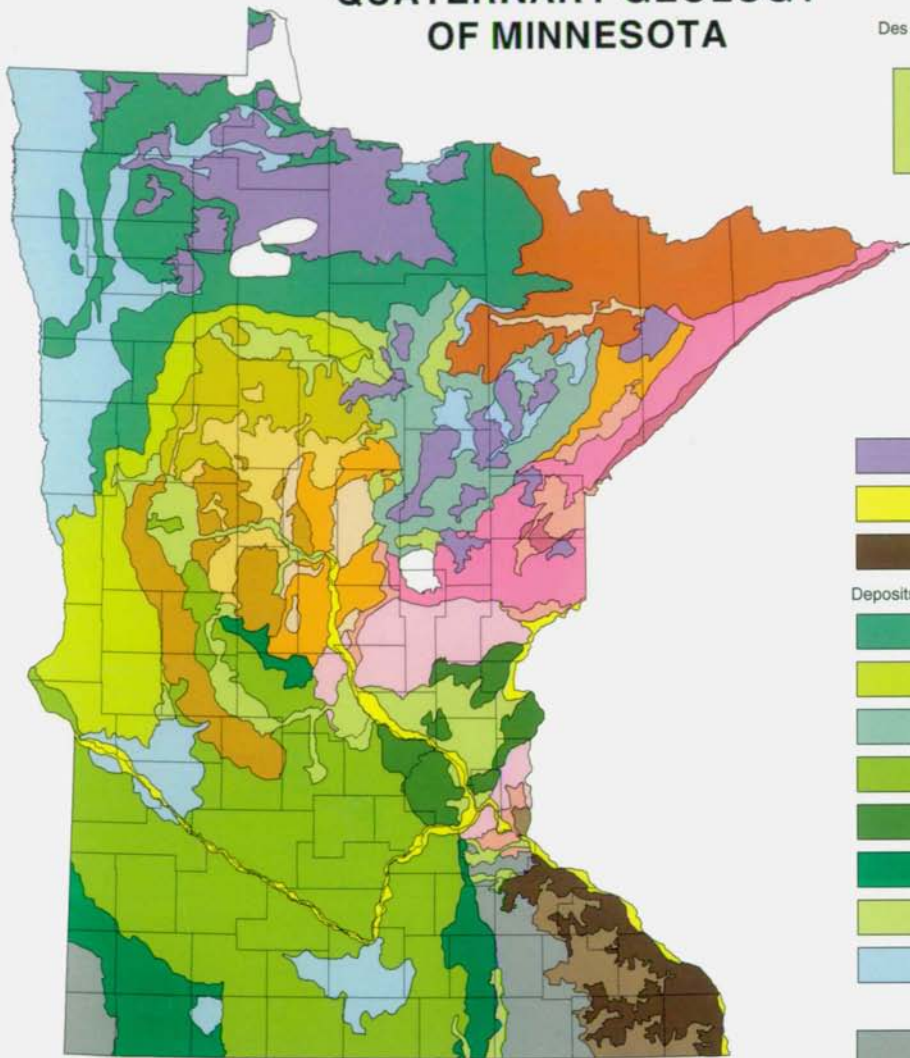
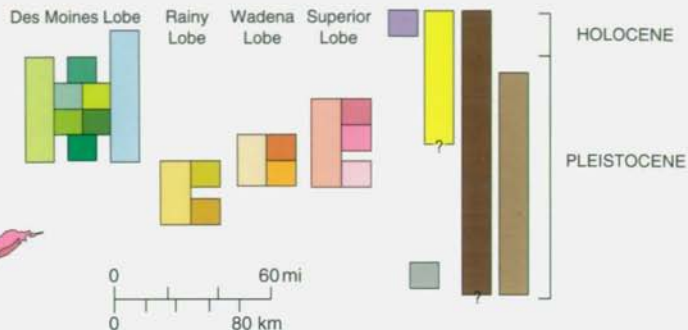


QUATERNARY GEOLOGY OF MINNESOTA



CORRELATION OF MAP UNITS



DESCRIPTION OF MAP UNITS

- | | |
|---|---|
| Peat. | Deposits Associated with the Superior Lobe. |
| Alluvium and terrace deposits. | Till of the Nickerson moraine. |
| Colluvium. | Till of the Cloquet and Mille Lacs-Highland moraines. |
| Deposits Associated with the Des Moines Lobe. | Till of the St. Croix moraine. |
| Till of the Erskine moraine. | Outwash. |
| Till of the Big Stone moraine. | Deposits Associated with the Rainy Lobe. |
| Till of the Culver and Sugar Hills moraines. | Till of the Vermilion and Nashwauk moraines. |
| Till of the Altamont moraine. | Till of the St. Croix moraine. |
| Till of the Pine City moraine. | Outwash. |
| Till of the Bemis moraine. | Deposits Associated with the Wadena Lobe. |
| Outwash. | Till of the Itasca moraine. |
| Glacial lake sediments. | Till of the Alexandria moraine. |
| Old till. | Outwash. |
| | Older Deposits. |
| | Weathered bedrock. |



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This simplified geologic map shows the general distribution of surficial sediments in Minnesota. During the Pleistocene Epoch (2 million- 10,000 years ago), glaciers advanced into Minnesota several times from different directions—the Superior lobe from the northeast; the Rainy lobe from the north-northeast; the Wadena lobe from the north; and the Des Moines lobe from the northwest. This map is modified from Hobbs, H.C., and Goebel, J.E., 1982, Geologic map of Minnesota, Quaternary geology: MGS State Map Series S-1, 1:500,000. Digital compilation by B.A. Lusardi.

In 1997, the Minnesota Geological Survey celebrates its 125th year of research, teaching, and public service in the earth sciences. The Survey is a unit of the Newton Horace Winchell School of Earth Sciences in Institute of Technology at the University of Minnesota.

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