

## Appendix J

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### Quality of Existing Surface Water Conditions

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# Watershed Health Assessment Framework

*"Managing for System Health"*



## Watershed Report Card: Pine River



### People and Places:

#### Watershed Population:

2000 census - 13,589

2010 census - 15,170

#### Largest Cities - Population:

Breezy Point - 2,346

Pine River - 944

Emily - 813

Jenkins - 430

Fifty Lakes - 387

#### Counties - % of watershed:

Cass - 50 %

Crow Wing - 47 %

Aitkin - 2 %

Hubbard - 0 %

### Watershed Area:

#### Watershed size:

500,887 acres

783 square miles

#### Watershed Surface Area:

Percent Land - 88 %

Percent Water - 12 %

#### HUC8 ID:

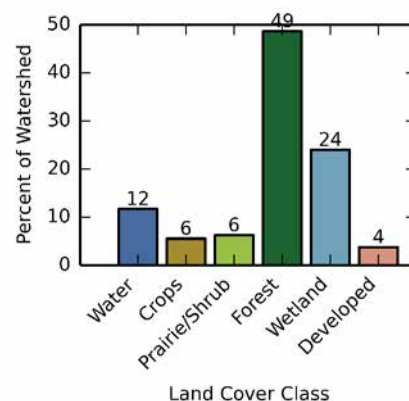
07010105

#### Basin Name:

Mississippi Headwaters (0701)

### Land Use:

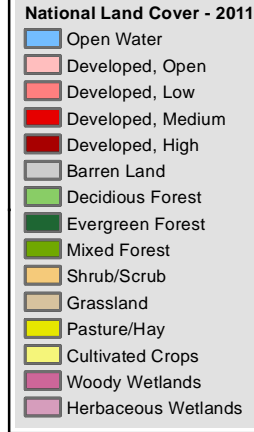
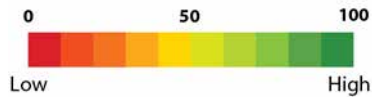
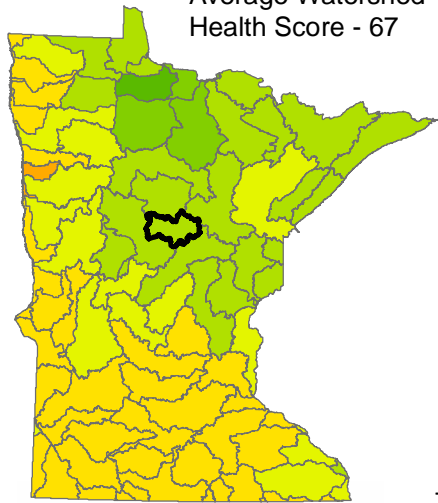
Percent of watershed area  
by land cover type:



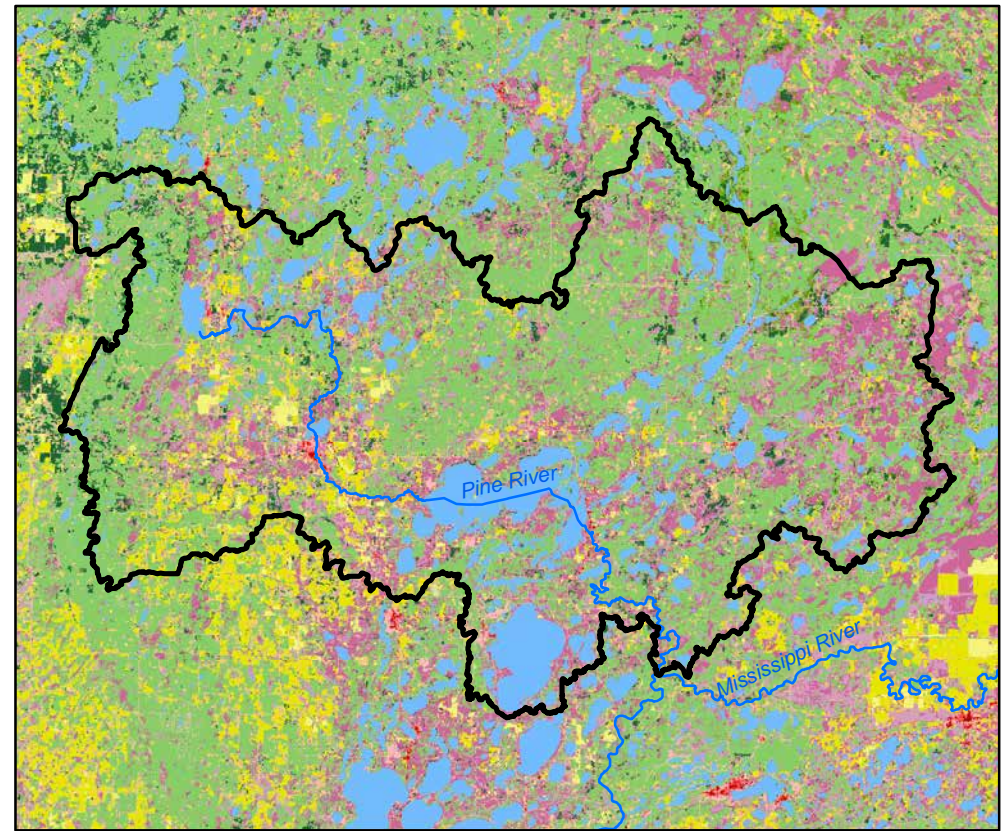
# Watershed Health Report - Major Watershed

## Pine River

Average Watershed Health Score - 67



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) 91

#### Index Scores

Perennial Cover*	94
Impervious Cover*	86
Water Withdrawal*	99
Flow Variability	68
Hydrologic Storage	94
<b>Sub-Scores</b>	
Altered Streams*	91
Surface Storage	98



### Geomorphology

Component Health Score (index average) 59

#### Index Scores

Soil Erosion Potential*	75
Groundwater Susceptibility	31
Climate Vulnerability	70



### Biology

Component Health Score (index average) 43

#### Index Scores

Terrestrial Habitat Quality*	21
Stream Species Quality*	58
Species Richness	54
At-Risk Species Richness	38



### Connectivity

Component Health Score (index average) 46

#### Index Scores

Terrestrial Habitat Connectivity	30
Aquatic Connectivity*	72
Riparian Connectivity*	97



### Water Quality

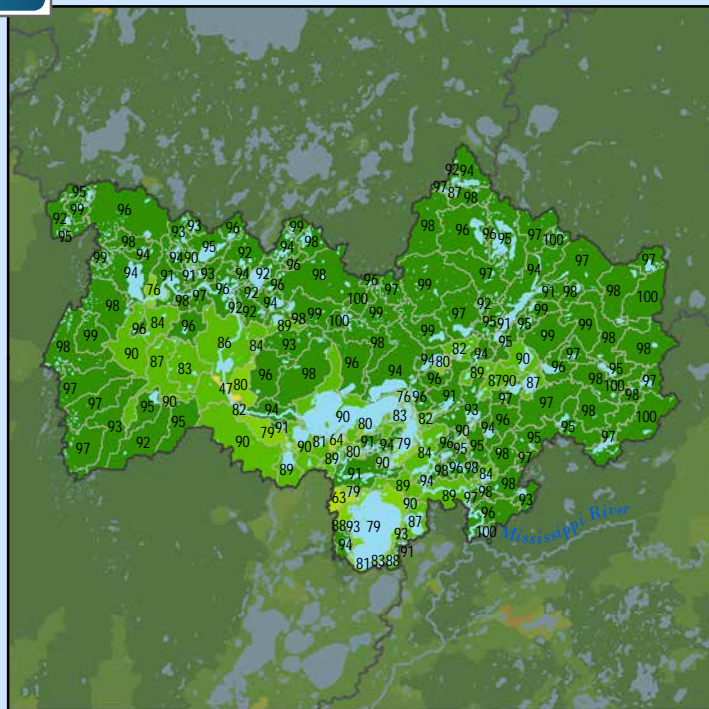
Component Health Score (index average) 95

#### Index Scores

Non-Point Pollution Sources	90
<b>Sub-Score</b>	
Phosphorus Risk*	87
Localized Pollution Sources*	89
Assessments	95



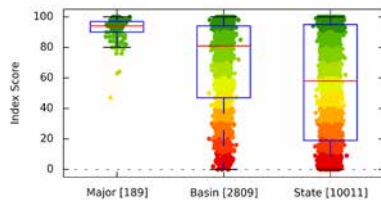
## Perennial Cover (2011)



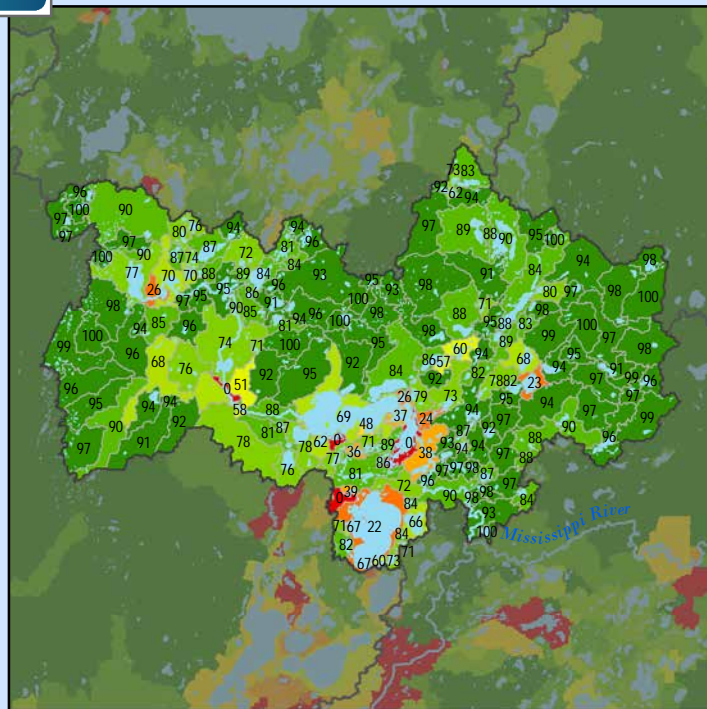
### Health Score Distributions:

Pine River

Min: 47  
Max: 100  
Median: 94.0  
Mean: 92.44  
Standard Dev: 7.11



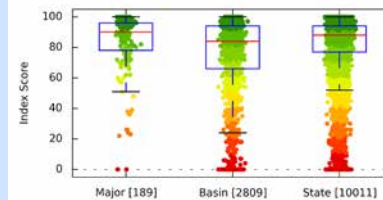
## Impervious Cover (2011)



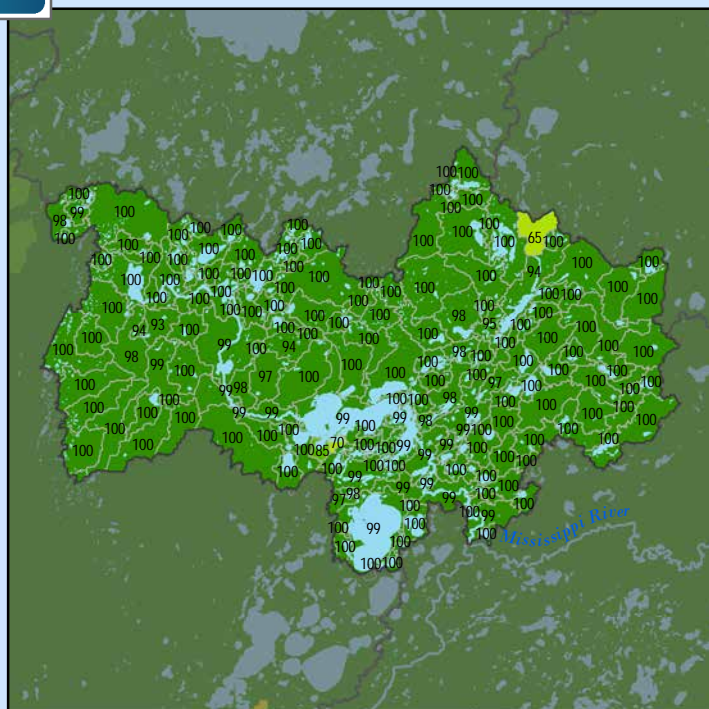
### Health Score Distributions:

Pine River

Min: 0  
Max: 100  
Median: 90.0  
Mean: 82.89  
Standard Dev: 20.41



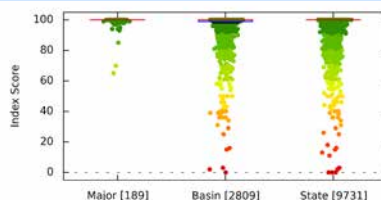
## Water Withdrawal Index



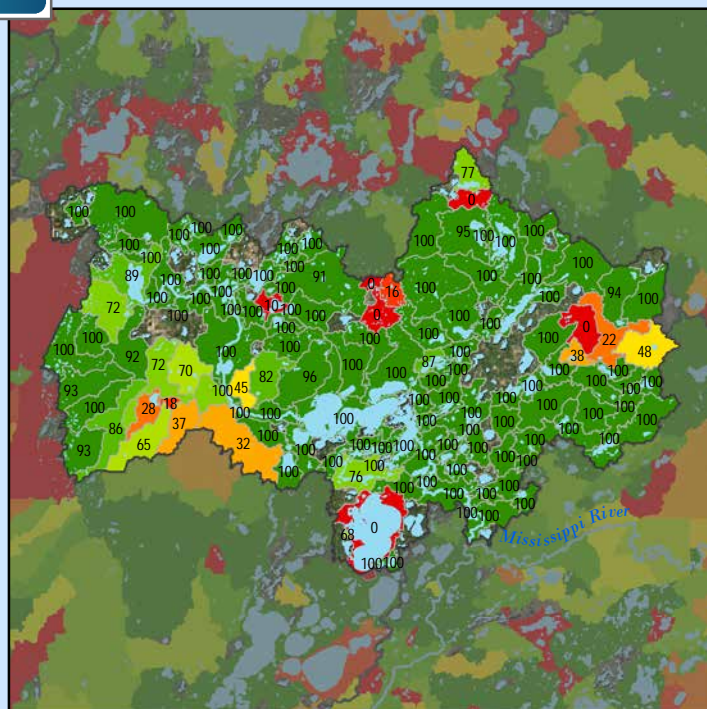
### Health Score Distributions:

Pine River

Min: 65  
Max: 100  
Median: 100.0  
Mean: 99.19  
Standard Dev: 3.63



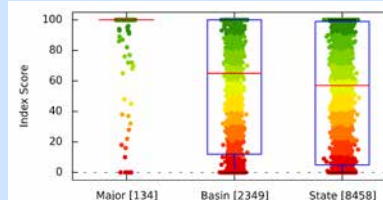
## Altered Streams



### Health Score Distributions:

Pine River

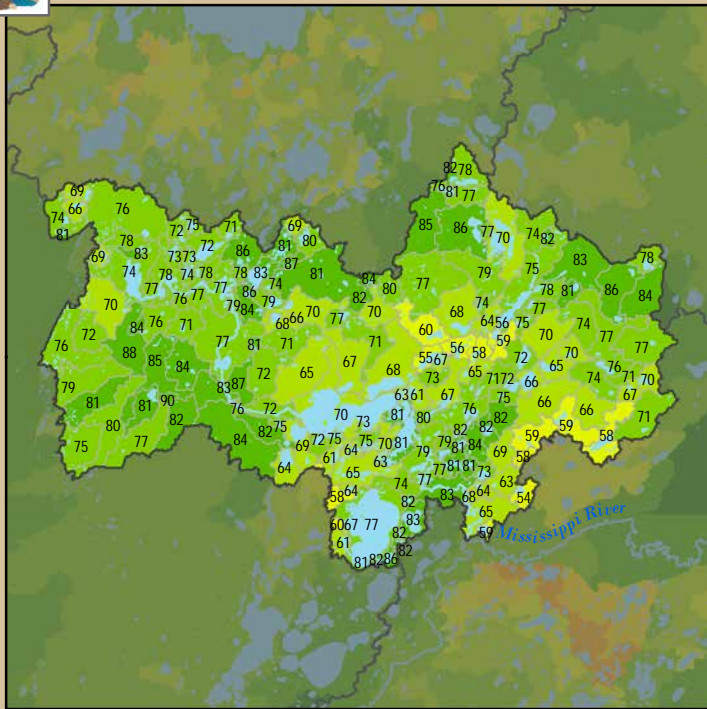
Min: 0  
Max: 100  
Median: 100.0  
Mean: 88.75  
Standard Dev: 26.1







## Soil Erosion Potential



### Health Score Distributions:

Pine River

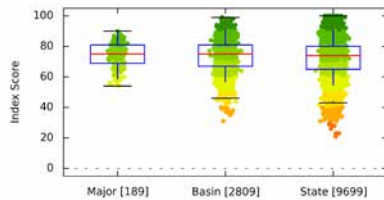
Min: 54

Max: 90

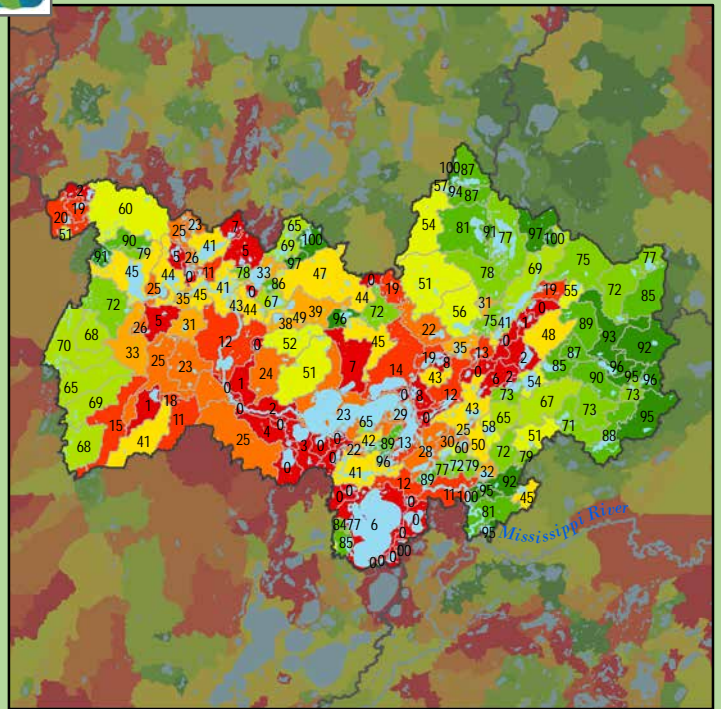
Median: 75.0

Mean: 74.27

Standard Dev: 7.95



## Terrestrial Habitat Quality



### Health Score Distributions:

Pine River

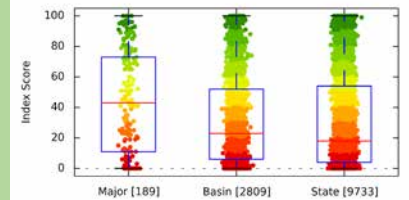
Min: 0

Max: 100

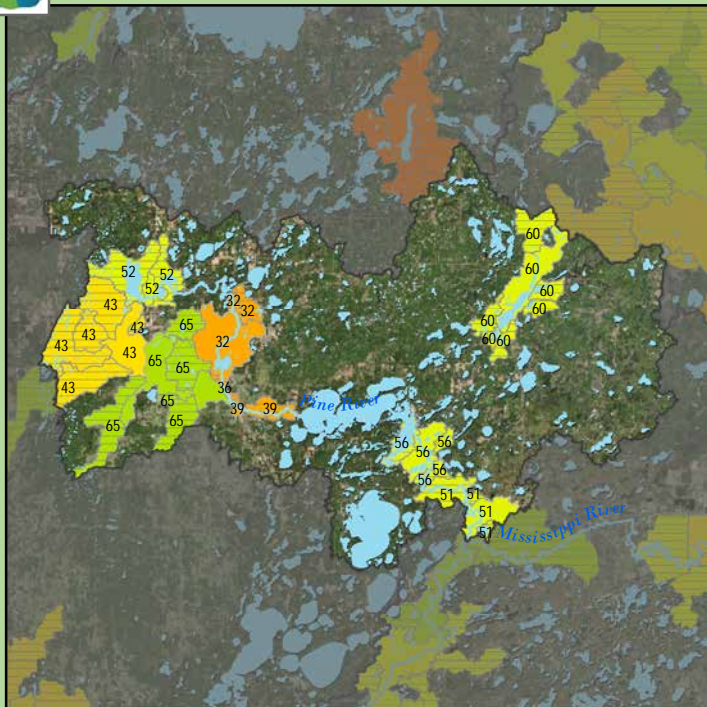
Median: 43.0

Mean: 43.58

Standard Dev: 33.64



## Stream Species Quality - Mussel Score



### Health Score Distributions:

Pine River

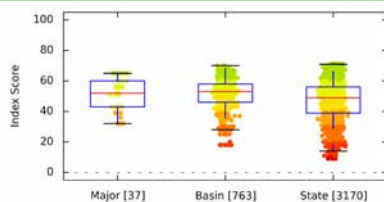
Min: 32

Max: 65

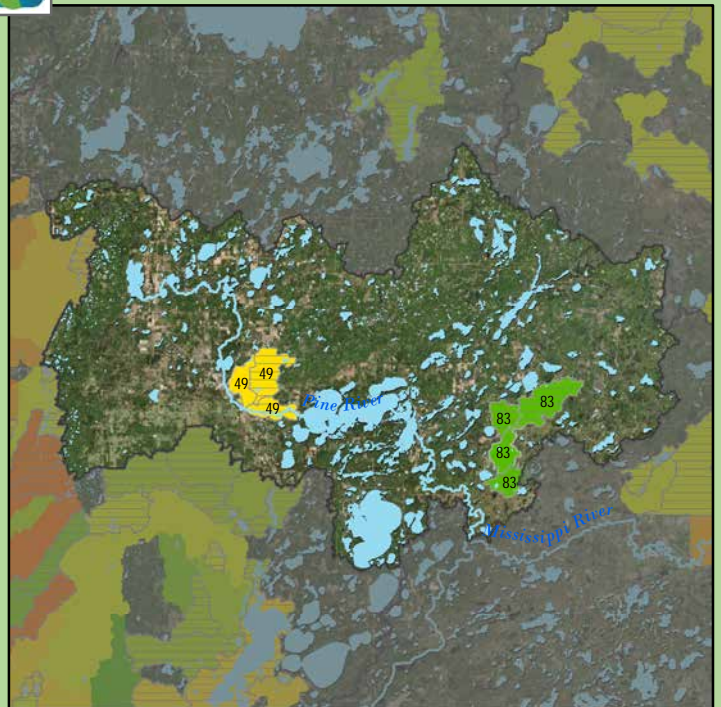
Median: 52.0

Mean: 51.84

Standard Dev: 10.17



## Stream Species Quality - Aquatic Invertebrate IBI



### Health Score Distributions:

Pine River

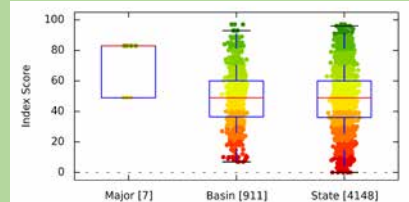
Min: 49

Max: 83

Median: 83.0

Mean: 68.43

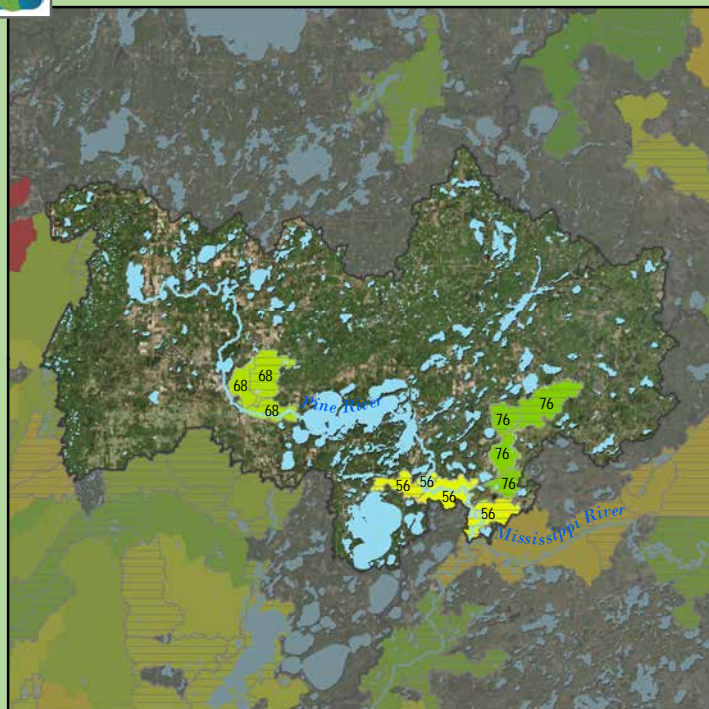
Standard Dev: 16.83







## Stream Species Quality - Fish IBI



### Health Score Distributions:

Pine River

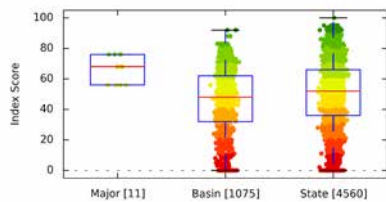
Min: 56

Max: 76

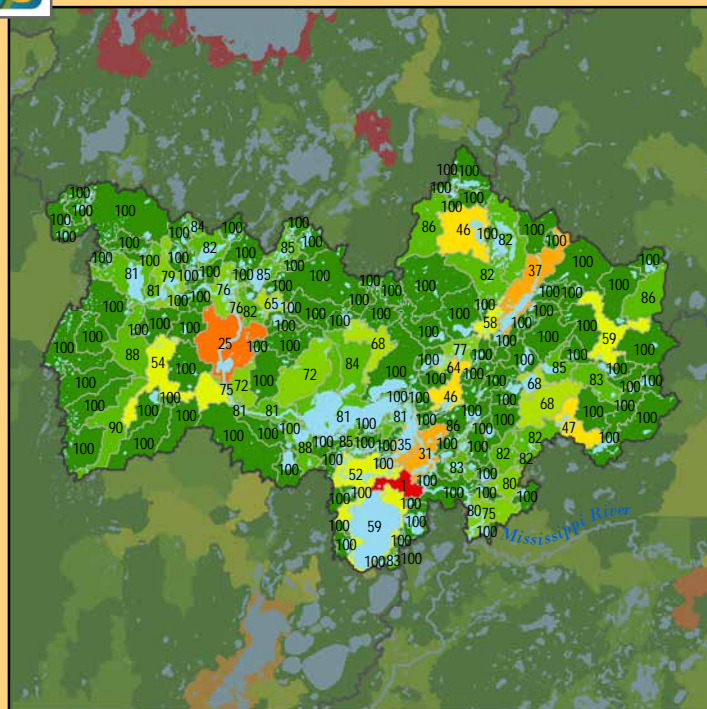
Median: 68.0

Mean: 66.55

Standard Dev: 8.57



## Aquatic Connectivity



### Health Score Distributions:

Pine River

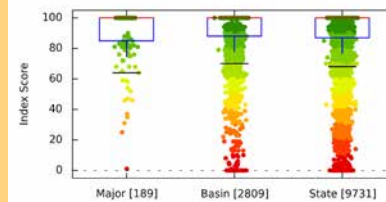
Min: 1

Max: 100

Median: 100.0

Mean: 91.4

Standard Dev: 16.55



## Riparian Connectivity



### Health Score Distributions:

Pine River

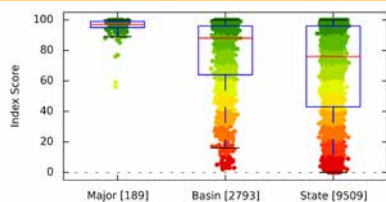
Min: 56

Max: 100

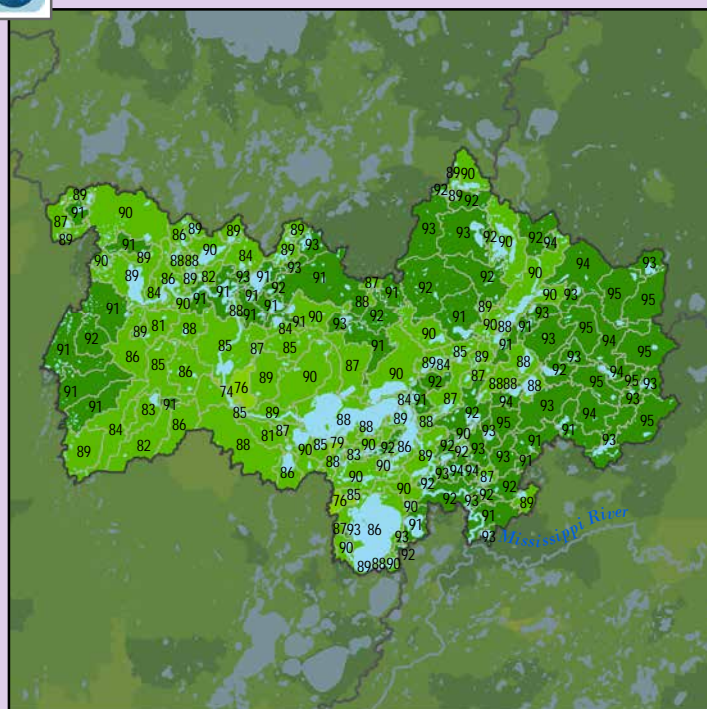
Median: 97.0

Mean: 95.98

Standard Dev: 5.44



## Non-Point Source - Phosphorus Risk



### Health Score Distributions:

Pine River

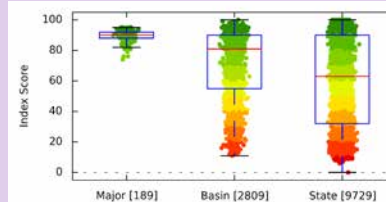
Min: 74

Max: 95

Median: 90.0

Mean: 89.6

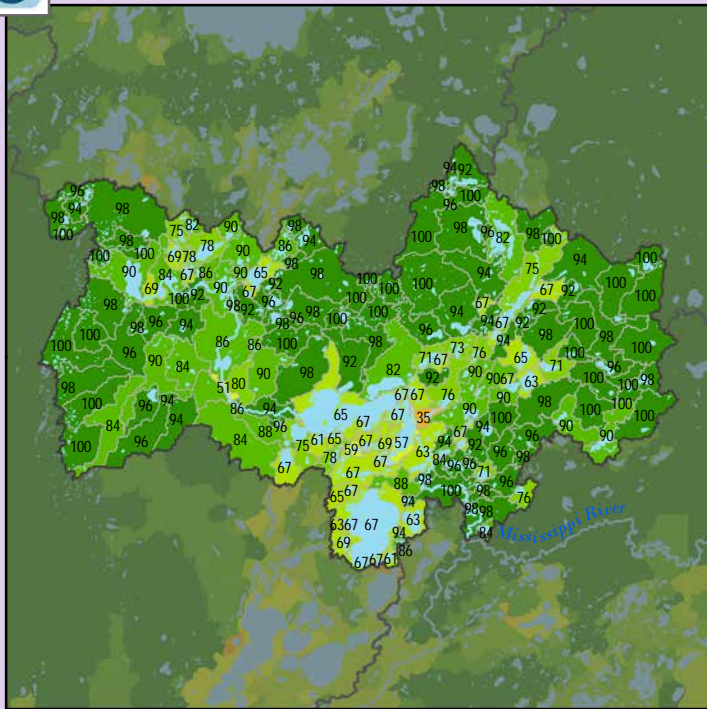
Standard Dev: 3.61







## Localized Pollution Sources



### Health Score Distributions:

Pine River

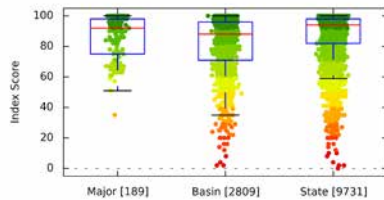
Min: 35

Max: 100

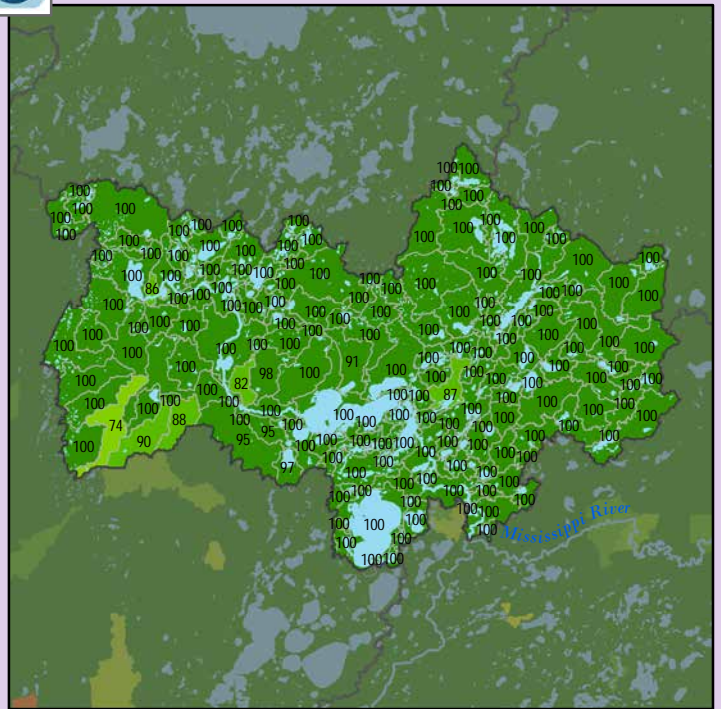
Median: 92.0

Mean: 86.74

Standard Dev: 13.68



## Localized Pollution Sources - Animal Units



### Health Score Distributions:

Pine River

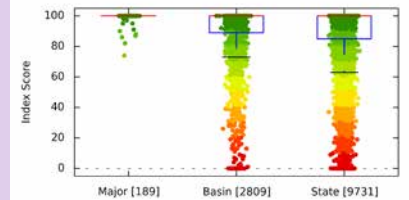
Min: 74

Max: 100

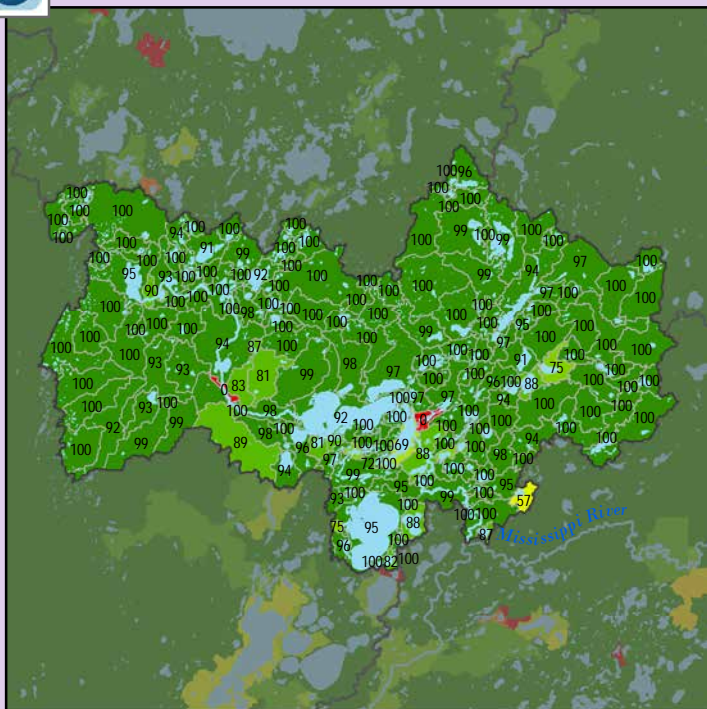
Median: 100.0

Mean: 99.38

Standard Dev: 2.98



## Localized Pollution Sources - Potential Contaminants



### Health Score Distributions:

Pine River

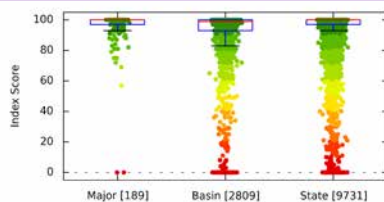
Min: 0

Max: 100

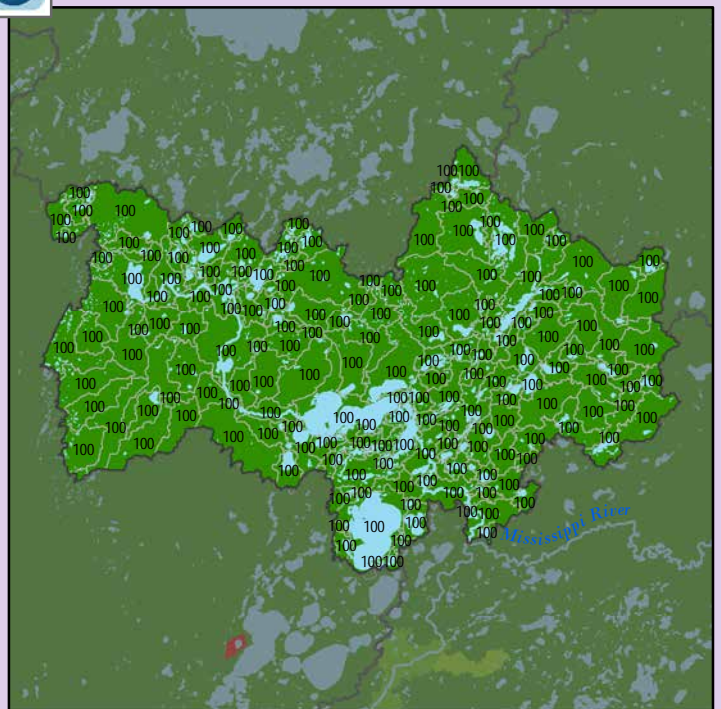
Median: 100.0

Mean: 96.03

Standard Dev: 11.75



## Localized Pollution Sources - Superfund Sites



### Health Score Distributions:

Pine River

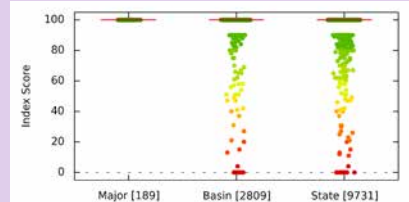
Min: 100

Max: 100

Median: 100.0

Mean: 100.0

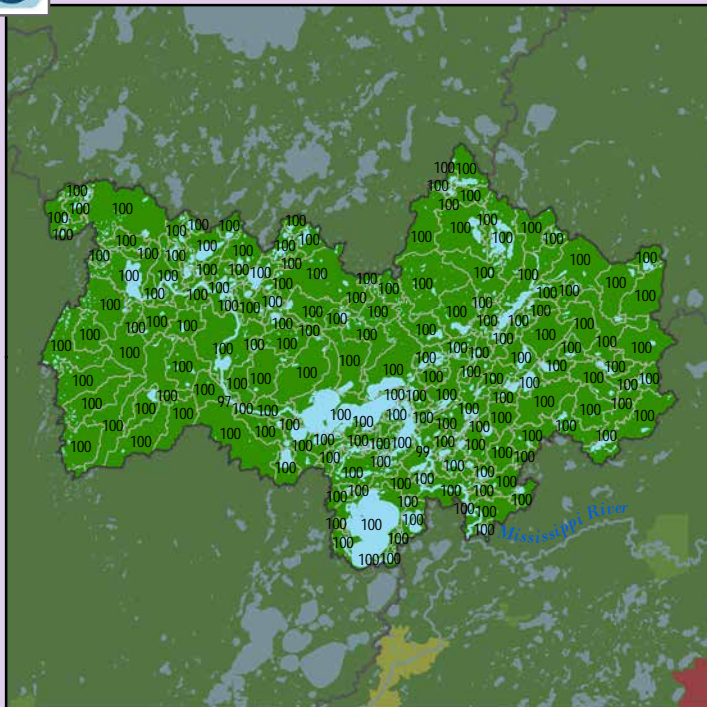
Standard Dev: 0.0





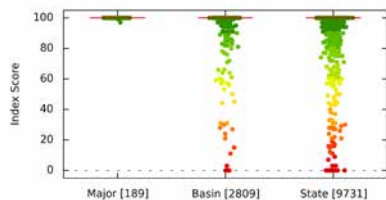


## Localized Pollution Sources - Wastewater Treatment

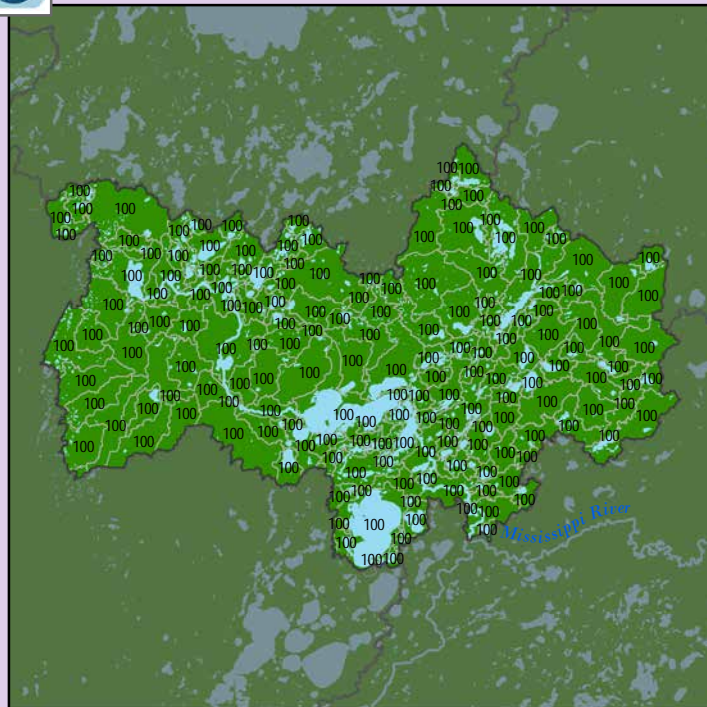


### Health Score Distributions:

Pine River  
Min: 97  
Max: 100  
Median: 100.0  
Mean: 99.98  
Standard Dev: 0.23

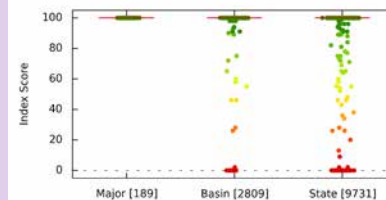


## Localized Pollution Sources - Open Pit Mines

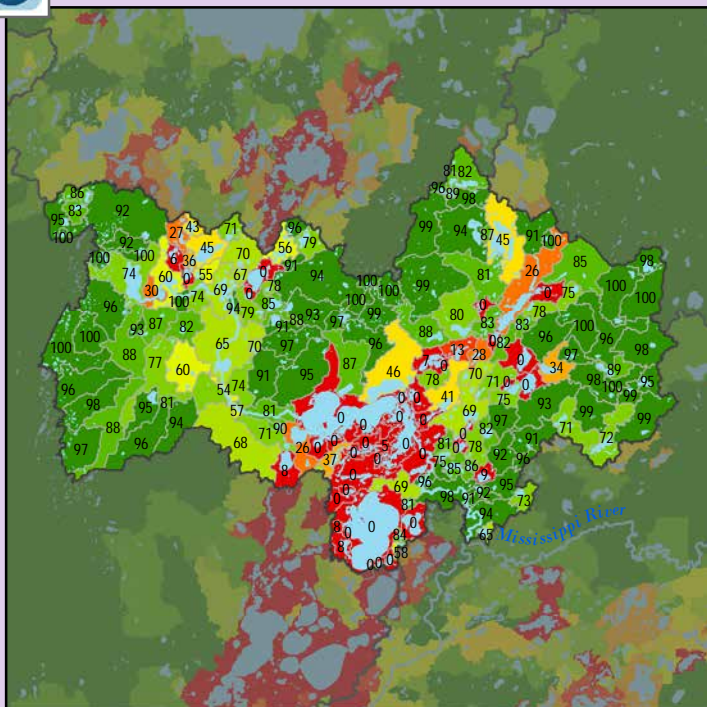


### Health Score Distributions:

Pine River  
Min: 100  
Max: 100  
Median: 100.0  
Mean: 100.0  
Standard Dev: 0.0

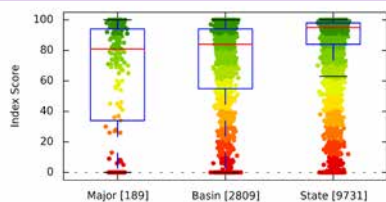


## Localized Pollution Sources - Septic Systems



### Health Score Distributions:

Pine River  
Min: 0  
Max: 100  
Median: 81.0  
Mean: 63.82  
Standard Dev: 37.13



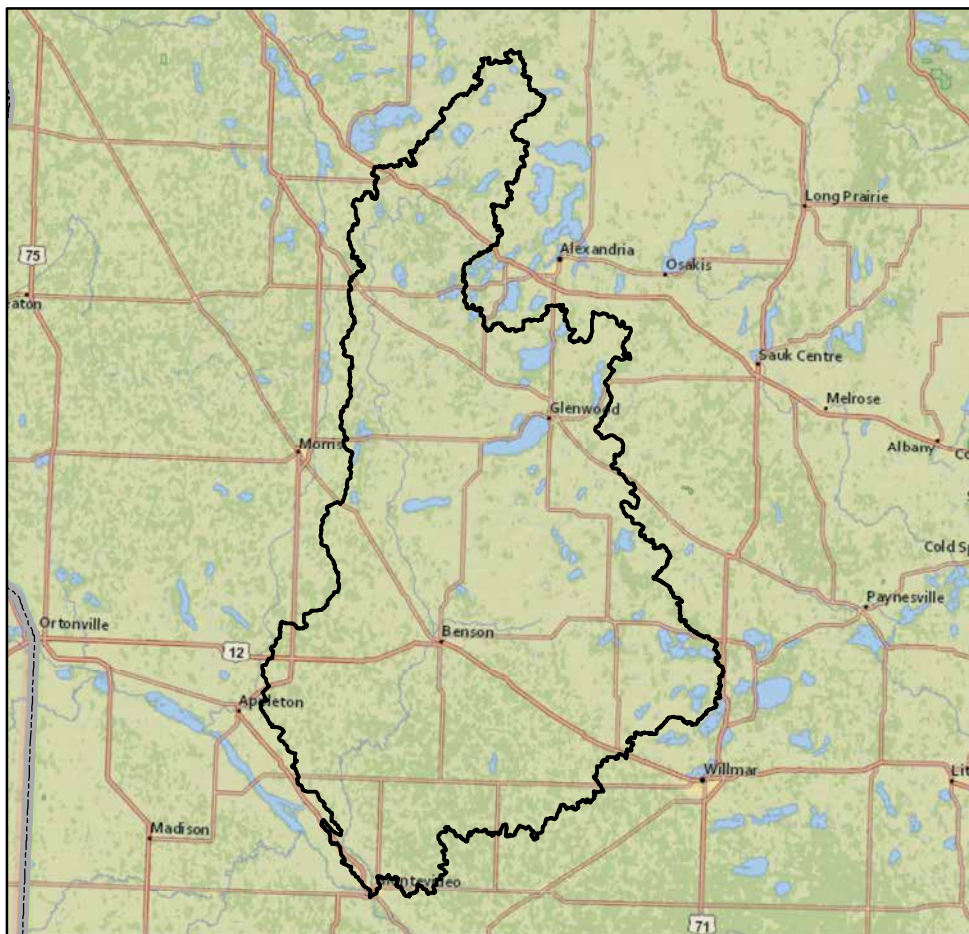
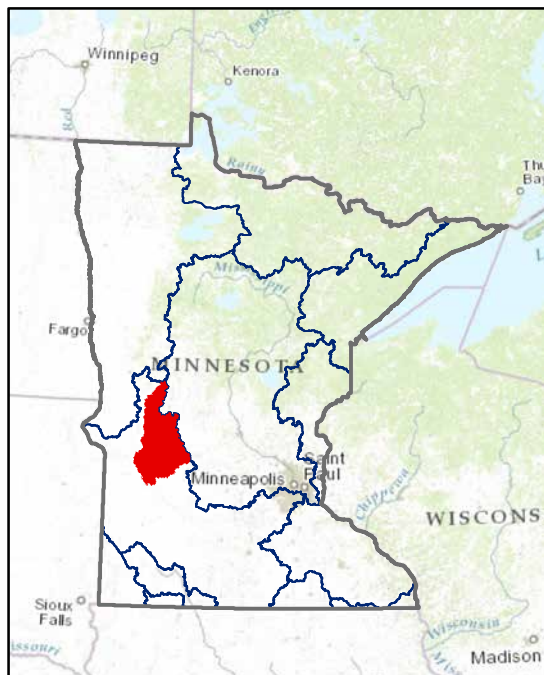


# Watershed Health Assessment Framework

*"Managing for System Health"*



## Watershed Report Card: Chippewa River



### People and Places:

#### Watershed Population:

2000 census - 33,653

2010 census - 32,465

#### Largest Cities - Population:

Montevideo - 5,383

Benson - 3,240

Glenwood - 2,564

Starbuck - 1,302

Hancock - 765

#### Counties - % of watershed:

Pope - 30 %

Swift - 28 %

Douglas - 14 %

Chippewa - 13 %

Kandiyohi - 7 %

Stevens - 4 %

Grant - 2 %

Otter Tail - 1 %

Stearns - 0 %

### Watershed Area:

#### Watershed size:

1,330,152 acres

2,078 square miles

#### Watershed Surface Area:

Percent Land - 94 %

Percent Water - 6 %

#### HUC8 ID:

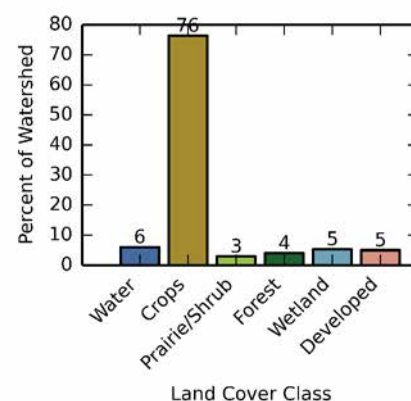
07020005

#### Basin Name:

Minnesota (0702)

### Land Use:

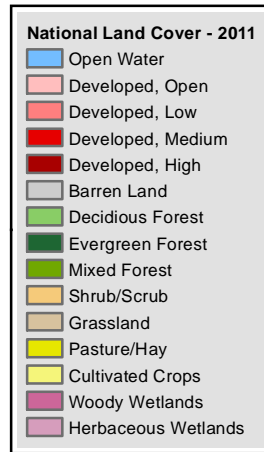
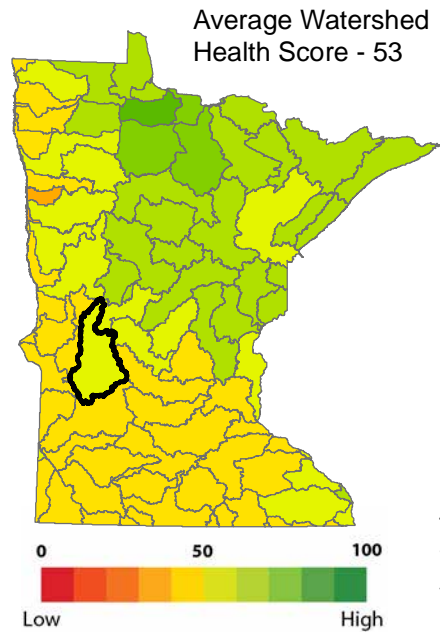
Percent of watershed area  
by land cover type:



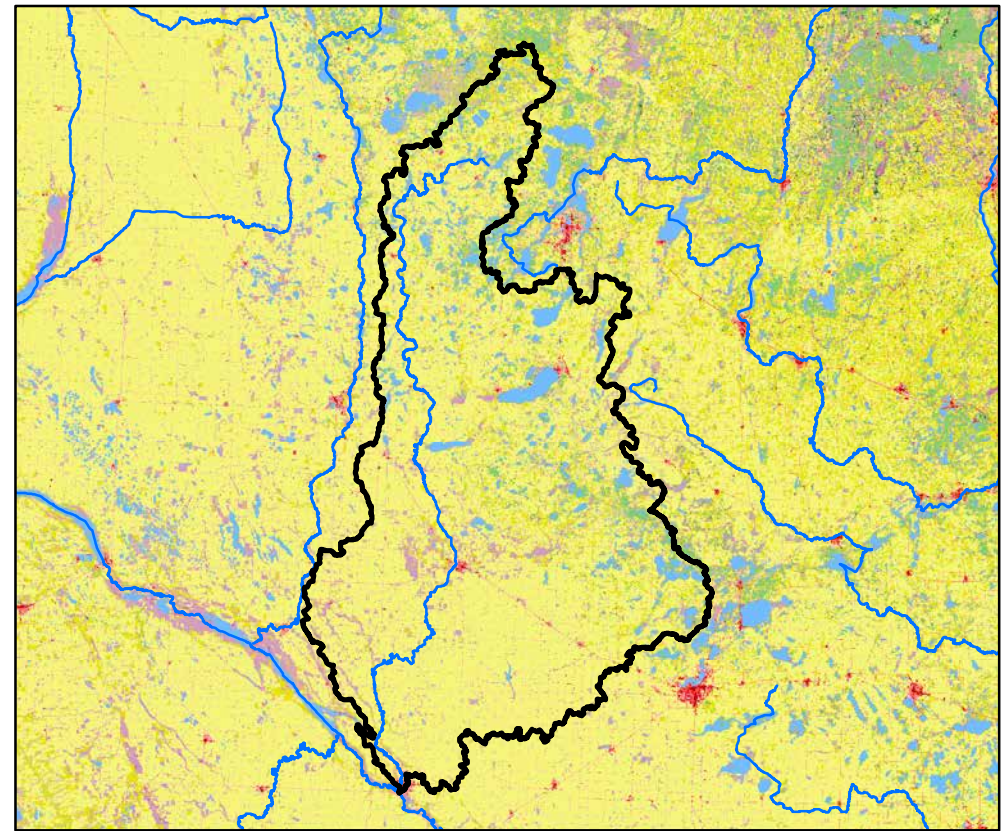


# Watershed Health Report - Major Watershed

## Chippewa 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*	22
Impervious Cover*	83
Water Withdrawal*	93
Flow Variability	66
Hydrologic Storage	69
<b>Sub-Scores</b>	
Altered Streams*	100
Surface Storage	39



### Geomorphology

Component Health Score  
(index average) 62

#### Index Scores

Soil Erosion Potential*	71
Groundwater Susceptibility	51
Climate Vulnerability	63



### Biology

Component Health Score  
(index average) 42

#### Index Scores

Terrestrial Habitat Quality*	4
Stream Species Quality*	69
Species Richness	63
At-Risk Species Richness	34



### Connectivity

Component Health Score  
(index average) 27

#### Index Scores

Terrestrial Habitat Connectivity	6
Aquatic Connectivity*	37
Riparian Connectivity*	61



### Water Quality

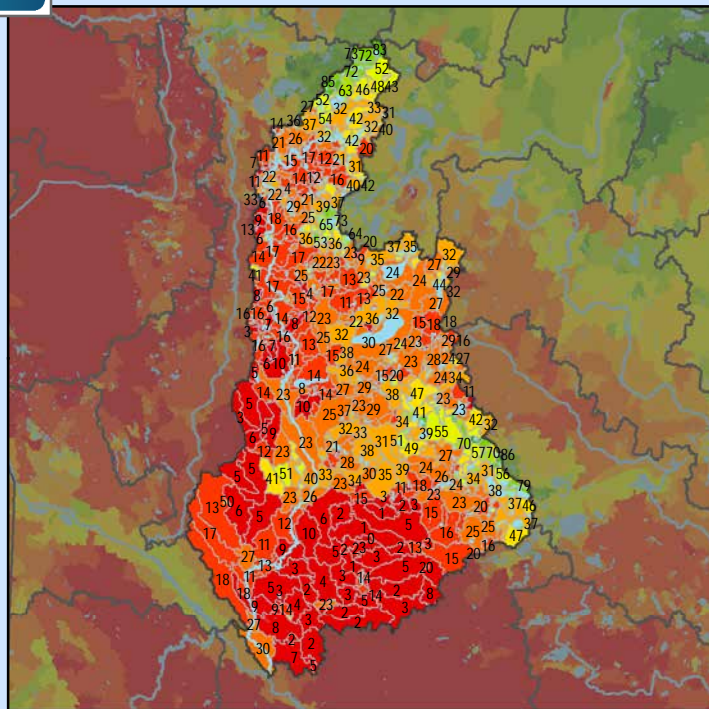
Component Health Score  
(index average) 64

#### Index Scores

Non-Point Pollution Sources	45
<b>Sub-Score</b>	
Phosphorus Risk*	19
Localized Pollution Sources*	89
Assessments	56

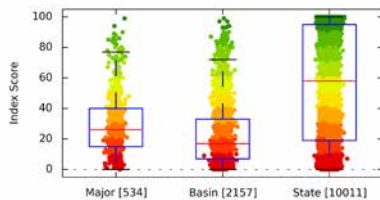


## Perennial Cover (2011)

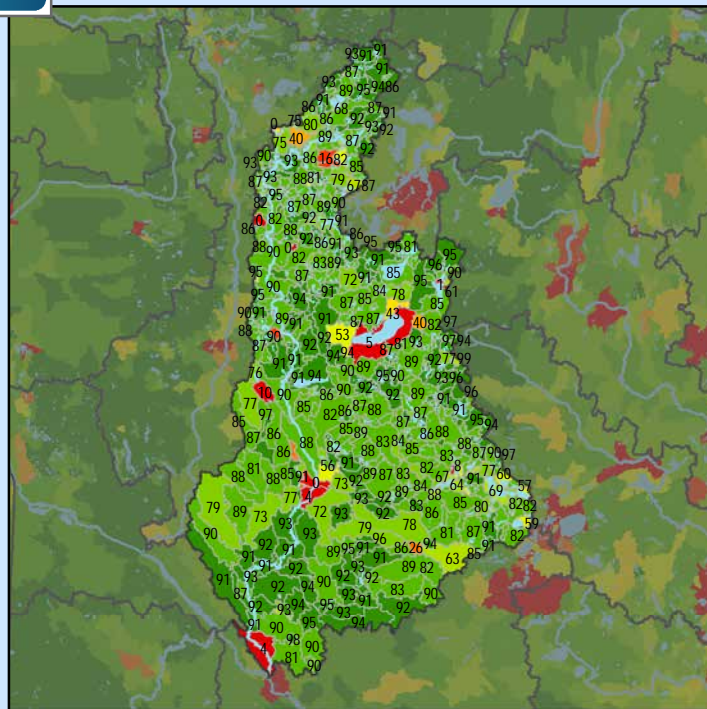


### Health Score Distributions:

Chippewa River  
 Min: 0  
 Max: 99  
 Median: 26.0  
 Mean: 29.95  
 Standard Dev: 20.18

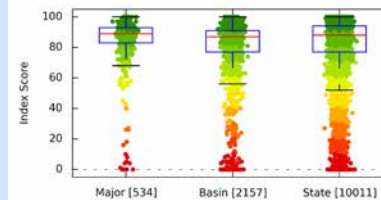


## Impervious Cover (2011)

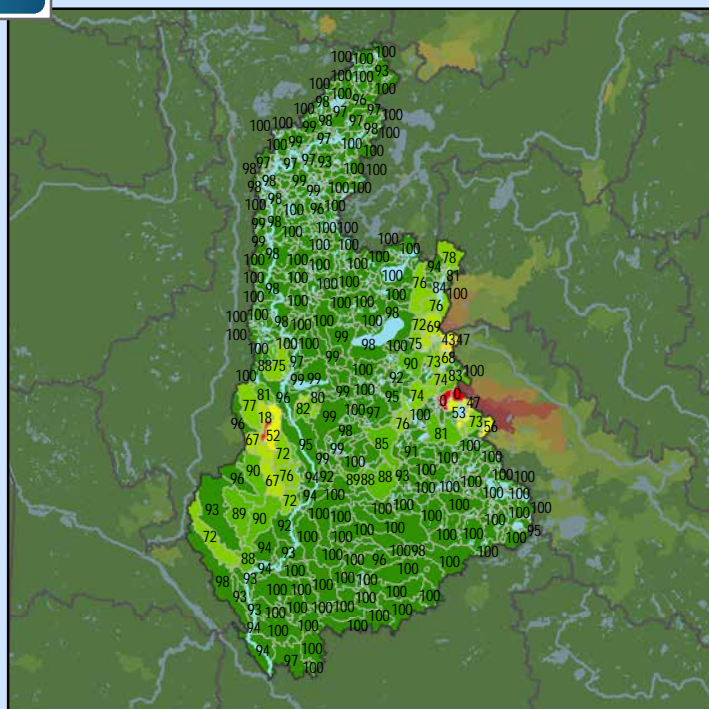


### Health Score Distributions:

Chippewa River  
 Min: 0  
 Max: 100  
 Median: 89.0  
 Mean: 84.78  
 Standard Dev: 15.88

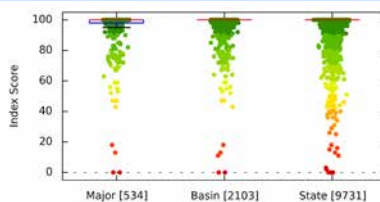


## Water Withdrawal Index

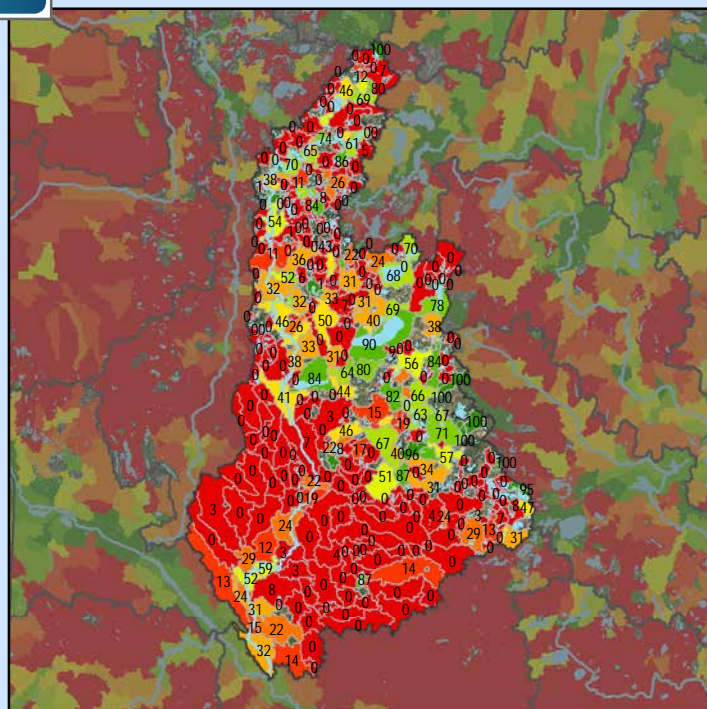


### Health Score Distributions:

Chippewa River  
 Min: 0  
 Max: 100  
 Median: 100.0  
 Mean: 95.75  
 Standard Dev: 11.86

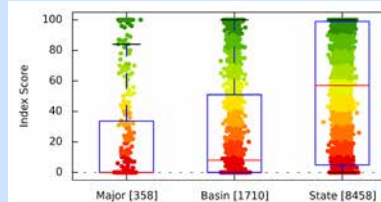


## Altered Streams



### Health Score Distributions:

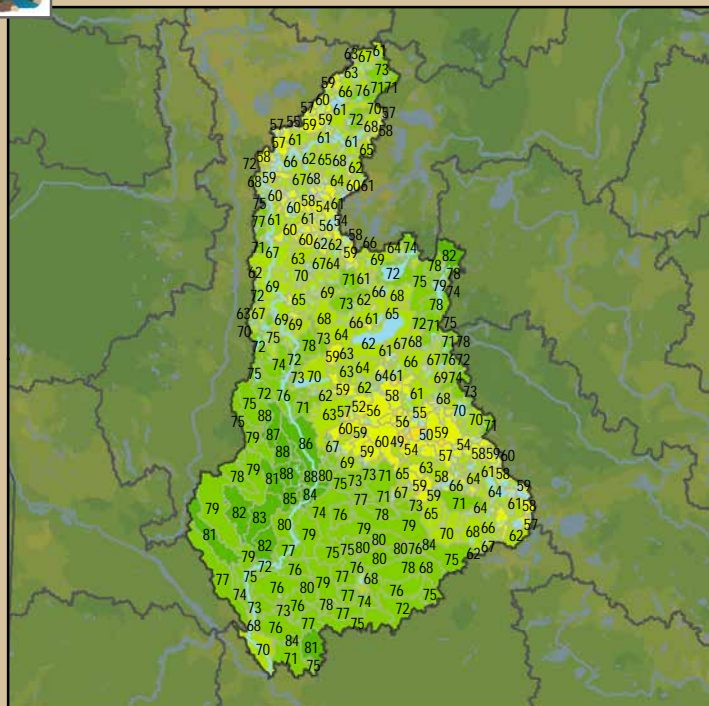
Chippewa River  
 Min: 0  
 Max: 100  
 Median: 0.0  
 Mean: 21.15  
 Standard Dev: 32.33





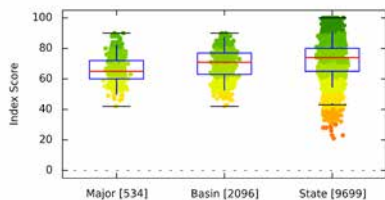


## Soil Erosion Potential

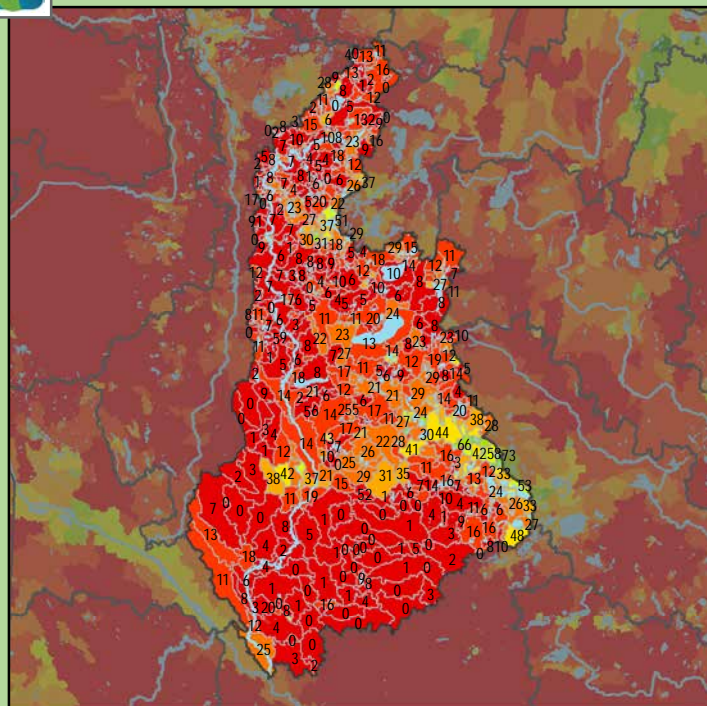


### Health Score Distributions:

Chippewa River  
 Min: 42  
 Max: 90  
 Median: 65.0  
 Mean: 66.02  
 Standard Dev: 8.44

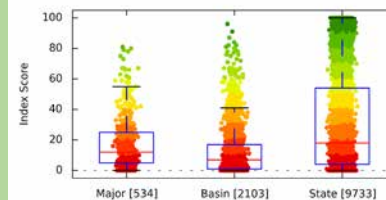


## Terrestrial Habitat Quality

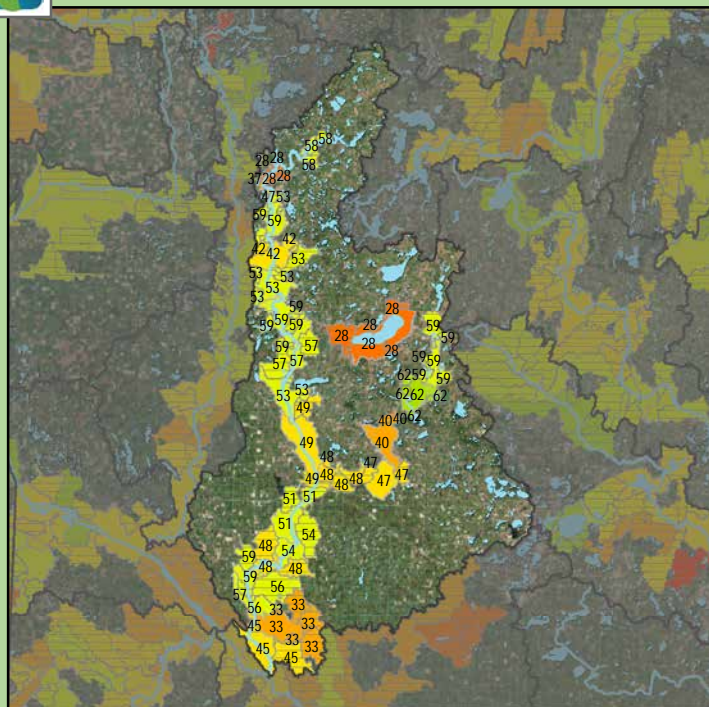


### Health Score Distributions:

Chippewa River  
 Min: 0  
 Max: 81  
 Median: 12.0  
 Mean: 17.09  
 Standard Dev: 16.61

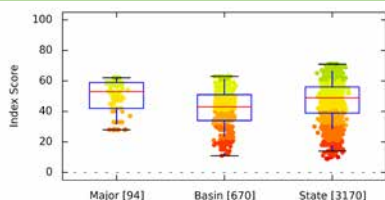


## Stream Species Quality - Mussel Score

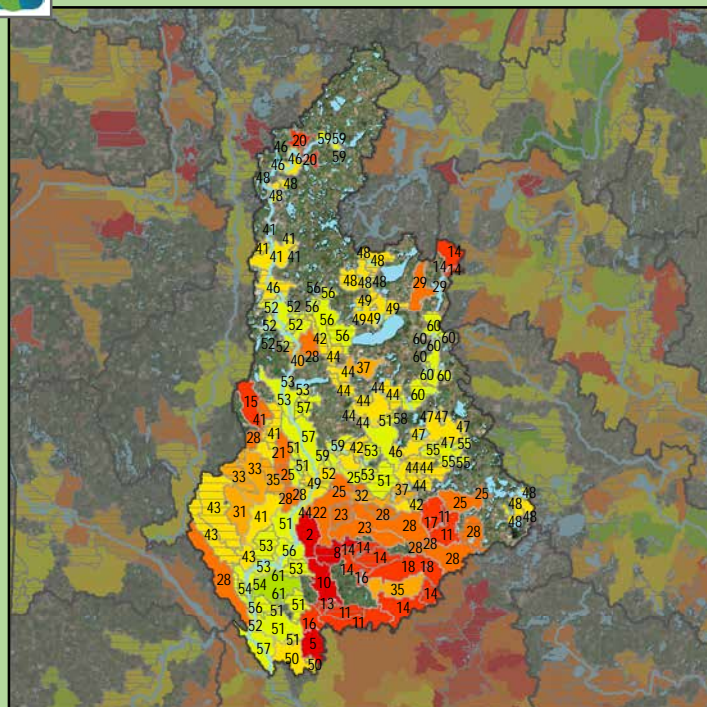


### Health Score Distributions:

Chippewa River  
 Min: 28  
 Max: 62  
 Median: 53.0  
 Mean: 49.18  
 Standard Dev: 10.66

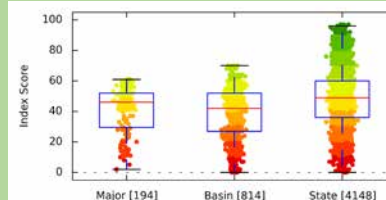


## Stream Species Quality - Aquatic Invertebrate IBI



### Health Score Distributions:

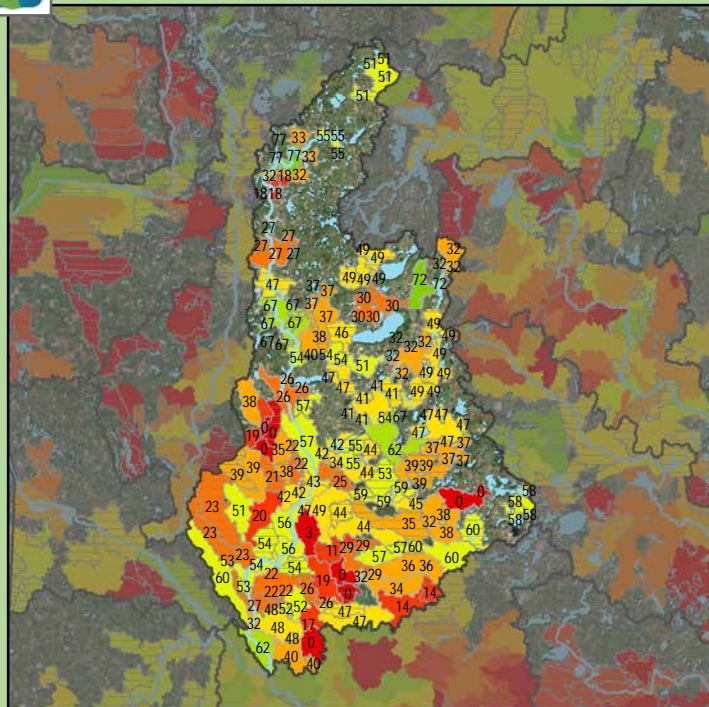
Chippewa River  
 Min: 2  
 Max: 61  
 Median: 46.0  
 Mean: 41.52  
 Standard Dev: 14.66





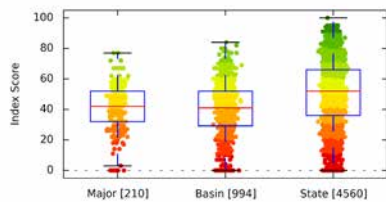


## Stream Species Quality - Fish IBI

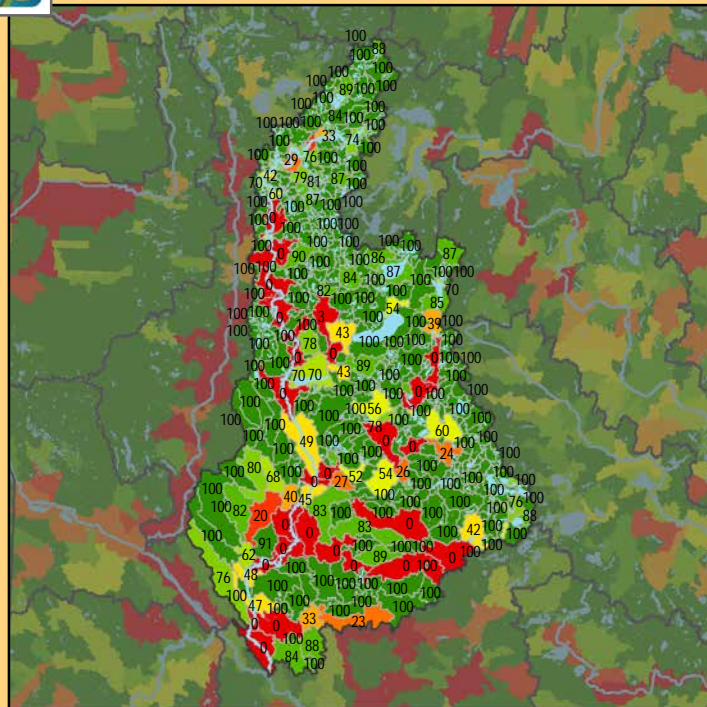


### Health Score Distributions:

Chippewa River  
Min: 0  
Max: 77  
Median: 42.0  
Mean: 40.9  
Standard Dev: 16.09

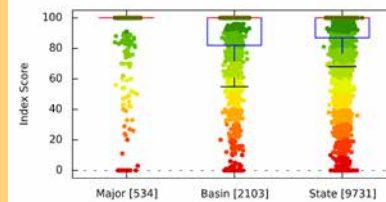


## Aquatic Connectivity

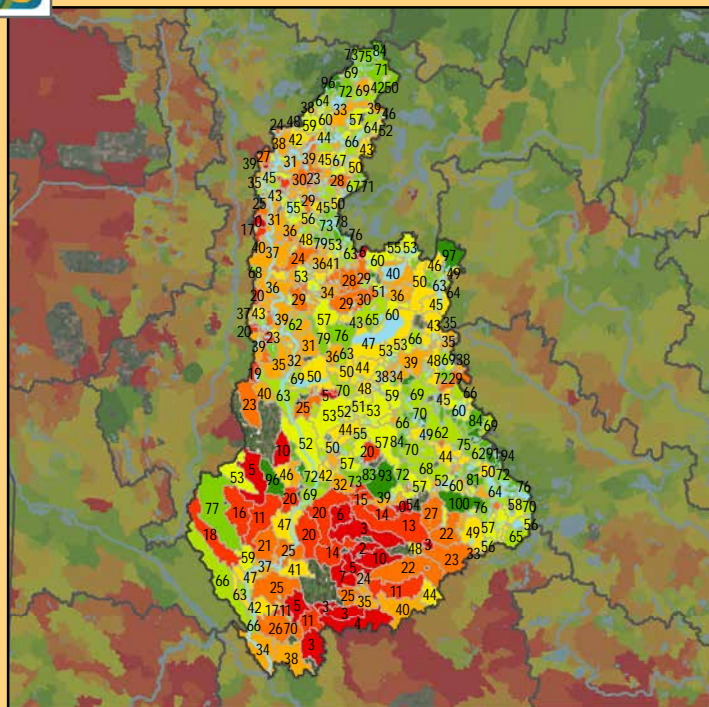


### Health Score Distributions:

Chippewa River  
Min: 0  
Max: 100  
Median: 100.0  
Mean: 90.37  
Standard Dev: 24.86

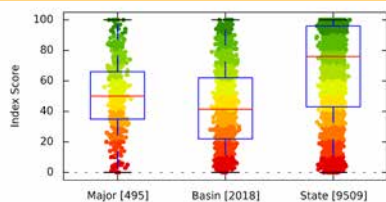


## Riparian Connectivity

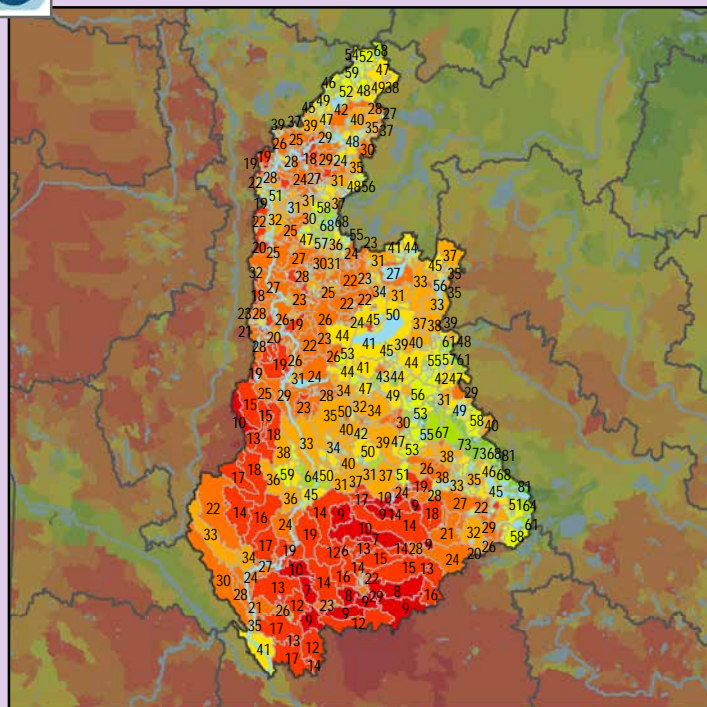


### Health Score Distributions:

Chippewa River  
Min: 0  
Max: 100  
Median: 50.0  
Mean: 49.97  
Standard Dev: 22.32

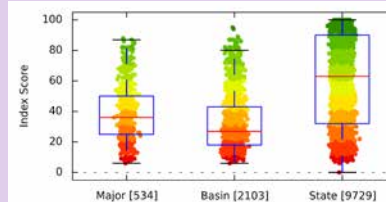


## Non-Point Source - Phosphorus Risk



### Health Score Distributions:

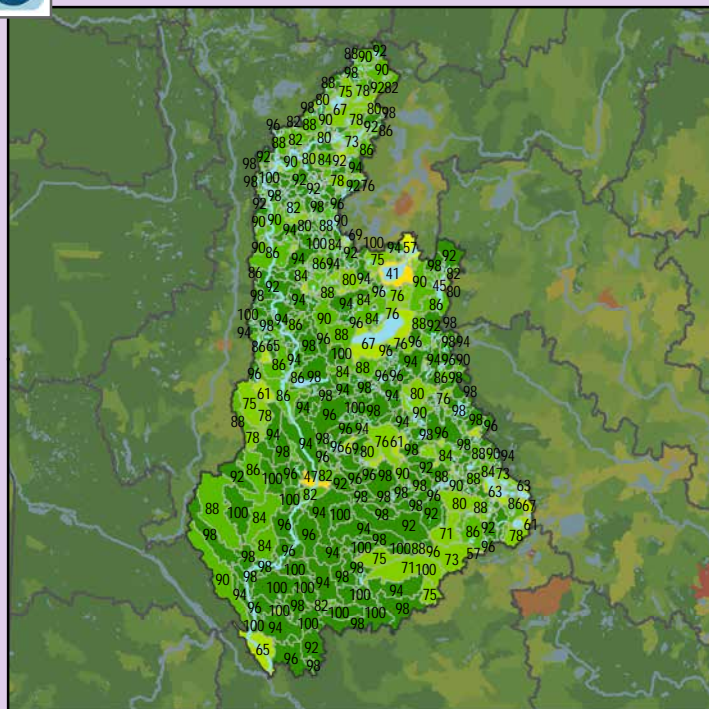
Chippewa River  
Min: 6  
Max: 88  
Median: 36.0  
Mean: 38.31  
Standard Dev: 17.94







## Localized Pollution Sources



### Health Score Distributions:

Chippewa River

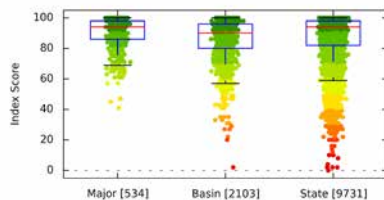
Min: 41

Max: 100

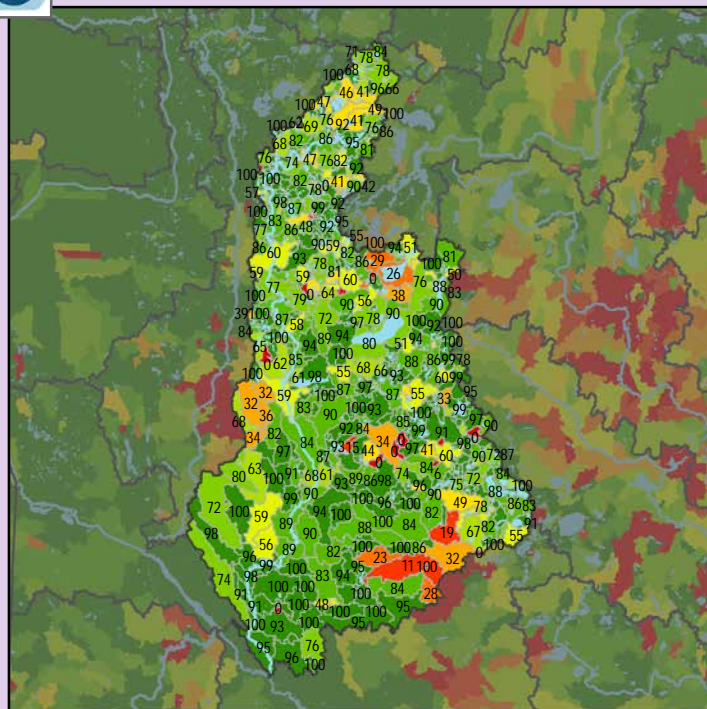
Median: 94.0

Mean: 90.41

Standard Dev: 10.65



## Localized Pollution Sources - Animal Units



### Health Score Distributions:

Chippewa River

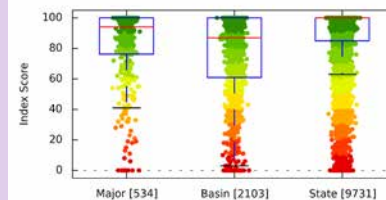
Min: 0

Max: 100

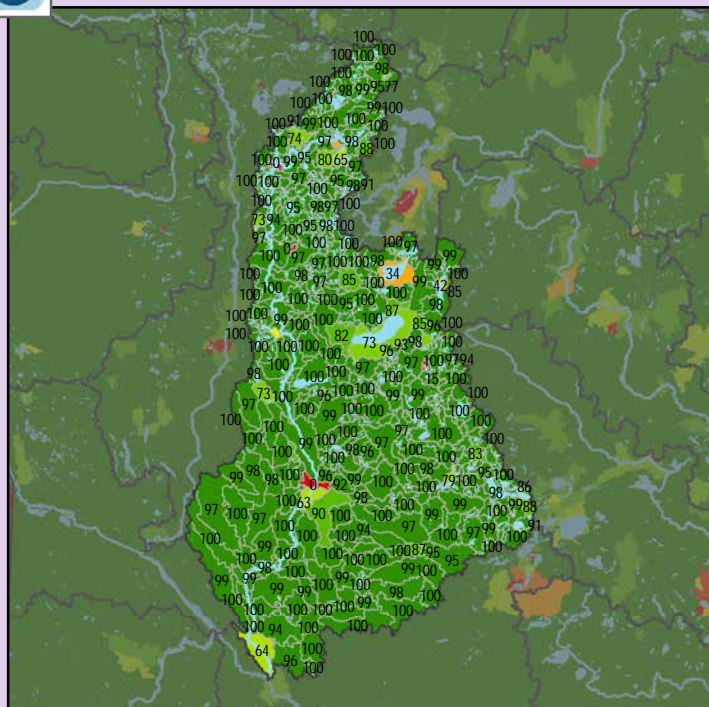
Median: 94.0

Mean: 83.4

Standard Dev: 23.56



## Localized Pollution Sources - Potential Contaminants



### Health Score Distributions:

Chippewa River

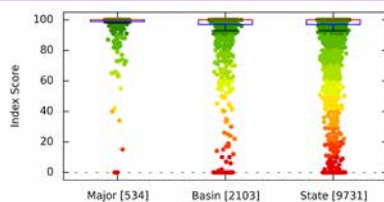
Min: 0

Max: 100

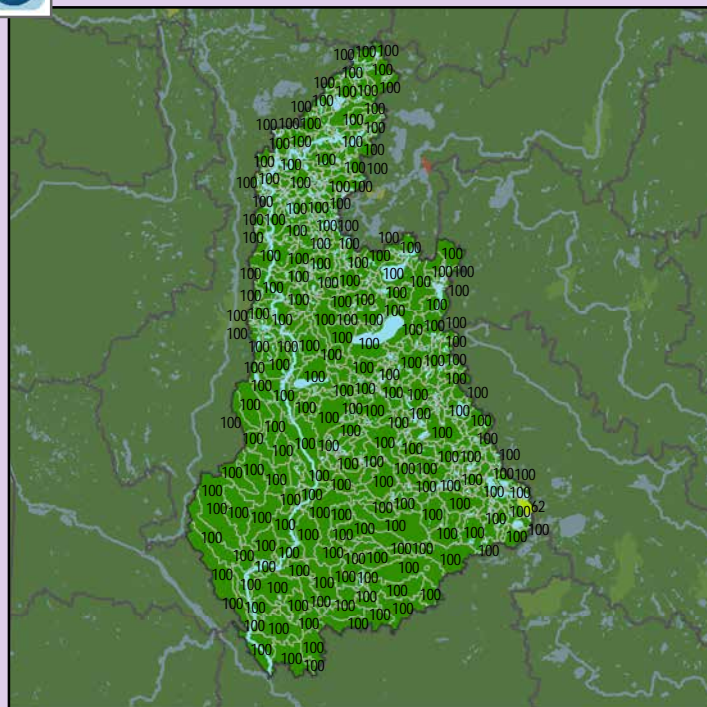
Median: 100.0

Mean: 96.9

Standard Dev: 11.59



## Localized Pollution Sources - Superfund Sites



### Health Score Distributions:

Chippewa River

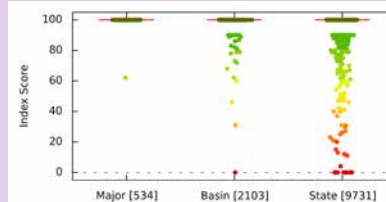
Min: 62

Max: 100

Median: 100.0

Mean: 99.93

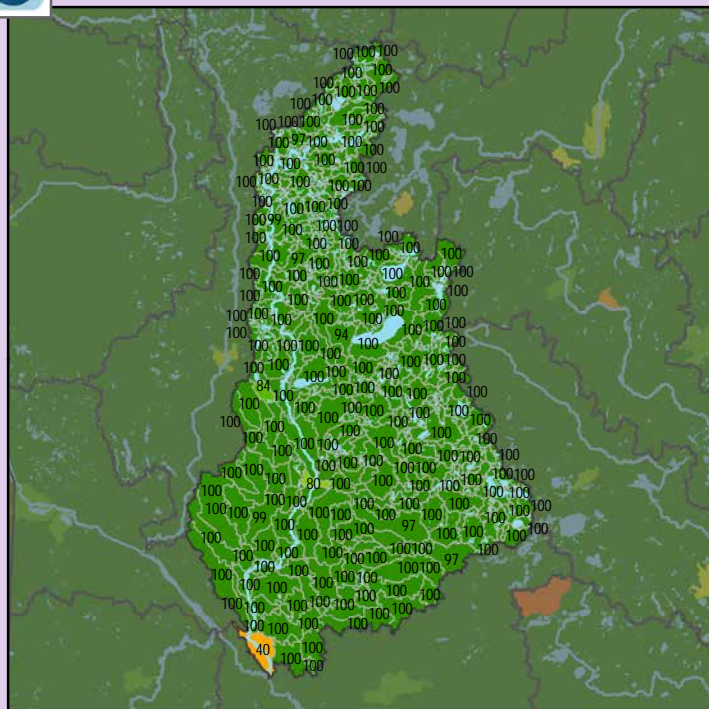
Standard Dev: 1.64





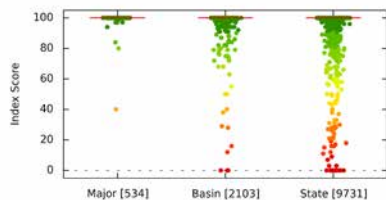


## Localized Pollution Sources - Wastewater Treatment

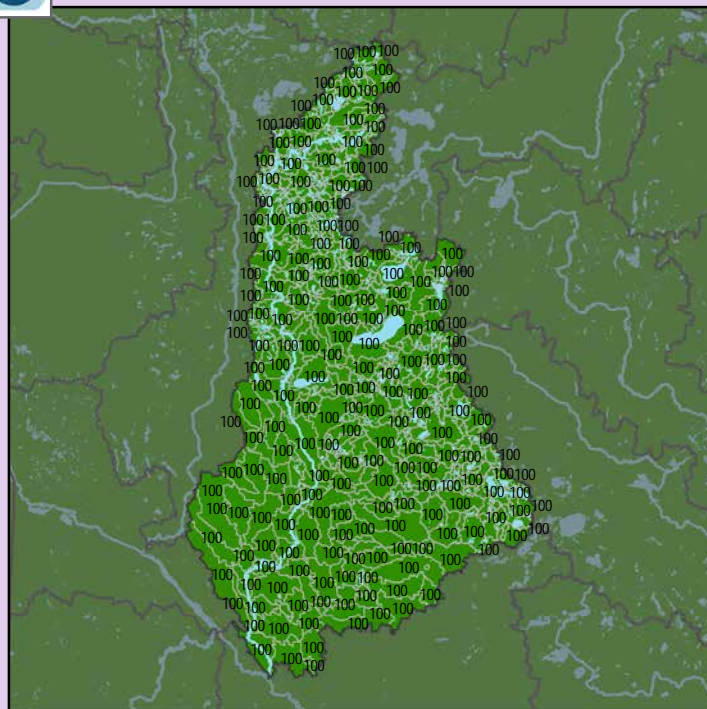


### Health Score Distributions:

Chippewa River  
Min: 40  
Max: 100  
Median: 100.0  
Mean: 99.78  
Standard Dev: 2.84

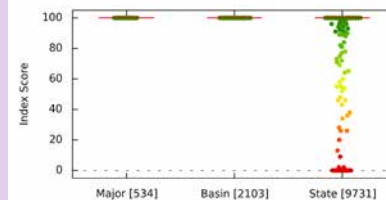


## Localized Pollution Sources - Open Pit Mines

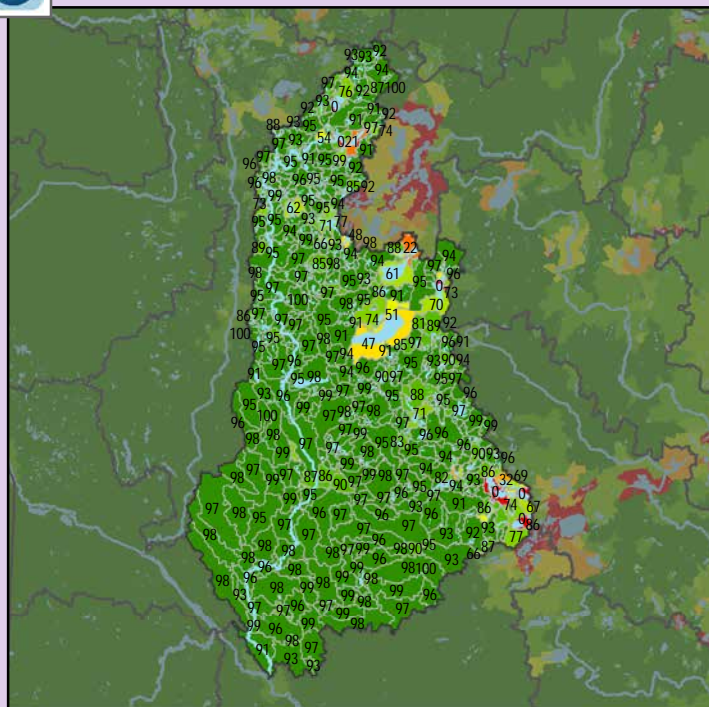


### Health Score Distributions:

Chippewa River  
Min: 100  
Max: 100  
Median: 100.0  
Mean: 100.0  
Standard Dev: 0.0

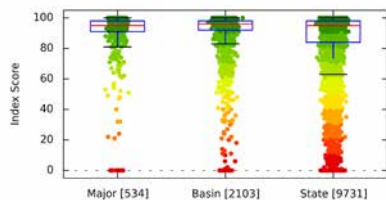


## Localized Pollution Sources - Septic Systems



### Health Score Distributions:

Chippewa River  
Min: 0  
Max: 100  
Median: 95.0  
Mean: 90.38  
Standard Dev: 16.28







# Watershed Health Assessment Framework

*"Managing for System Health"*



## Watershed Report Card: Le Sueur River



### People and Places:

#### Watershed Population:

2000 census - 33,099

2010 census - 34,412

#### Largest Cities - Population:

Eagle Lake - 2,422

Wells - 2,343

Janesville - 2,256

Mapleton - 1,756

New Richland - 1,203

#### Counties - % of watershed:

Blue Earth - 33 %

Waseca - 32 %

Faribault - 22 %

Freeborn - 10 %

Steele - 3 %

Le Sueur - 0 %

### Watershed Area:

#### Watershed size:

711,115 acres

1,111 square miles

#### Watershed Surface Area:

Percent Land - 98 %

Percent Water - 2 %

#### HUC8 ID:

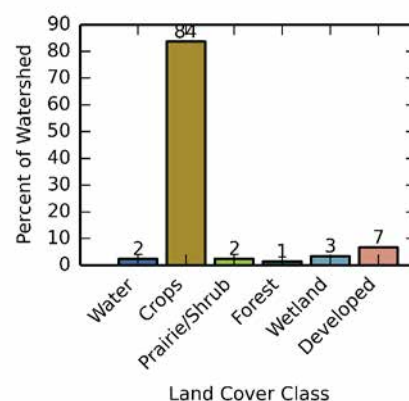
07020011

#### Basin Name:

Minnesota (0702)

### Land Use:

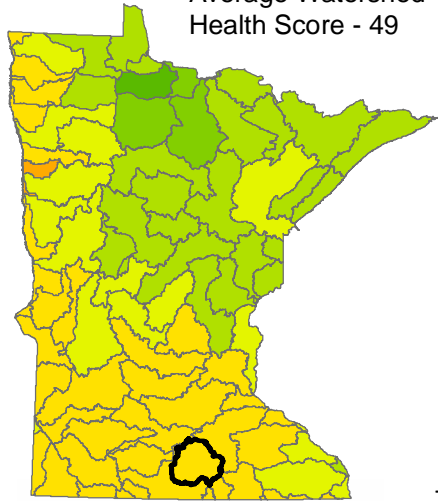
Percent of watershed area  
by land cover type:



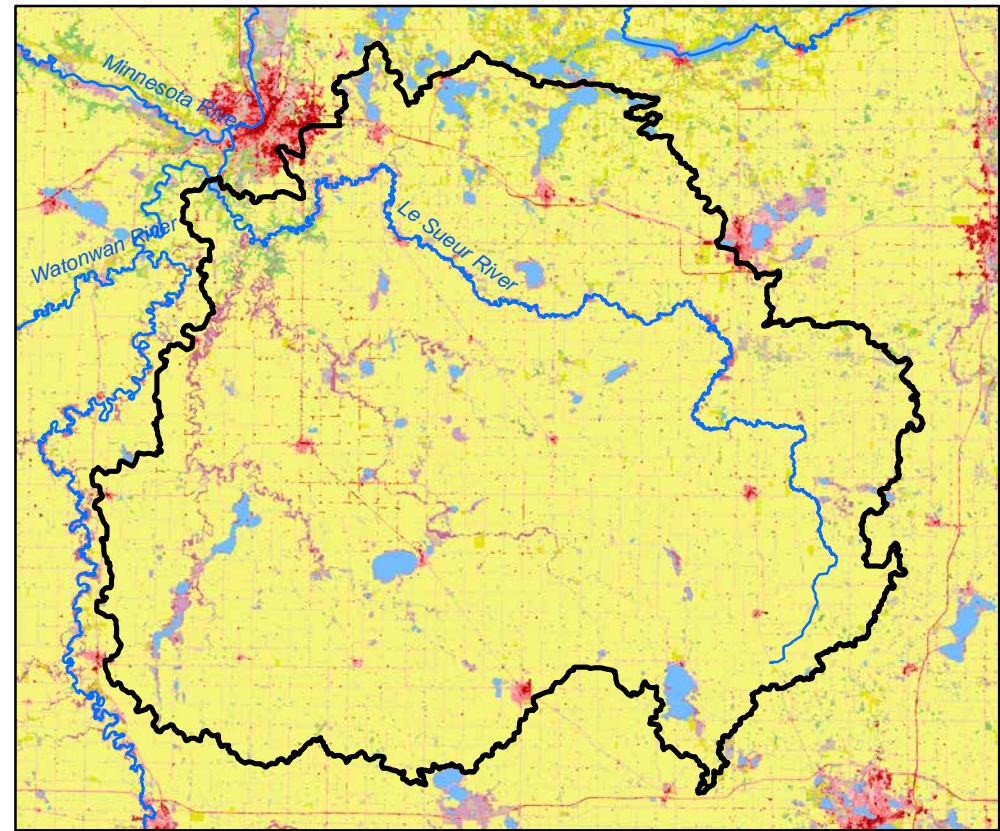
# Watershed Health Report - Major Watershed

## Le Sueur River

Average Watershed Health Score - 49



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) 60

#### Index Scores

Perennial Cover*	9
Impervious Cover*	71
Water Withdrawal*	99
Flow Variability	65
Hydrologic Storage	35
<b>Sub-Scores</b>	
Altered Streams*	53
Surface Storage	18



### Geomorphology

Component Health Score (index average) 74

#### Index Scores

Soil Erosion Potential*	76
Groundwater Susceptibility	55
Climate Vulnerability	92



### Biology

Component Health Score (index average) 38

#### Index Scores

Terrestrial Habitat Quality*	1
Stream Species Quality*	76
Species Richness	56
At-Risk Species Richness	18



### Connectivity

Component Health Score (index average) 19

#### Index Scores

Terrestrial Habitat Connectivity	2
Aquatic Connectivity*	45
Riparian Connectivity*	44



### Water Quality

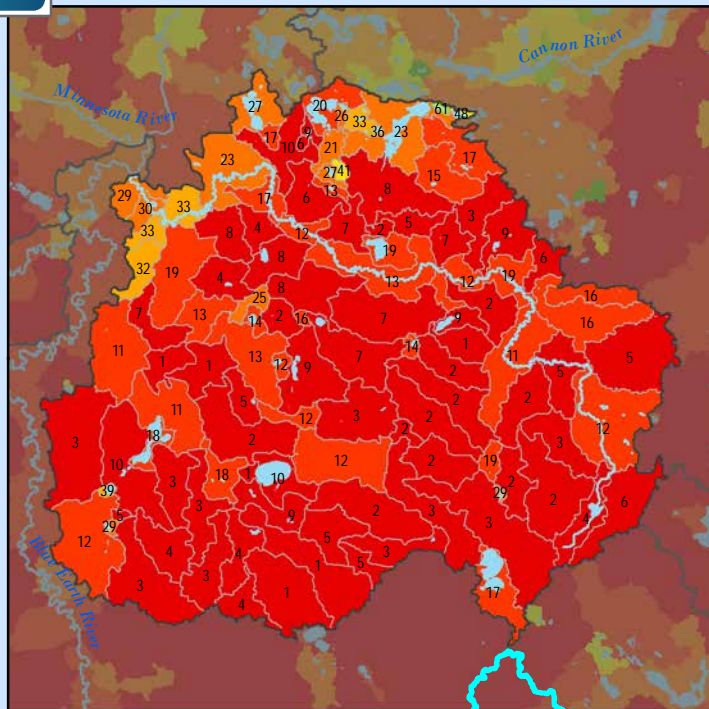
Component Health Score (index average) 52

#### Index Scores

Non-Point Pollution Sources	31
<b>Sub-Score</b>	
Phosphorus Risk*	5
Localized Pollution Sources*	81
Assessments	39



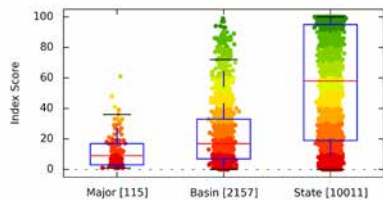
## Perennial Cover (2011)



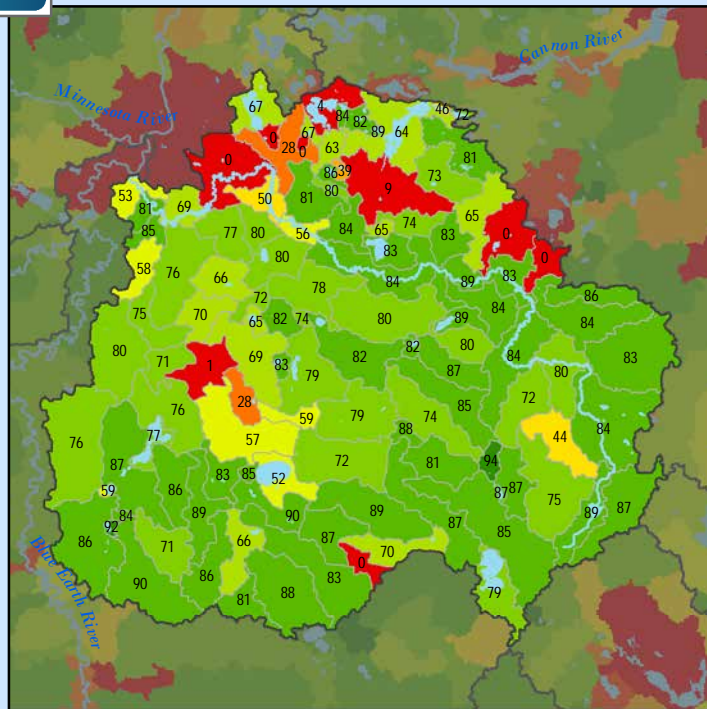
### Health Score Distributions:

Le Sueur River

Min: 1  
Max: 61  
Median: 9.0  
Mean: 12.13  
Standard Dev: 11.2



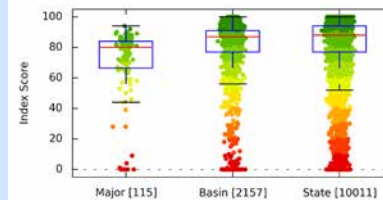
## Impervious Cover (2011)



### Health Score Distributions:

Le Sueur River

Min: 0  
Max: 94  
Median: 80.0  
Mean: 70.28  
Standard Dev: 23.61



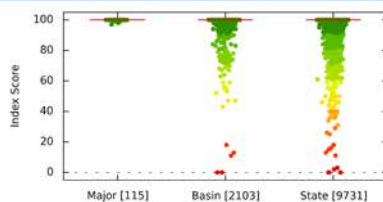
## Water Withdrawal Index



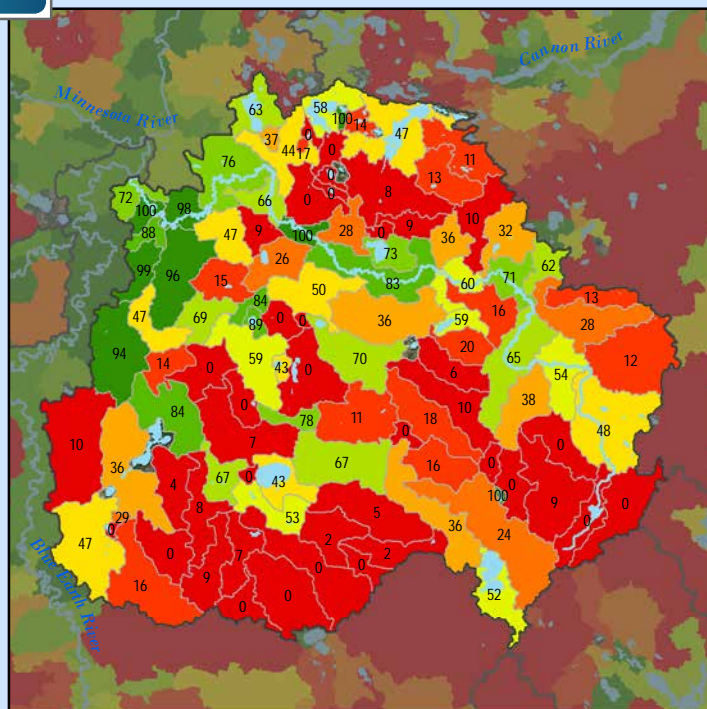
### Health Score Distributions:

Le Sueur River

Min: 97  
Max: 100  
Median: 100.0  
Mean: 99.93  
Standard Dev: 0.37



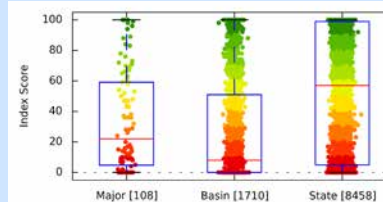
## Altered Streams



### Health Score Distributions:

Le Sueur River

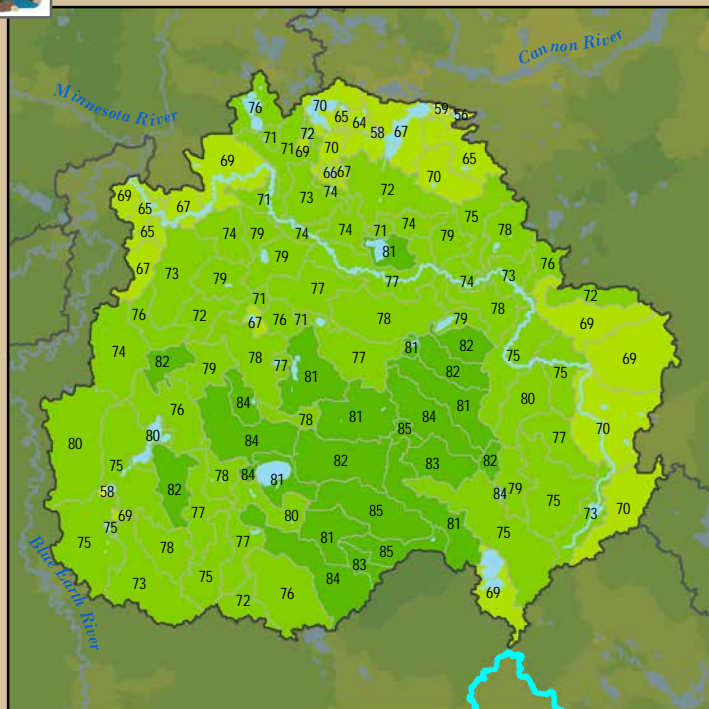
Min: 0  
Max: 100  
Median: 22.0  
Mean: 33.63  
Standard Dev: 32.32







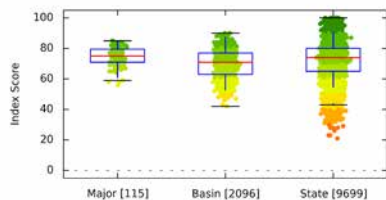
## Soil Erosion Potential



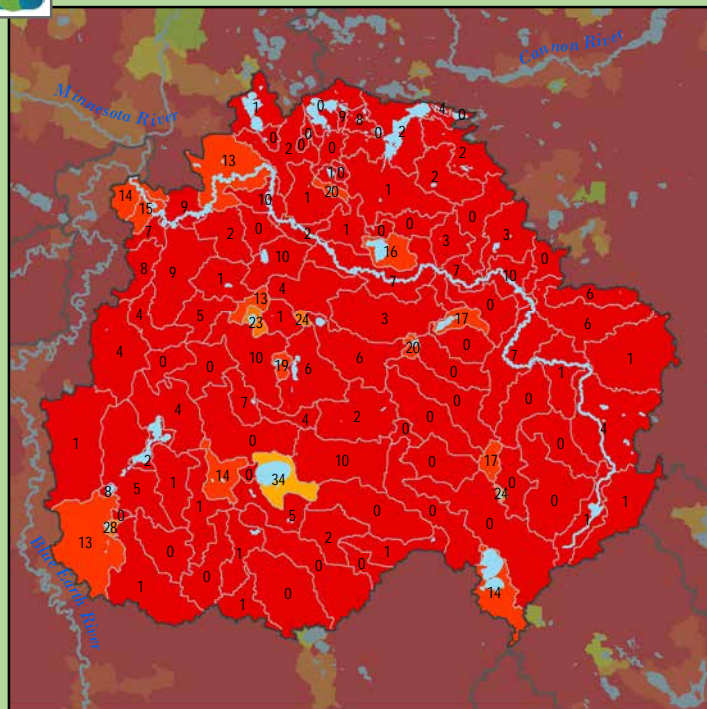
### Health Score Distributions:

Le Sueur River

Min: 56  
Max: 85  
Median: 75.0  
Mean: 74.89  
Standard Dev: 6.23



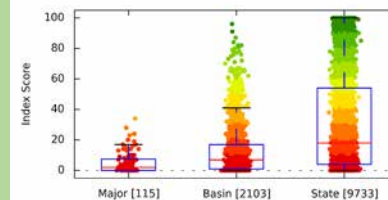
## Terrestrial Habitat Quality



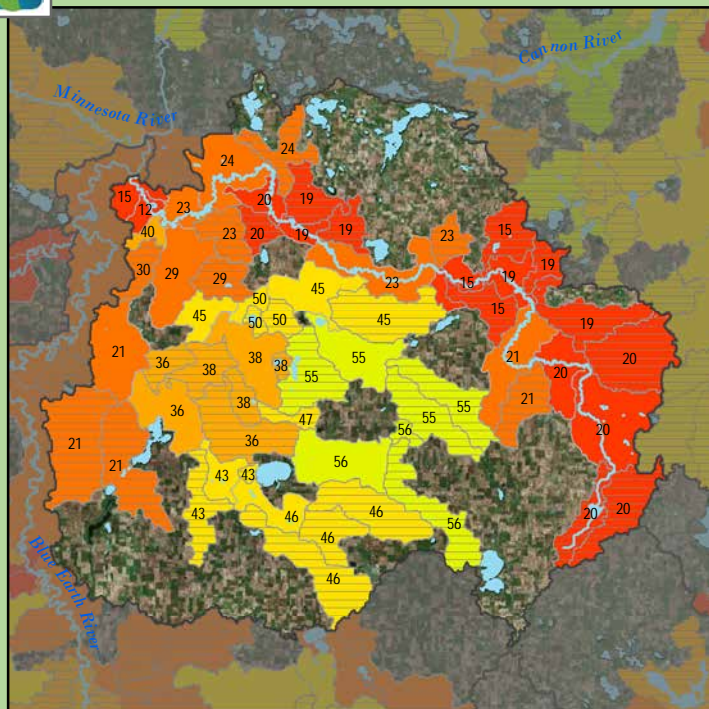
### Health Score Distributions:

Le Sueur River

Min: 0  
Max: 34  
Median: 2.0  
Mean: 5.1  
Standard Dev: 6.94



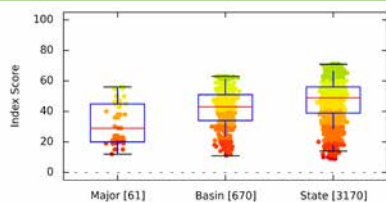
## Stream Species Quality - Mussel Score



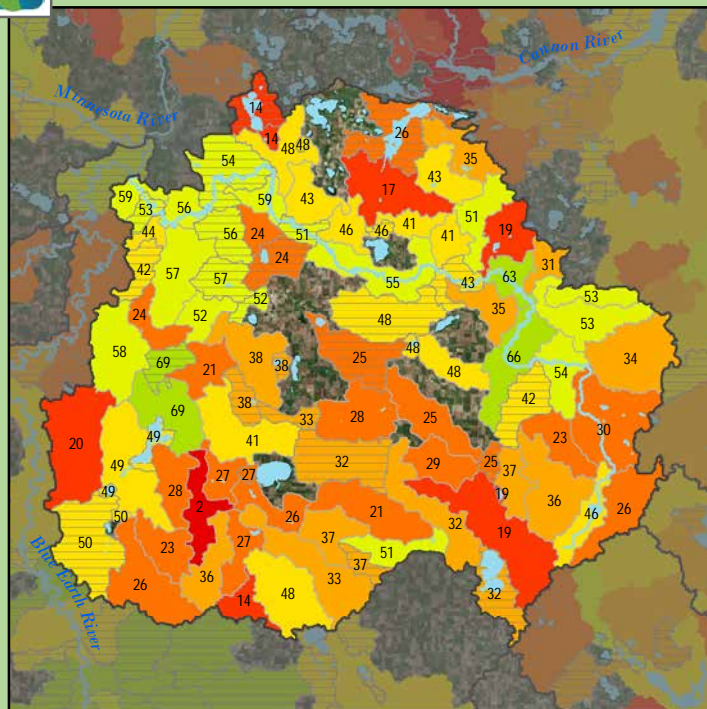
### Health Score Distributions:

Le Sueur River

Min: 12  
Max: 56  
Median: 29.0  
Mean: 32.66  
Standard Dev: 13.78



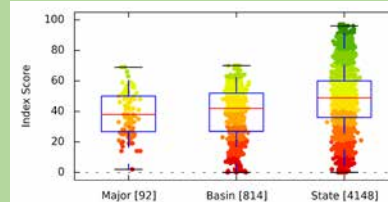
## Stream Species Quality - Aquatic Invertebrate IBI



### Health Score Distributions:

Le Sueur River

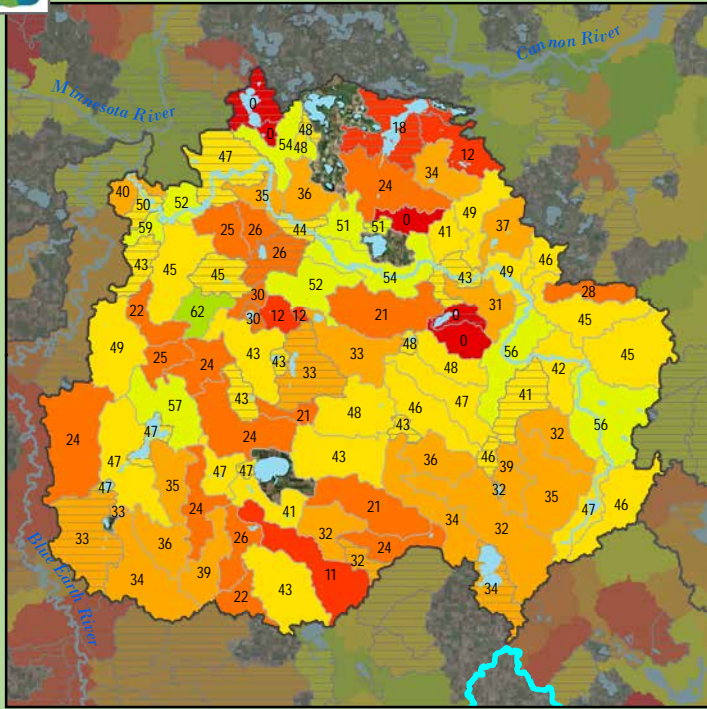
Min: 2  
Max: 69  
Median: 38.0  
Mean: 38.78  
Standard Dev: 14.16







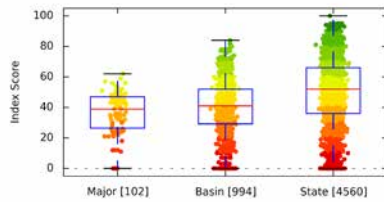
## Stream Species Quality - Fish IBI



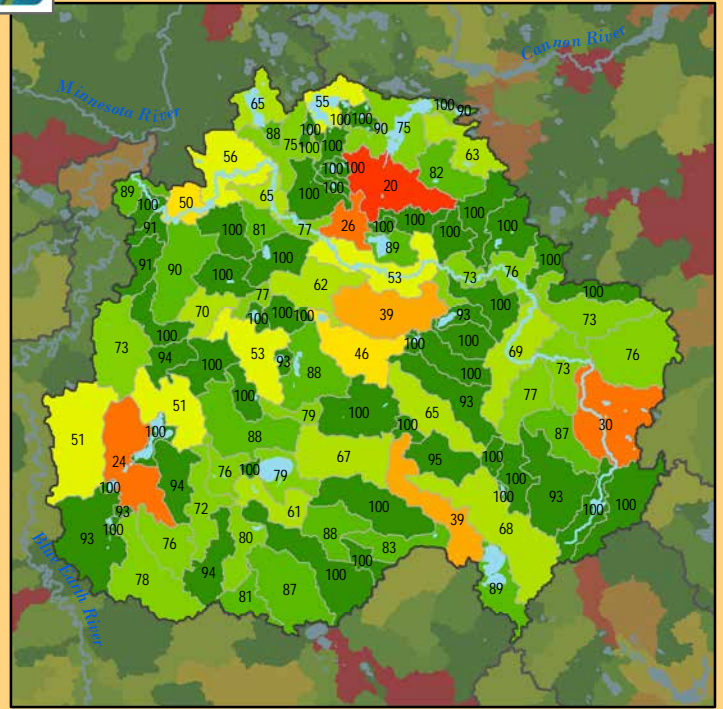
### Health Score Distributions:

Le Sueur River

Min: 0  
Max: 62  
Median: 39.0  
Mean: 36.21  
Standard Dev: 13.9



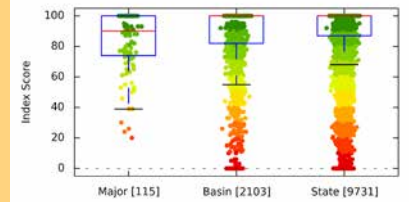
## Aquatic Connectivity



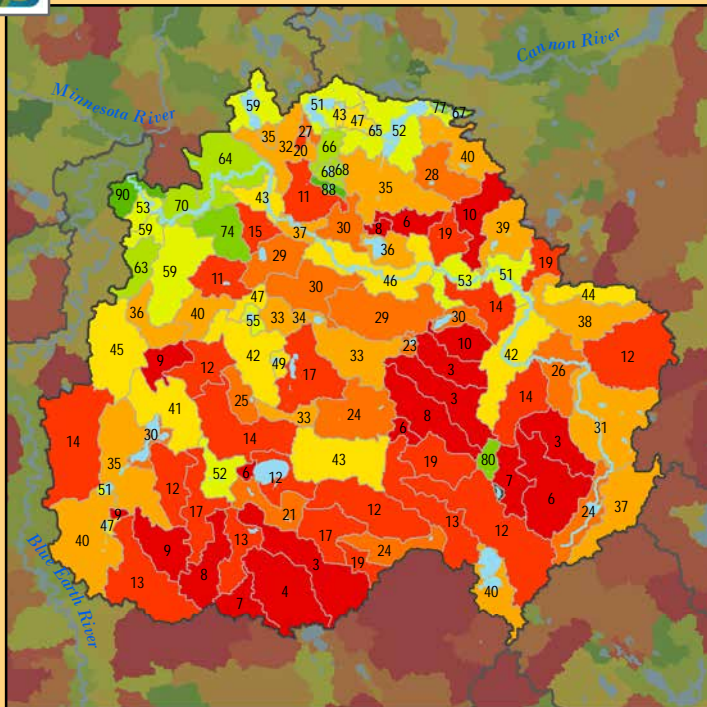
### Health Score Distributions:

Le Sueur River

Min: 20  
Max: 100  
Median: 90.0  
Mean: 83.65  
Standard Dev: 19.55



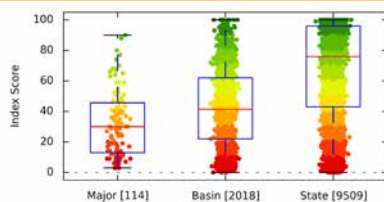
## Riparian Connectivity



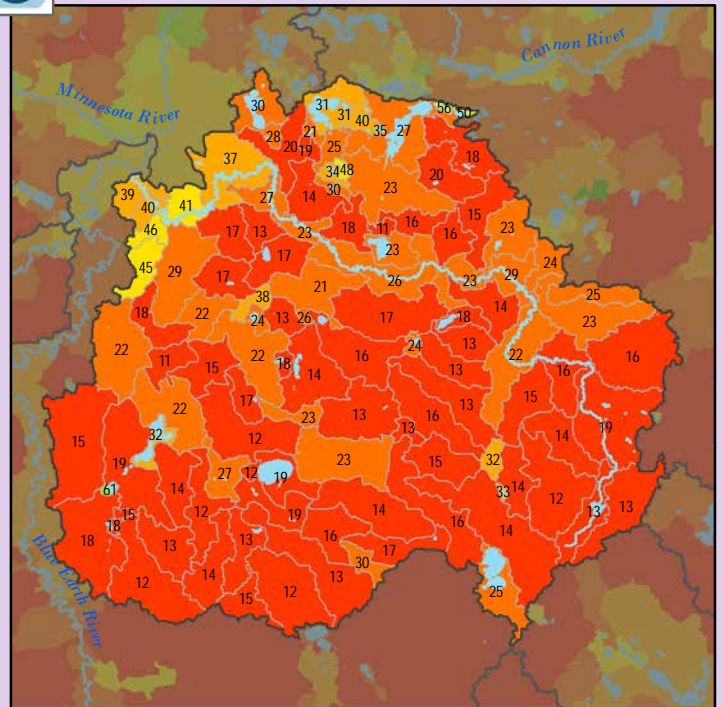
### Health Score Distributions:

Le Sueur River

Min: 3  
Max: 90  
Median: 30.0  
Mean: 32.23  
Standard Dev: 21.05



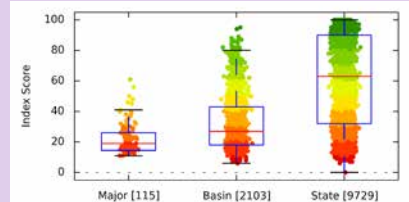
## Non-Point Source - Phosphorus Risk



### Health Score Distributions:

Le Sueur River

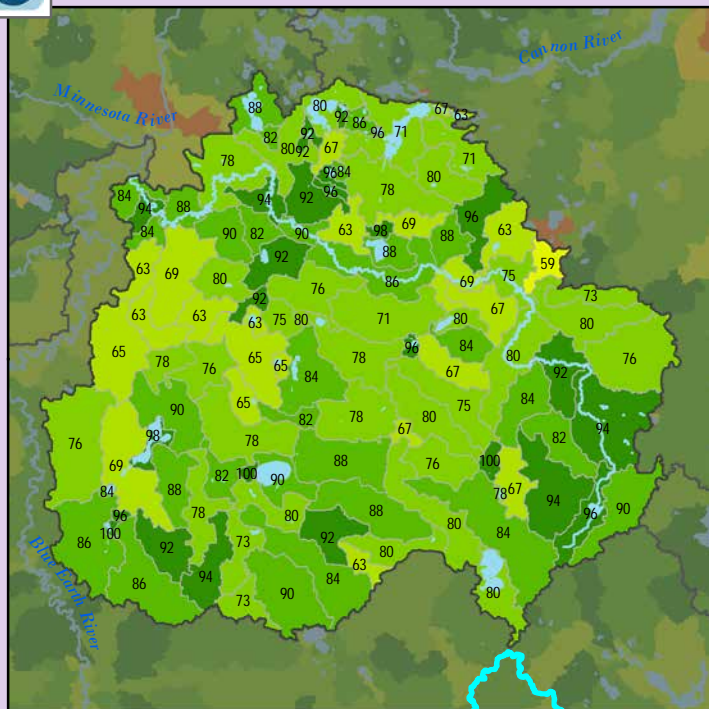
Min: 11  
Max: 61  
Median: 19.0  
Mean: 22.03  
Standard Dev: 10.06





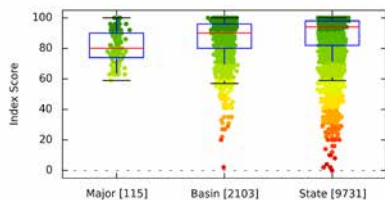


## Localized Pollution Sources

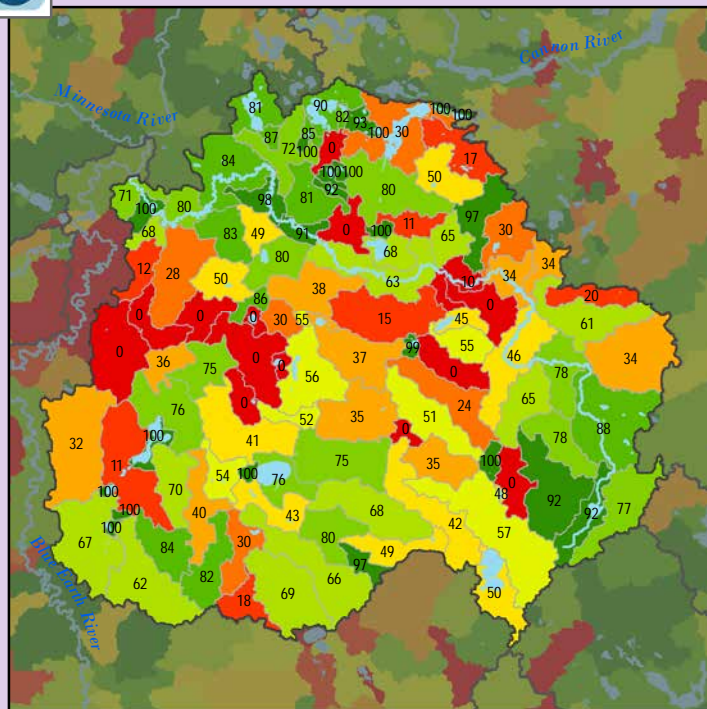


### Health Score Distributions:

Le Sueur River  
Min: 59  
Max: 100  
Median: 80.0  
Mean: 81.17  
Standard Dev: 10.57

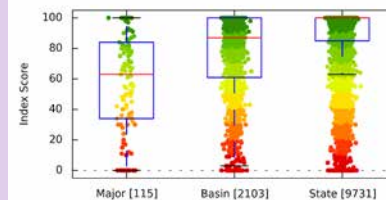


## Localized Pollution Sources - Animal Units

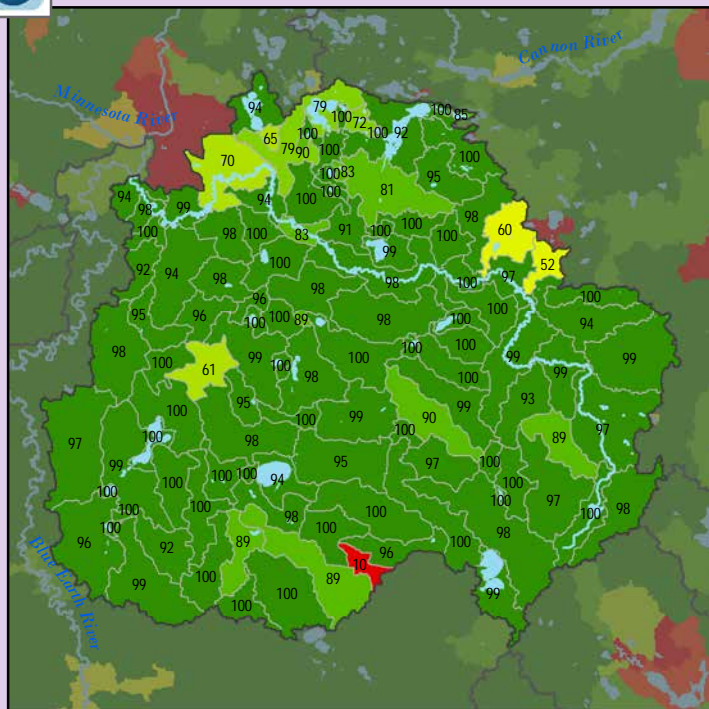


### Health Score Distributions:

Le Sueur River  
Min: 0  
Max: 100  
Median: 63.0  
Mean: 57.29  
Standard Dev: 32.55

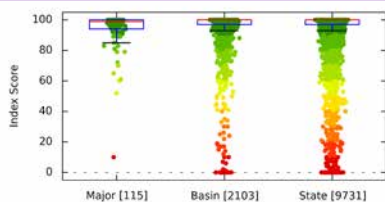


## Localized Pollution Sources - Potential Contaminants



### Health Score Distributions:

Le Sueur River  
Min: 10  
Max: 100  
Median: 99.0  
Mean: 94.37  
Standard Dev: 11.91

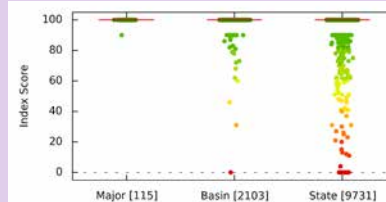


## Localized Pollution Sources - Superfund Sites



### Health Score Distributions:

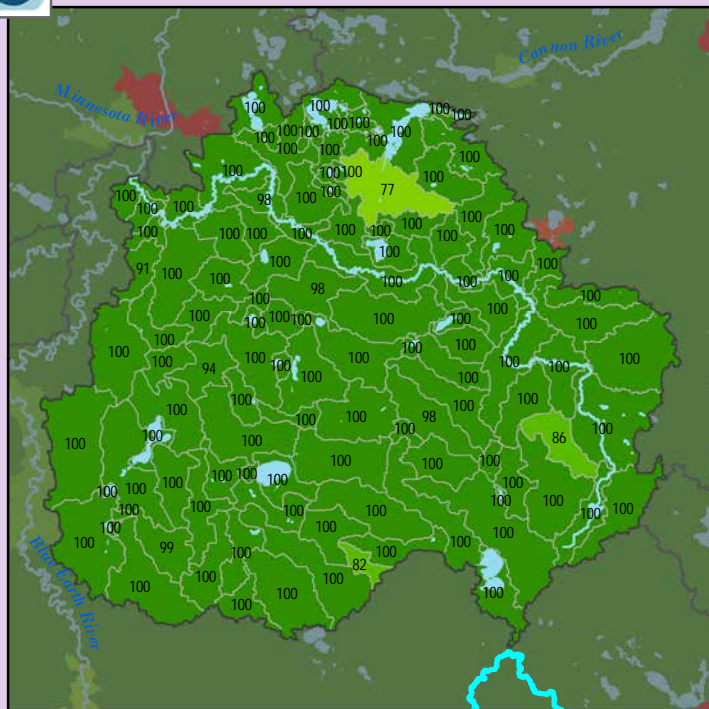
Le Sueur River  
Min: 90  
Max: 100  
Median: 100.0  
Mean: 99.91  
Standard Dev: 0.93







## Localized Pollution Sources - Wastewater Treatment



### Health Score Distributions:

Le Sueur River

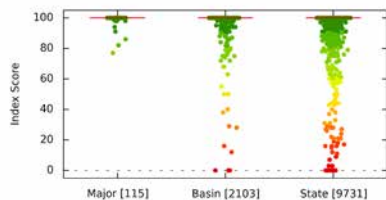
Min: 77

Max: 100

Median: 100.0

Mean: 99.33

Standard Dev: 3.13



## Localized Pollution Sources - Open Pit Mines



### Health Score Distributions:

Le Sueur River

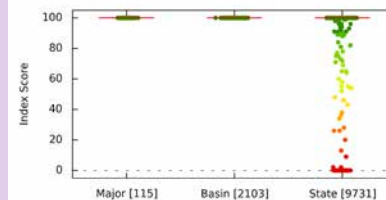
Min: 100

Max: 100

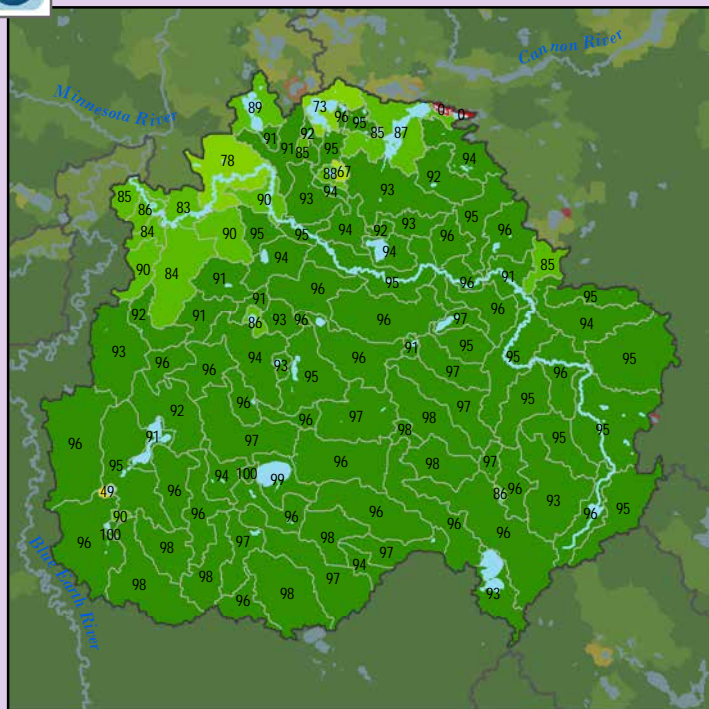
Median: 100.0

Mean: 100.0

Standard Dev: 0.0



## Localized Pollution Sources - Septic Systems



### Health Score Distributions:

Le Sueur River

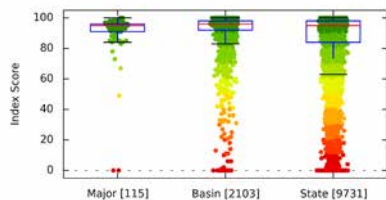
Min: 0

Max: 100

Median: 95.0

Mean: 91.22

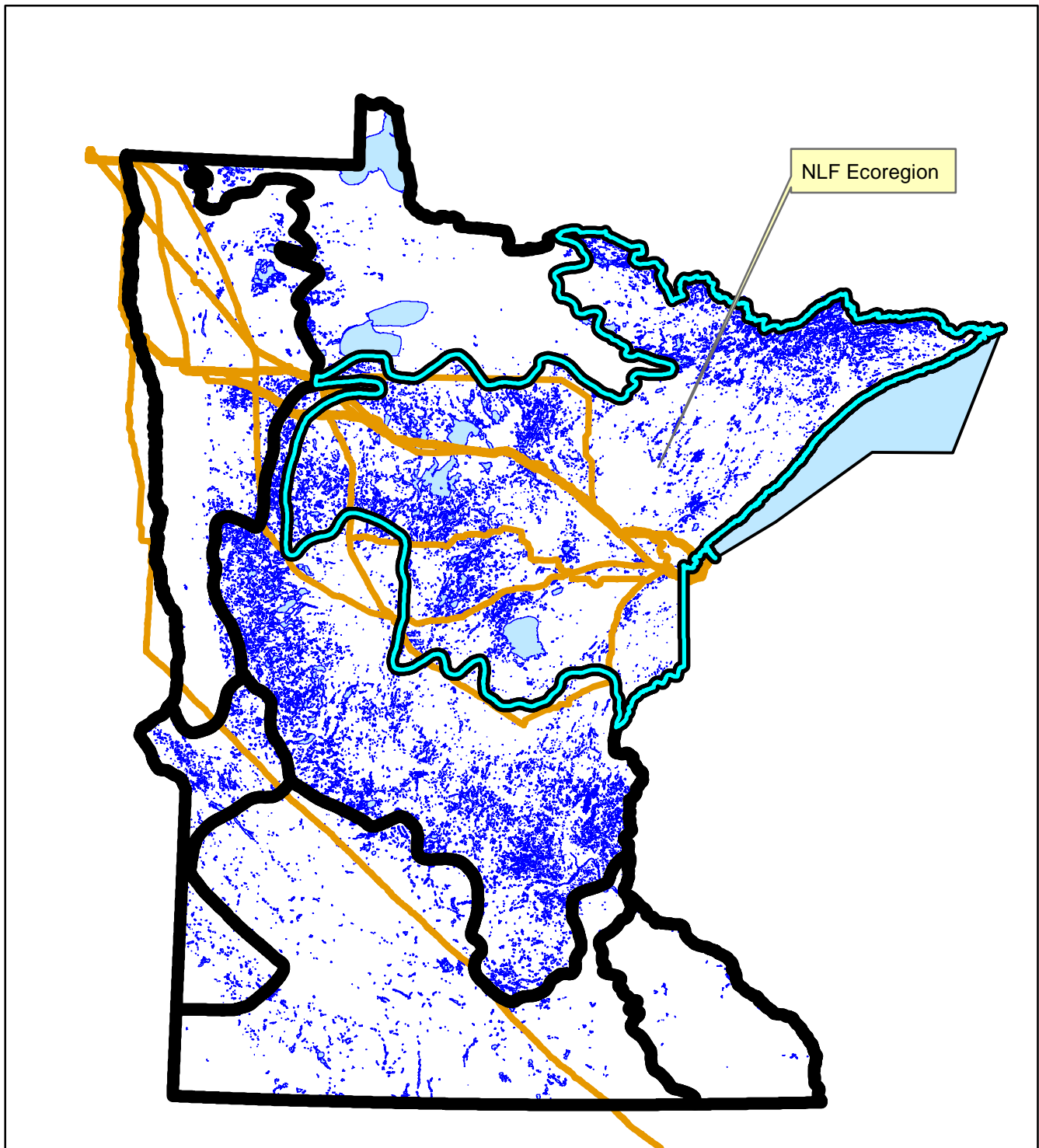
Standard Dev: 13.76










## Appendix J-2

### Lake Distribution Among Ecoregions-Routes



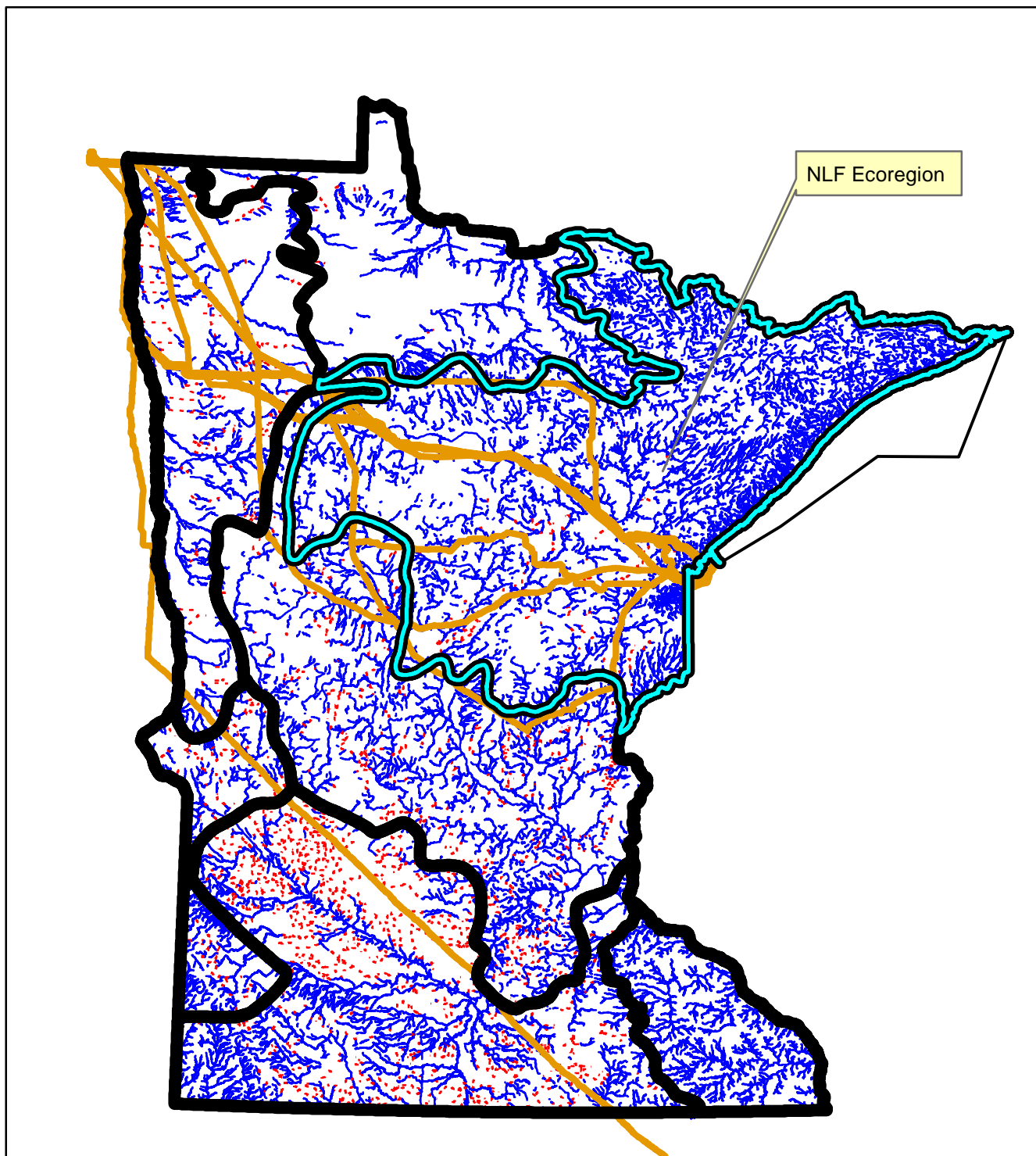
#### Legend

-  mn\_eco\_l3
-  Final\_Rail\_Routes\_Buffer
-  Final\_Truck\_Routes\_Buffer
-  RA
-  Public Waters Basins









## Appendix J-3

### Stream Distribution Among Ecoregions-Routes



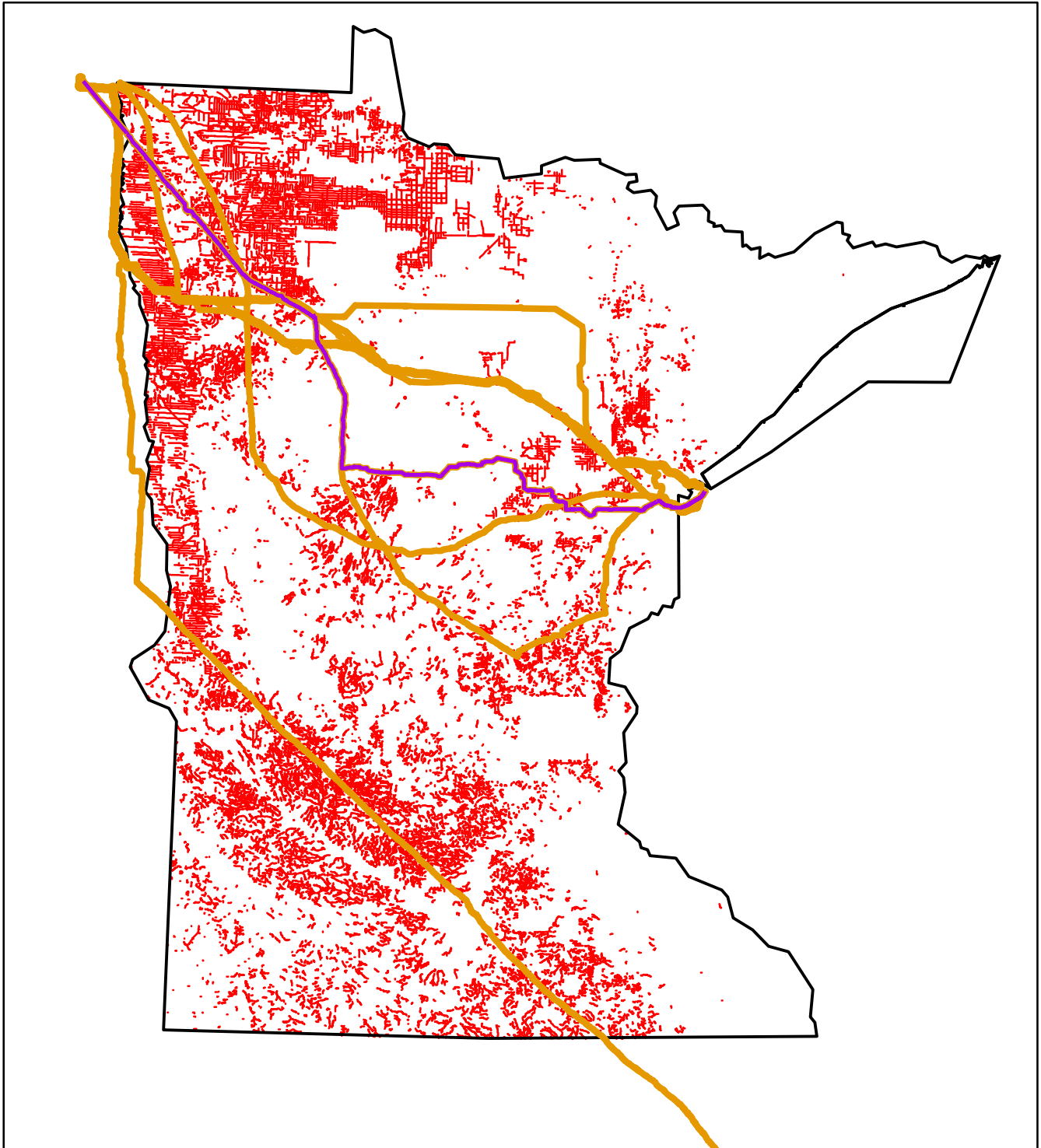
#### Legend

-  mn\_eco\_l3
-  Final\_Rail\_Routes\_Buffer
-  Final\_Truck\_Routes\_Buffer
-  RA
-  Public Water Watercourse
-  Public Ditch/Altered Natural Watercourse



## Appendix J-4

### Distribution of MN Ditches (Source DOT)



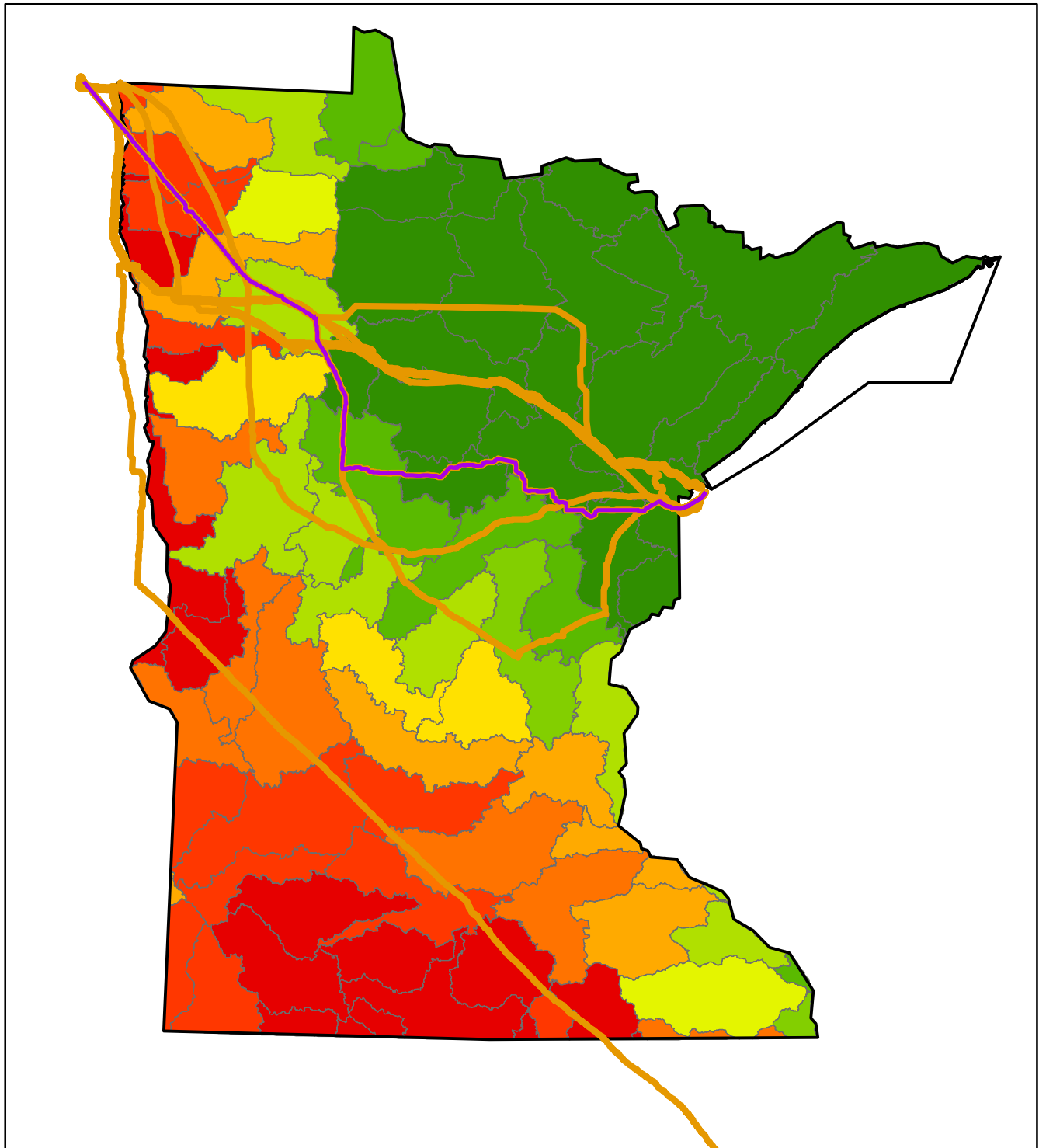
#### Legend

- Applicants\_Prefered\_Route
- Final\_Rail\_Routes\_Buffer
- Final\_Truck\_Routes\_Buffer
- RA
- Reduced Resolution Boundary > 1:3,000,000
- Drainage Ditches








## Appendix J-5

### Distribution of MN Ditches (Source DOT)













#### Legend

-  Applicants\_PREFERRED\_Route
-  Final\_Rail\_Routes\_Buffer
-  Final\_Truck\_Routes\_Buffer
-  RA
-  Reduced Resolution Boundary > 1:3,000,000

#### Legend

Hyd Index - Perennial Cover, 2011

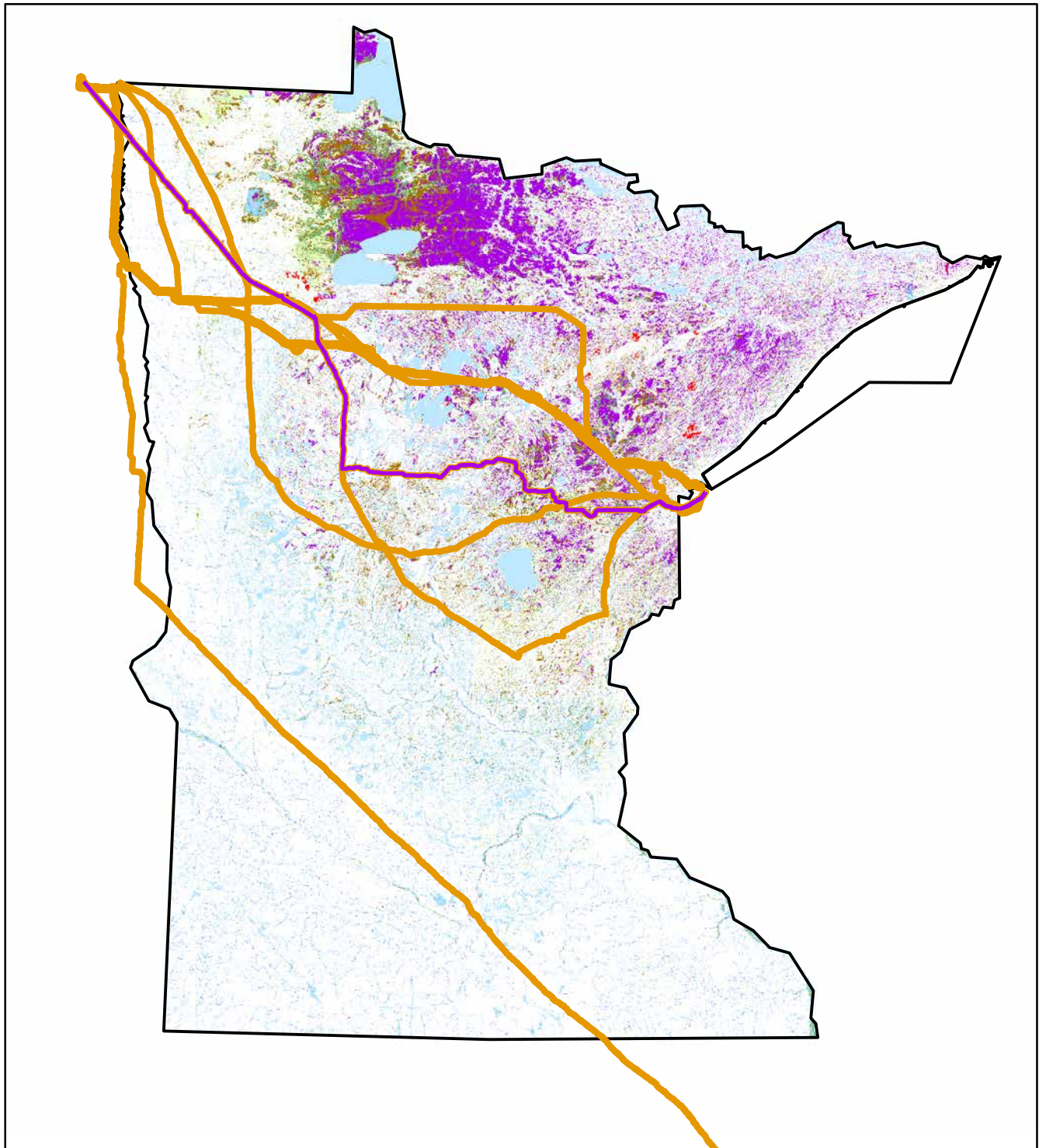
Major\_Scores.H\_I\_PC

-  0 - 10
-  11 - 20
-  21 - 30
-  31 - 40
-  41 - 50
-  51 - 60
-  61 - 70
-  71 - 80
-  81 - 90
-  91 - 100



# Appendix J-6

## Wetland Distribution Circular 39



### Legend

- Applicants\_Prefered\_Route
- Final\_Rail\_Routes\_Buffer
- Final\_Truck\_Routes\_Buffer
- RA
- Reduced Resolution Boundary > 1:3,000,000

### Legend

#### National Wetlands Inventory Raster

#### NWI Circular 39 Classification

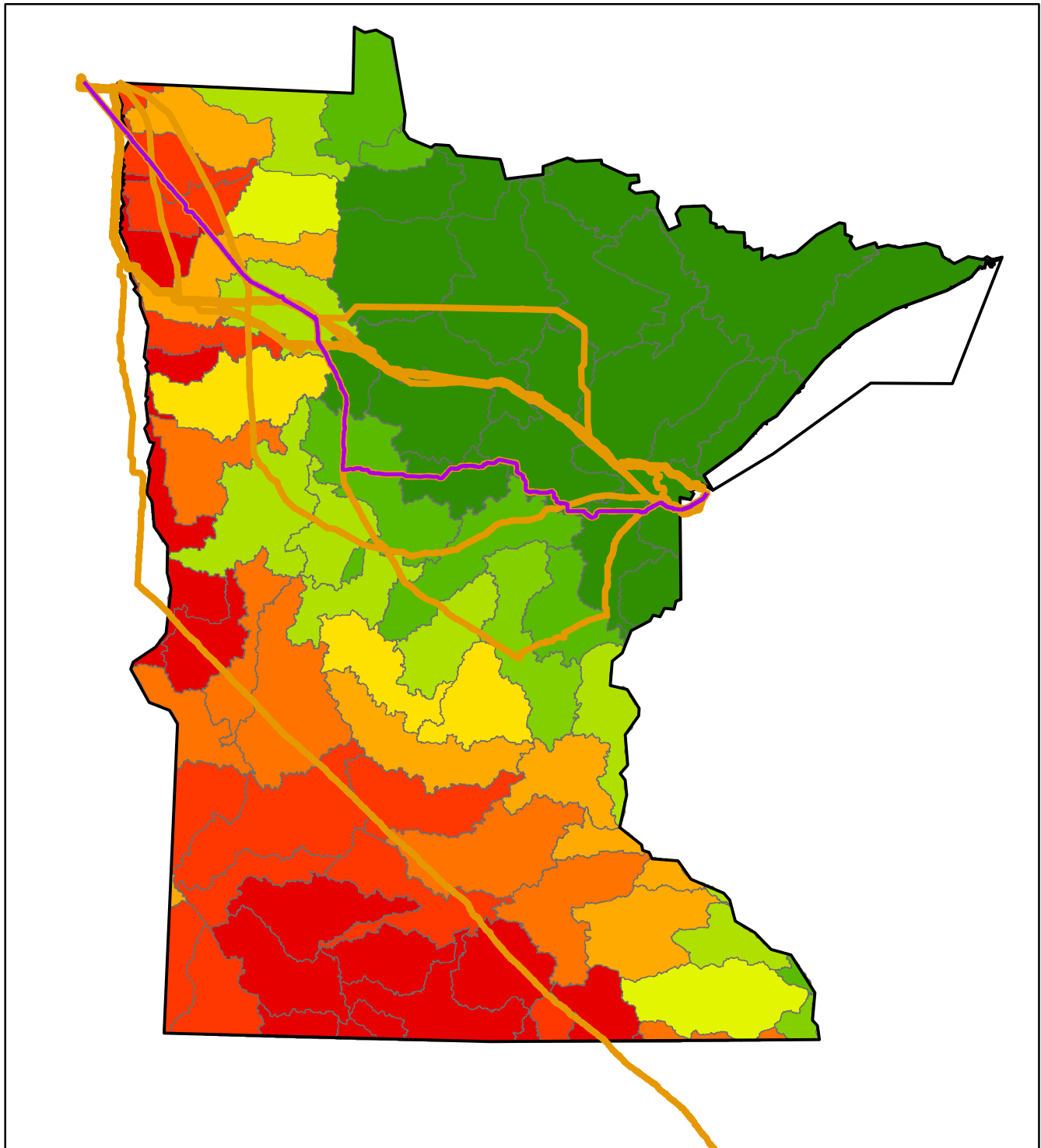
- Seasonally Flooded Basin or Flat
- Wet Meadow
- Shallow Marsh
- Deep Marsh
- Shallow Open Water
- Shrub Swamp
- Wooded Swamp
- Bog
- Municipal and Industrial
- Riverine System

### Legend








## Appendix J-7

### Loss of Hydrologic Storage, Wetland Loss













#### Legend

-  Applicants\_PREFERRED\_Route
-  Final\_Rail\_Routes\_Buffer
-  Final\_Truck\_Routes\_Buffer
-  RA
-  Reduced Resolution Boundary > 1:3,000,000

#### Legend

Hyd Index - Perennial Cover, 2011

Major\_Scores.H\_I\_PC

-  0 - 10
-  11 - 20
-  21 - 30
-  31 - 40
-  41 - 50
-  51 - 60
-  61 - 70
-  71 - 80
-  81 - 90
-  91 - 100