

Watershed Health Assessment Framework

"Managing for System Health"





Watershed Report Card:

Zumbro River



People and Places:

Watershed Population:

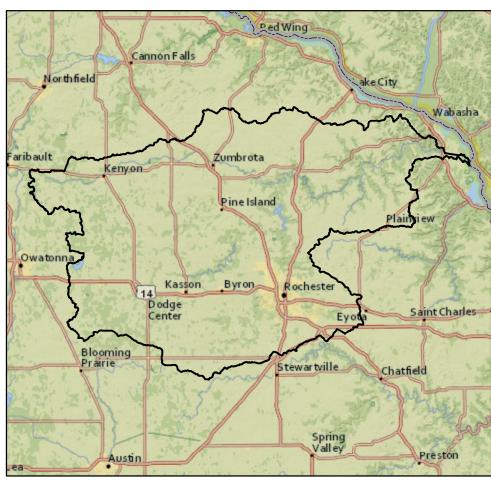
2000 census - 149,229 2010 census - 171,421

Largest Cities - Population:

Rochester - 106,769 Kasson - 5,931 Byron - 4,914 Marion - 3,653 Plainview - 3,340

Counties - % of watershed:

Olmsted - 26 % Dodge - 26 % Wabasha - 24 % Goodhue - 19 % Rice - 3 % Steele - 2 % Mower - 0 %



Watershed Area:

Watershed size:

909,366 acres 1,421 square miles

Watershed Surface Area:

Percent Land - 100 % Percent Water - 0 %

HUC8 ID:

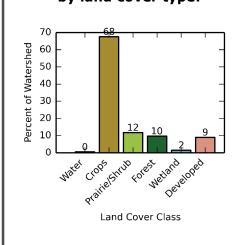
07040004

Basin Name:

Upper-Mississippi -Black/Plum (0704)

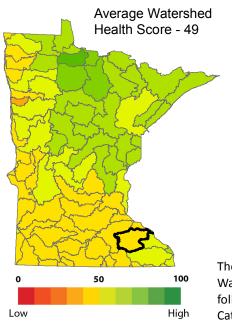
Land Use:

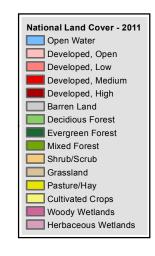
Percent of watershed area by land cover type:



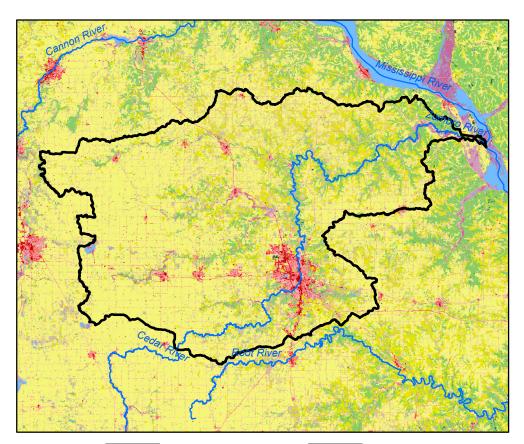
Watershed Health Report - Major Watershed

Zumbro 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) 69

Index Scores

Perennial Cover* 35
Impervious Cover* 47
Water Withdrawal* 99
Flow Variability 69
Hydrologic Storage 62
Sub-Scores
Altered Streams* 93
Surface Storage 31



Geomorphology

Component Health Score (index average) 50

Index Scores

Soil Erosion Potential* 53

Groundwater Susceptibility 24

Climate Vulnerability 74



Biology

Component Health Score (index average) 44

Index Scores

Terrestrial Habitat Quality* 10

Stream Species	68
Quality*	
Species Richness	60
At-Risk Species	39

Richness



Connectivity

Component Health Score (index average) 31

Index Scores

Terrestrial Habitat
Connectivity

Aquatic
Connectivity*

25

Riparian
Connectivity* 68



Water Quality

Component Health Score (index average) 53

Index Scores

Non-Point Pollution
Sources
Sub-Score
Phosphorus Risk* 19
Localized Pollution
Sources* 79
Assessments 49

