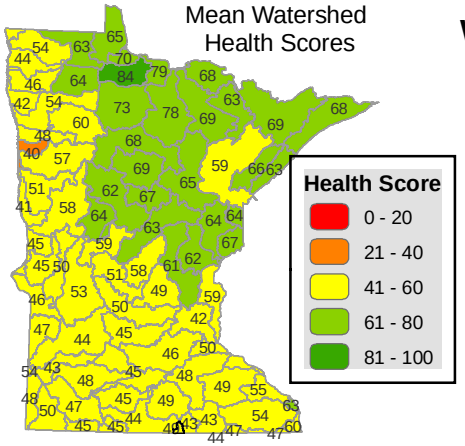
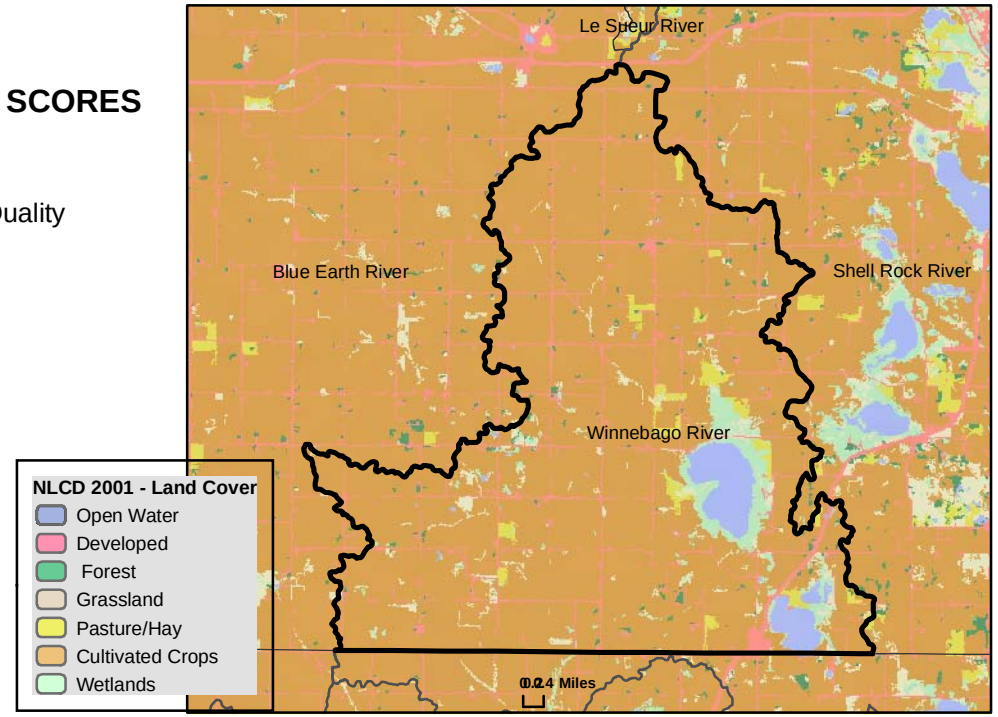
Winnebago River

WATERSHED HEALTH ASSESSMENT SCORES

Mean (average) Health Score 49
Minimum Health Index Score 2
Minimum Health Index: Biology - Habitat Quality



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 condtion 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.)	58
Minimum Index	10

INDEX SCORES

Perennial Cover	10
Impervious Cover	100*
Withdrawal	100*
Storage	10
Flow Variability	71

Metric Sub-Scores
Storage:

Stream/Ditch Ratio	0
Surface storage	21

GEOMORPHOLOGY

Mean (Ave.)	66
Minimum Index	43

INDEX SCORES

Soil Erosion Susceptibility	73
Groundwater Susceptibility	43
Climate Vulnerability	81

BIOLOGY

Mean (Ave.)	45
Minimum Index	2

INDEX SCORES

Terrestrial Habitat Quality	2
Stream Species	65
Species Richness	69
At-Risk Species Richness	42

CONNECTIVITY

Mean (Ave.)	14
Minimum Index	3

INDEX SCORES

Terrestrial Habitat Connectivity	3
Aquatic Connectivity	11
Riparian Connectivity	27

Metric Sub-Scores
Aquatic Connectivity:

Bridges/Culverts	13
Dams	9

WATER QUALITY

Mean (Ave.)	62
Minimum Index	50

INDEX SCORES

Non-Point Source	53
Point Source	83 *
Assessments	50

Metric Sub-Scores
Non-Point Source:

Nutrient Application	28
Riparian Impervious	77

*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