

Watershed Health Assessment Framework

"Managing for System Health"





Watershed Report Card:

Rainy R-Rainy Lake



People and Places:

Watershed Population:

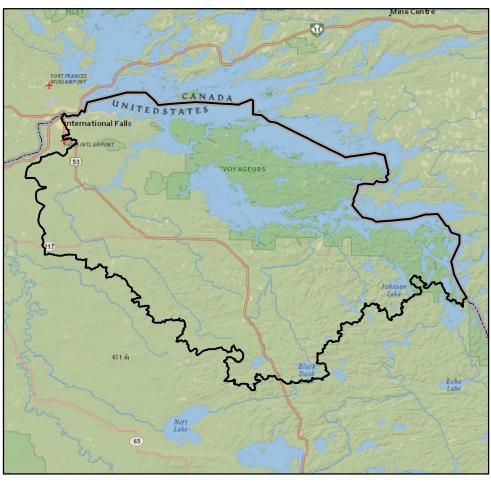
2000 census - 5,482 2010 census - 5,103

Largest Cities - Population:

Ranier - 145 Ash Lake - None Arbutus - None Ray - None Kabetogama - None

Counties - % of watershed:

St. Louis - 64 % Koochiching - 36 %



Watershed Area:

Watershed size:

582,765 acres 911 square miles

Watershed Surface Area:

Percent Land - 83 % Percent Water - 17 %

HUC8 ID:

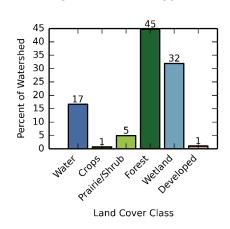
09030003

Basin Name:

Rainy River (0903)

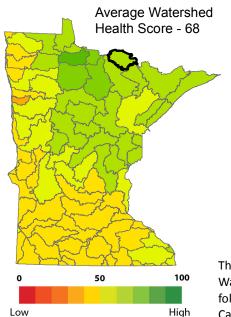
Land Use:

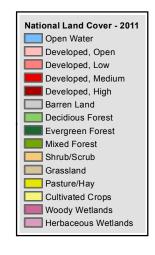
Percent of watershed area by land cover type:



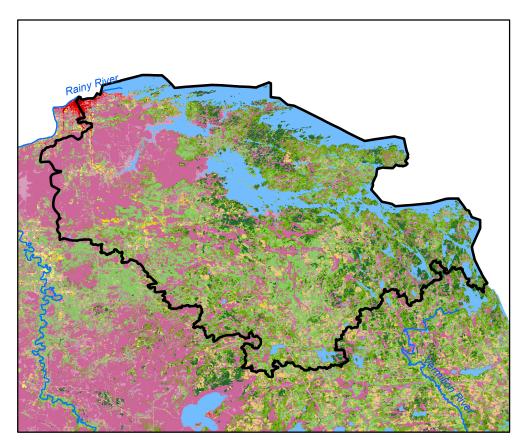
Watershed Health Report - Major Watershed

Rainy R-Rainy Lake





These health scores are calculated at the Major Watershed (HUC8) scale. Health score names followed by (*) are also calculated at the DNR Catchment scale (subdivided HUC12). Those results are reported on the following pages.





Hydrology

Component Health Score (index average) 93

Index Scores

Perennial Cover* 98
Impervious Cover* 89
Water Withdrawal* 99
Flow Variability 74
Hydrologic Storage 93
Sub-Scores
Altered Streams* 87
Surface Storage 100



Geomorphology

Component Health Score (index average) 69

Index Scores

Soil Erosion Potential* 66

Groundwater Susceptibility 86

Climate Vulnerability 53



Biology

Component Health Score (index average) 51

Index Scores

Terrestrial Habitat Quality* 37

Stream Species 88

Quality* 53

At-Risk Species 27

Richness



Connectivity

99

Component Health Score (index average) 63

Index Scores

Terrestrial Habitat
Connectivity

Aquatic
Connectivity*

91

Connectivity*



Water Quality

Component Health Score (index average) 66

Index Scores

Non-Point Pollution Sources

Sub-Score Phosphorus Risk* 92

Localized Pollution Sources* 92

Assessments 1

