

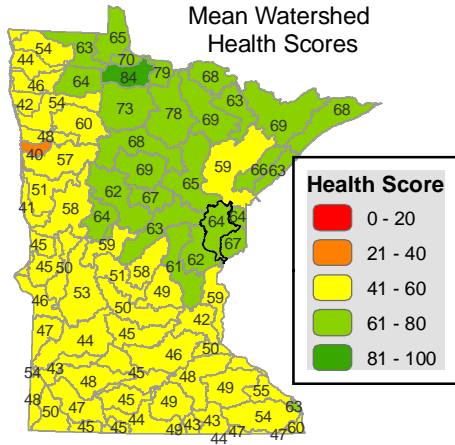
Kettle River

WATERSHED HEALTH ASSESSMENT SCORES

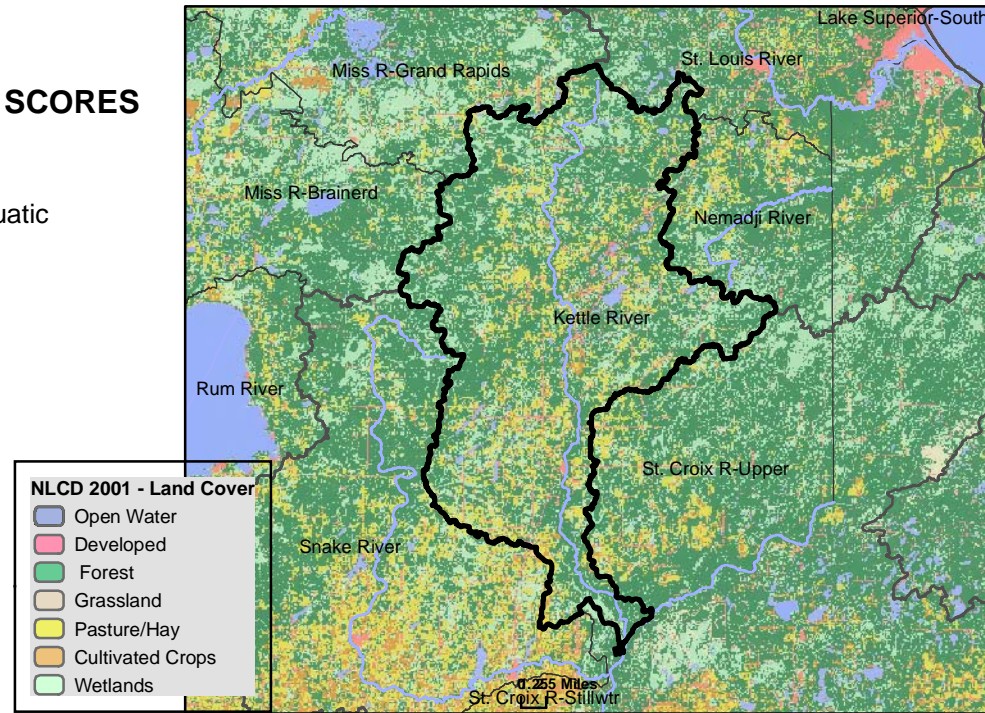
Mean (average) Health Score 64
Minimum Health Index Score 14
Minimum Health Index: Connectivity - Aquatic

Watershed Assessment Tool

http://www.dnr.state.mn.us/watershed_tool



Watershed Health Scores compare and rank various aspects of ecological health across Minnesota. Index values are based on a variety of data sources, calculations and scientific approaches. Each index is scored on a scale from 0 to 100, with 0 being the least desirable result or condition to 100 being the best existing condition or most desirable result. Major watershed scale rankings may mask the range of conditions that occur at more local scales. A high score may indicate the least impacted condition in Minnesota, not necessarily a healthy condition.



COMPONENT SCORES



HYDROLOGY

Mean (Ave.) 89
Minimum Index 66

INDEX SCORES

Perennial Cover 94
 Impervious Cover 99*
 Withdrawal 99*
 Storage 86
 Flow Variability 66

Metric Sub-Scores

Storage:

Stream/Ditch Ratio 73
 Surface storage 98



GEOMORPHOLOGY

Mean (Ave.) 52
Minimum Index 27

INDEX SCORES

Soil Erosion Susceptibility 72
 Groundwater Susceptibility 56
 Climate Vulnerability 27



BIOLOGY

Mean (Ave.) 55
Minimum Index 25

INDEX SCORES

Terrestrial Habitat Quality 25
 Stream Species 74
 Species Richness 71
 At-Risk Species Richness 52



CONNECTIVITY

Mean (Ave.) 46
Minimum Index 14

INDEX SCORES

Terrestrial Habitat Connectivity 32
 Aquatic Connectivity 14
 Riparian Connectivity 94

Metric Sub-Scores

Aquatic Connectivity:

Bridges/Culverts 16
 Dams 11



WATER QUALITY

Mean (Ave.) 76
Minimum Index 46

INDEX SCORES

Non-Point Source 87
 Point Source 96*
 Assessments 46

Metric Sub-Scores

Non-Point Source:

Nutrient Application 99
 Riparian Impervious 75

*These index values are influenced by very low scores associated with dense urban use of resources. This gives comparatively high scores for outstate Minnesota. Viewing input data is necessary to evaluate possible watershed scale concerns.

November, 2011