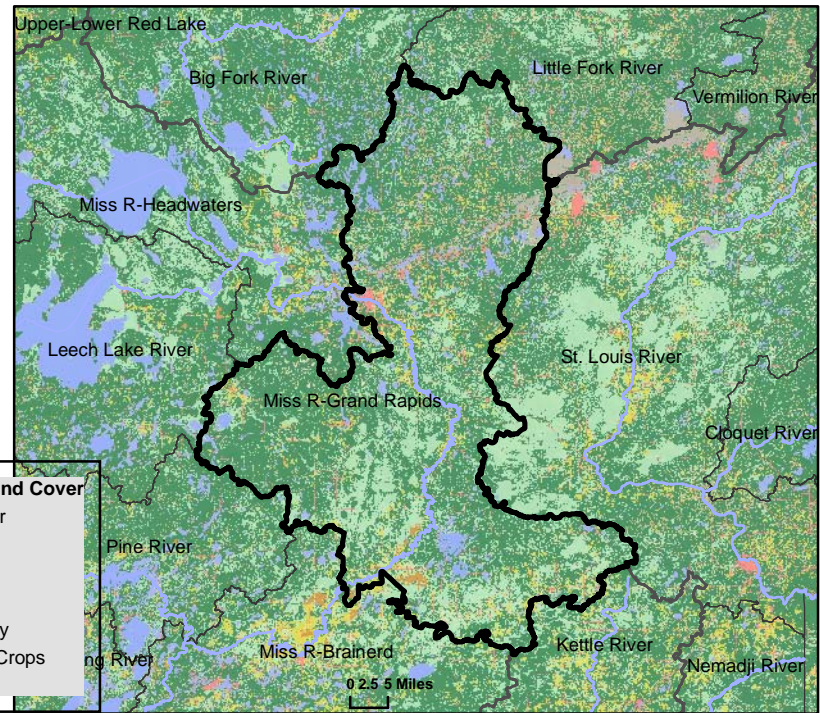# Miss R-Grand Rapids
WATERSHED HEALTH ASSESSMENT SCORES

Mean (average) Health Score	65
Minimum Health Index Score	15
Minimum Health Index:	Connectivity - Aquatic

Watershed Assessment Tool
http://www.dnr.state.mn.us/watershed_tool

Mean Watershed Health Scores

Health Score
- 0 - 20
- 21 - 40
- 41 - 60
- 61 - 80
- 81 - 100

NLCD 2001 - Land Cover
- Open Water
- Developed
- Forest
- Grassland
- Pasture/Hay
- Cultivated Crops
- Wetlands

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.)	83
Minimum Index	53

INDEX SCORES
Perennial Cover	94
Impervious Cover	98 *
Withdrawal	90 *
Storage	79
Flow Variability	53

Metric Sub-Scores
Storage:
Stream/Ditch Ratio	59
Surface storage	99

GEOMORPHOLOGY
Mean (Ave.)	59
Minimum Index	48

INDEX SCORES
Soil Erosion Susceptibility	80
Groundwater Susceptibility	51
Climate Vulnerability	48

BIOLOGY
Mean (Ave.)	49
Minimum Index	36

INDEX SCORES
Terrestrial Habitat Quality	39
Stream Species	67
Species Richness	54
At-Risk Species Richness	36

CONNECTIVITY
Mean (Ave.)	53
Minimum Index	15

INDEX SCORES
Terrestrial Habitat Connectivity	49
Aquatic Connectivity	15
Riparian Connectivity	96

Metric Sub-Scores
Aquatic Connectivity:
Bridges/Culverts	27
Dams	4

WATER QUALITY
Mean (Ave.)	83
Minimum Index	74

INDEX SCORES
Non-Point Source	88
Point Source	86 *
Assessments	74

Metric Sub-Scores
Non-Point Source:
Nutrient Application	100
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