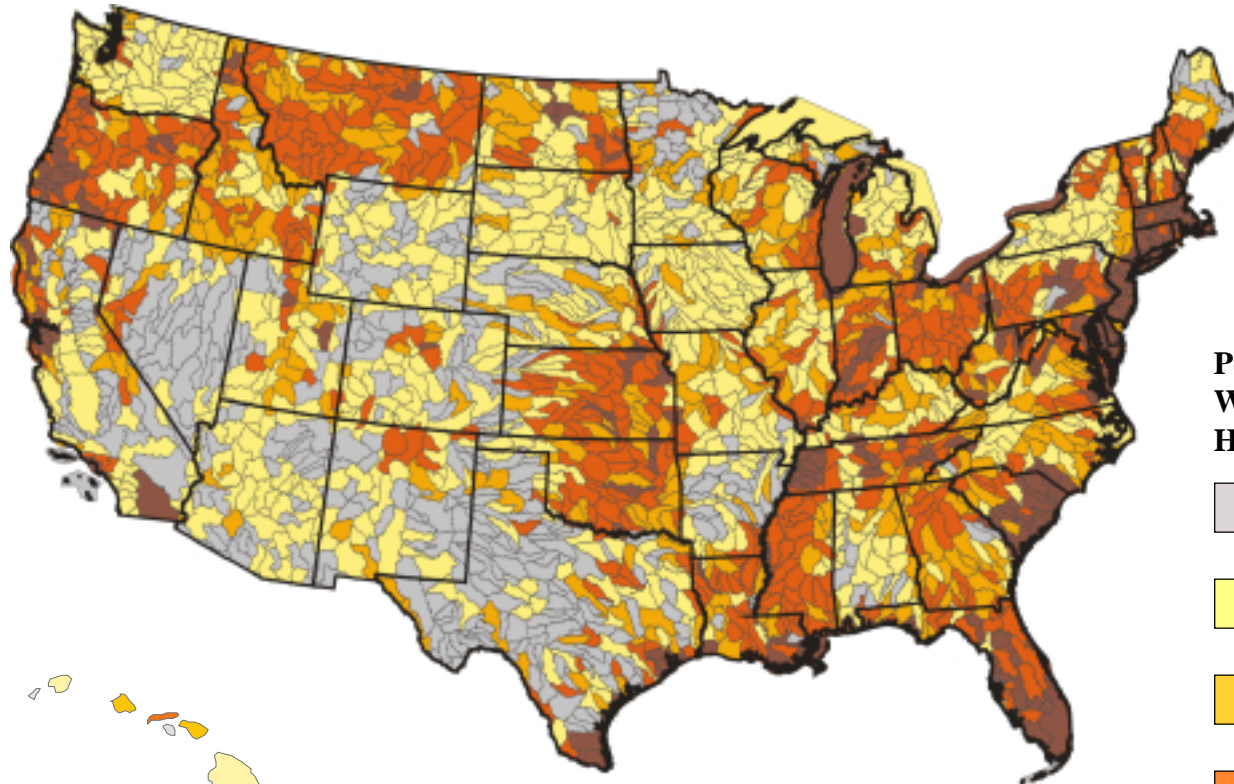
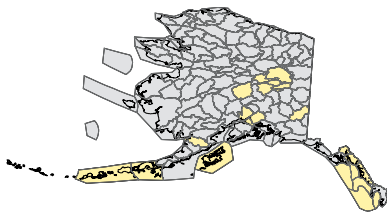
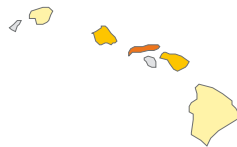
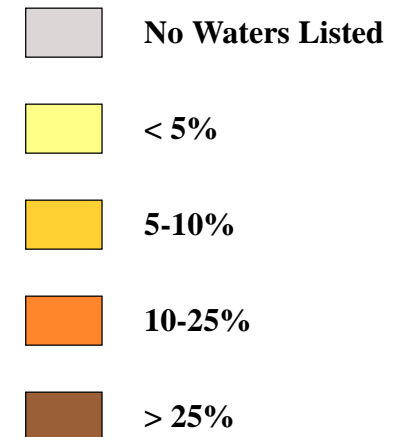




Atlas of America's Polluted Waters



**Percent of Impaired
Waters by 8-digit
Hydrologic Unit Code**



Cover: The cover map is a national summary of the 1998 polluted waters.

The map represents threatened and impaired streams, rivers, coastlines, estuaries and lakes. The colors show the miles impaired /threatened within an 8-digit Hydrologic Unit Code (HUC), divided by the total number of water miles within the HUC.

EPA 840-B00-002

May 2000

Atlas of America's Polluted Waters



**Assessment and Watershed Protection Division
Office of Wetlands, Oceans and Watersheds
U.S. Environmental Protection Agency (4503F)
1200 Pennsylvania Avenue, N.W.
Washington, DC 20460**

This report should be cited as:

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Office of Water (4503F), United States Environmental Protection Agency, Washington, D.C.

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Fax: (513) 489-8695

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<http://www.epa.gov/OWOW/tmdl/>

ATLAS OF AMERICA'S POLLUTED WATERS

The maps in this atlas depict the waters within each state that do not meet state water quality standards. States listed these waters in their most recent submission to EPA, generally in 1998, as required by section 303(d) of the Clean Water Act. This provision of the Clean Water Act requires a “Total Maximum Daily Load” or TMDL for each listed water. There are more than 20,000 such waters identified nationally, comprising more than 300,000 miles of rivers and streams and more than 5 million acres of lakes. The overwhelming majority of Americans—over 218 million—live within ten miles of a polluted waterbody.

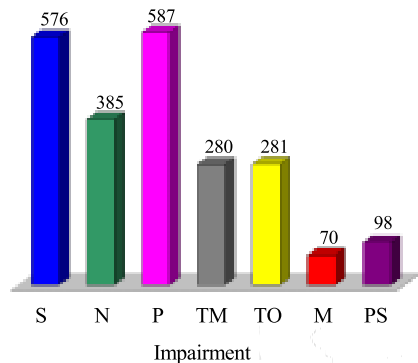
Each state map includes a bar chart of the combined number of miles of streams, rivers, and coastal shoreline or acres of lakes, estuaries and wetlands that do not meet state standards, and the pollutant that is causing the impairment. The pollutants most frequently identified as causing water pollution include sediments, excess nutrients, and harmful pathogens. Toxics, including metals, mercury and pesticides, also contribute to these impairments.

A TMDL is a pollution budget for a specific river, lake or stream. It is a quantitative estimate of what it takes to achieve state water quality goals in polluted waters. States review water quality conditions and identify specific waters that are polluted and work with local governments and interested parties in a cooperative, bottom-up process to develop TMDLs. In the TMDL process, states and local interests work together to allocate pollution reduction responsibility among sources and determine the most common sense, cost-effective way to address the specific problems of a particular waterbody.

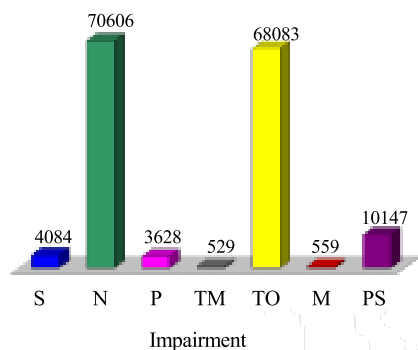
EPA has proposed to strengthen the TMDL program, first authorized in the 1972 Clean Water Act, to clean up waters in communities across the country.

Alabama 1998 Polluted Waters

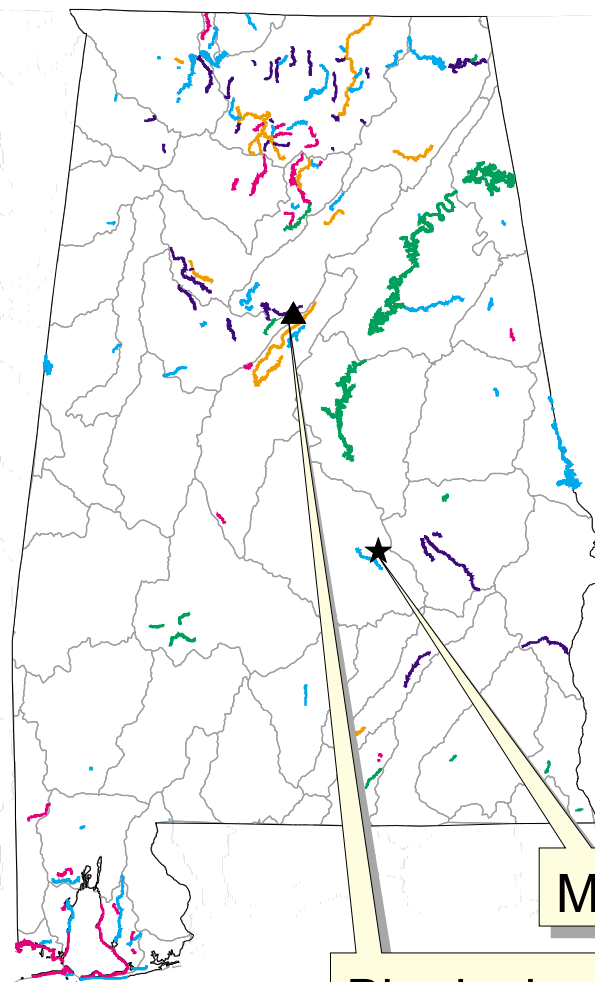
Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
 N = Nutrients M = Mercury
 P = Pathogens PS = Pesticides
 TM = Toxics/Metals/Inorganics



Legend:

- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **
- 8-digit USGS Cataloging Units
- Capital City
- Largest City
- * Any combination of sediments, nutrients, and pathogens
- ** All other causes

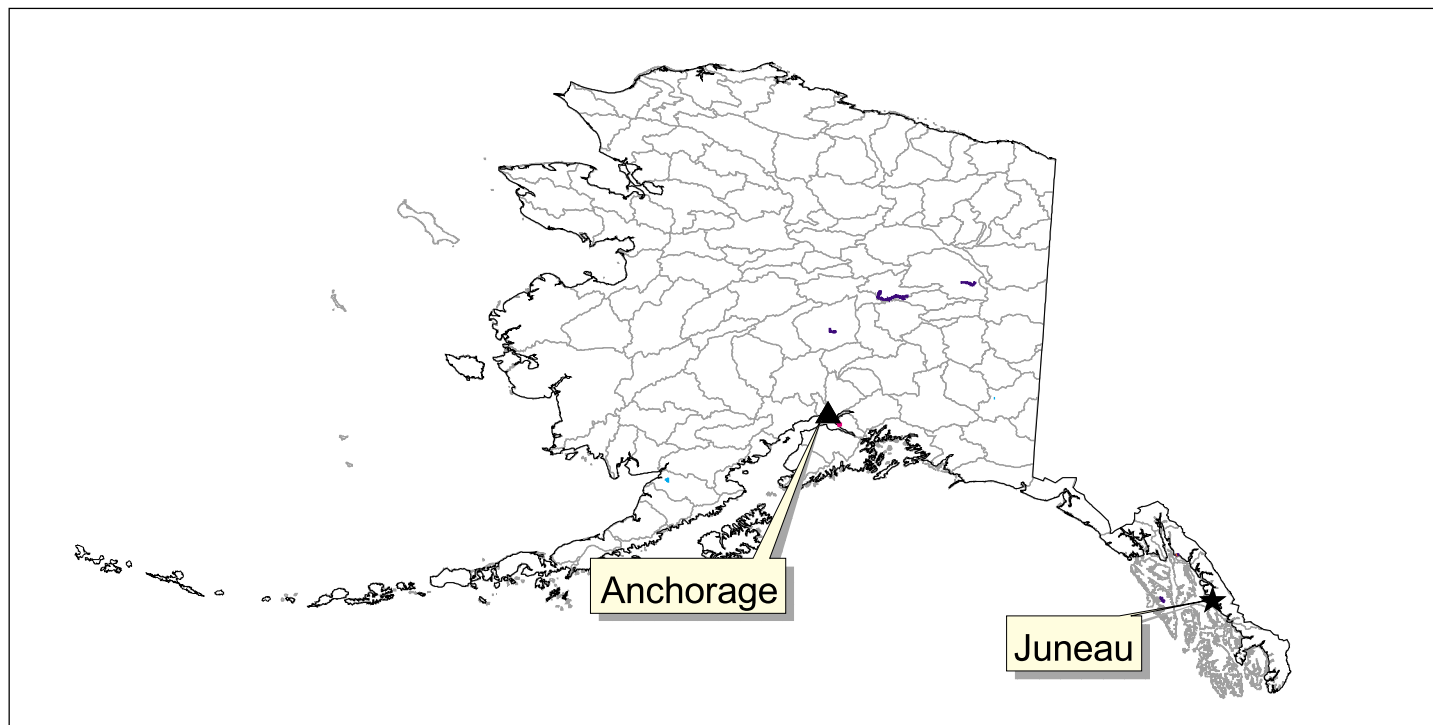
Montgomery

Birmingham

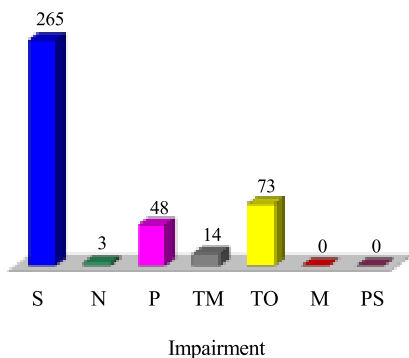
Source: 1998 State 303(d) Lists



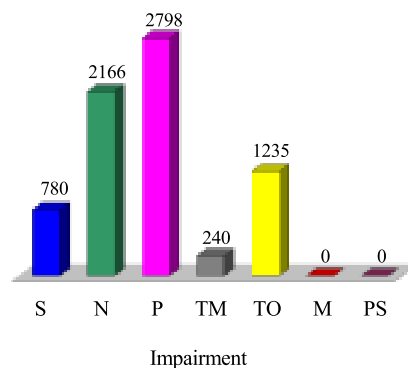
Alaska 1998 Polluted Waters



Impaired Stream/River/Coastal Shoreline Miles



Impaired Lake/Estuary/Wetland Acres

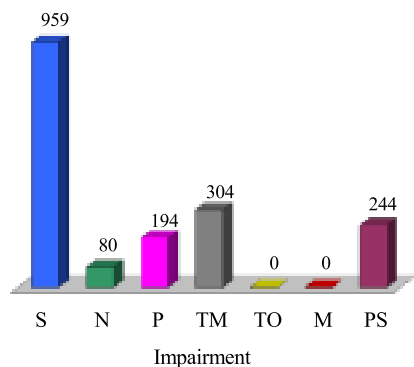


S = Sedimentation
 N = Nutrients
 P = Pathogens
 TM = Toxics/Metals/Inorganics
 TO = Toxics/Organics
 M = Mercury
 PS = Pesticides

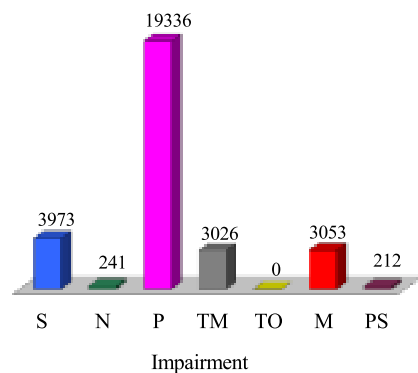
Source: 1998 State 303(d) Lists

Arizona 1998 Polluted Waters

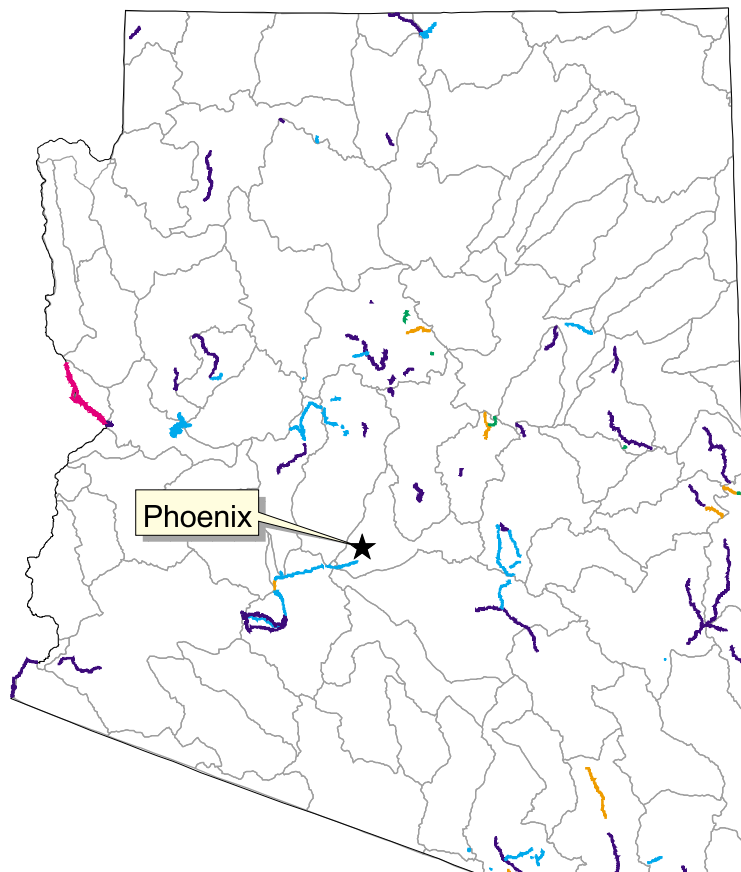
Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
 N = Nutrients M = Mercury
 P = Pathogens PS = Pesticides
 TM = Toxics/Metals/Inorganics



Legend:

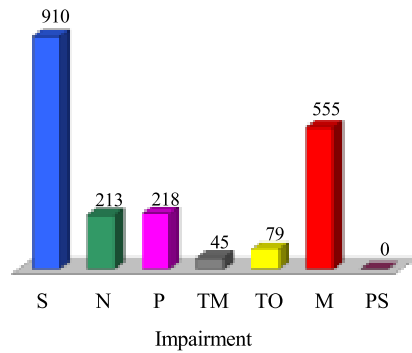
- Sedimentation
 - Nutrients
 - Pathogens
 - Multiple *
 - Other **
 - 8-digit USGS Cataloging Units
 - Capital and Largest City
- * Any combination of sediments, nutrients, and pathogens
 ** All other causes

Source: 1998 State 303(d) Lists

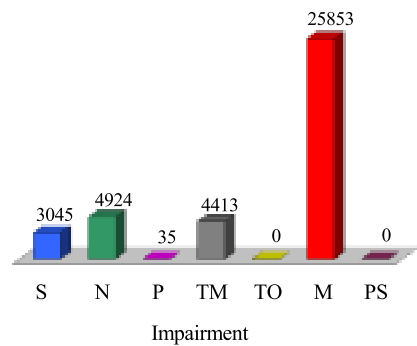


Arkansas 1998 Polluted Waters

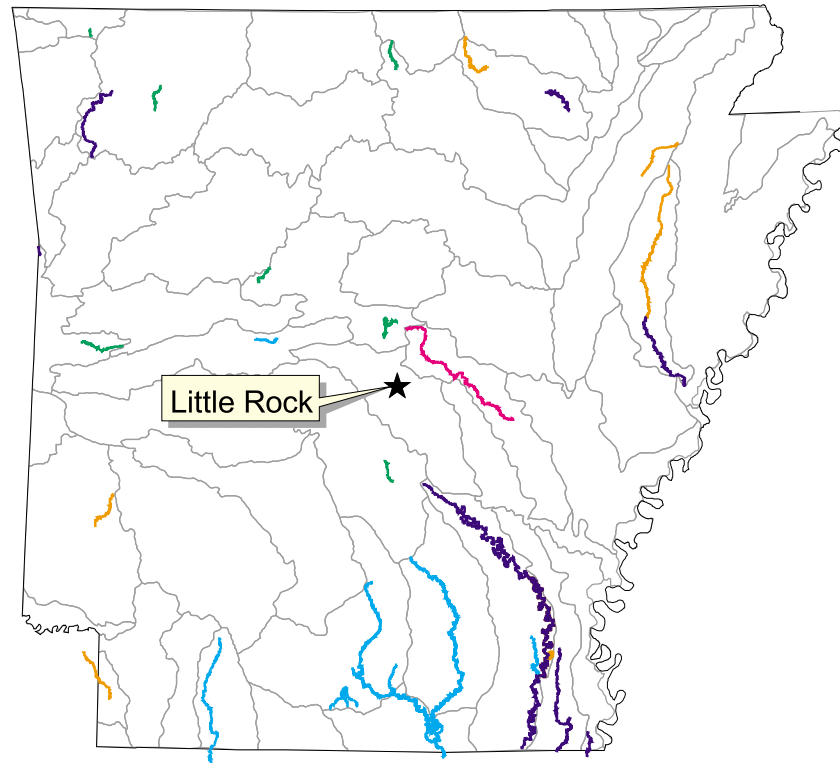
Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
N = Nutrients M = Mercury
P = Pathogens PS = Pesticides
TM = Toxics/Metals/Inorganics



Legend:

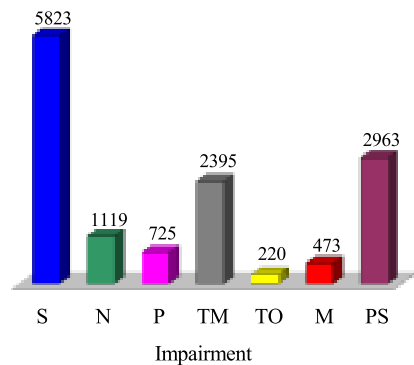
- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **
- 8-digit USGS Cataloging Units
- Capital and Largest City
- * Any combination of sediments, nutrients, and pathogens
- ** All other causes

Source: 1998 State 303(d) Lists

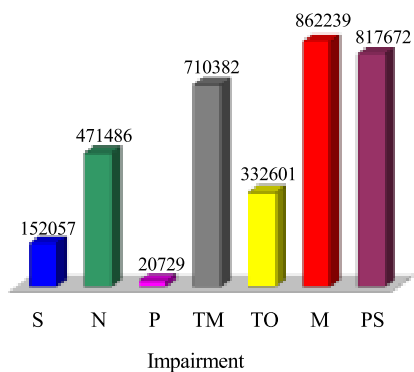


California 1998 Polluted Waters

Impaired Stream/River/Coastal Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
 N = Nutrients M = Mercury
 P = Pathogens PS = Pesticides
 TM = Toxics/Metals/Inorganics



Legend:

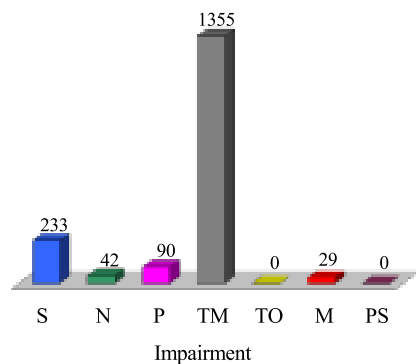
- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **
- 8-digit USGS Cataloging Units
- Capital City
- Largest City
- * Any combination of sediments, nutrients, and pathogens
- ** All other causes

Source: 1998 State 303(d) Lists

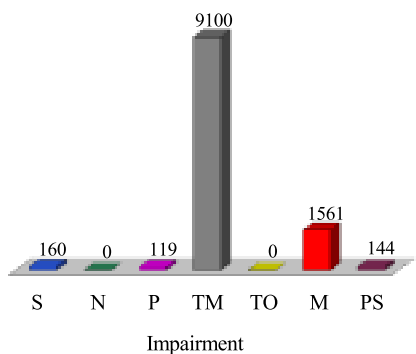


Colorado 1998 Polluted Waters

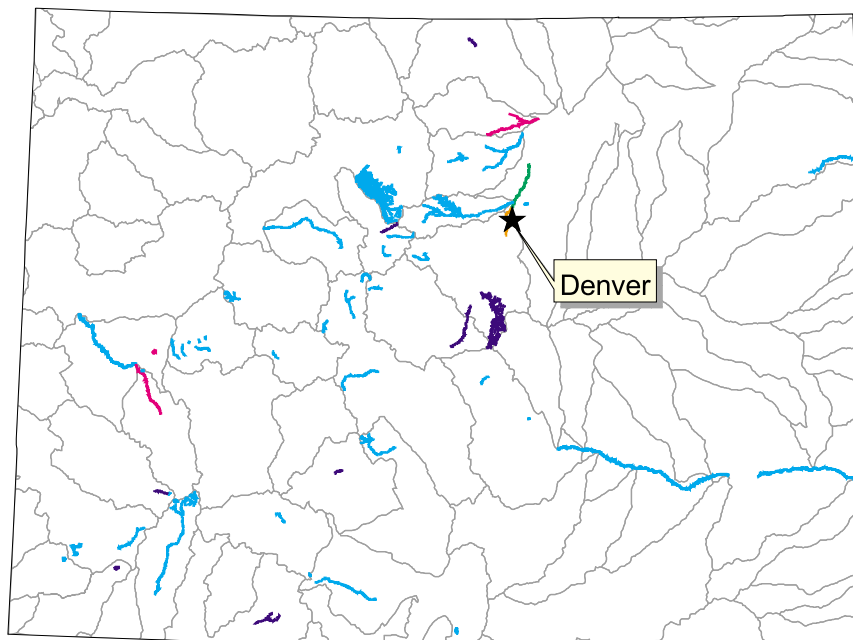
Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



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 N = Nutrients M = Mercury
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Legend:

- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **
- 8-digit USGS Cataloging Units

★ Capital and
Largest City

* Any combination of
sediments, nutrients,
and pathogens

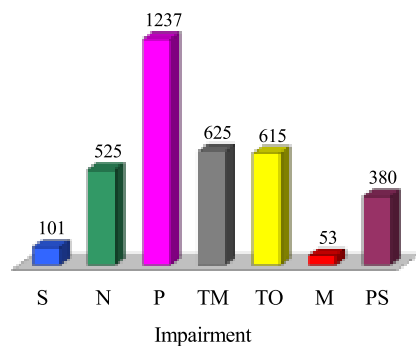
** All other causes

Source: 1998 State 303(d) Lists

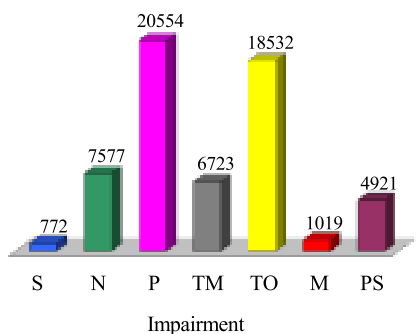


Connecticut 1998 Polluted Waters

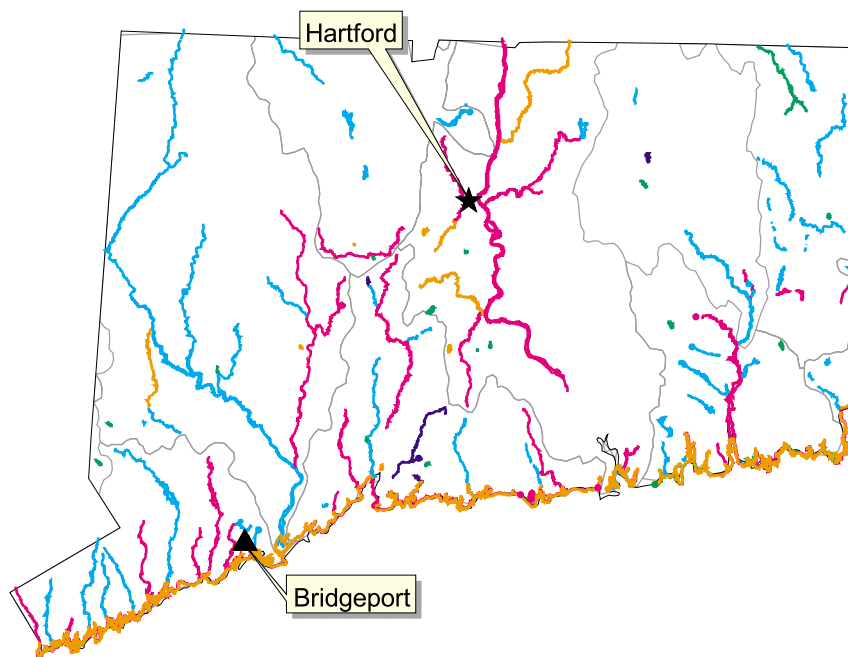
Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
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 P = Pathogens PS = Pesticides
 TM = Toxics/Metals/Inorganics



Legend:

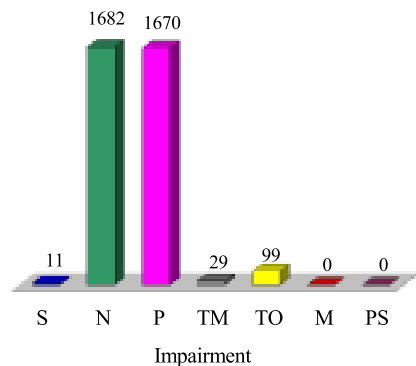
- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **
- 8-digit USGS Cataloging Units
- Capital City
- Largest City
- * Any combination of sediments, nutrients, and pathogens
- ** All other causes

Source: 1998 State 303(d) Lists

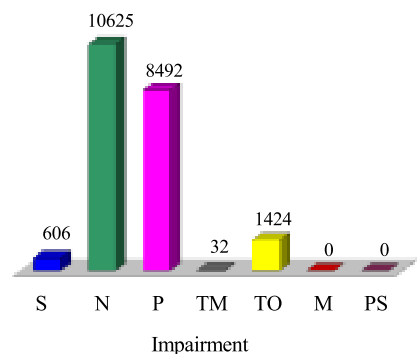


Delaware 1998 Polluted Waters

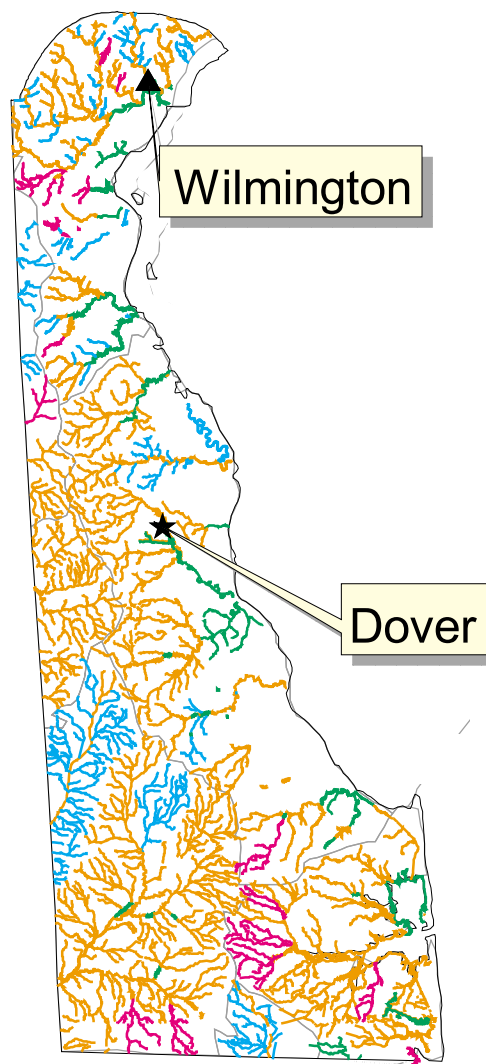
Impaired Stream/River/Coastal Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
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Legend:

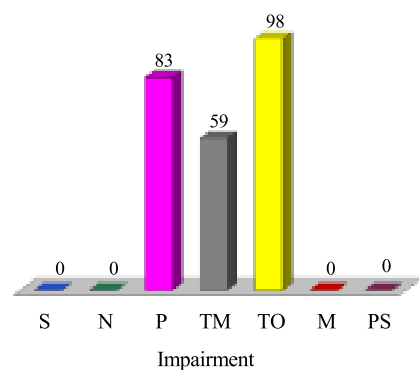
- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **
- 8-digit USGS Cataloging Units
- Capital City
- Largest City
- * Any combination of sediments, nutrients, and pathogens
- ** All other causes

Source: 1998 State 303(d) Lists

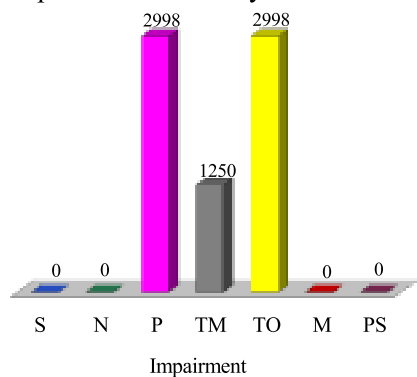


District of Columbia 1998 Polluted Waters

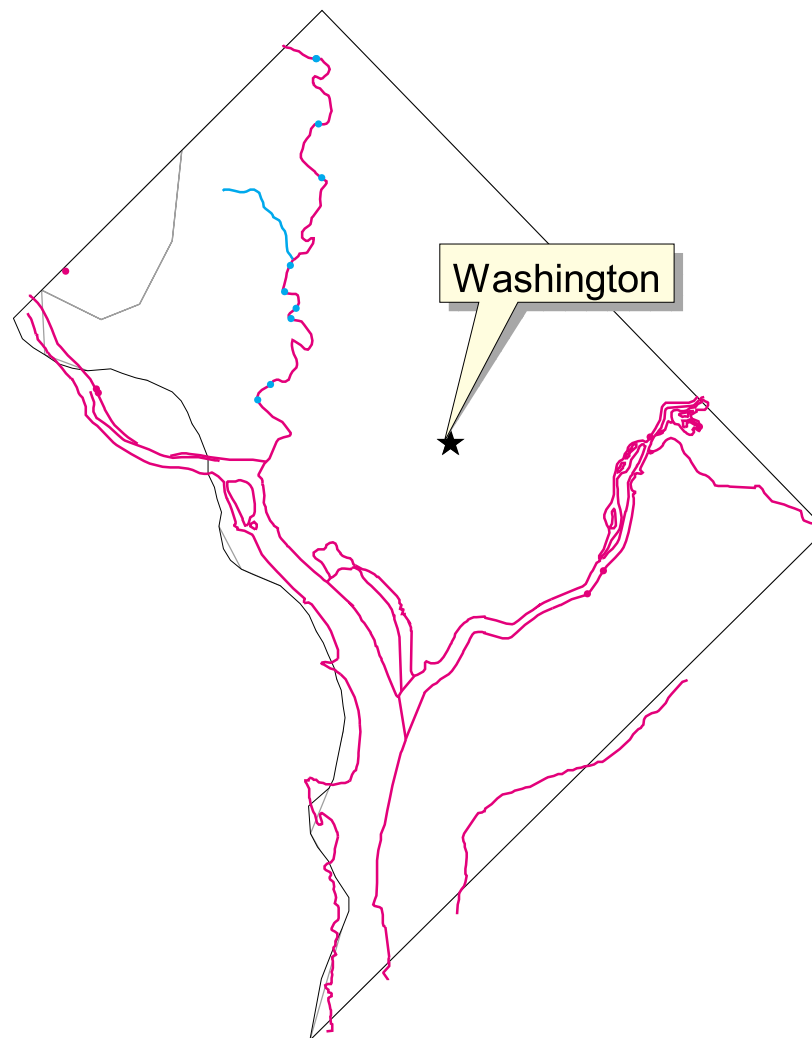
Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
N = Nutrients M = Mercury
P = Pathogens PS = Pesticides
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Legend:

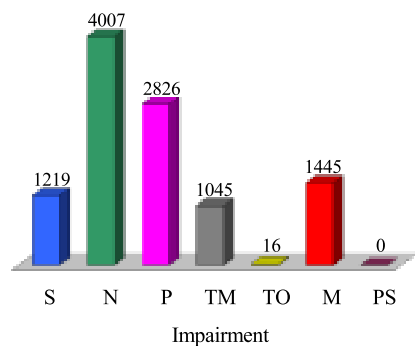
- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **
- 8-digit USGS Cataloging Units
- Capital and Largest City
- * Any combination of sediments, nutrients, and pathogens
- ** All other causes

Source: 1998 State 303(d) Lists

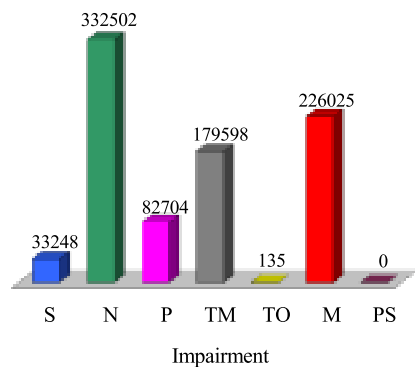


Florida 1998 Polluted Waters

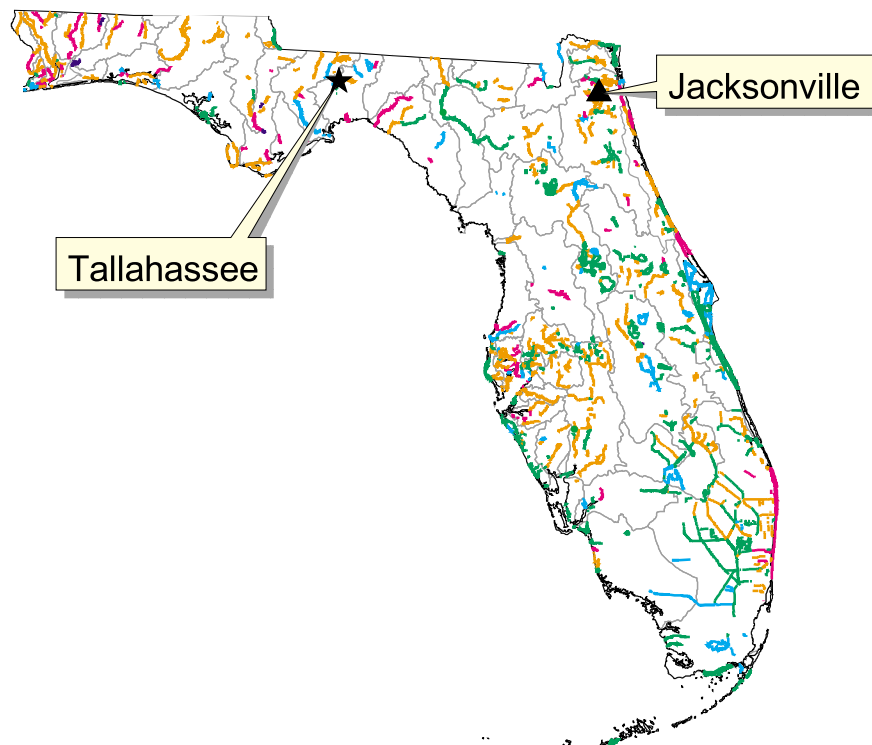
Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
 N = Nutrients M = Mercury
 P = Pathogens PS = Pesticides
 TM = Toxics/Metals/Inorganics



Legend:

- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **
- 8-digit USGS Cataloging Units
- Capital City
- Largest City
- * Any combination of sediments, nutrients, and pathogens
- ** All other causes

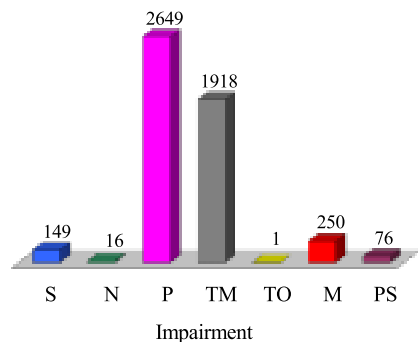
Source: 1998 State 303(d) Lists



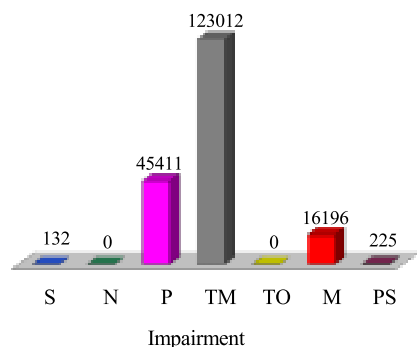
Georgia

1998 Polluted Waters

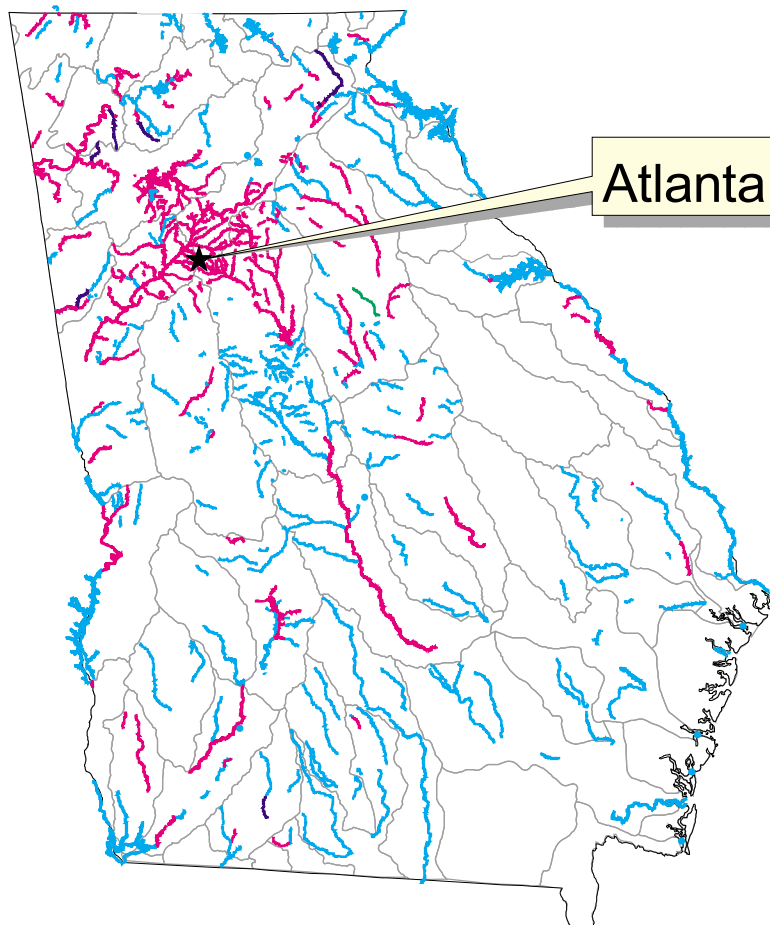
Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
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P = Pathogens PS = Pesticides
TM = Toxics/Metals/Inorganics



Legend:

- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **
- 8-digit USGS Cataloging Units
- Capital and Largest City

* Any combination of sediments, nutrients, and pathogens

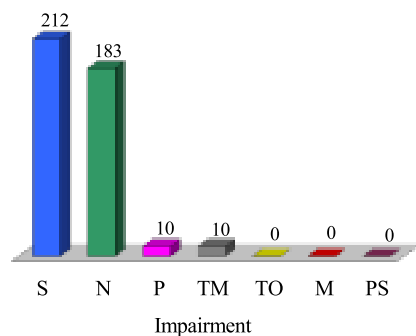
** All other causes

Source: 1998 State 303(d) Lists

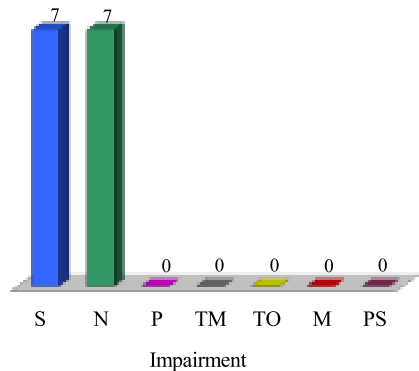


Hawaii 1998 Polluted Waters

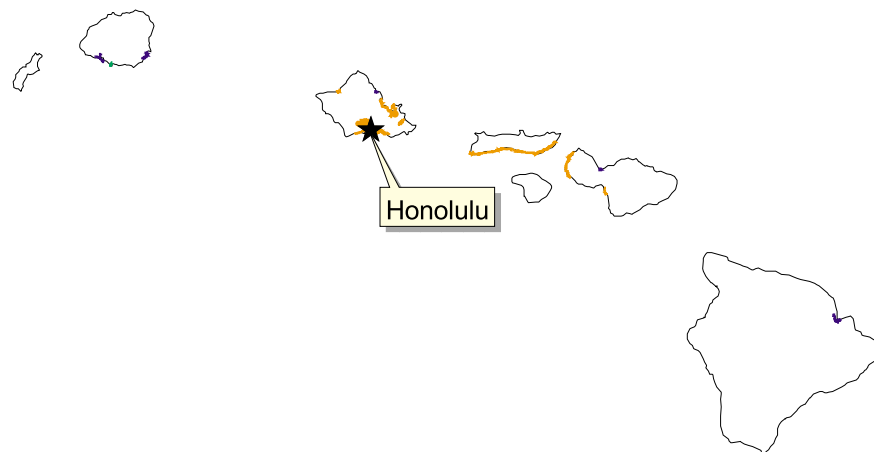
Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
 N = Nutrients M = Mercury
 P = Pathogens PS = Pesticides
 TM = Toxics/Metals/Inorganics



Legend:

- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **

8-digit USGS
Cataloging Units

Capital and
Largest City

* Any combination of
sediments, nutrients,
and pathogens

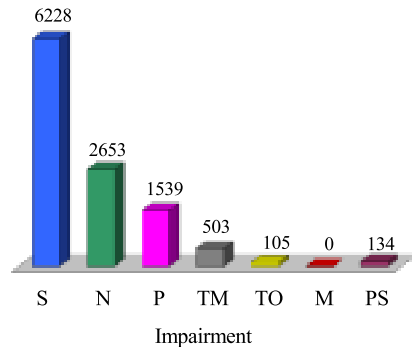
** All other causes

Source: 1998 State 303(d) Lists

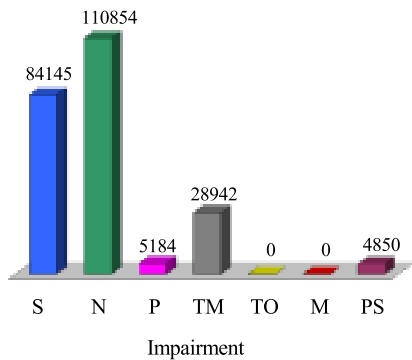


Idaho 1998 Polluted Waters

Impaired Stream/River/Coastal Shoreline Miles

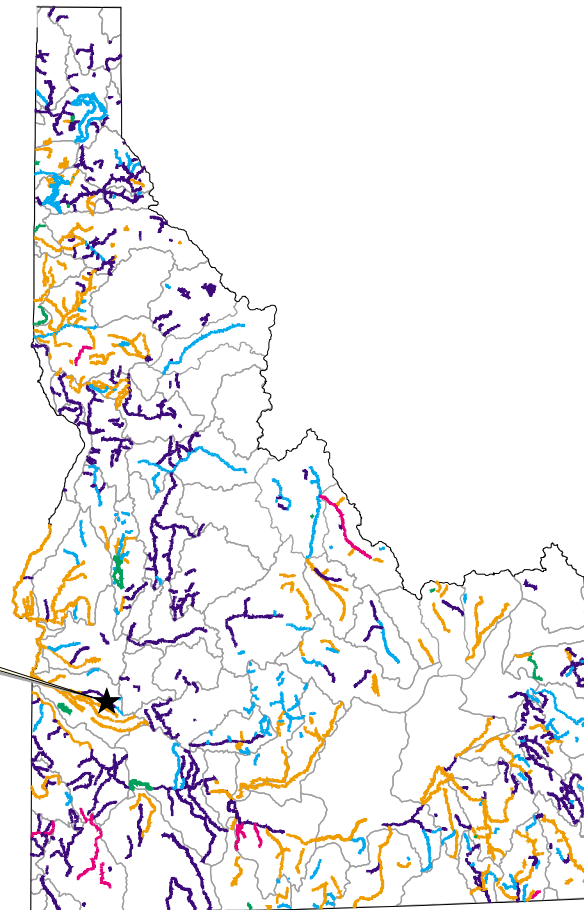


Impaired Lake/Estuary/Wetland Acres



S = Sedimentation
N = Nutrients
P = Pathogens
TM = Toxics/Metals/Inorganics
TO = Toxics/Organics
M = Mercury
PS = Pesticides

Boise



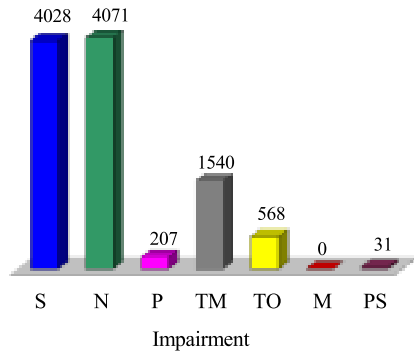
Legend:

- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **
- 8-digit USGS Cataloging Units
- Capital and Largest City
- * Any combination of sediments, nutrients, and pathogens
- ** All other causes

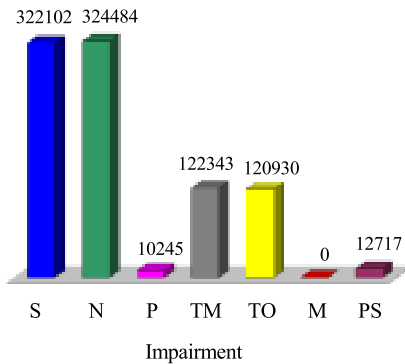
Source: 1998 State 303(d) Lists

Illinois 1998 Polluted Waters

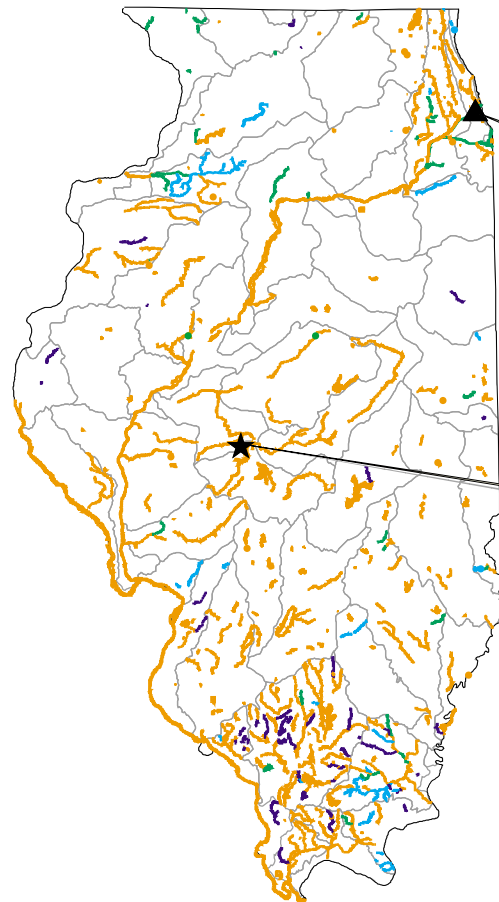
Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
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 P = Pathogens PS = Pesticides
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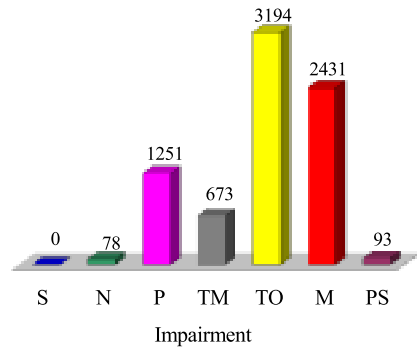
Legend:

- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **
- 8-digit USGS Cataloging Units
- Capital City
- Largest City
- * Any combination of sediments, nutrients, and pathogens
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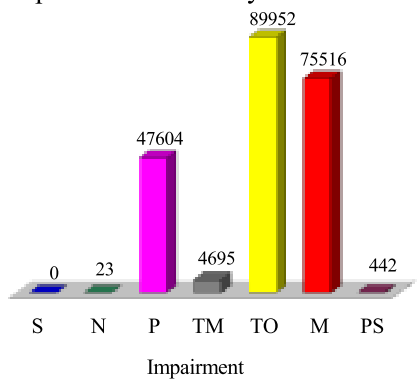
Source: 1998 State 303(d) Lists

Indiana 1998 Polluted Waters

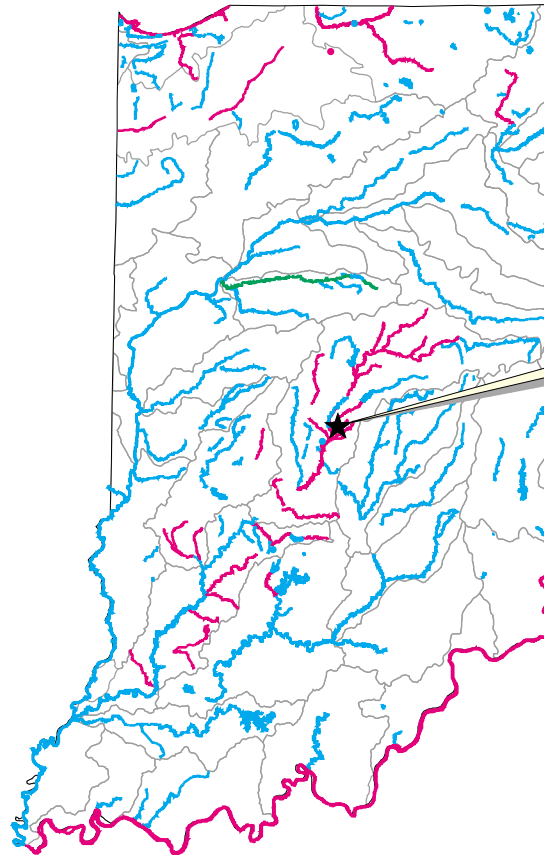
Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
 N = Nutrients M = Mercury
 P = Pathogens PS = Pesticides
 TM = Toxics/Metals/Inorganics



Indianapolis

Legend:

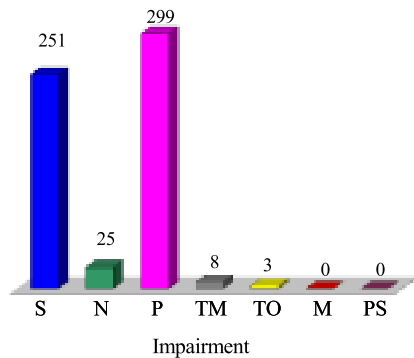
- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **
- 8-digit USGS Cataloging Units
- Capital and Largest City
- * Any combination of sediments, nutrients, and pathogens
- ** All other causes

Source: 1998 State 303(d) Lists

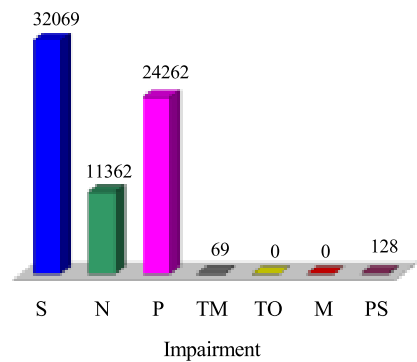


Iowa 1998 Polluted Waters

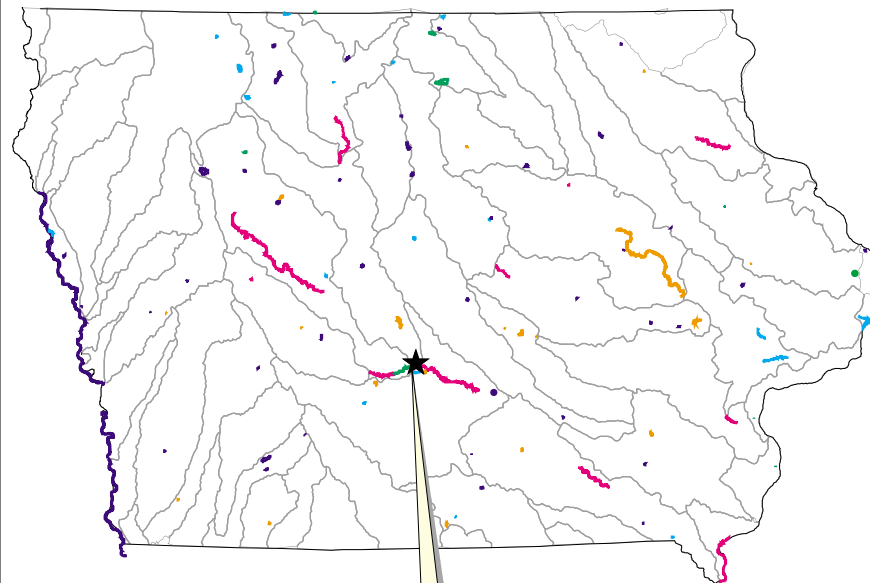
Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



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N = Nutrients M = Mercury
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Des Moines

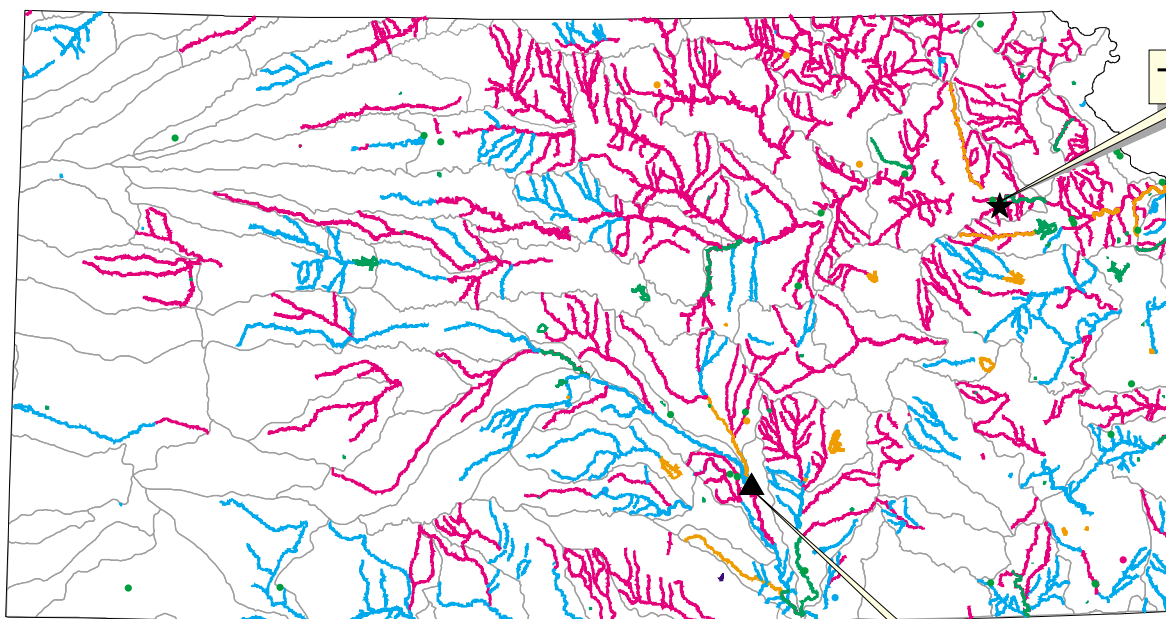
Legend:

- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **
- 8-digit USGS Cataloging Units
- Capital and Largest City
- * Any combination of sediments, nutrients, and pathogens
- ** All other causes

Source: 1998 State 303(d) Lists



Kansas 1998 Polluted Waters



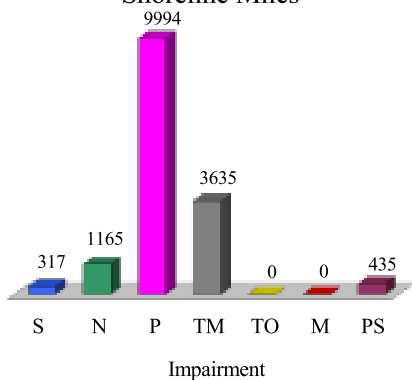
Legend:

- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **
- 8-digit USGS Cataloging Units
- Capital City
- Largest City

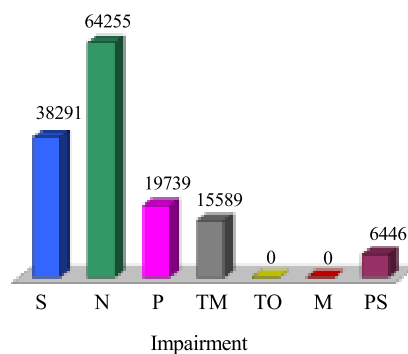
* Any combination of sediments, nutrients, and pathogens

** All other causes

Impaired Stream/River/Coastal Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



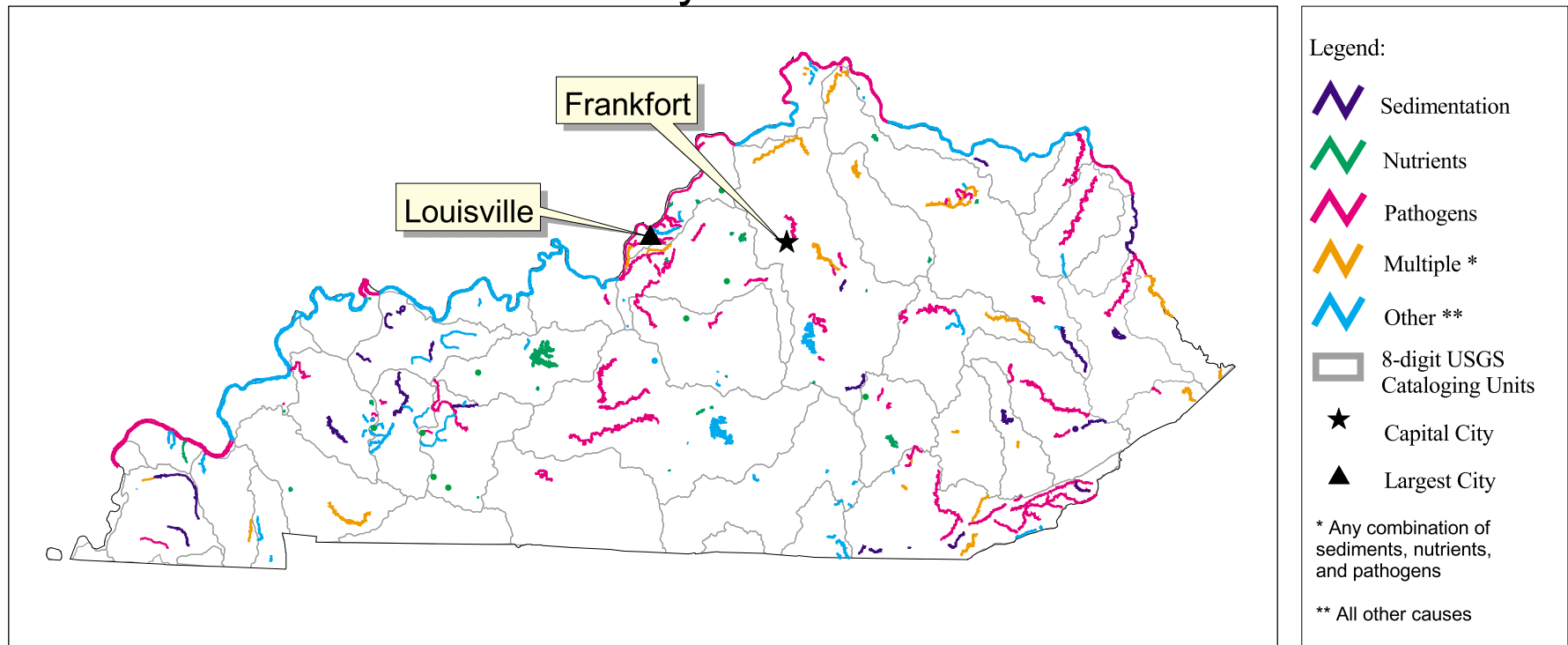
S = Sedimentation
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 PS = Pesticides

Source: 1998 State 303(d) Lists

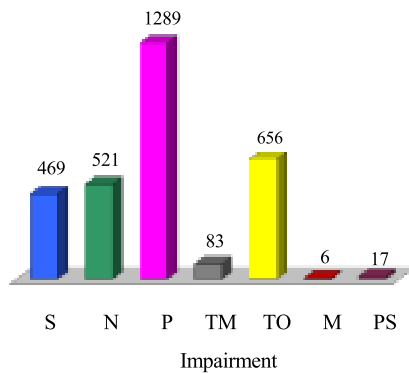


Kentucky

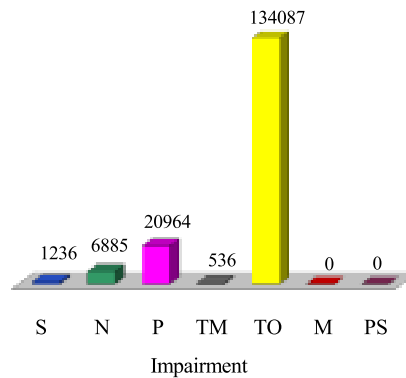
1998 Polluted Waters



Impaired Stream/River/Coastal



Impaired Lake/Estuary/Wetland Acres

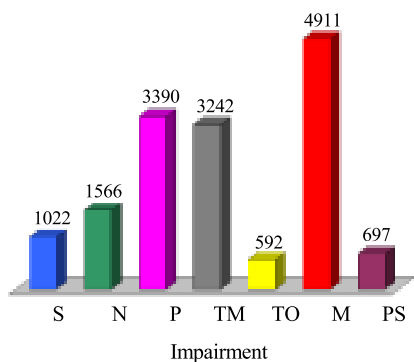


S = Sedimentation
 N = Nutrients
 P = Pathogens
 TM = Toxics/Metals/Inorganics
 TO = Toxics/Organics
 M = Mercury
 PS = Pesticides

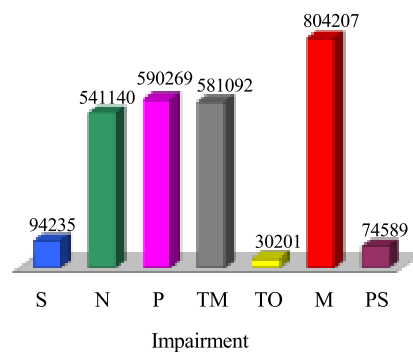
Source: 1998 State 303(d) Lists

Louisiana 1998 Polluted Waters

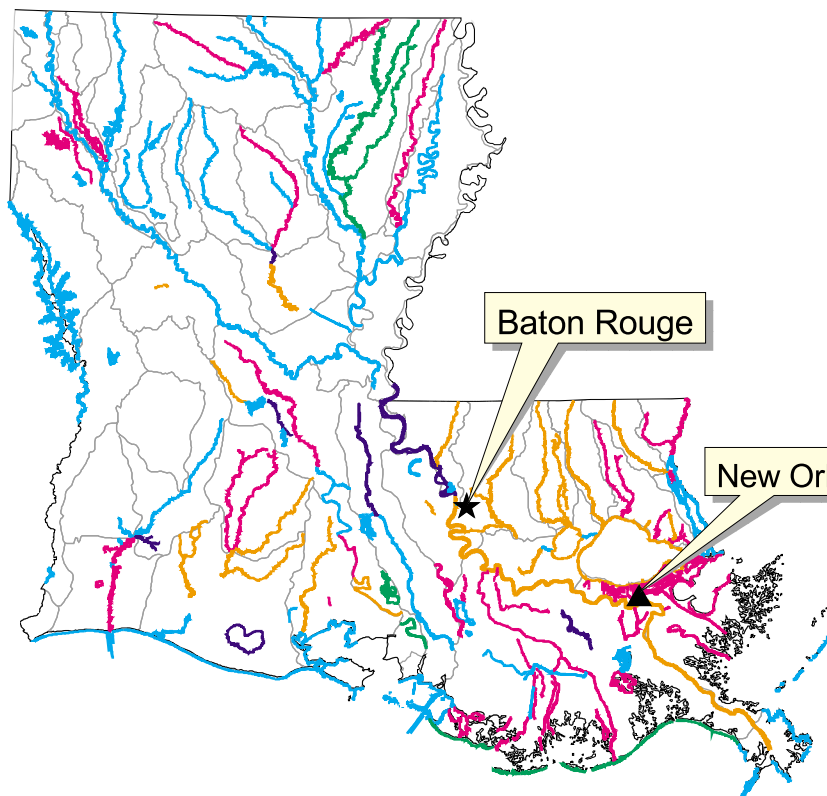
Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
 N = Nutrients M = Mercury
 P = Pathogens PS = Pesticides
 TM = Toxics/Metals/Inorganics



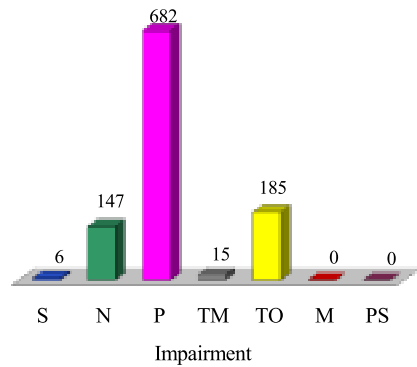
Legend:

- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **
- 8-digit USGS Cataloging Units
- Capital City
- Largest City
- * Any combination of sediments, nutrients, and pathogens
- ** All other causes

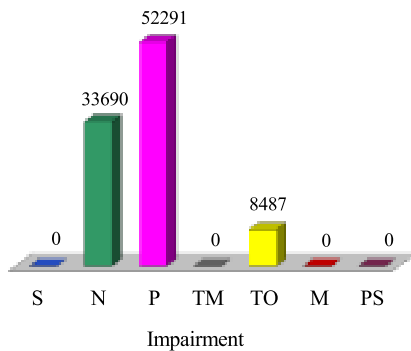
Source: 1998 State 303(d) Lists

Maine 1998 Polluted Waters

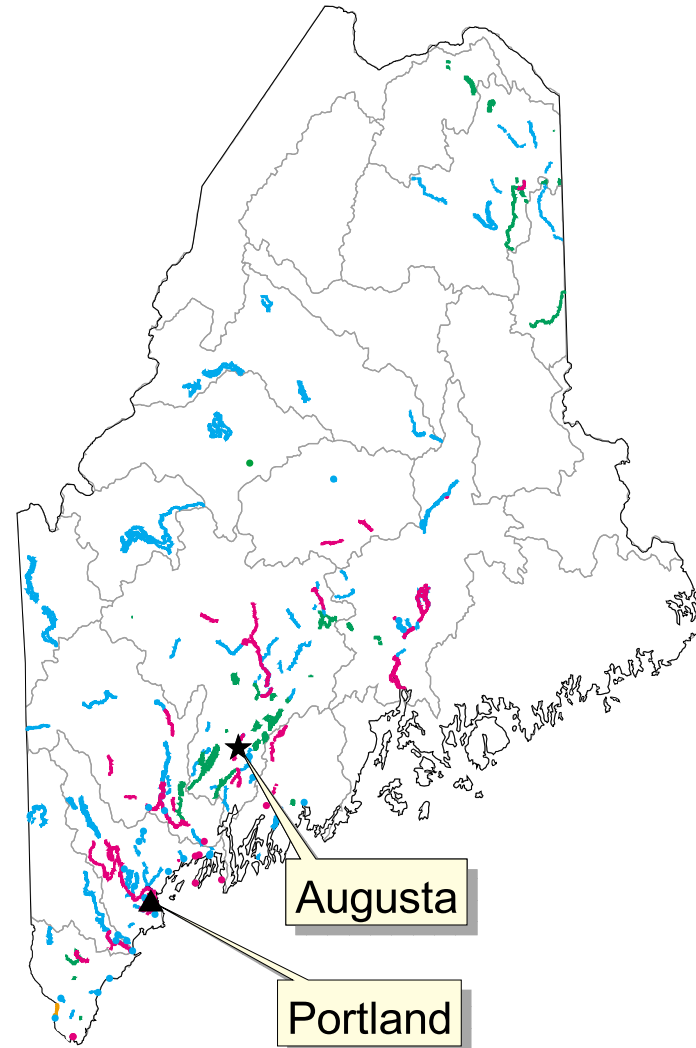
Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
 N = Nutrients M = Mercury
 P = Pathogens PS = Pesticides
 TM = Toxics/Metals/Inorganics



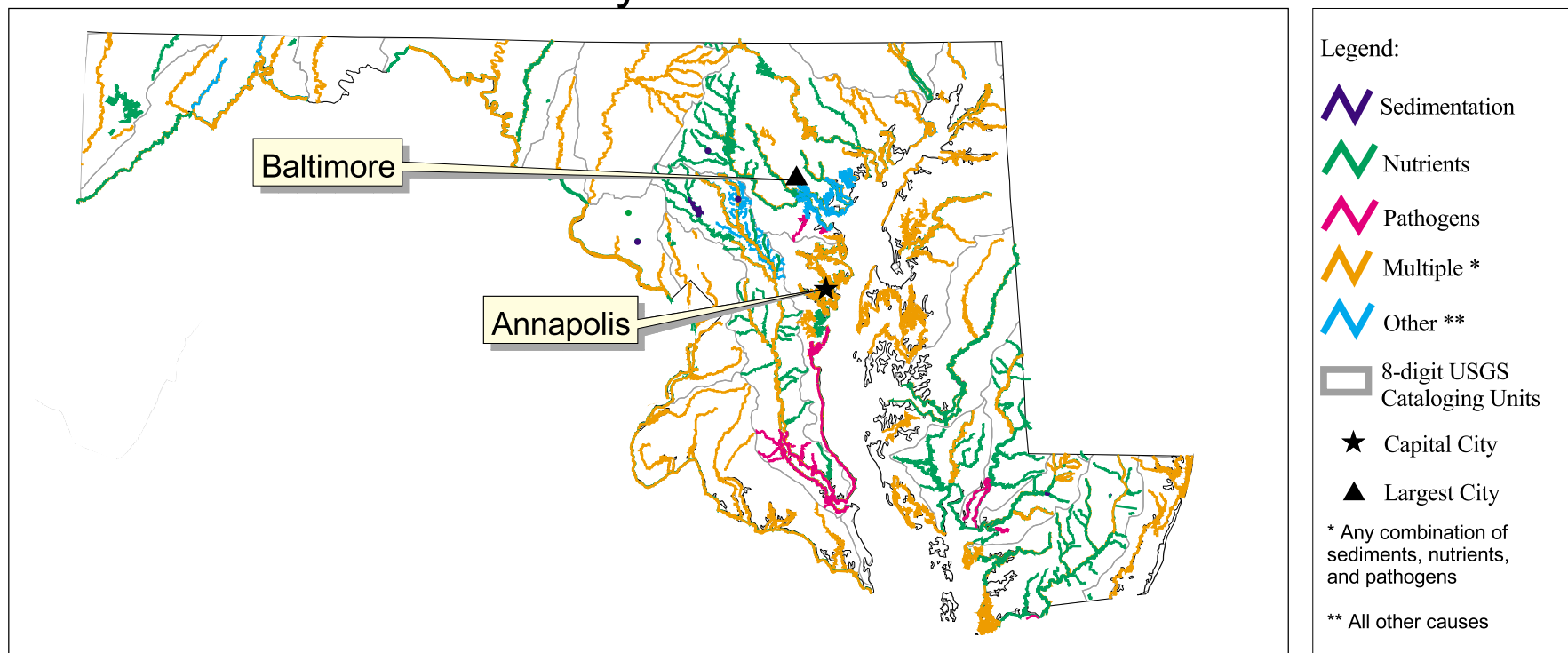
Legend:

- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **
- 8-digit USGS Cataloging Units
- Capital City
- Largest City
- * Any combination of sediments, nutrients, and pathogens
- ** All other causes

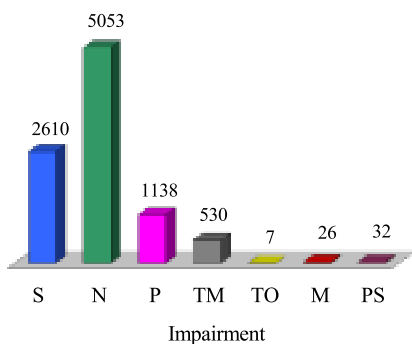
Source: 1998 State 303(d) Lists



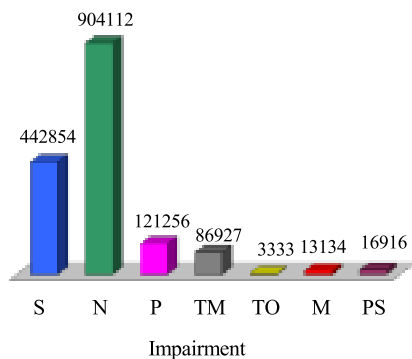
Maryland 1998 Polluted Waters



Impaired Stream/River/Coastal Shoreline Miles



Impaired Lake/Estuary/Wetland Acres

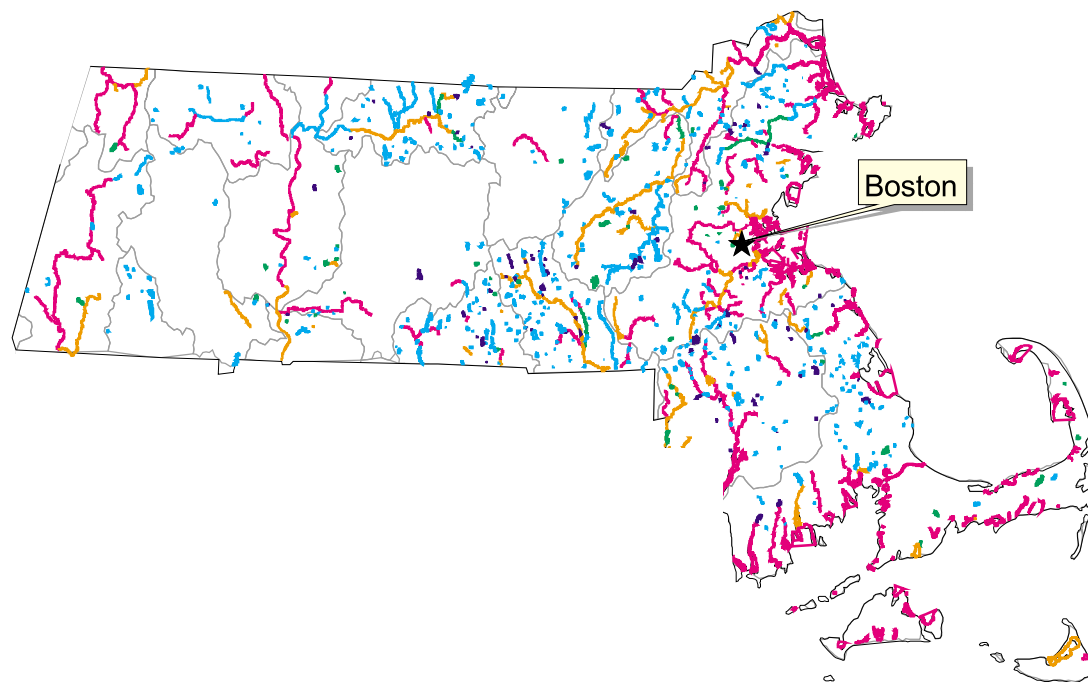


S = Sedimentation
 N = Nutrients
 P = Pathogens
 TM = Toxics/Metals/Inorganics
 TO = Toxics/Organics
 M = Mercury
 PS = Pesticides

Source: 1998 State 303(d) Lists



Massachusetts 1998 Polluted Waters



Legend:

Sedimentation

Nutrients

Pathogens

Multiple *

Other **

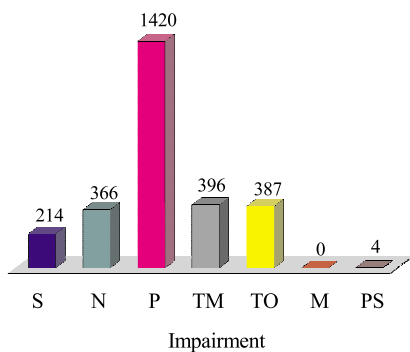
8-digit USGS Cataloging Units

Capital and Largest City

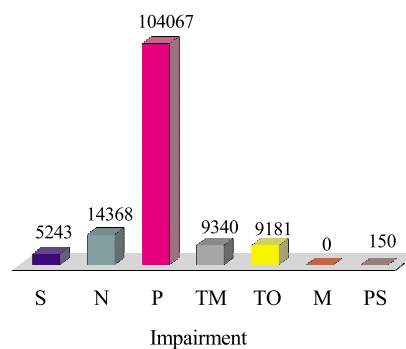
* Any combination of sediments, nutrients, and pathogens

** All other causes

Impaired Stream/River/Coastal Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



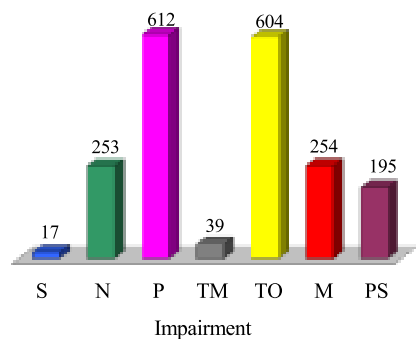
S = Sedimentation
N = Nutrients
P = Pathogens
TM = Toxics/Metals/Inorganics
TO = Toxics/Organics
M = Mercury
PS = Pesticides

Source: 1998 State 303(d) Lists

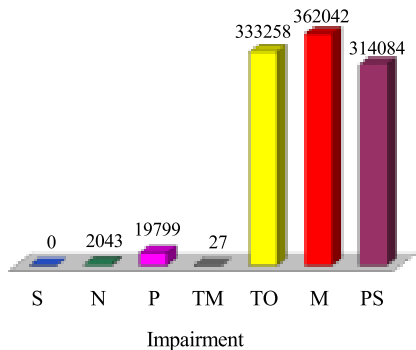


Michigan 1998 Polluted Waters

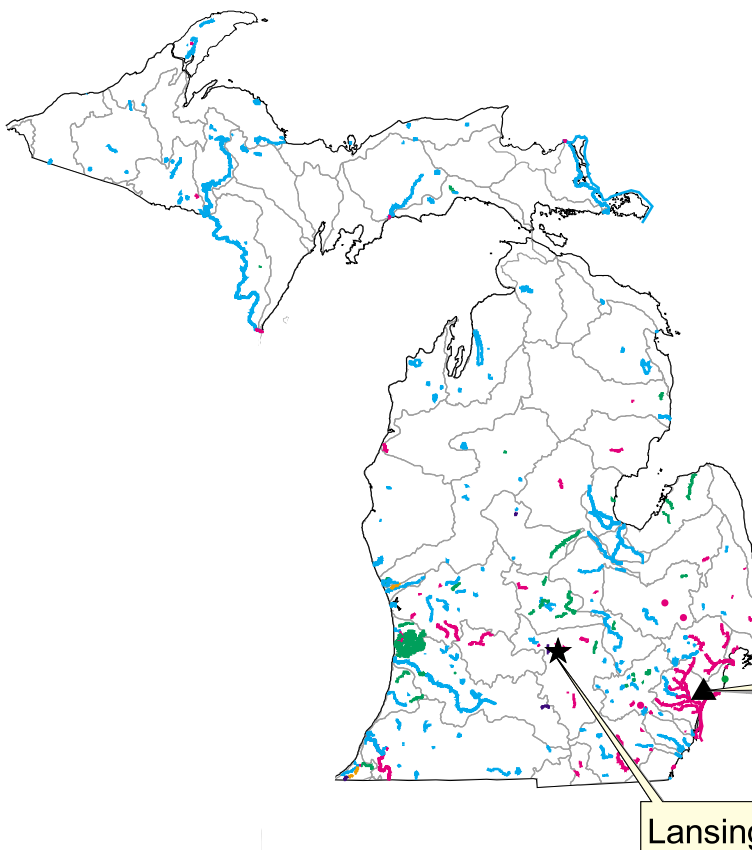
Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
N = Nutrients M = Mercury
P = Pathogens PS = Pesticides
TM = Toxics/Metals/Inorganics



Legend:

- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **

8-digit USGS Cataloging Units

★ Capital City

▲ Largest City

* Any combination of sediments, nutrients, and pathogens

** All other causes

Detroit

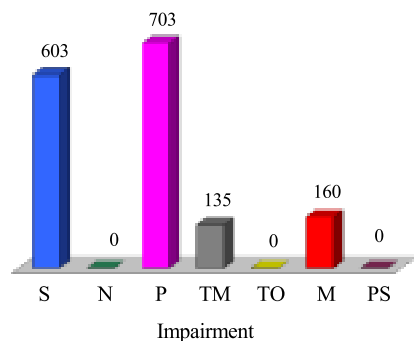
Lansing

Source: 1998 State 303(d) Lists

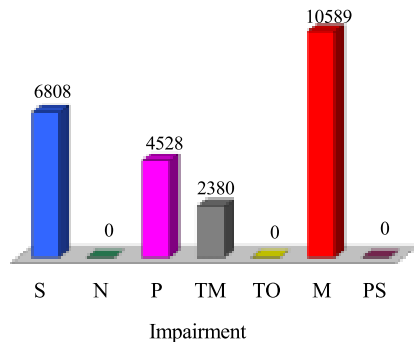


Minnesota 1998 Polluted Waters

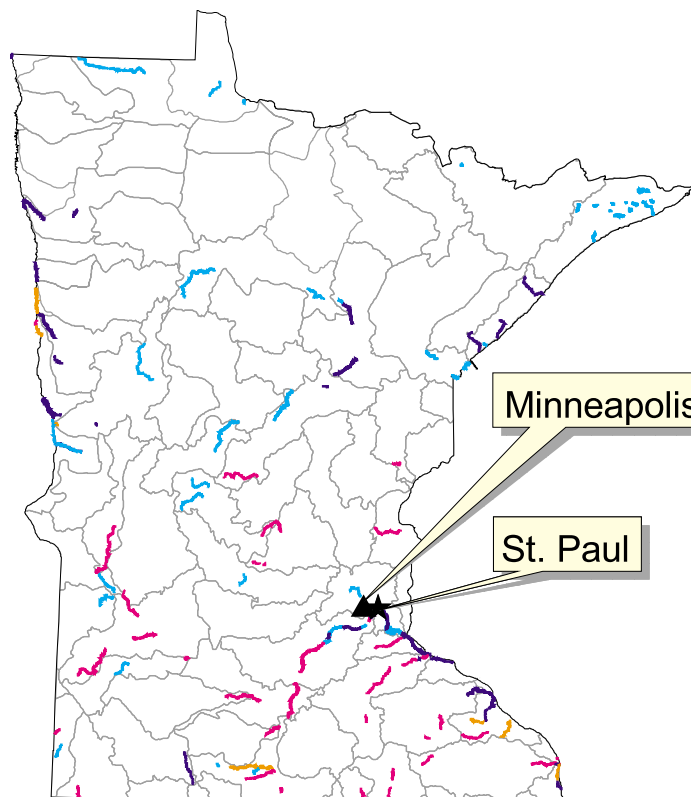
Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
N = Nutrients M = Mercury
P = Pathogens PS = Pesticides
TM = Toxics/Metals/Inorganics



Legend:

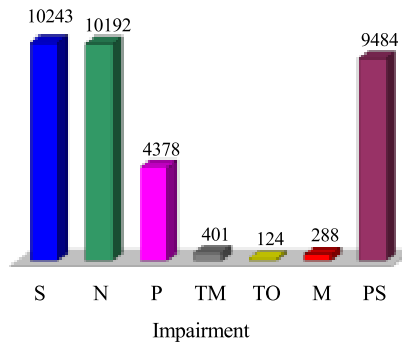
- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **
- 8-digit USGS Cataloging Units
- Capital City
- Largest City
- * Any combination of sediments, nutrients, and pathogens
- ** All other causes

Source: 1998 State 303(d) Lists

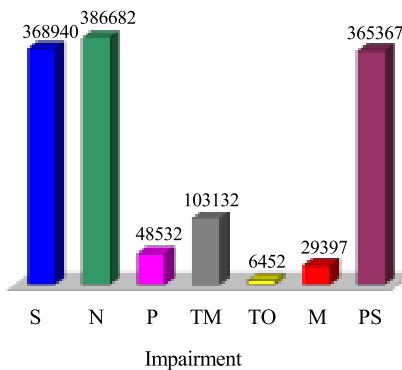


Mississippi 1998 Polluted Waters

Impaired Stream/River/Coastal
Shoreline Miles

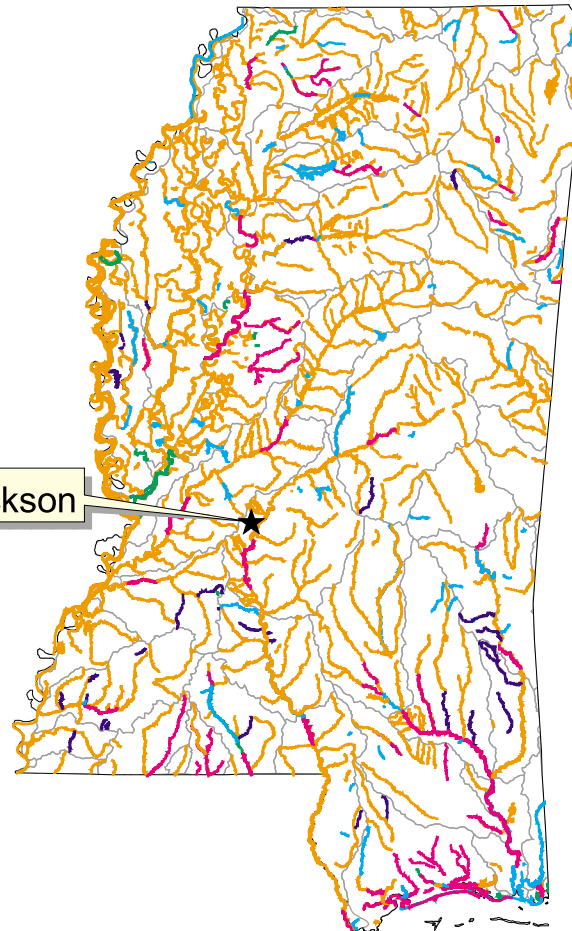


Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
N = Nutrients M = Mercury
P = Pathogens PS = Pesticides
TM = Toxics/Metals/Inorganics

Jackson



Legend:

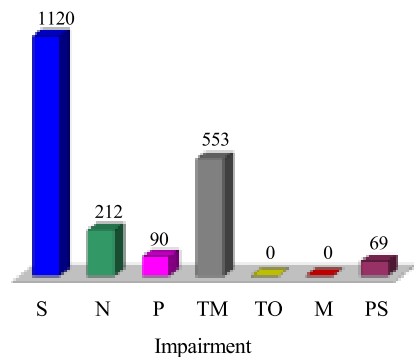
- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **
- 8-digit USGS Cataloging Units
- Capital and Largest City
- * Any combination of sediments, nutrients, and pathogens
- ** All other causes

Source: 1998 State 303(d) Lists

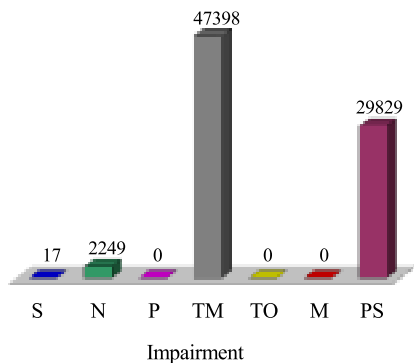


Missouri 1998 Polluted Waters

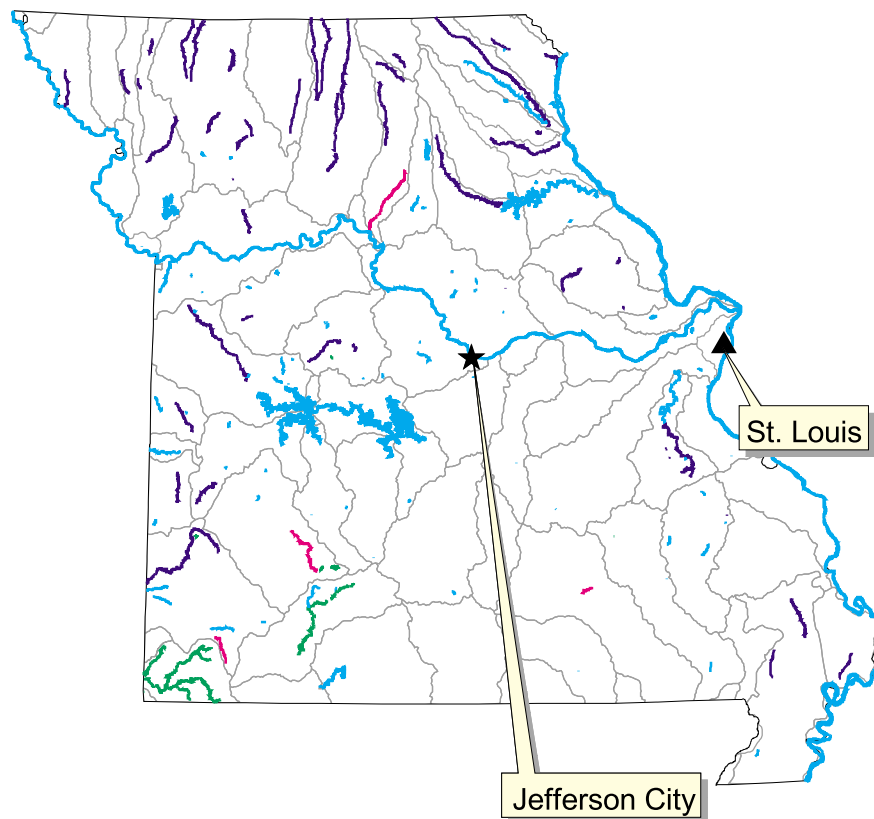
Impaired Stream/River/Coastal Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
 N = Nutrients M = Mercury
 P = Pathogens PS = Pesticides
 TM = Toxics/Metals/Inorganics



Legend:

- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **
- 8-digit USGS Cataloging Units
- Capital City
- Largest City

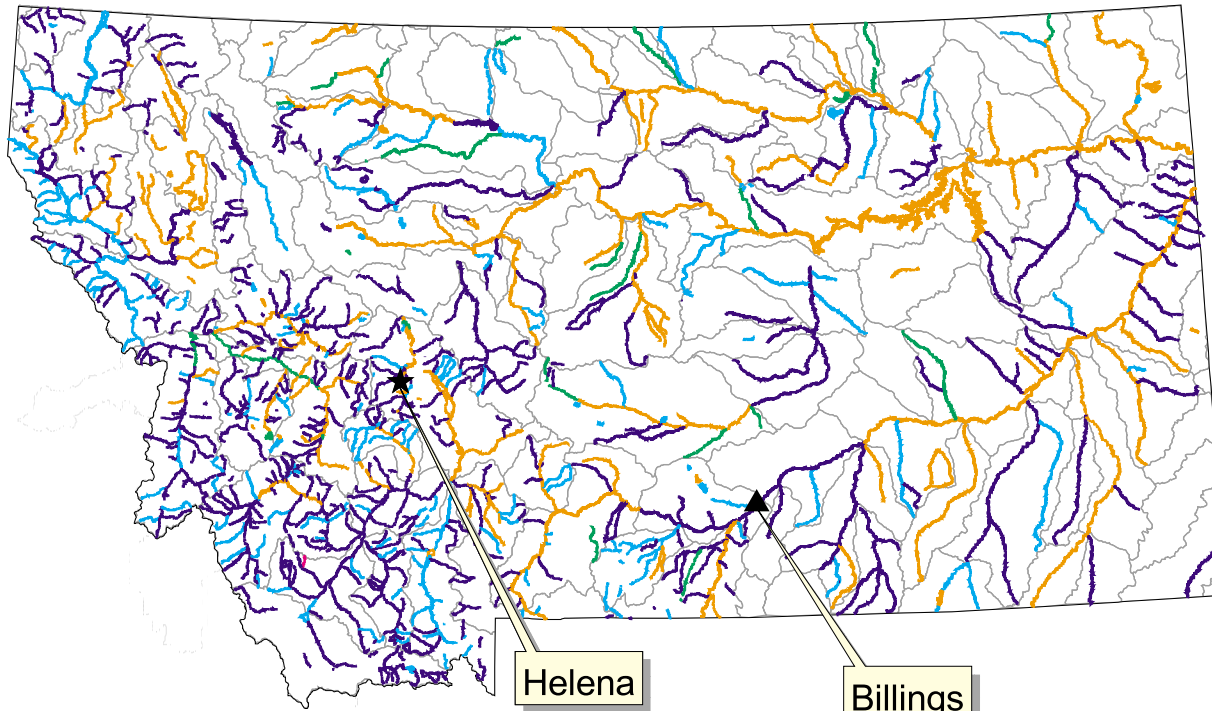
* Any combination of sediments, nutrients, and pathogens

** All other causes

Source: 1998 State 303(d) Lists



Montana 1998 Polluted Waters



Legend:

Sedimentation

Nutrients

Pathogens

Multiple *

Other **

8-digit USGS Cataloging Units

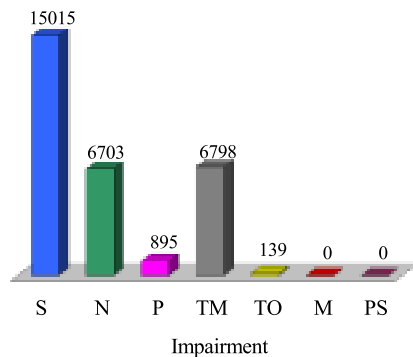
★ Capital City

▲ Largest City

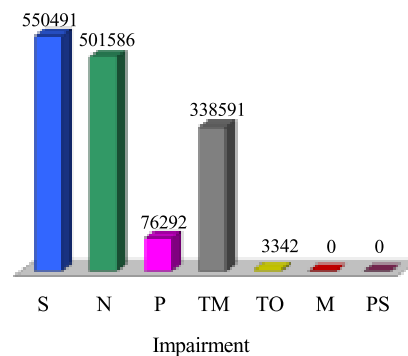
* Any combination of sediments, nutrients, and pathogens

** All other causes

Impaired Stream/River/Coastal Shoreline Miles



Impaired Lake/Estuary/Wetland Acres

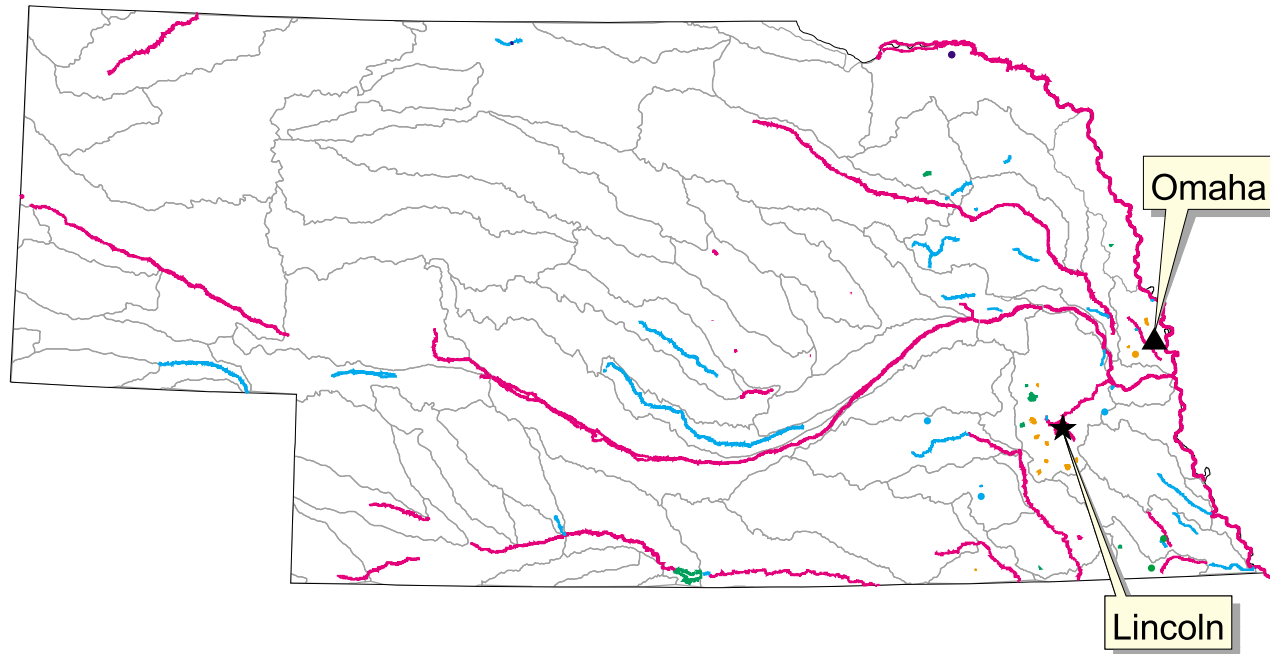


S = Sedimentation
 N = Nutrients
 P = Pathogens
 TM = Toxics/Metals/Inorganics
 TO = Toxics/Organics
 M = Mercury
 PS = Pesticides

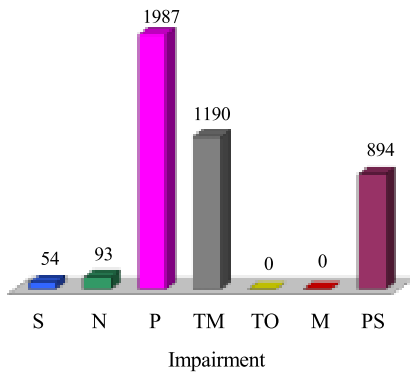
Source: 1998 State 303(d) Lists



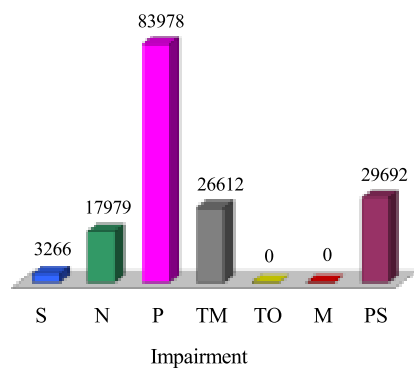
Nebraska 1998 Polluted Waters



Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



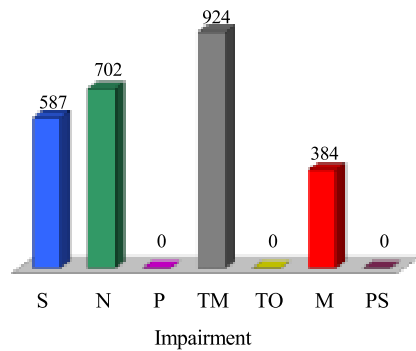
S = Sedimentation
 N = Nutrients
 P = Pathogens
 TM = Toxics/Metals/Inorganics
 TO = Toxics/Organics
 M = Mercury
 PS = Pesticides

Source: 1998 State 303(d) Lists

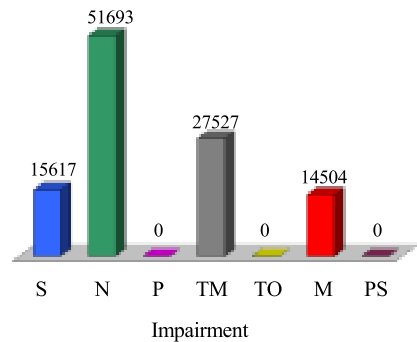


Nevada 1998 Polluted Waters

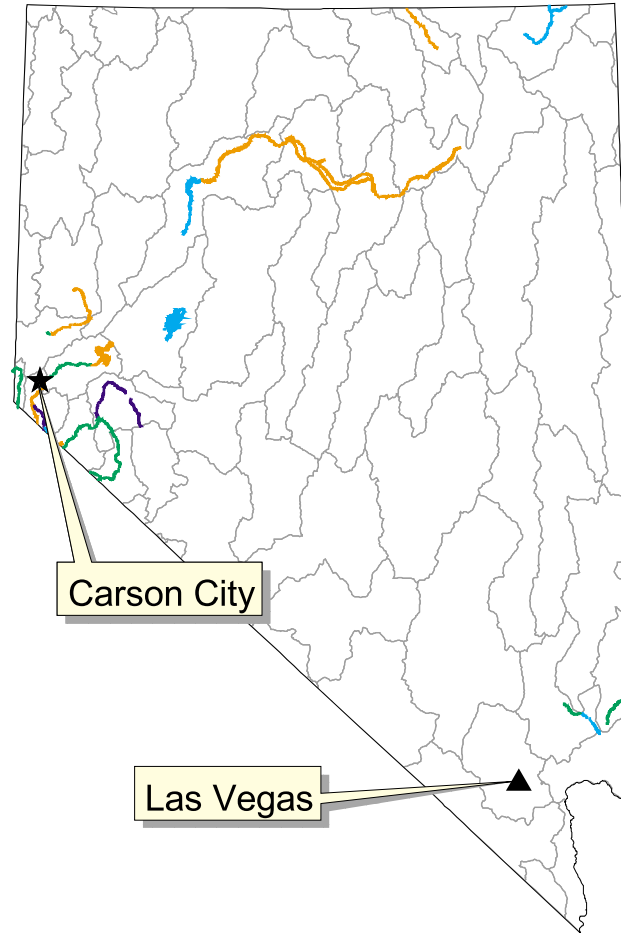
Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
 N = Nutrients M = Mercury
 P = Pathogens PS = Pesticides
 TM = Toxics/Metals/Inorganics



Legend:

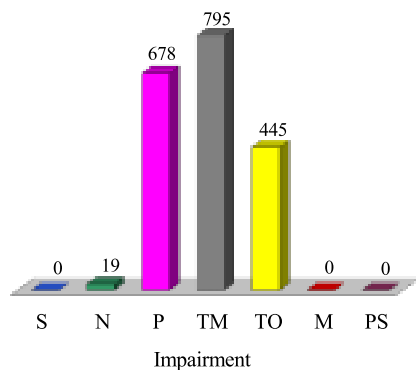
- Sedimentation
 - Nutrients
 - Pathogens
 - Multiple *
 - Other **
 - 8-digit USGS Cataloging Units
 - Capital City
 - Largest City
- * Any combination of sediments, nutrients, and pathogens
 ** All other causes

Source: 1998 State 303(d) Lists

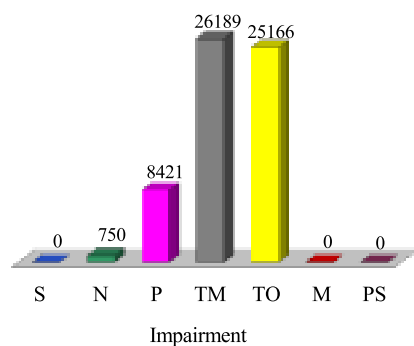


New Hampshire 1998 Polluted Waters

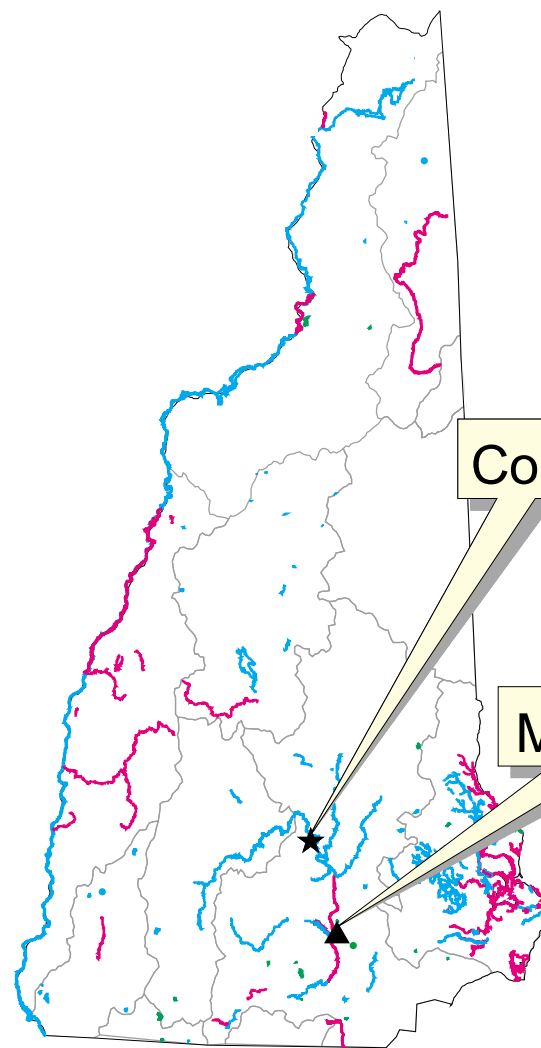
Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation
N = Nutrients
P = Pathogens
TM = Toxics/Metals/Inorganics
TO = Toxics/Organics
M = Mercury
PS = Pesticides



Legend:

- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **

8-digit USGS Cataloging Units

Capital City

Largest City

* Any combination of sediments, nutrients, and pathogens

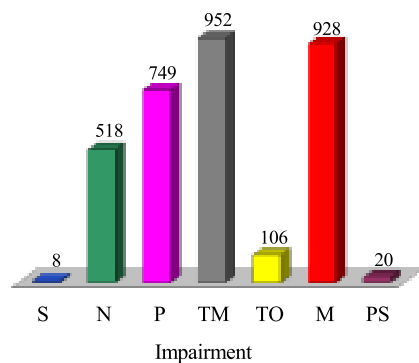
** All other causes

Source: 1998 State 303(d) Lists

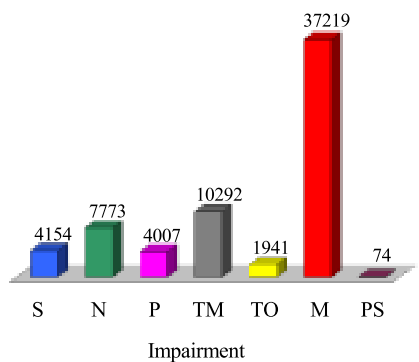


New Jersey 1998 Polluted Waters

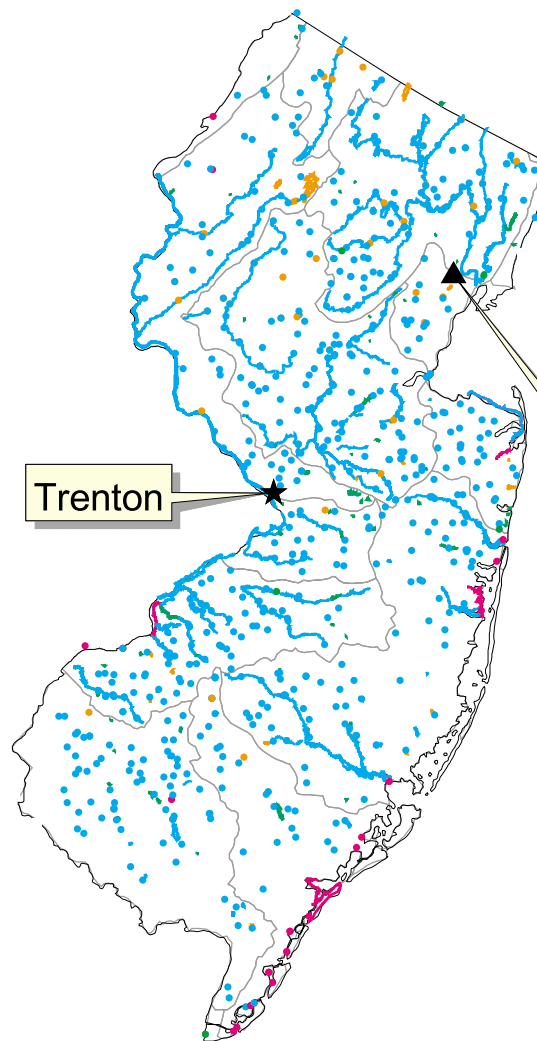
Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
 N = Nutrients M = Mercury
 P = Pathogens PS = Pesticides
 TM = Toxics/Metals/Inorganics



Newark

Trenton

Legend:

Sedimentation

Nutrients

Pathogens

Multiple *

Other **

8-digit USGS Cataloging Units

Capital City

Largest City

* Any combination of sediments, nutrients, and pathogens

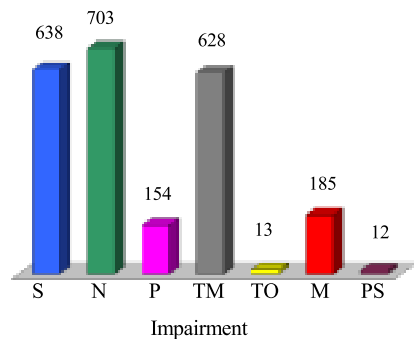
** All other causes

Source: 1998 State 303(d) Lists

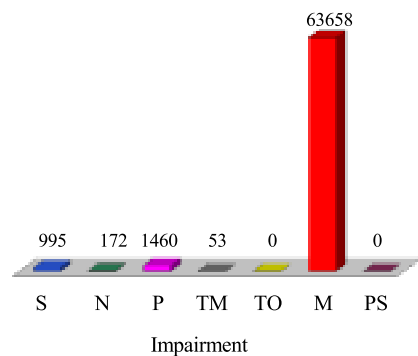


New Mexico 1998 Polluted Waters

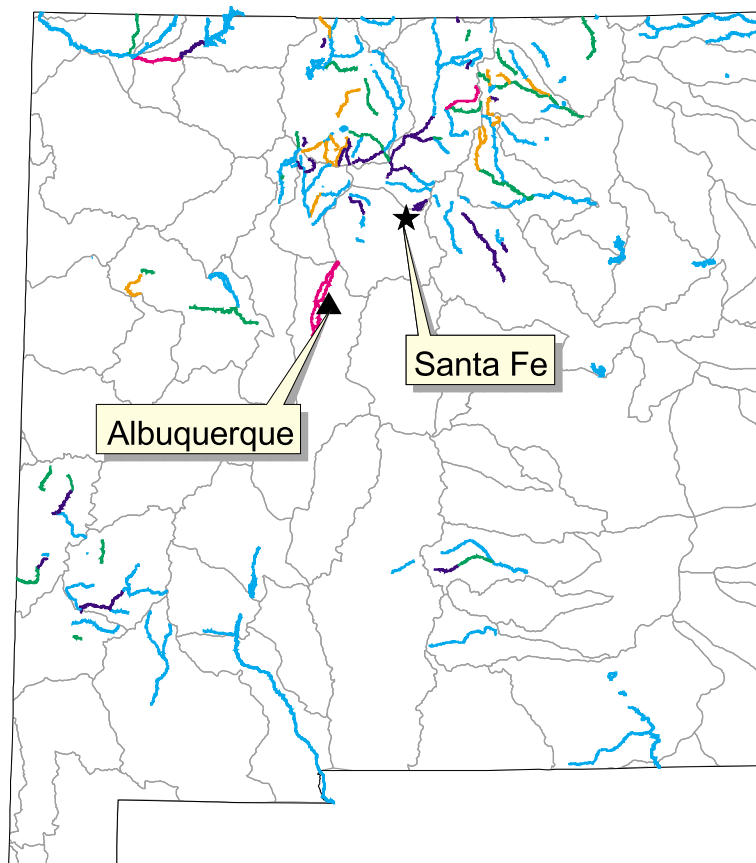
Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
N = Nutrients M = Mercury
P = Pathogens PS = Pesticides
TM = Toxics/Metals/Inorganics



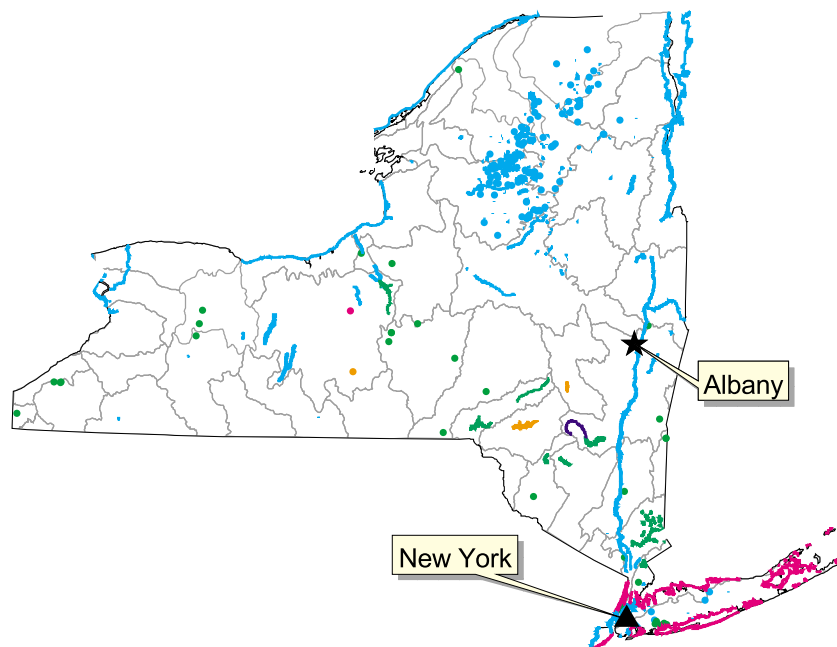
Legend:

- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **
- 8-digit USGS Cataloging Units
- Capital City
- Largest City
- * Any combination of sediments, nutrients, and pathogens
- ** All other causes

Source: 1998 State 303(d) Lists



New York 1998 Polluted Waters



Legend:

Sedimentation

Nutrients

Pathogens

Multiple *

Other **

8-digit USGS Cataloging Units

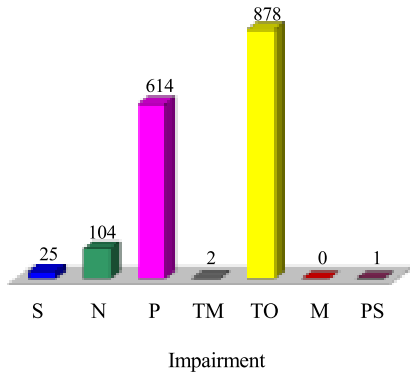
Capital City

Largest City

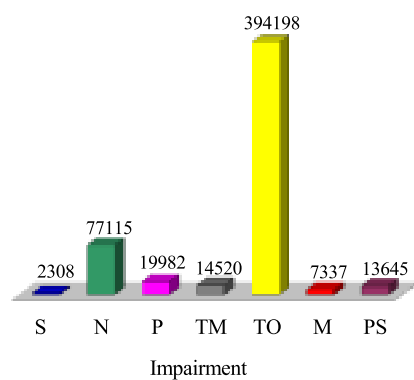
* Any combination of sediments, nutrients, and pathogens

** All other causes

Impaired Stream/River/Coastal Shoreline Miles



Impaired Lake/Estuary/Wetland Acres

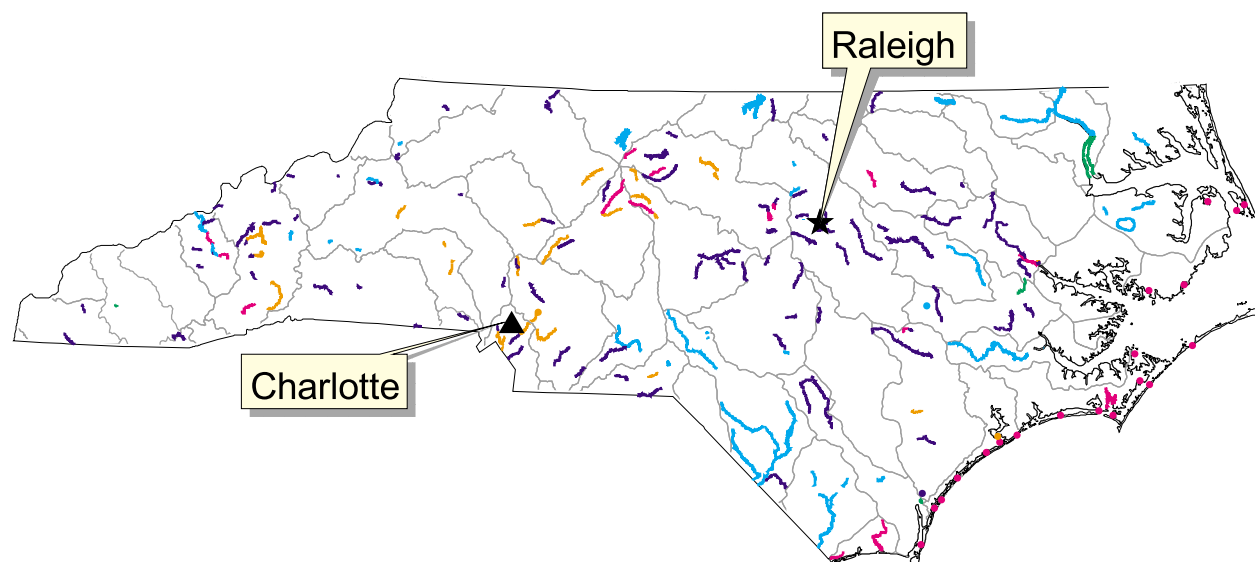


S = Sedimentation
N = Nutrients
P = Pathogens
TM = Toxics/Metals/Inorganics
TO = Toxics/Organics
M = Mercury
PS = Pesticides

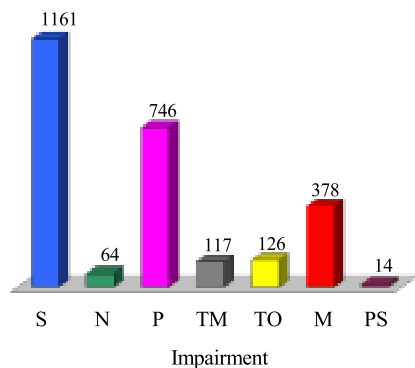
Source: 1998 State 303(d) Lists



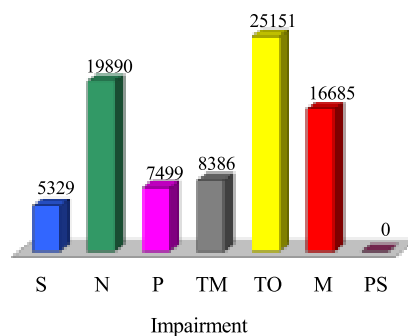
North Carolina 1998 Polluted Waters



Impaired Stream/River/Coastal Shoreline Miles



Impaired Lake/Estuary/Wetland Acres

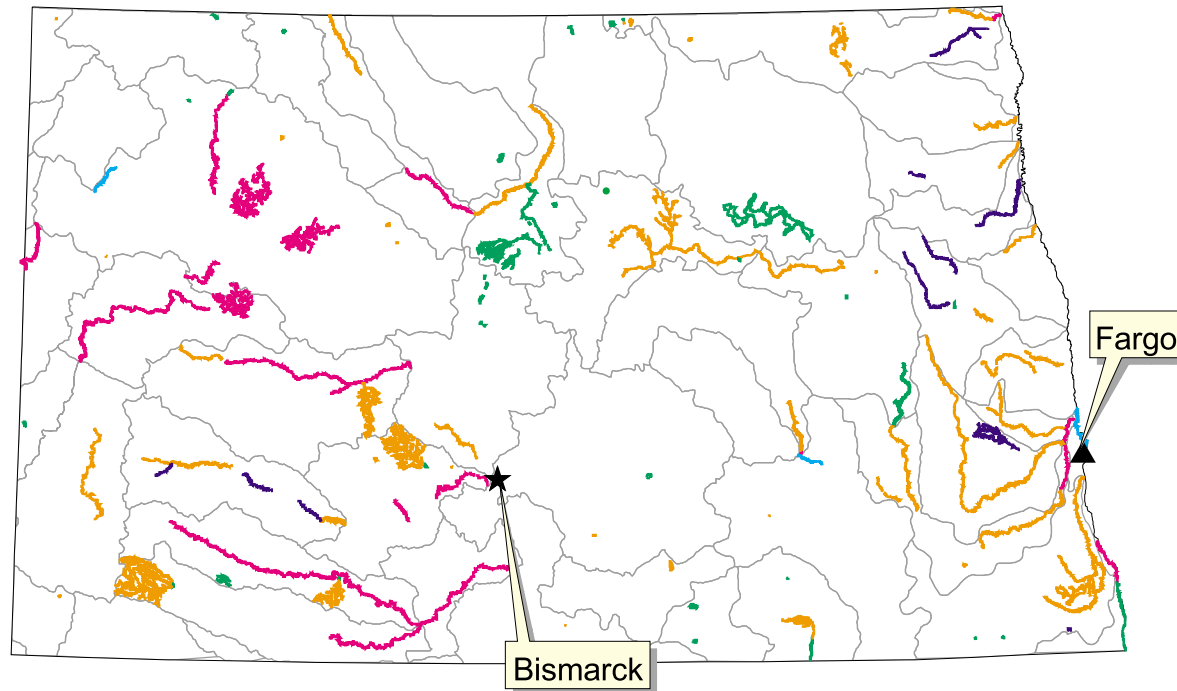


S = Sedimentation
 N = Nutrients
 P = Pathogens
 TM = Toxics/Metals/Inorganics
 TO = Toxics/Organics
 M = Mercury
 PS = Pesticides

Source: 1998 State 303(d) Lists



North Dakota 1998 Polluted Waters



Legend:

- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **

8-digit USGS Cataloging Units

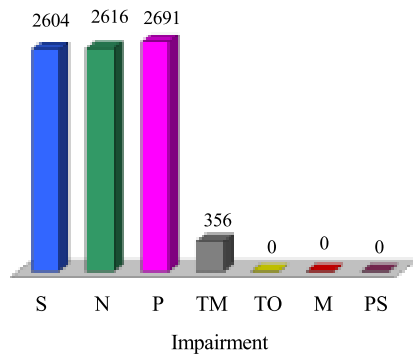
★ Capital City

▲ Largest City

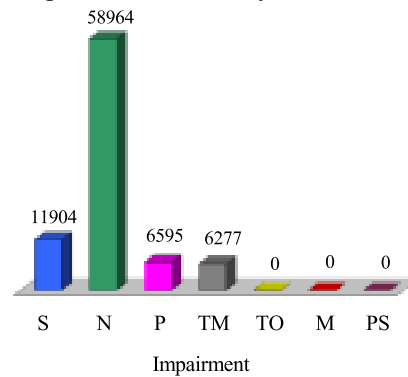
* Any combination of sediments, nutrients, and pathogens

** All other causes

Impaired Stream/River/Coastal Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



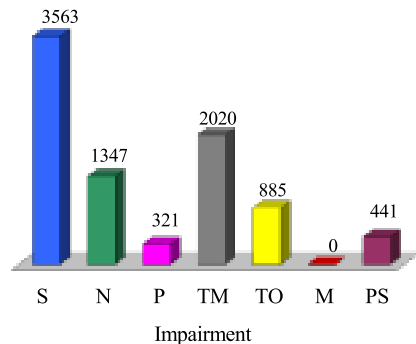
S = Sedimentation
 N = Nutrients
 P = Pathogens
 TM = Toxics/Metals/Inorganics
 TO = Toxics/Organics
 M = Mercury
 PS = Pesticides

Source: 1998 State 303(d) Lists

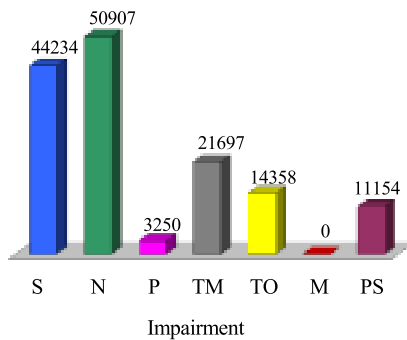


Ohio 1998 Polluted Waters

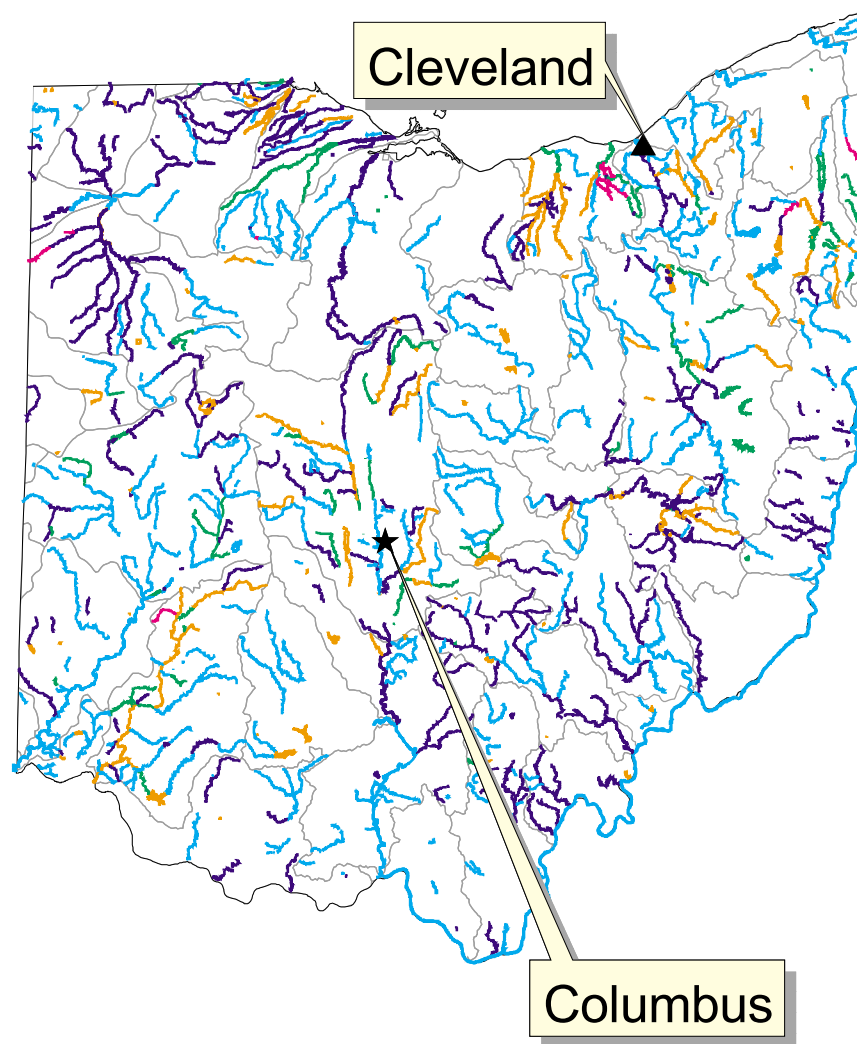
Impaired Stream/River/Coastal Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
 N = Nutrients M = Mercury
 P = Pathogens PS = Pesticides
 TM = Toxics/Metals/Inorganics



Legend:

- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **

8-digit USGS Cataloging Units

Capital City

Largest City

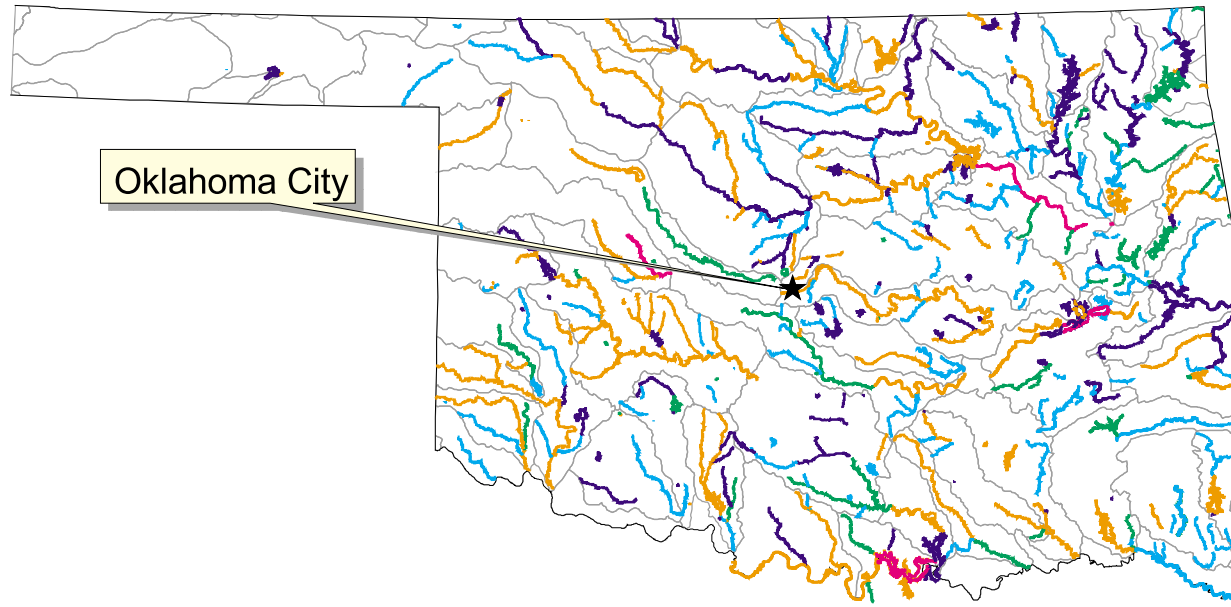
* Any combination of sediments, nutrients, and pathogens

** All other causes

Source: 1998 State 303(d) Lists



Oklahoma 1998 Polluted Waters



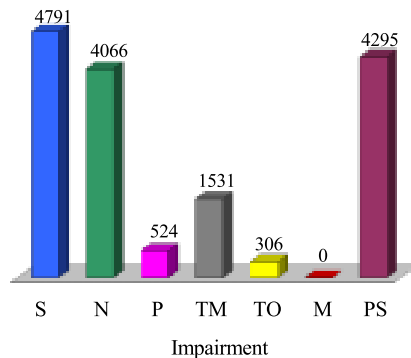
Legend:

- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **
- 8-digit USGS Cataloging Units
- Capital and Largest City

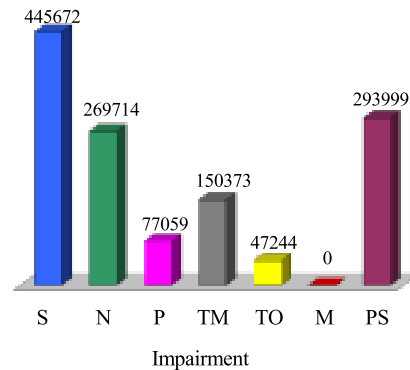
* Any combination of sediments, nutrients, and pathogens

** All other causes

Impaired Stream/River/Coastal Shoreline Miles



Impaired Lake/Estuary/Wetland Acres

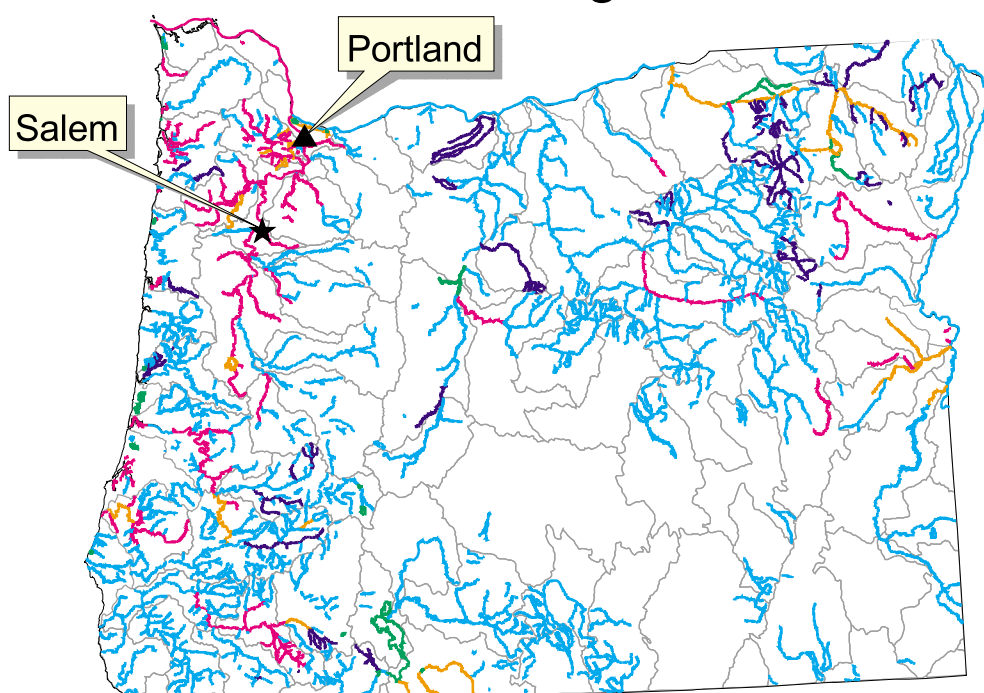


S = Sedimentation
 N = Nutrients
 P = Pathogens
 TM = Toxics/Metals/Inorganics
 TO = Toxics/Organics
 M = Mercury
 PS = Pesticides

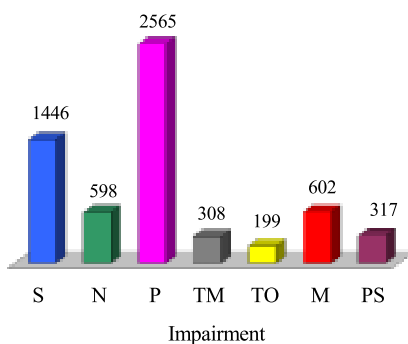
Source: 1998 State 303(d) Lists



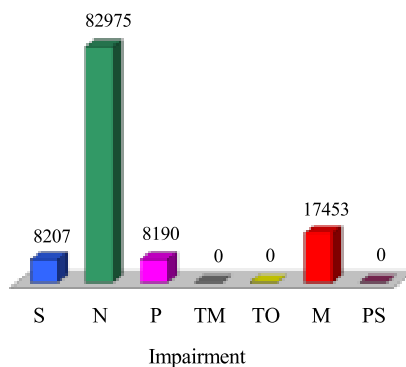
Oregon 1998 Polluted Waters



Impaired Stream/River/Coastal Shoreline Miles



Impaired Lake/Estuary/Wetland Acres

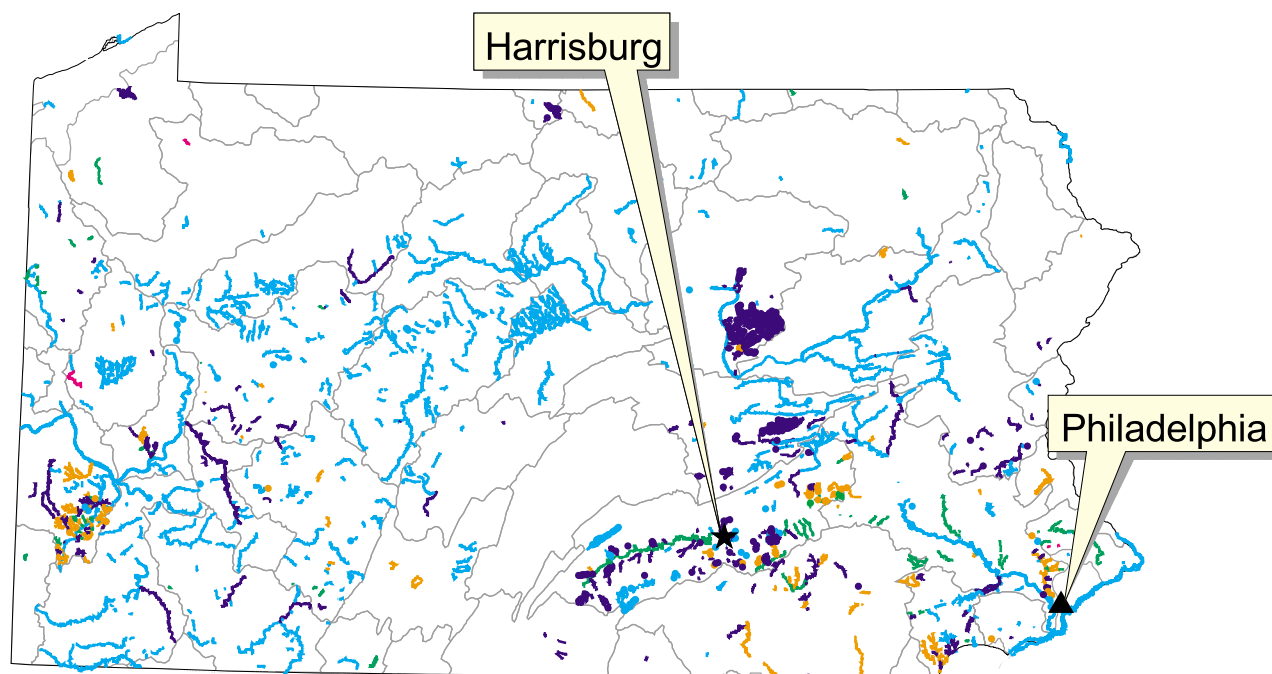


S = Sedimentation
 N = Nutrients
 P = Pathogens
 TM = Toxics/Metals/Inorganics
 TO = Toxics/Organics
 M = Mercury
 PS = Pesticides

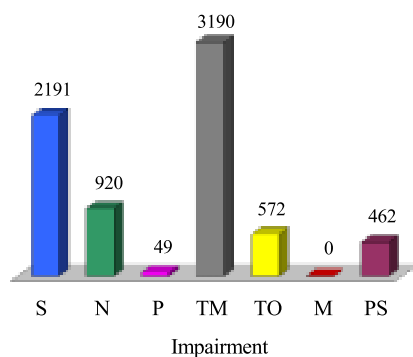
Source: 1998 State 303(d) Lists



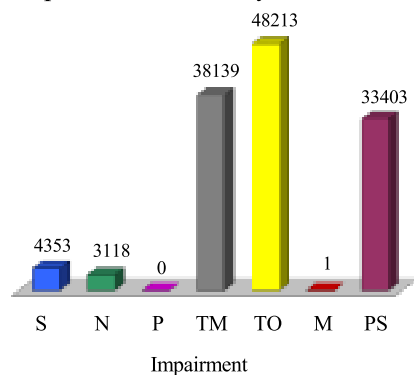
Pennsylvania 1998 Polluted Waters



Impaired Stream/River/Coastal Shoreline Miles



Impaired Lake/Estuary/Wetland Acres

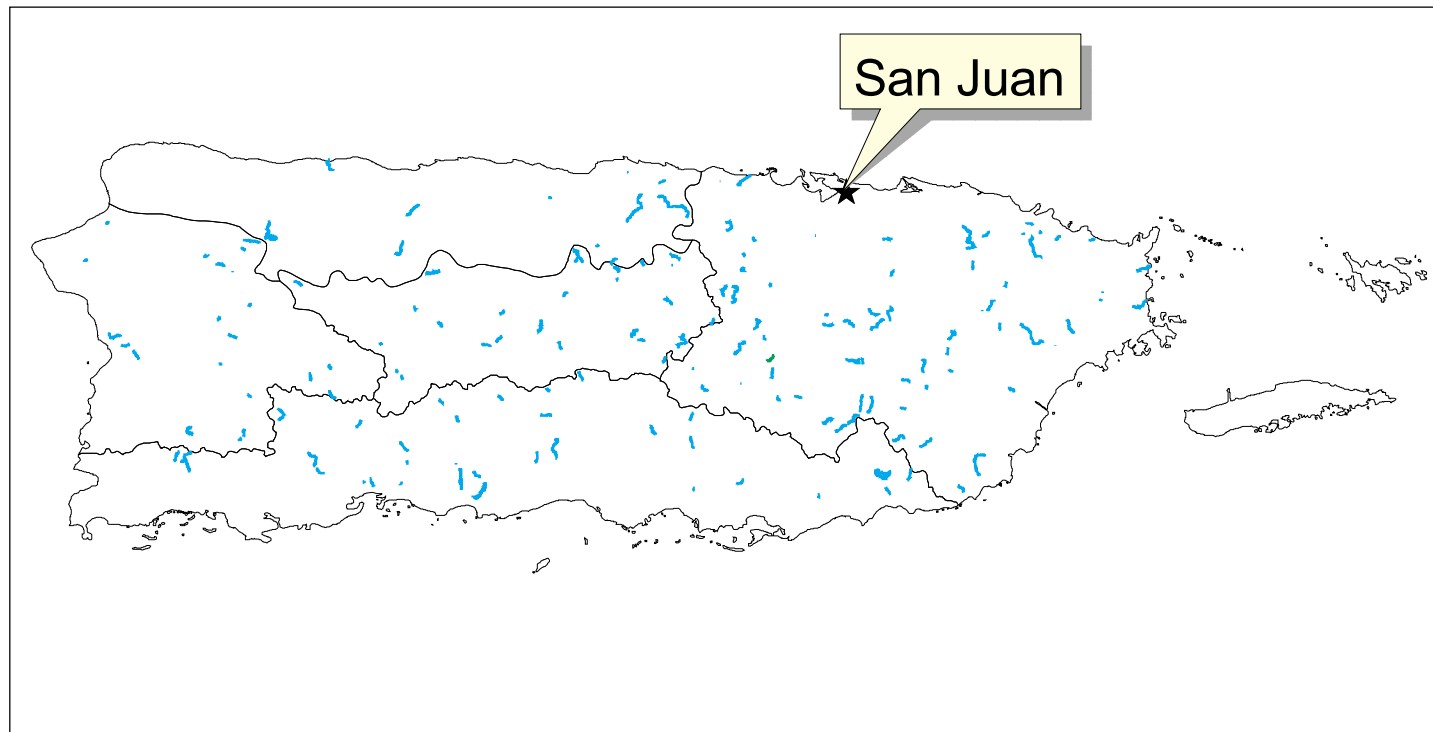


S = Sedimentation
 N = Nutrients
 P = Pathogens
 TM = Toxics/Metals/Inorganics
 TO = Toxics/Organics
 M = Mercury
 PS = Pesticides

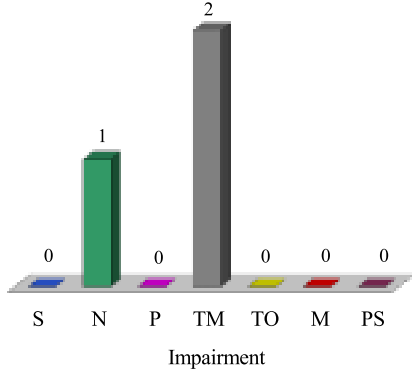
Source: 1998 State 303(d) Lists



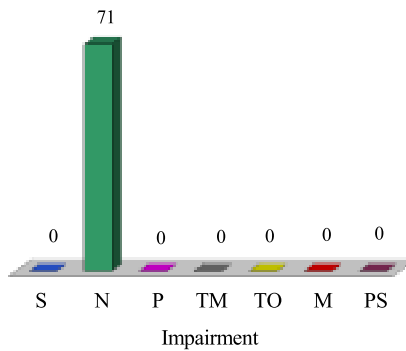
Puerto Rico 1998 Polluted Waters



Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



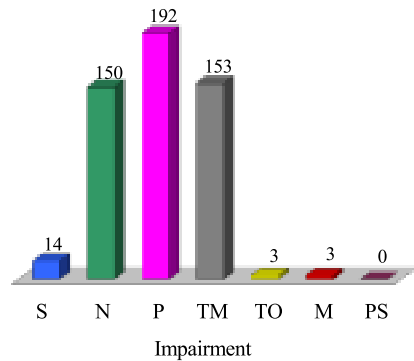
S = Sedimentation
 N = Nutrients
 P = Pathogens
 TM = Toxics/Metals/Inorganics
 TO = Toxics/Organics
 M = Mercury
 PS = Pesticides

Source: 1998 State 303(d) Lists

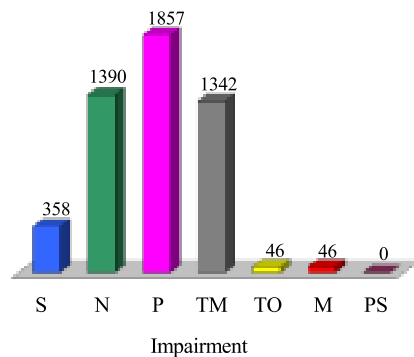


Rhode Island 1998 Polluted Waters

Impaired Stream/River/Coastal
Shoreline Miles

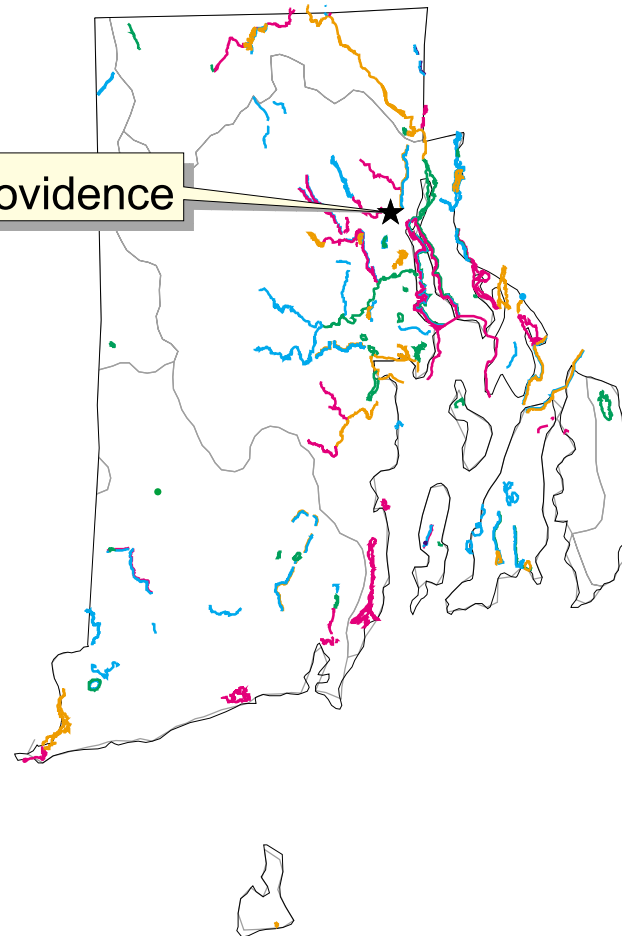


Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
 N = Nutrients M = Mercury
 P = Pathogens PS = Pesticides
 TM = Toxics/Metals/Inorganics

Providence



Legend:

- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **

8-digit USGS Cataloging Units

Capital and Largest City

* Any combination of sediments, nutrients, and pathogens

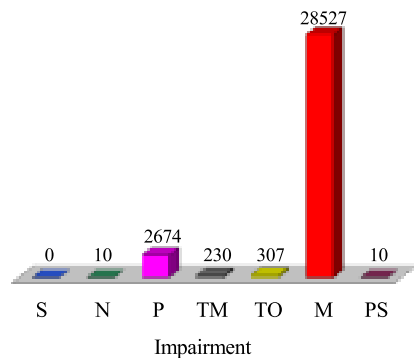
** All other causes

Source: 1998 State 303(d) Lists

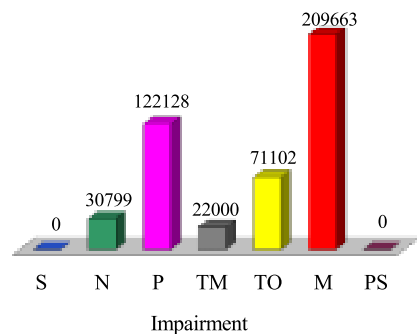


South Carolina 1998 Polluted Waters

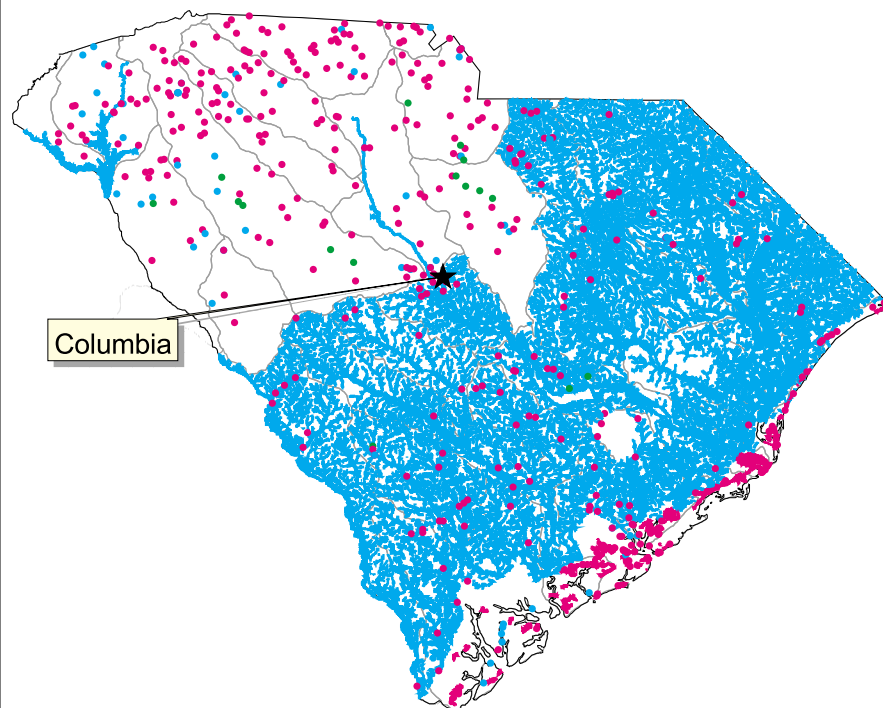
Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
 N = Nutrients M = Mercury
 P = Pathogens PS = Pesticides
 TM = Toxics/Metals/Inorganics



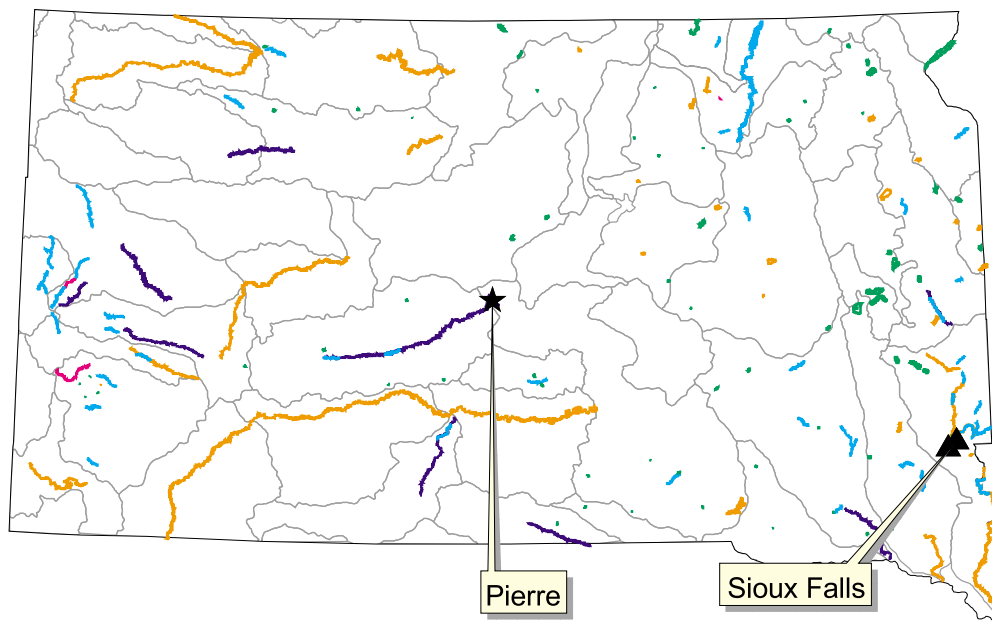
Legend:

- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **
- 8-digit USGS Cataloging Units
- Capital and Largest City
- * Any combination of sediments, nutrients, and pathogens
- ** All other causes

Source: 1998 State 303(d) Lists



South Dakota 1998 Polluted Waters



Legend:

Sedimentation

Nutrients

Pathogens

Multiple *

Other **

8-digit USGS Cataloging Units

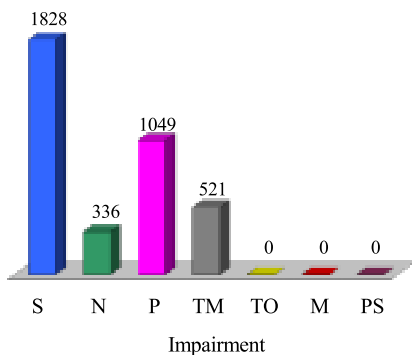
Capital City

Largest City

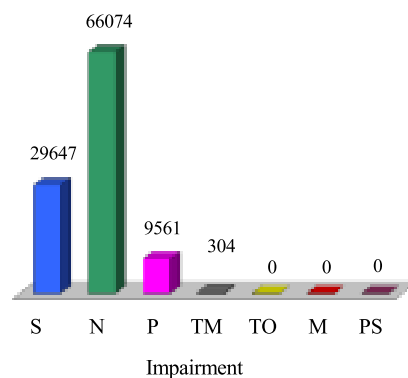
* Any combination of sediments, nutrients, and pathogens

** All other causes

Impaired Stream/River/Coastal Shoreline Miles



Impaired Lake/Estuary/Wetland Acres

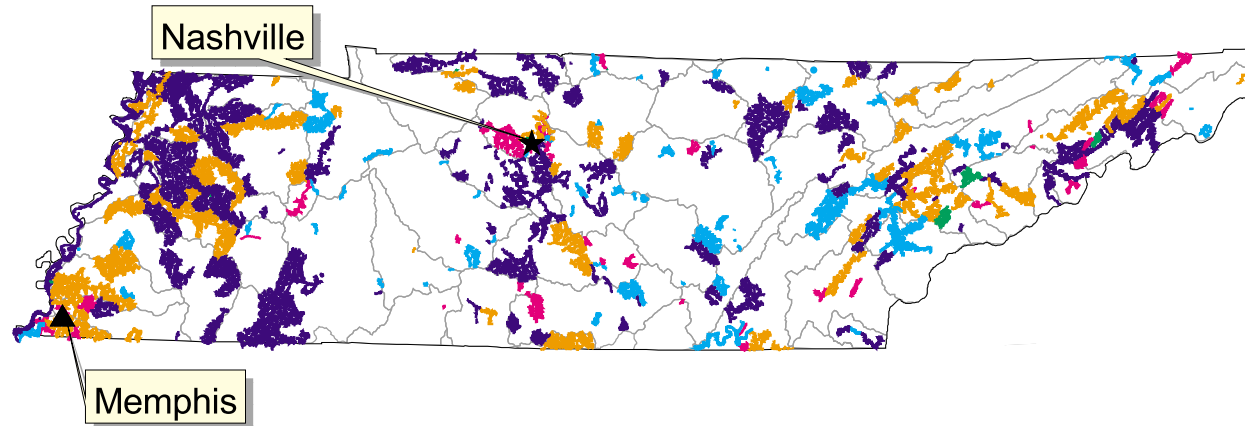


S = Sedimentation
N = Nutrients
P = Pathogens
TM = Toxics/Metals/Inorganics
TO = Toxics/Organics
M = Mercury
PS = Pesticides

Source: 1998 State 303(d) Lists



Tennessee 1998 Polluted Waters



Legend:

Sedimentation

Nutrients

Pathogens

Multiple *

Other **

8-digit USGS Cataloging Units

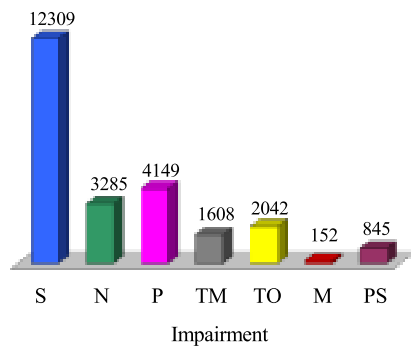
★ Capital City

▲ Largest City

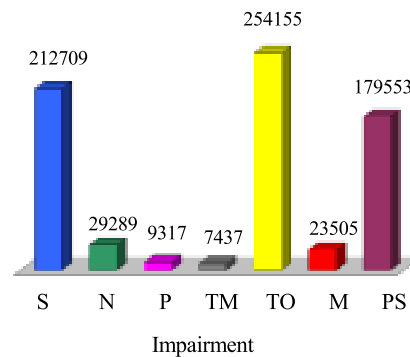
* Any combination of sediments, nutrients, and pathogens

** All other causes

Impaired Stream/River/Coastal Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



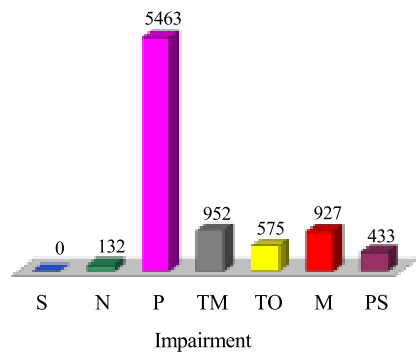
S = Sedimentation
 N = Nutrients
 P = Pathogens
 TM = Toxics/Metals/Inorganics
 TO = Toxics/Organics
 M = Mercury
 PS = Pesticides

Source: 1998 State 303(d) Lists

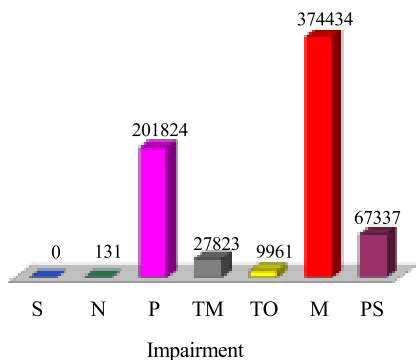


Texas 1998 Polluted Waters

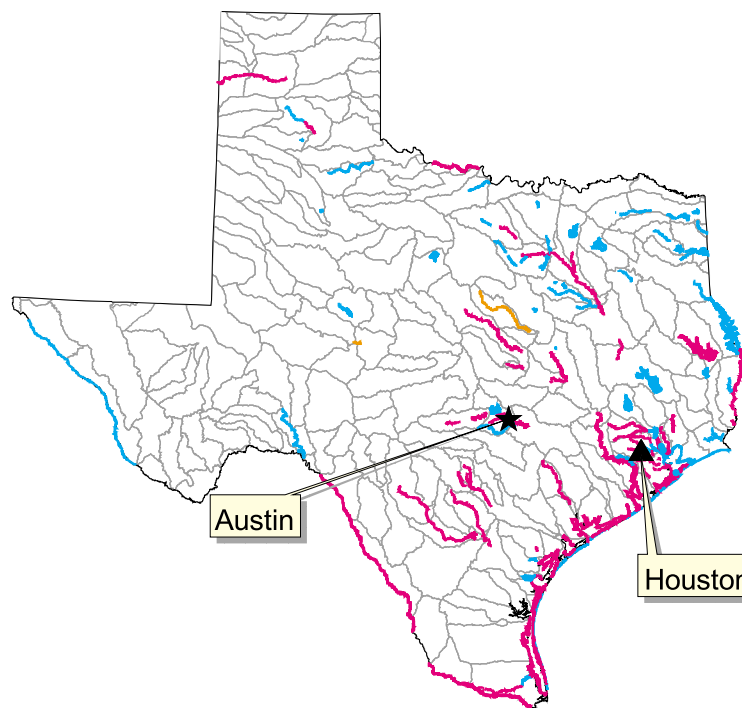
Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
 N = Nutrients M = Mercury
 P = Pathogens PS = Pesticides
 TM = Toxics/Metals/Inorganics



Legend:

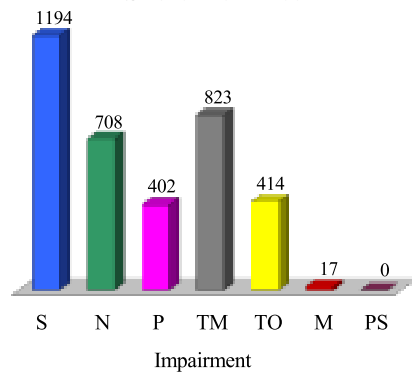
- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **
- 8-digit USGS Cataloging Units
- Capital City
- Largest City
- * Any combination of sediments, nutrients, and pathogens
- ** All other causes

Source: 1998 State 303(d) Lists

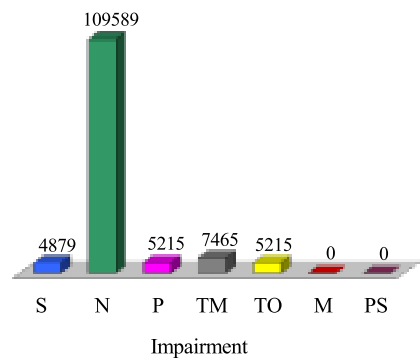


Utah 1998 Polluted Waters

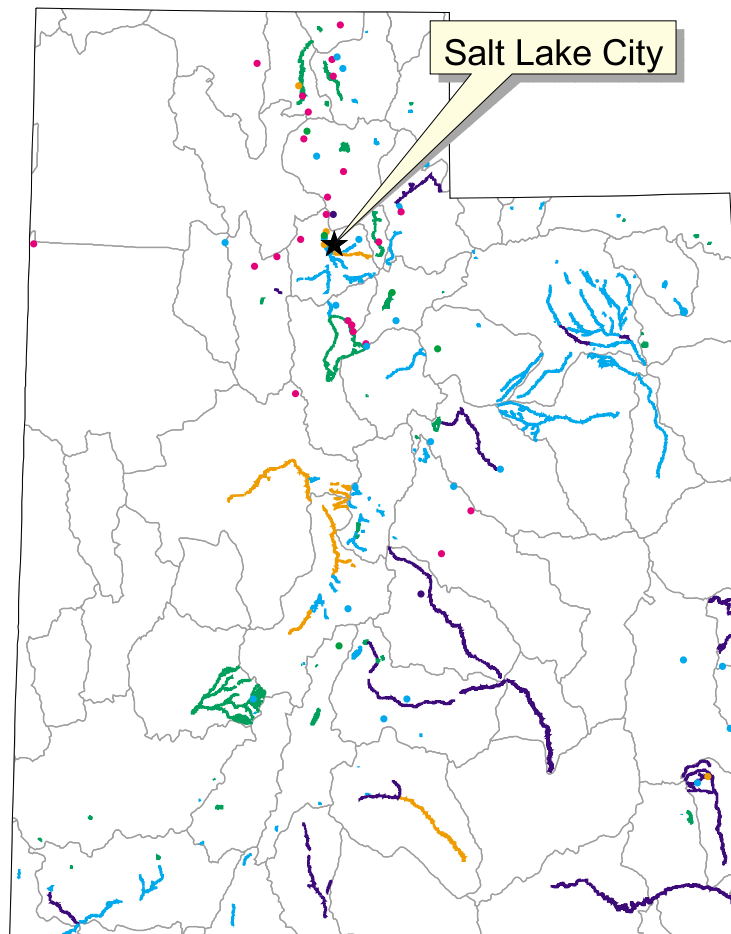
Impaired Stream/River/Coastal Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
 N = Nutrients M = Mercury
 P = Pathogens PS = Pesticides
 TM = Toxics/Metals/Inorganics



Legend:

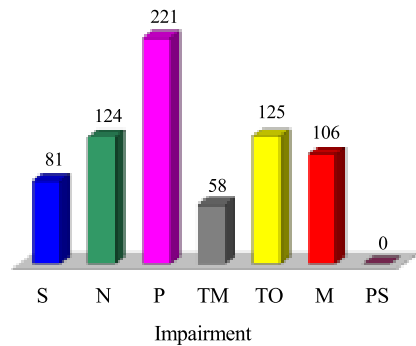
- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **
- 8-digit USGS Cataloging Units
- Capital and Largest City
- * Any combination of sediments, nutrients, and pathogens
- ** All other causes

Source: 1998 State 303(d) Lists

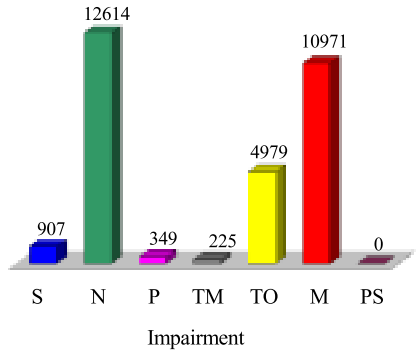


Vermont 1998 Polluted Waters

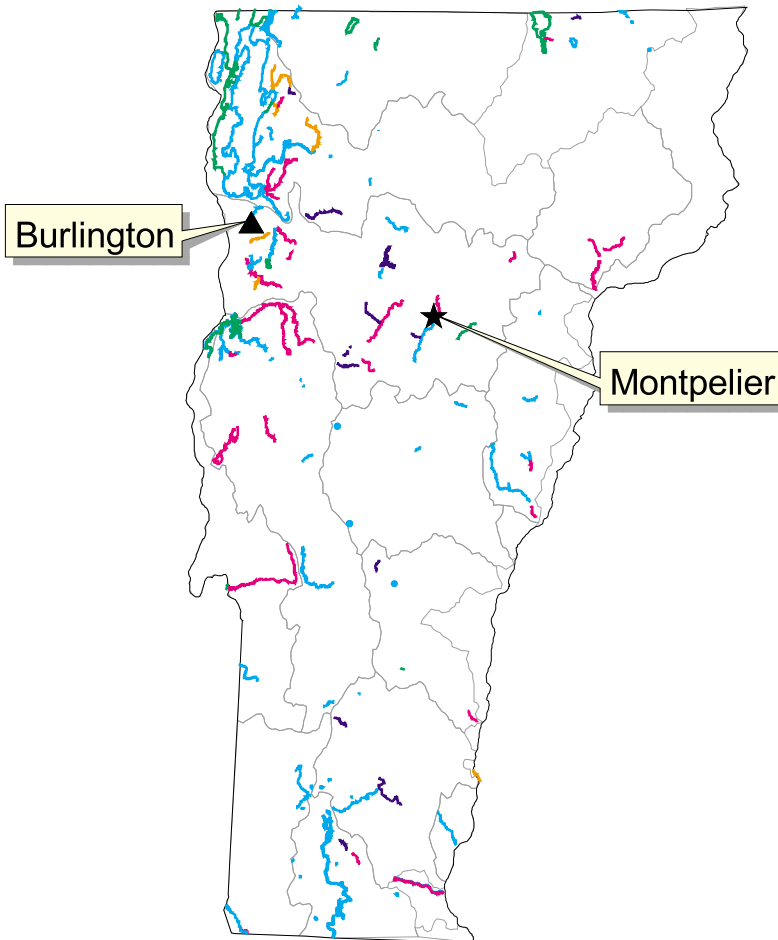
Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
 N = Nutrients M = Mercury
 P = Pathogens PS = Pesticides
 TM = Toxics/Metals/Inorganics



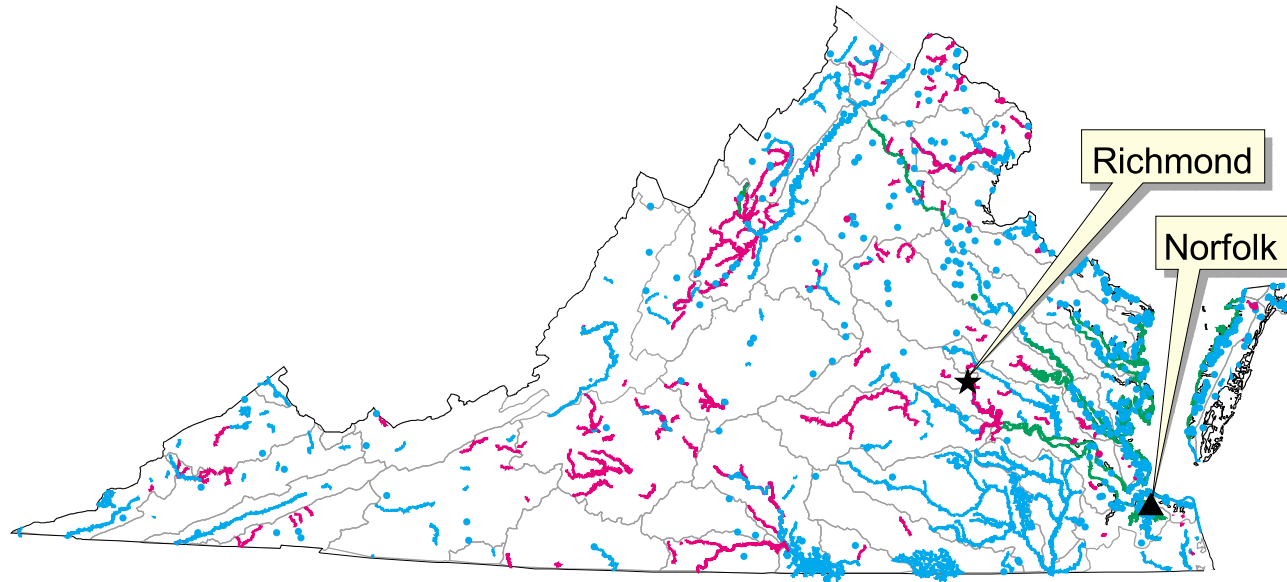
Legend:

- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **
- 8-digit USGS Cataloging Units
- Capital City
- Largest City
- * Any combination of sediments, nutrients, and pathogens
- ** All other causes

Source: 1998 State 303(d) Lists



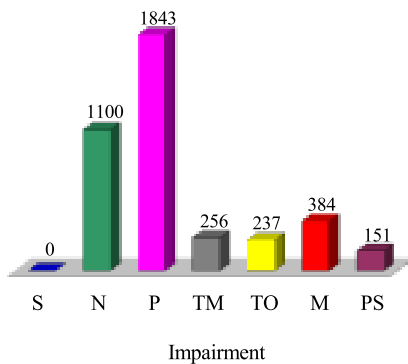
Virginia 1998 Polluted Waters



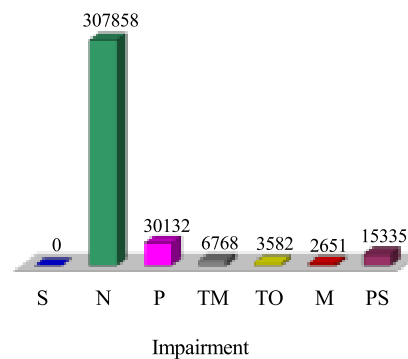
Legend:

- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **
- 8-digit USGS Cataloging Units
- Capital City
- Largest City
- * Any combination of sediments, nutrients, and pathogens
- ** All other causes

Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



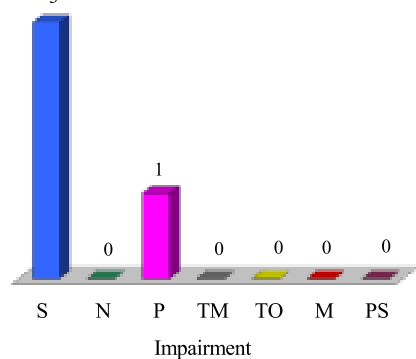
S = Sedimentation
N = Nutrients
P = Pathogens
TM = Toxics/Metals/Inorganics
TO = Toxics/Organics
M = Mercury
PS = Pesticides

Source: 1998 State 303(d) Lists

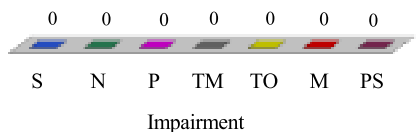


U.S. Virgin Islands 1998 Polluted Waters

Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
N = Nutrients M = Mercury
P = Pathogens PS = Pesticides
TM = Toxics/Metals/Inorganics

Charlotte Amalie



Legend:

Sedimentation

Nutrients

Pathogens

Multiple *

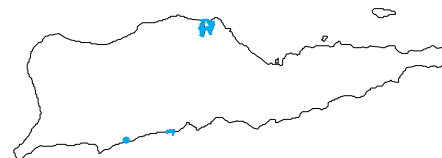
Other **

8-digit USGS Cataloging Units

Capital and Largest City

* Any combination of sediments, nutrients, and pathogens

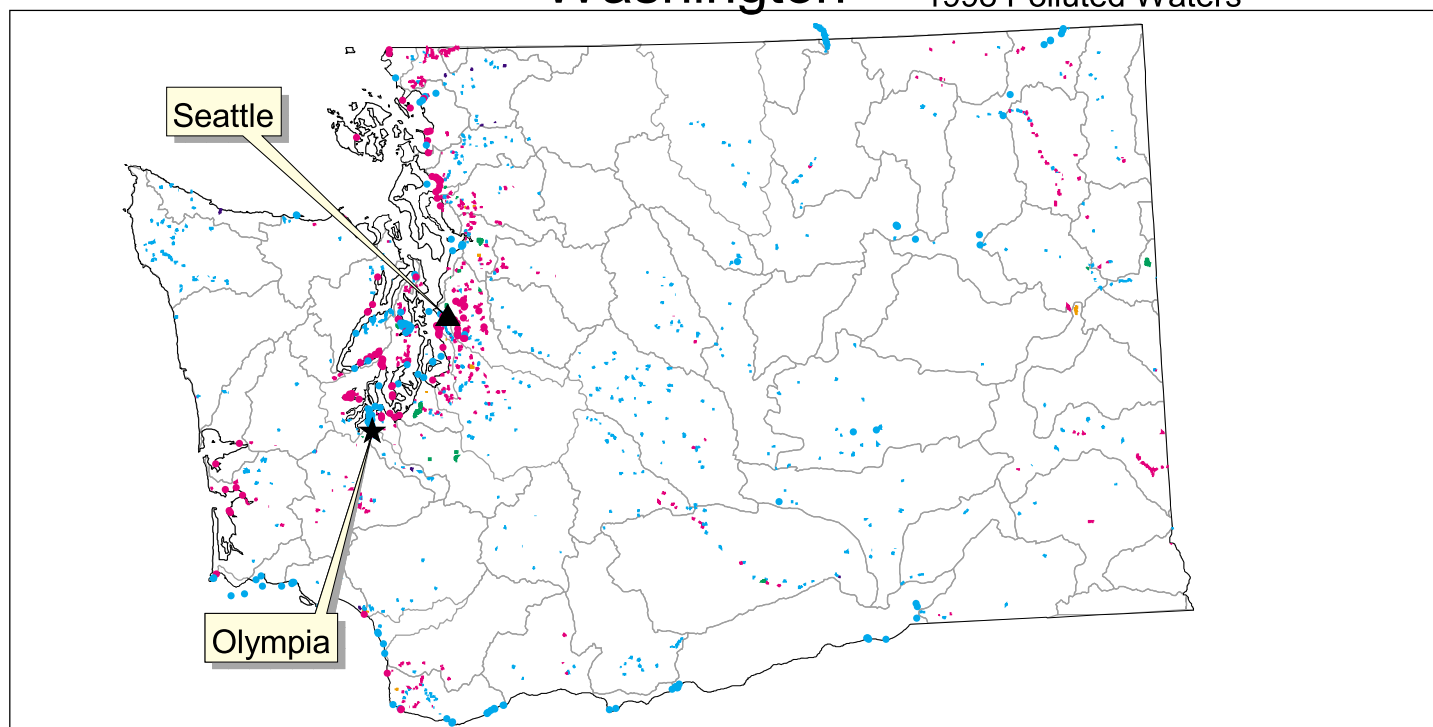
** All other causes



Source: 1998 State 303(d) Lists

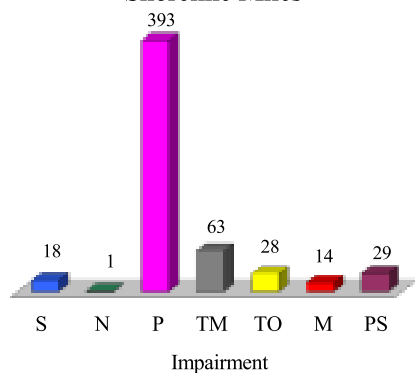


Washington 1998 Polluted Waters

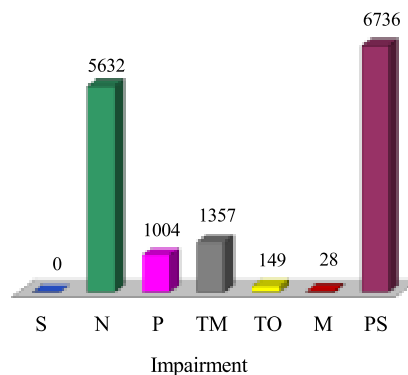


- Legend:
- Sedimentation
 - Nutrients
 - Pathogens
 - Multiple *
 - Other **
 - 8-digit USGS Cataloging Units
 - Capital City
 - Largest City
- * Any combination of sediments, nutrients, and pathogens
- ** All other causes

Impaired Stream/River/Coastal
Shoreline Miles



Impaired Lake/Estuary/Wetland Acres

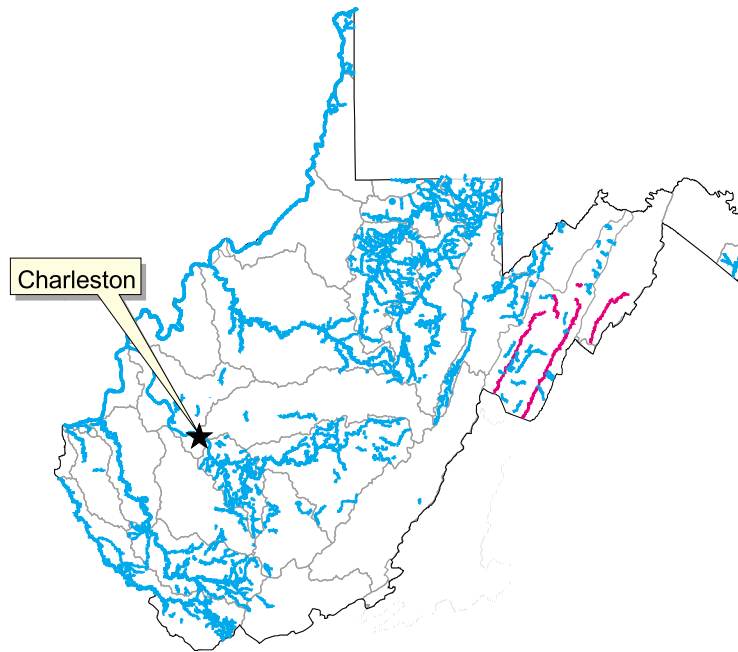


S = Sedimentation
 N = Nutrients
 P = Pathogens
 TM = Toxics/Metals/Inorganics
 TO = Toxics/Organics
 M = Mercury
 PS = Pesticides

Source: 1998 State 303(d) Lists



West Virginia 1998 Polluted Waters



Legend:

Sedimentation

Nutrients

Pathogens

Multiple *

Other **

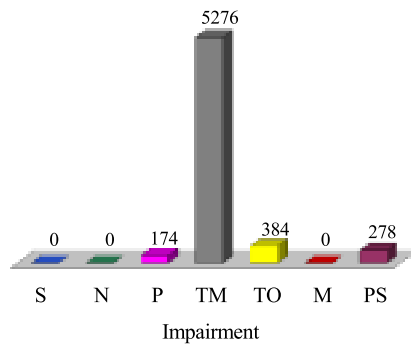
8-digit USGS Cataloging Units

Capital and Largest City

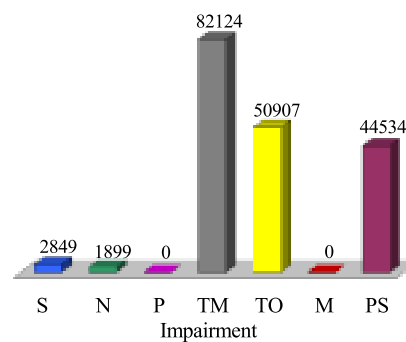
* Any combination of sediments, nutrients, and pathogens

** All other causes

Impaired Stream/River/Coastal Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



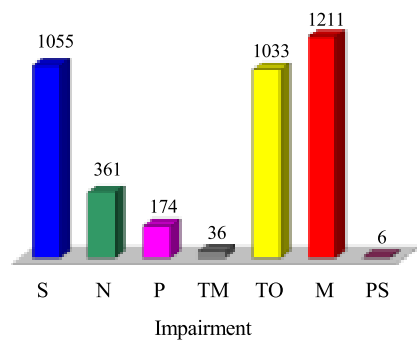
S = Sedimentation
 N = Nutrients
 P = Pathogens
 TM = Toxics/Metals/Inorganics
 TO = Toxics/Organics
 M = Mercury
 PS = Pesticides

Source: 1998 State 303(d) Lists

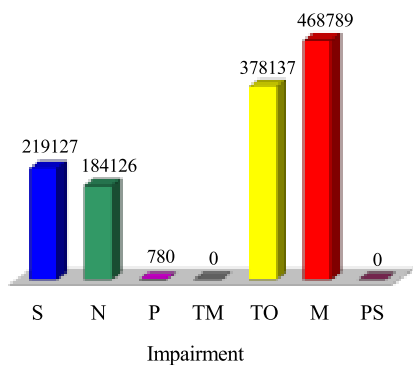


Wisconsin 1998 Polluted Waters

Impaired Stream/River/Coastal Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation TO = Toxics/Organics
 N = Nutrients M = Mercury
 P = Pathogens PS = Pesticides
 TM = Toxics/Metals/Inorganics



Legend:

- Sedimentation
- Nutrients
- Pathogens
- Multiple *
- Other **

8-digit USGS Cataloging Units

Capital City

Largest City

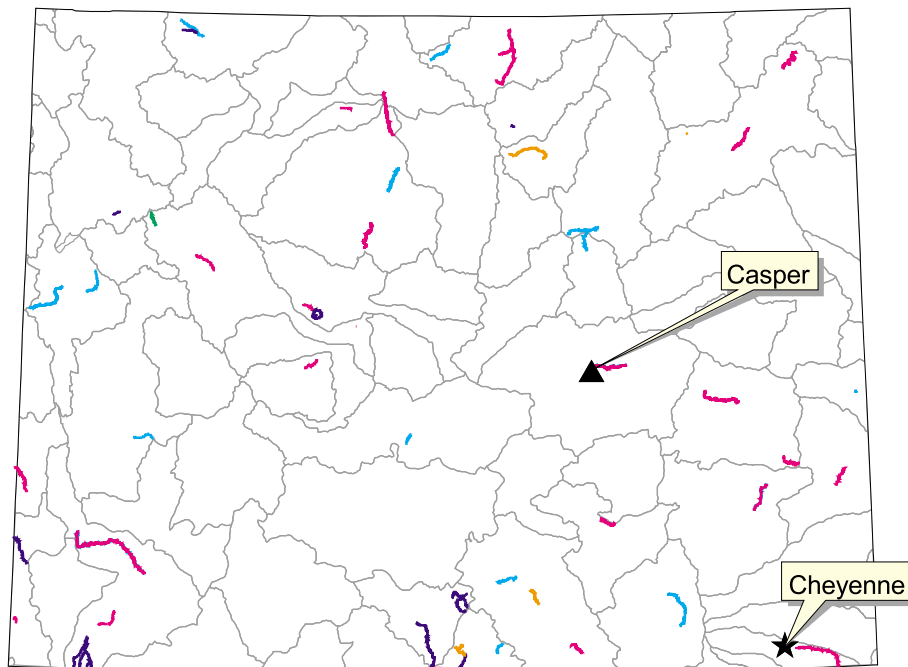
* Any combination of sediments, nutrients, and pathogens

** All other causes

Source: 1998 State 303(d) Lists



Wyoming 1998 Polluted Waters



Legend:

Sedimentation

Nutrients

Pathogens

Multiple *

Other **

8-digit USGS Cataloging Units

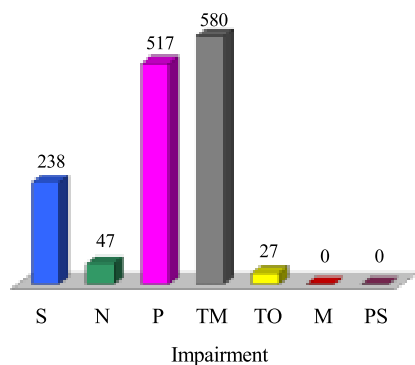
Capital City

Largest City

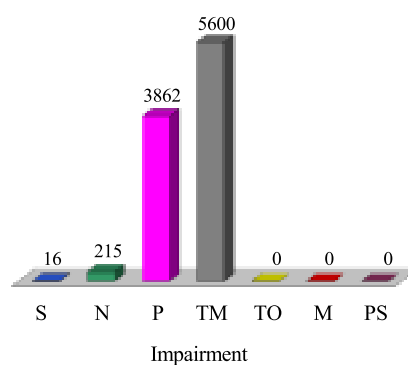
* Any combination of sediments, nutrients, and pathogens

** All other causes

Impaired Stream/River/Coastal Shoreline Miles



Impaired Lake/Estuary/Wetland Acres



S = Sedimentation
 N = Nutrients
 P = Pathogens
 TM = Toxics/Metals/Inorganics
 TO = Toxics/Organics
 M = Mercury
 PS = Pesticides

Source: 1998 State 303(d) Lists

