

MULTIPLE ILLINOIAN GLACIATION

IN MC DONOUGH COUNTY

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An Abstract of a Thesis

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Master of Arts

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by

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IN MC DONOUGH COUNTY

ABSTRACT

The northeastern part of McDonough County is physiographically different from the rest of the county. Instead of having the trellis drainage pattern common to the rest of the county, the northeast part of the county has dendritic drainage. There are also extensive sand deposits in that part of the county with dendritic drainage.

Because the Table Grove Moraine of the Monican ice advance is found near the east county line, it seemed very possible that the Monican ice advanced further into the county than previously believed, and was responsible for the physiographic differences in northeast McDonough County. However, further investigations showed that this was not the case. Clay mineral analyses, as well as soil stratigraphic observations, indicate that the physiographic differences were caused by an area of active regimen within the stagnating ice of the Liman advance.