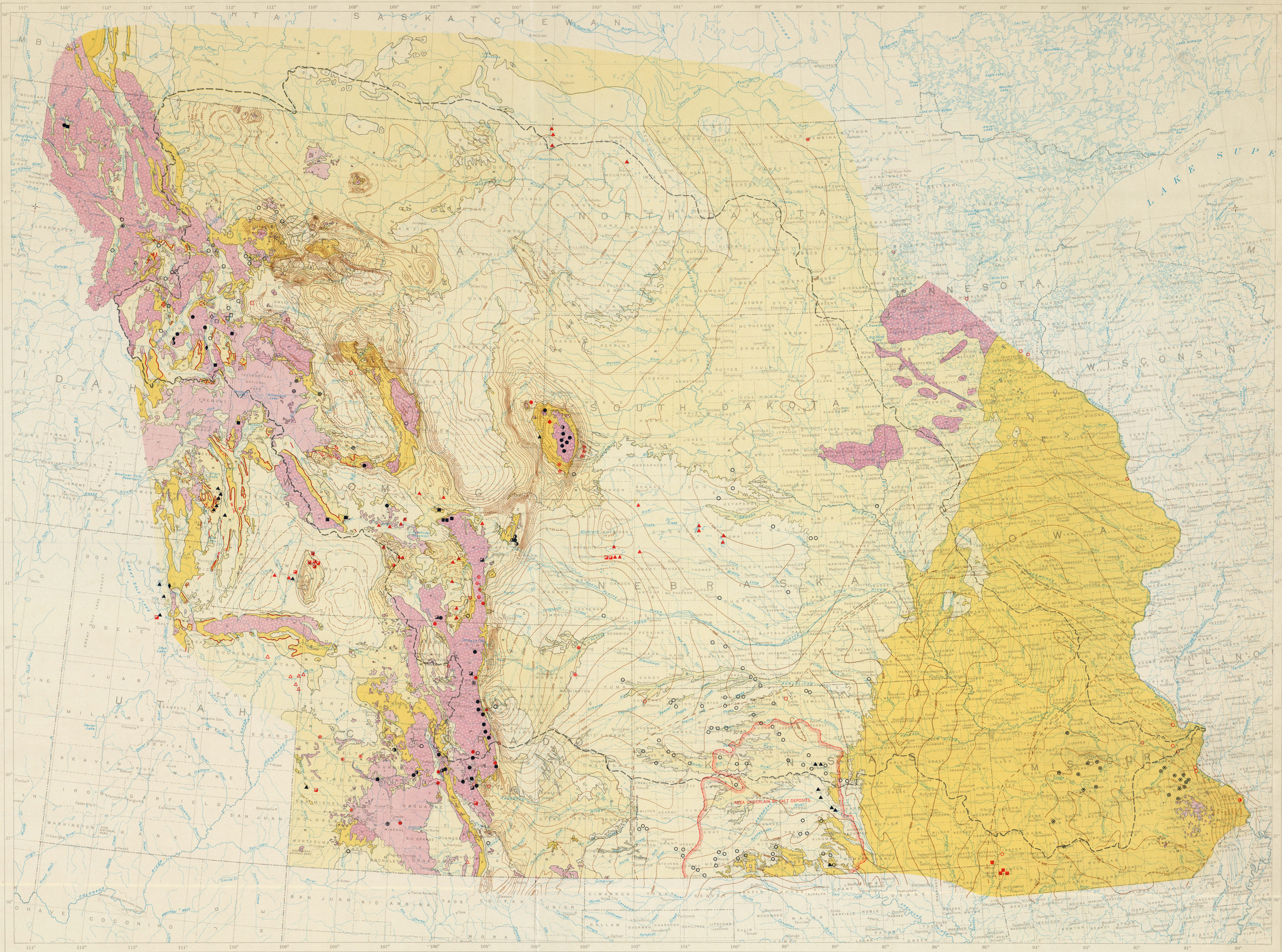
- C
SEDIMENTARY ROCKS OF CENOZOIC AGE
- M
SEDIMENTARY ROCKS OF MESOZOIC AGE
- P
SEDIMENTARY ROCKS OF PALEOZOIC AGE
- V
VOLCANIC ROCKS OF ALL AGES (mostly Cenozoic)
- R
ALL ROCKS OF PRE-CAMBRIAN AGE AND
YOUNGER INTRUSIVE IGNEOUS ROCKS
- S
STRUCTURE CONTOURS
Interval 500 and 2500 feet; datum mean sea level; hypothetical
contours shown by long dashed lines; areas contoured on different
horizons separated by heavy dashed lines.
Horizons contoured include: (1) top of Dakota sandstone (early
Upper Cretaceous) in Montana, Wyoming, Colorado, North Dakota,
South Dakota, and Nebraska; (2) top of Mississippian, mostly in
Kansas; (3) top of Dresbach formation (Upper Cambrian) mostly
in Iowa; and (4) top of Cambrian, mostly in Missouri.
Form lines similar to structure contours, but not drawn on any
definite horizon, are shown in southwestern Wyoming.
- O
OUTLINE OF AREA DRAINED BY THE MISSOURI RIVER AND ITS TRIBUTARIES

ACKNOWLEDGMENTS

The geologic base is simplified from geologic maps of the
United States, Canada, and the various states.
The structure contours are taken from the Tectonic map of
the United States published by the American Association of
Petroleum Geologists in 1944.
The mineral resources are based on published and unpublished
material of the Federal Geological Survey and Bureau of Mines,
and on information published in trade and scientific journals
and by state geological surveys and other state organizations.
PREPARED BY THE GEOLOGICAL SURVEY FOR THE BUREAU OF RECLAMATION

NONMETALLIC MINERAL RESOURCES

- ANORTHOSITE
- ASBESTOS
- BARITE
- ABRASIVE CORUNDUM
- FLUORSPAR
- FULLERS EARTH
- GILSONITE AND GRAHAMITE
- GRAPHITE
- KYANITE, SILLIMANITE, AND ANDALUSITE
- MINERAL PIGMENTS (hematite and umber)
- MONAZITE
- OPTICAL CALCITE
- PEGMATITE MINERALS (beryl, feldspar, mica, spodumene, and others)
- OUTCROP OF PHOSPHATE BED
- POTASH (including leucite in Wyoming)
- SALT DEPOSIT OR PLANT
(area underlain by salt deposits outlined in Kansas)
- INDUSTRIAL AND GEM SAPPHIRES
- SILICA SAND
- SODIUM SULFATE AND CARBONATE
- SULFUR
- TALC
- TRIPOLI
- VOLCANIC ASH, PUMICE, AND PUMICITE



Compiled by D. M. Larrabee, S. E. Clabaugh, and D. H. Dow

MINERAL RESOURCES OF THE MISSOURI VALLEY REGION
PART 2. NONMETALLIC MINERAL RESOURCES

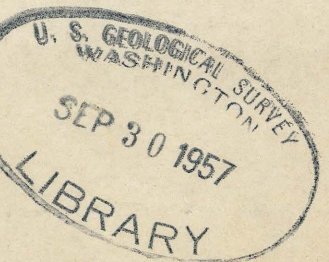
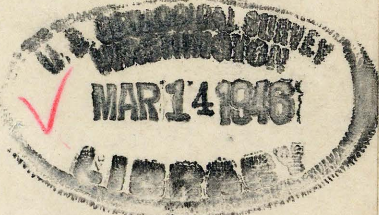
Scale 1: 2,500,000

0 25 50 75 100 125 150 175 200 Miles

1945

United States (Missouri Valley). Non-metals. 1:2,500,000. 1945.
cop 2.

MINERAL RESOURCES OF THE MISSOURI VALLEY REGION
PART 1. METALLIC MINERAL RESOURCES
PART 2. NONMETALLIC MINERAL RESOURCES
PART 3. FUEL RESOURCES
PART 4. CONSTRUCTION MATERIALS



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Nonmetallic
Mineral
Resources
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