

Watershed Health Assessment Framework

"Managing for System Health"





Watershed Report Card:

Winnebago River



People and Places:

Watershed Population:

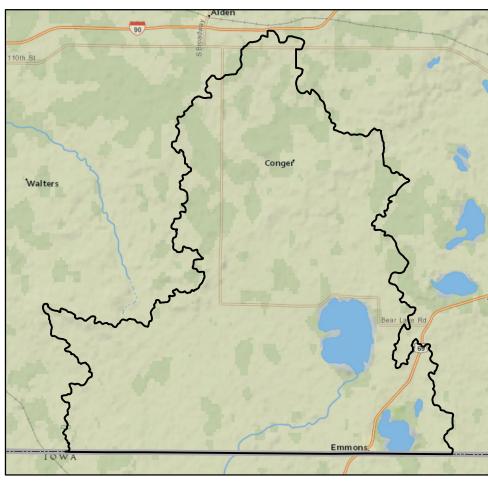
2000 census - 1,234 2010 census - 1,143

Largest Cities - Population:

Emmons - 391 Conger - 146 Emmons Trailer Court - None

Counties - % of watershed:

Freeborn - 99 % Faribault - 1 %



Watershed Area:

Watershed size:

45,649 acres 71 square miles

Watershed Surface Area:

Percent Land - 96 % Percent Water - 4 %

HUC8 ID:

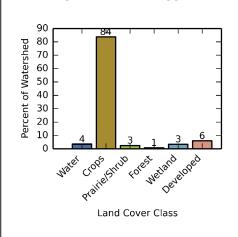
07080203

Basin Name:

Upper Mississippi - Iowa/Skunk/Wapsipinicon (0708)

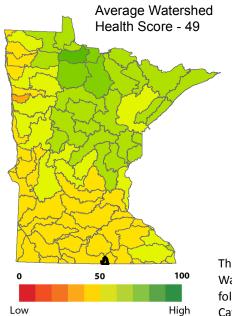
Land Use:

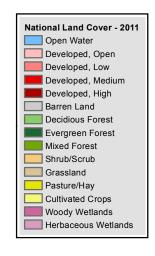
Percent of watershed area by land cover type:



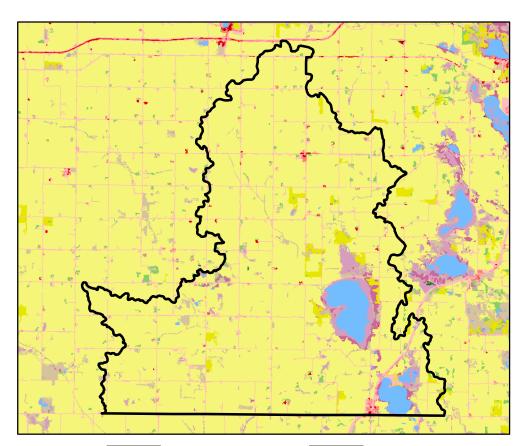
Watershed Health Report - Major Watershed

Winnebago River





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) 58

Index Scores

Perennial Cover* 9
Impervious Cover* 85
Water Withdrawal* 99
Flow Variability 71
Hydrologic Storage 10
Sub-Scores
Altered Streams* 0
Surface Storage 21



Geomorphology

Component Health Score (index average) 66

Index Scores

Soil Erosion Potential* 73

Groundwater Susceptibility 43

Climate Vulnerability 81



Biology

Component Health Score (index average) 44

Index Scores

Terrestrial Habitat Quality* 2

Stream Species 65
Quality* 65

At-Risk Species 49

Richness

42



Connectivity

Component Health Score (index average) 14

Index Scores

Terrestrial Habitat
Connectivity

Aquatic Connectivity* 62

Riparian
Connectivity*
27



Water Quality

Component Health Score (index average) 62

Index Scores

Non-Point Pollution
Sources
Sub-Score
Phosphorus Risk* 2

Phosphorus Risk*

Localized Pollution Sources*

Assessments 50

