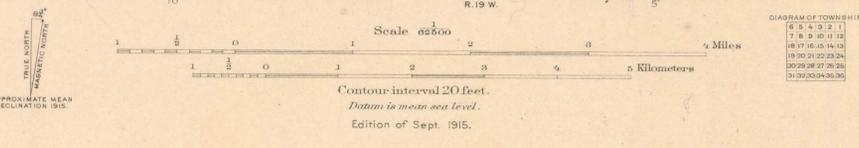


- SEDIMENTARY ROCKS**
(Areas of subaqueous deposits are shown by patterns of parallel lines, subaerial deposits by patterns of dots and circles)
- Qp, Qdp**
Peat and muck in marsh land
(See note in drainage marshes indicated by Qdp)
 - Qal**
Alluvium and lacustrine deposits
(chiefly sand and fine silt)
 - Qaf**
Alluvial fans
(chiefly gravel and sand)
 - Qds**
Dune sand
(derived from glacial river gravels and outwash from young gray drift)
 - Qh**
Later terrace gravels of glacial River Warren time
(deposited in River Warren outlet of glacial Lake Agassiz and in the channel of Mississippi River)
 - Qgl**
Glacial Minnesota and Mississippi river channel floors on Decatur shale and Platteville limestone
(a higher terrace, generally an ice-shed, which cut the bedrock during the deposition of the earlier terrace gravel; a lower terrace, generally on Platteville limestone, cut somewhat later, about 100 feet above present flood plains)
 - Qet**
Earlier terrace gravels of glacial Minnesota and Mississippi rivers
(formed from young gray drift, includes some nearly level till surfaces and some later wash on terrace slopes)
 - Qrg**
Glacial river gravel in partly filled pre-Wisconsin channel
(thin and discontinuous gravel, partly from young gray drift deposited over red till)
 - Qgo**
Gray outwash gravel of the young gray drift
 - Qgt**
Young gray till
(thin sheet, chiefly ground moraine)
 - Qro**
Red outwash gravel of the red drift
(red sand and gravel containing few limestone pebbles)
 - Qr**
Red till
(red bowlder clay containing few limestone pebbles, chiefly terminal moraine)
- QUATERNARY**
- Recent**
- Late Wisconsin**
- Platteville stage**
- Wisconsin stage**
- Middle Wisconsin**
- Ordovician**
- Og**
Galena limestone
(shaly limestone and shale)
 - Od**
Decatur shale
(green shale and some interbedded crystalline limestone)
 - Op**
Platteville limestone
(blue to gray limestone with clay beds at the base)
 - Oap**
St. Peter sandstone
(very white, friable, quartzose sandstone)
 - Os**
Shakopee dolomite
(chiefly massive bedded dolomite with some sandstone)
 - Oo**
Oneota dolomite
(dolomite with some sandstone near the top)
- Quarries**
Gravel pits
Clay pits and brickyards

Henry Ganett, Chief Topographer.
 Jno. H. Renshaw, Topographer in charge.
 Triangulation by U.S. Coast and Geodetic Survey.
 Topography by H.L. Baldwin, Jr.
 Surveyed in 1894.



Geology by F. W. Sardeson.
 Quaternary geology surveyed under supervision of Frank Leverett.
 Surveyed in 1911.

Economic data—Building stone and crushed rock can be obtained from Platteville limestone and rough stone for ballast from Shakopee dolomite, lime from Shakopee dolomite, shale for pressed brick and tile from Decatur and Galena formations and clay for common brick and tile from lacustrine deposits. Qal and red till are used for lime brick and molting sand from St. Peter sandstone. Building sand and gravel for concrete from Qro and gravel for roads from Qro, Qgo, Qet and Qh.

Such of the areas marked Qp, Qh, and Qgl as first class agricultural land. Qal and Qp are good lands when properly drained. Qro, Qgo, Qet and Qh are level productive lands with soil of loose texture. Qds and Qaf are unproductive lands with dusty sandy soils.