The Stream Power Index (SPI) is a measure of the erosive power of flowing water. SPI is calculated based upon slope and contributing area. SPI approximates locations where gullies might be more likely to form on the landscape. SPI is calculated using the following equation:

\[ \text{SPI} = \ln(DA_i \times \tan(G_i)) \]

where SPI is the stream power index at gridcell i, DA is the upstream drainage area (flow accumulation at gridcell i multiplied by gridcell area), and G is the slope at a grid cell i in radians.

Tax parcels from the Sawyer County Land Records Department, acquired June 2016. Agricultural Tax Parcels selected by tax assessment attributes indicating agricultural land use. Agricultural land uses on parcels with tax exempt status are not included.


Data Sources
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