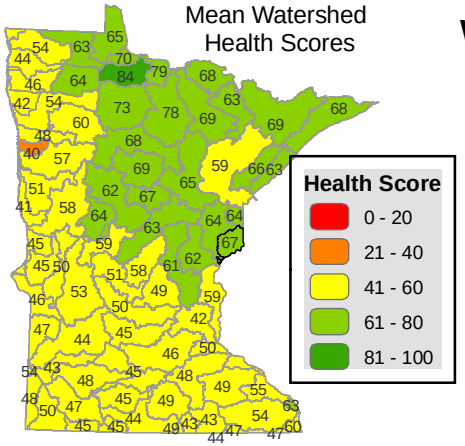
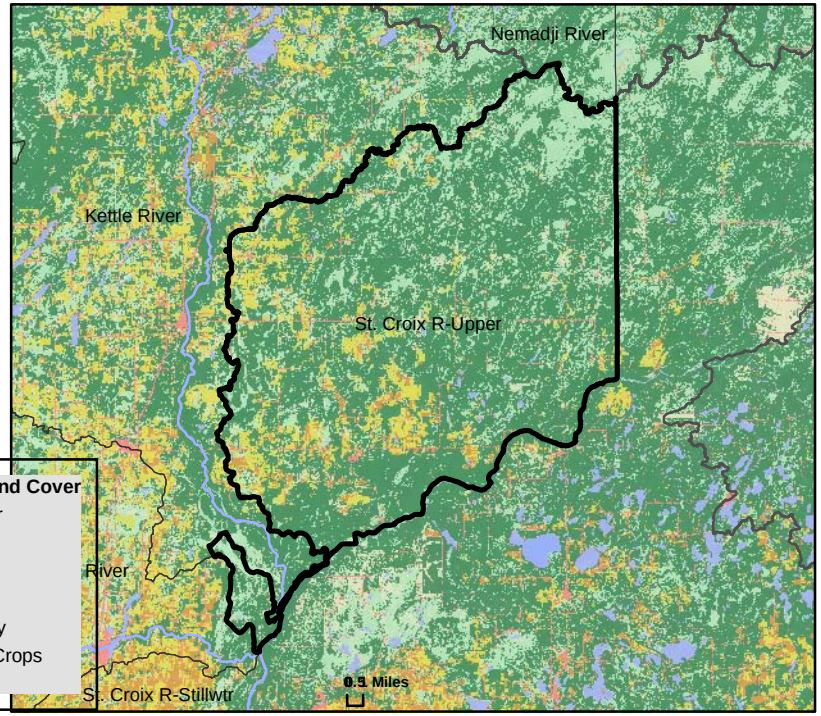
St. Croix R-Upper

WATERSHED HEALTH ASSESSMENT SCORES



Mean (average) Health Score 67
Minimum Health Index Score 17
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.)	91
Minimum Index	67

INDEX SCORES

Perennial Cover	96
Impervious Cover	100*
Withdrawal	100*
Storage	93
Flow Variability	67

Metric Sub-Scores
Storage:

Stream/Ditch Ratio	86
Surface storage	100

GEOMORPHOLOGY

Mean (Ave.)	50
Minimum Index	29

INDEX SCORES

Soil Erosion Susceptibility	62
Groundwater Susceptibility	58
Climate Vulnerability	29

BIOLOGY

Mean (Ave.)	59
Minimum Index	45

INDEX SCORES

Terrestrial Habitat Quality	45
Stream Species	70
Species Richness	71
At-Risk Species Richness	52

CONNECTIVITY

Mean (Ave.)	55
Minimum Index	17

INDEX SCORES

Terrestrial Habitat Connectivity	51
Aquatic Connectivity	17
Riparian Connectivity	97

Metric Sub-Scores
Aquatic Connectivity:

Bridges/Culverts	27
Dams	6

WATER QUALITY

Mean (Ave.)	81
Minimum Index	52

INDEX SCORES

Non-Point Source	95
Point Source	97 *
Assessments	52

Metric Sub-Scores
Non-Point Source:

Nutrient Application	99
Riparian Impervious	91

*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