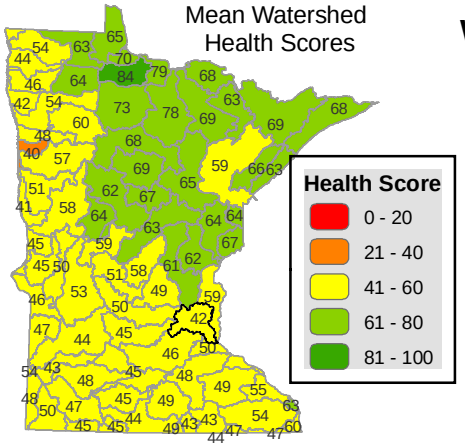
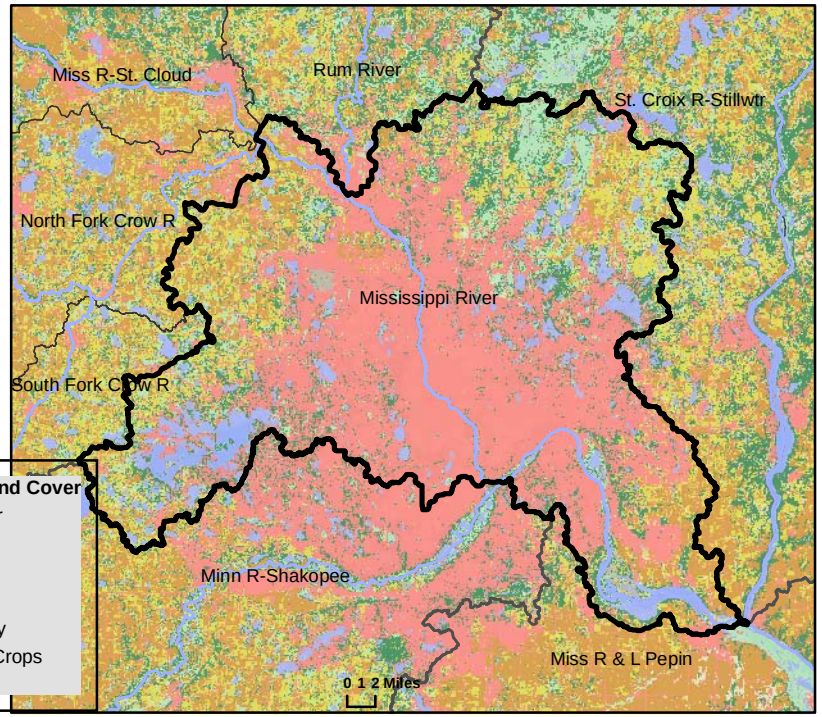
Mississippi River

WATERSHED HEALTH ASSESSMENT SCORES



Mean (average) Health Score 42
Minimum Health Index Score 3
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 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.)	42
Minimum Index	12

INDEX SCORES

Perennial Cover	36
Impervious Cover	27*
Withdrawal	12*
Storage	68
Flow Variability	65

Metric Sub-Scores
Storage:

Stream/Ditch Ratio	66
Surface storage	71

GEOMORPHOLOGY

Mean (Ave.)	66
Minimum Index	26

INDEX SCORES

Soil Erosion Susceptibility	71
Groundwater Susceptibility	26
Climate Vulnerability	100

BIOLOGY

Mean (Ave.)	40
Minimum Index	8

INDEX SCORES

Terrestrial Habitat Quality	8
Stream Species	58
Species Richness	61
At-Risk Species Richness	31

CONNECTIVITY

Mean (Ave.)	24
Minimum Index	3

INDEX SCORES

Terrestrial Habitat Connectivity	10
Aquatic Connectivity	3
Riparian Connectivity	59

Metric Sub-Scores
Aquatic Connectivity:

Bridges/Culverts	0
Dams	6

WATER QUALITY

Mean (Ave.)	37
Minimum Index	26

INDEX SCORES

Non-Point Source	47
Point Source	39*
Assessments	26

Metric Sub-Scores
Non-Point Source:

Nutrient Application	94
Riparian Impervious	0

*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