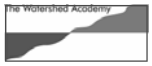


Webcast Sponsored by EPA's Watershed Academy

ATTAINS: A Gateway to State-Reported Water Quality Information

June 18, 2008, 11:30am-1:30pm EST

Shera Bender, USEPA's Watershed Branch

Dwane Young, USEPA's Monitoring Branch

Sarah Furtak, USEPA's Watershed Branch

Introductions

Shera Bender, Environmental Scientist, U.S. EPA Watershed Branch

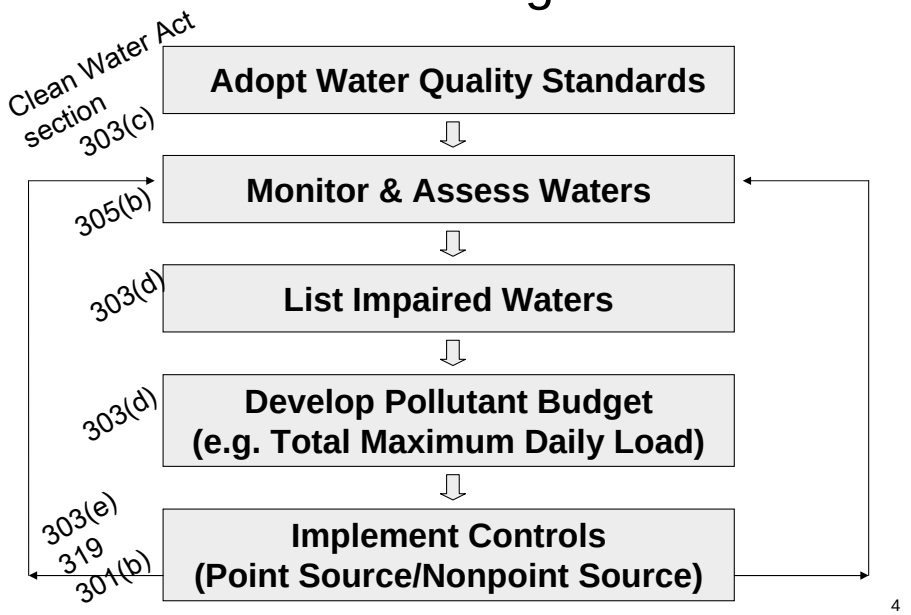
Dwane Young, IT Specialist, U.S. EPA Monitoring Branch

Sarah Furtak, Environmental Protection Specialist, U.S. EPA Watershed Branch

This presentation will cover…

- Overview of water quality reporting under Clean Water Act sections 305(b) and 303(d) programs
- Discussion of Integrated Reporting (IR)
- Introduction to the ATTAINS database and Web site

Clean Water Act
Framework for Restoring Polluted Waters



Clean Water Act Water Quality Reporting

- Section 305(b)
  - A biennial assessment of the quality of all navigable waters in each state
  - Assessment includes whether waters support their designated uses (e.g. swimming), and causes and sources of impairment in those waters that do not support uses

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Many of you may be familiar with portions of the Clean Water Act. You are probably most familiar with Section 319 through your work with the non-point source and GRTS programs. I am going to focus on a couple of other sections, though.

Section 305(b) requires states to assess the quality of their navigable waters and submit a report on them to EPA every 2 years. EPA is to provide Congress with an analysis of those reports every 2 years.

Section 303(d) requires states to submit a List of Impaired Waters that need a TMDL to be created for them.

Clean Water Act Reporting (cont'd)

- States report assessment information to EPA
- EPA summarizes state findings in a national report to Congress (section 305(b) report)

Streamlined 305(b) Report to Congress

- Narrative report provides national summary of site-specific water quality assessment information provided in state 305(b) reports
- Web site/database provides state summary and waterbody-specific assessment results
- Narrative report and Web site are dual components of Report to Congress
- Reflects transition between traditional 305(b) reporting and 303(d)/305(b) Integrated Reporting

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NAD at http://www.epa.gov/waters/305b/index.html -- first time ever electronic, interactive site provides public the ability to view assessments of individual waterbodies.

Because it was a transition year for 305b/IR, states were given extended deadlines to submit reports and many failed to meet even those extensions. Plus, only 5 states provided electronic waterbody specific data using our Assessment Database or compatible format; data from remaining states had to be reformatted.

2002 reports not really integrated – not really expected until 2006.

The 2002 303d list is incomplete in that we're missing mileage (optional) info for 6-7 States:

2002 305(b) impaired river miles - 309,755 miles

2002 303(d) impaired river miles - 141,576 miles

Clean Water Act Water Quality Reporting (continued)

- Section 303(d)
  - List of waters impaired or threatened by a pollutant, and needing a Total Maximum Daily Load (TMDL)
  - Submitted biennially to EPA for approval

TMDL Definition

What is a TMDL?

A calculation of the maximum amount of a pollutant that a waterbody can receive and still meet water quality standards, and an allocation of that amount to the pollutant's sources.

** The TMDL comes in the form of a technical document or plan.*

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A TMDL is "A calculation of the maximum amount of a pollutant that a waterbody can receive and still meet water quality standards, and an allocation of that amount to the pollutant's sources." TMDLs must be developed at a level that meets water quality standards.

The TMDL comes in the form of a technical document or plan that includes the following components:

- Identification of Waterbody, Pollutant of Concern, Pollutant Sources, and Priority Ranking
- **Applicable WQS & Numeric Water Quality Target***
- **Loading Capacity**
- **Load Allocations and Waste Load Allocations**
- **Margin of Safety**
- **Consideration of Seasonal Variation**
- Reasonable Assurance for PS/NPS
- Monitoring Plan to Track TMDL Effectiveness
- Implementation Plan
- **Public Participation**

*** Bold** = **Statute and Regulations;** Normal = guidance

Regulatory Requirements

Regulations (40 CFR 130.7)

Each state shall identify those water quality-limited segments still requiring TMDLs within its boundaries for which:

- Technology-based effluent limitations
- More stringent effluent limitations
- Other pollution control requirements

Are not stringent enough to implement any water quality standards applicable to such waters

The first part of the 303(d) program – the list of impaired waters – is described in the regulations (40 CFR 130.7) where it states that: "Each State shall identify those water quality-limited segments still requiring TMDLs within its boundaries for which: technology based effluent limitations, more stringent effluent limitations or other pollution control requirements are not stringent enough to implement any water quality standards applicable to such waters."

Regulatory Requirements

Regulations (40 CFR 130.7)

For waters identified in the 303(d) list:

- "TMDLs shall be established for all *pollutants* preventing or expected to prevent attainment of water quality standards…"
- "TMDLs shall be established at levels necessary to attain and maintain the applicable narrative and numerical WQS…"

No statutory or regulatory timeframe for TMDL development

- EPA guidance establishes 8-13 year time frame from time of initial listing

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The second part of the 303(d) program is concerned with the development of TMDLs. TMDLs shall be developed for pollutants, which will be discussed further in the next slide, and at a level that will attain and maintain applicable water quality standards.

The regulations do not set a timeline by which TMDLs should be developed for impaired waters identified in the 303(d) list. However, EPA guidance establishes an 8-13 year time frame from time of initial listing.

Integrated Reporting Under the Clean Water Act

- **Integrated Reporting (IR):** Beginning with the 2002 reporting cycle, EPA has encouraged states to submit integrated reports that combine reporting under sections 305(b) and 303(d)

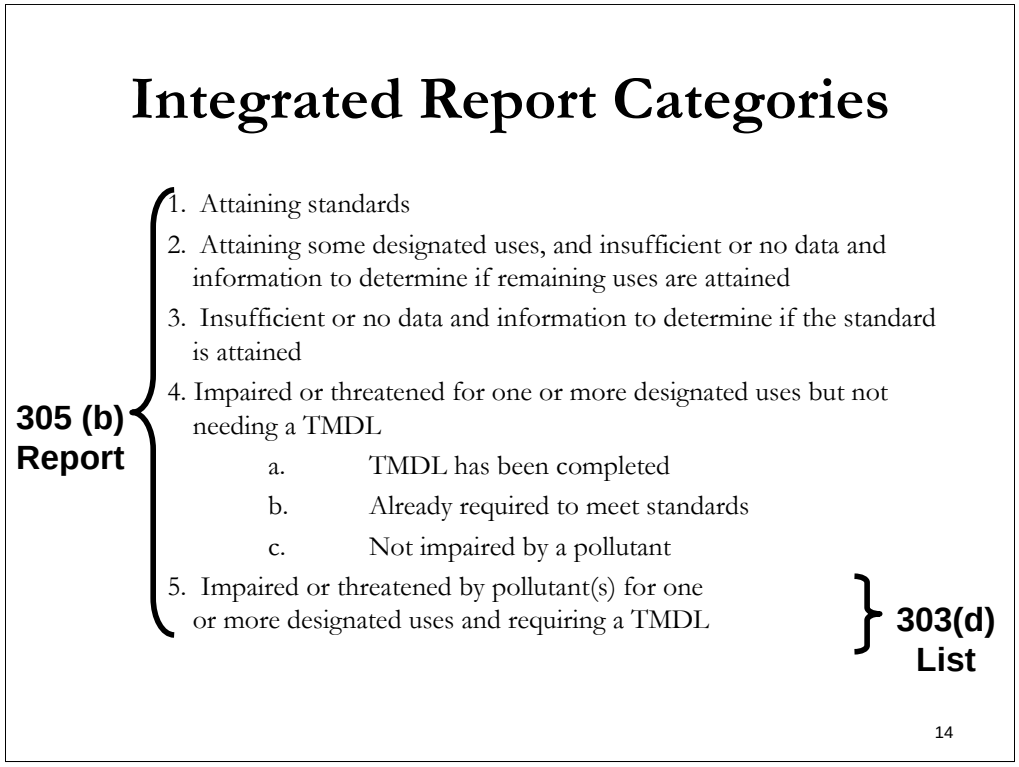
- **Purpose of integrating reporting requirements:** to increase data consistency, merge data from a variety of sources, provide a more informed summary of the quality of state waters

State Options for Reporting WQ Status

Minimally Required by Regulations

Recommended Reporting Format

Separate 305(b) & 303(d)	Integrated Report
The state's section 303(d) list is comprised of waters impaired or threatened by a pollutant, and needing a TMDL States submit a separate 305(b) report on the conditions of all waters	A single state-developed report that integrates the reporting requirements of CWA sections 303(d), 305(b) and 314 EPA's Integrated Report Guidance (IRG) developed for 2002, 2004, 2006 and 2008 reporting cycles (www.epa.gov/owow/tmdl/)
Both are due to EPA on April 1 of every even year. EPA approves/disapproves 303(d) list, uses 305(b) information to prepare biennial report to Congress	EPA approves/disapproves Category 5 of the Integrated Report, uses information to satisfy requirements of 305(b)



Traditionally, the 305(b) Report of Assessed Waters contained information on both attaining and un-attaining waters, whereas the 303(d) List contained only impaired or threatened waters. Historically, these documents were submitted separately, and often contained conflicts where a water may be listed as Impaired under one document but not under the other.

Due to the close relationship between water quality assessments and water quality impairments, the Integrated Report was born. The Integrated Report places waters into 5 main categories, as shown here.

A true Integrated Report consists of a comprehensive state assessment database. It also includes the official 303(d) List of impaired waters. Since 305(b) and 303(d) information is coming from the same source (the state ADBv2 file), the Integrated Report provides consistency between all assessments.

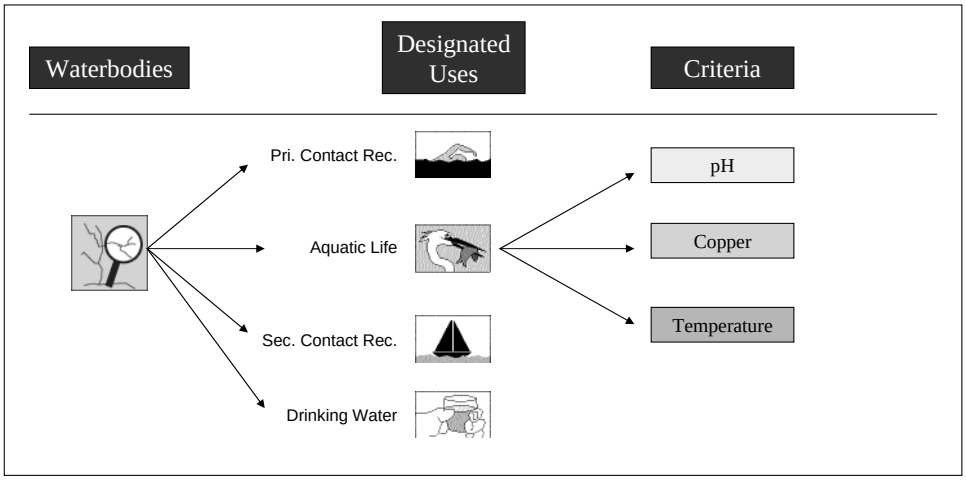
(True Integrated Reporting States submit their 305(b) Assessment information via ADBv2, from which their 303(d) Impaired Waters information can be extracted as a subset.)

Questions?

Shera Bender, USEPA's Watershed Branch

Sarah Furtak, USEPA's Watershed Branch

Basic concepts from a Water Quality Standards Perspective



These same concepts are incorporated into the Integrated Report

Assessment Units

Assessment Units relate to
Water Quality Standards (WQS)
Waterbodies

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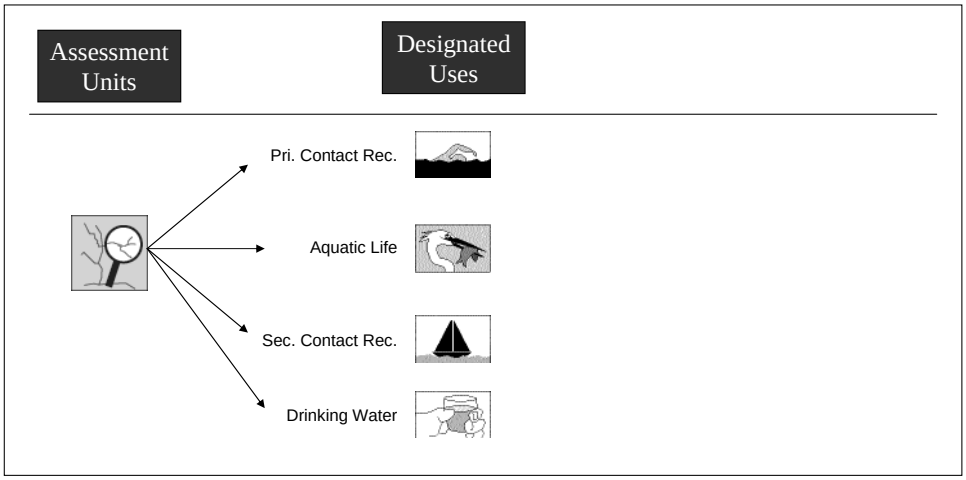
These same concepts are included in the logic of ATTAINS.

States assess and track their surface waters in artificial units called Assessment Units (AUs), which are similar to Waterbodies in Water Quality Standards.

Assessment Units serve as artificial measurement units within State databases. They are used for assessing water quality and tracking progress. They can vary in size depending upon the needs of the State. Assessment Units can be large watersheds of any size, such as an 8-digit subbasin (HUC). Or they can be very small, such as a small section of a stream.

Designated Uses are assigned to Assessment Units



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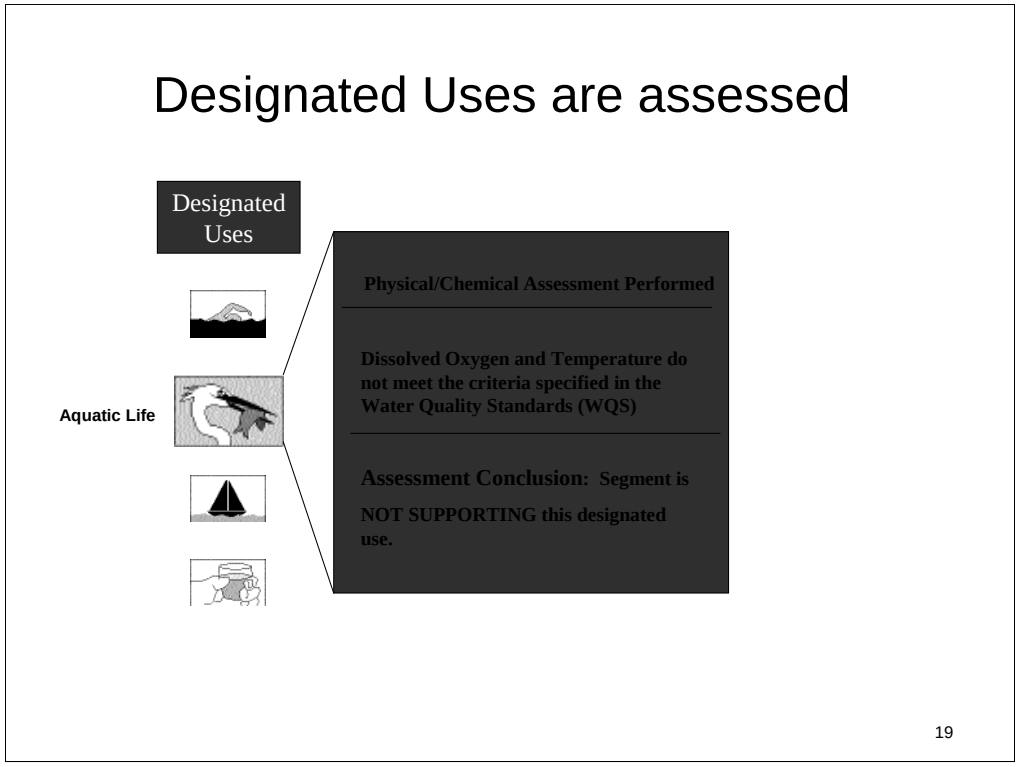
Just like Waterbodies for Water Quality Standards, Assessment Units have Designated Uses assigned to them.

Multiple Designated Uses can be assigned to each Assessment Unit.



Each Designated Use can be assessed for attainment. The assessments are made by comparing the conditions in the Assessment Unit to the associated Water Quality Standards for the State. There are four types of attainment decisions in ATTAINS: Fully Supporting, Not Supporting, Insufficient Information, and Not Assessed.

ATTAINS allows for different **Assessment Types, which are required for its metadata.*

-Pathogen Indicators

-Physical/Chemical

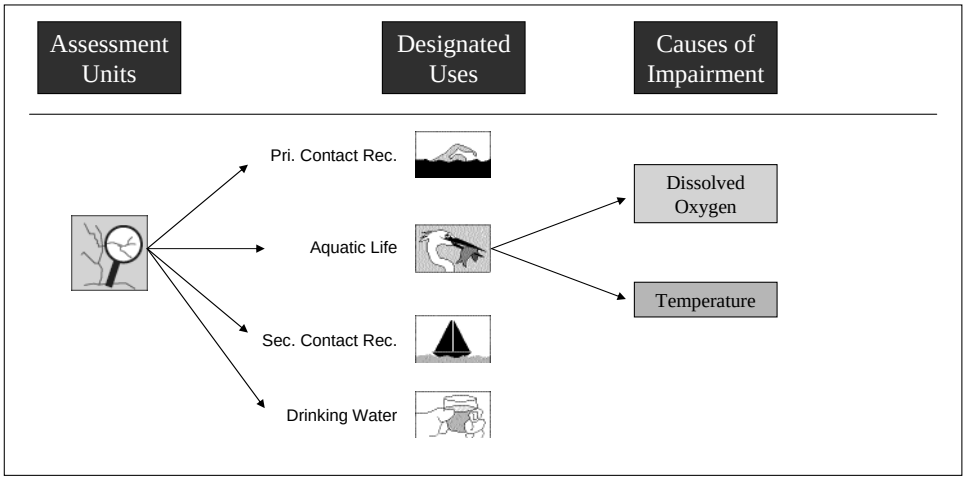
-Biological

-Toxicological

**each use can have its own attainment, and assessment types or even multiple assessment types*

For this example, the Aquatic Life Use was assessed by evaluating Dissolved Oxygen and Temperature. Since those characteristics did not meet the criteria specified in the Water Quality Standard for that State, the conclusion was that this Assessment Unit was NOT SUPPORTING its Aquatic Life Designated Use.

When Uses are not supporting, Causes of Impairments are assigned



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If an Assessment Unit is found to be NOT SUPPORTING one of its Designated Uses, then the Causes of Impairment are identified and assigned to that Assessment Unit/Designated Use combination.

Causes of Impairment

- Refer to the Reason a waterbody has been listed
- The Reason why an Assessment Unit is not meeting its associated Water Quality Standard
    - For example: Mercury, habitat indicators, dissolved oxygen

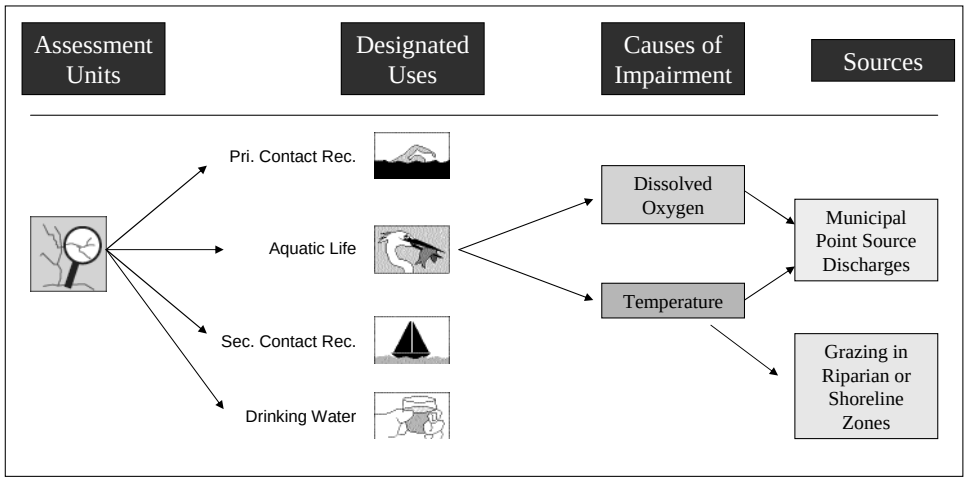
(TMDLs are written for the specific indicators of the cahracteristic.

- (Ex: If Cause of Imapriment is DO, then TMDL would be written for Phosphorus and Nitrogen).)

Sources (of Pollution/Impairment)

- Where the impairment/pollutant comes from
- For example: permitted dischargers, abandoned mine
- The actual entity that is contributing to the impairment.

For causes identified, sources are assigned



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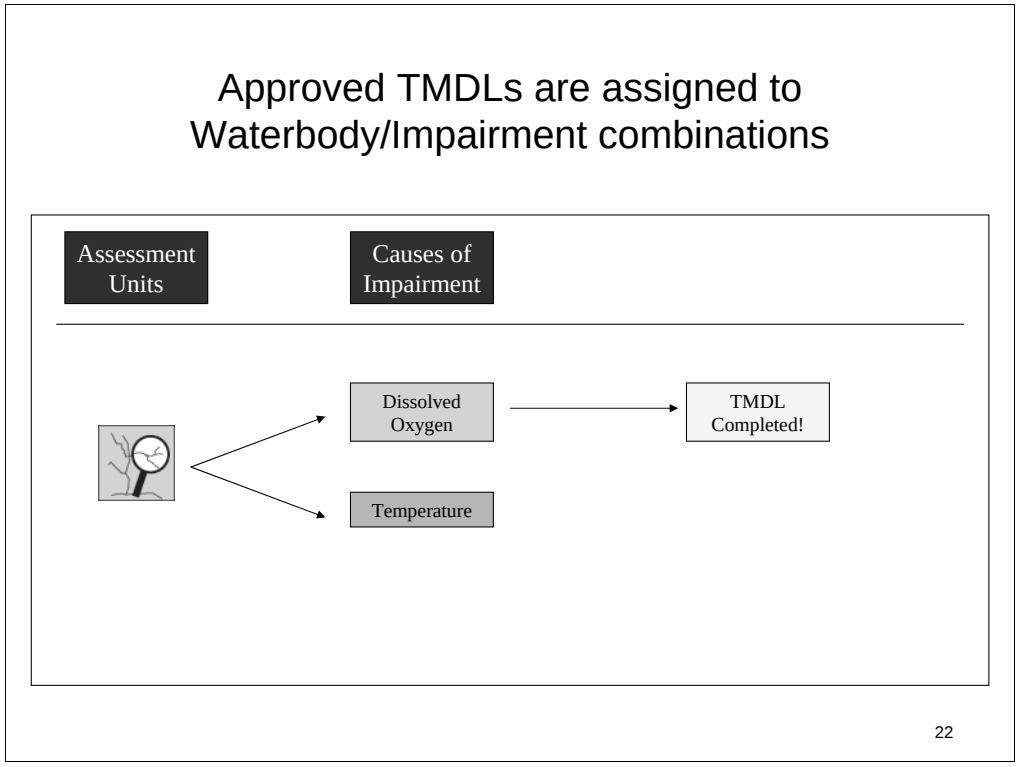
*we can have different **Sources** for each **Cause of impairment**.

For example, a Municipal Point Source Discharger could discharge waste that increases temperature and decreases Dissolved Oxygen in a water.

Grazing in the same water could decrease cover around the water which could also increase temperature, but the grazing would not affect the Dissolved Oxygen.



Once a Cause of Impairment is identified, a TMDL can be created for an Assessment Unit.

TMDLs are assigned to the waterbody/impairment combination. For purposes of the 303(d) List, the Designated Use of an Assessment Unit no longer matters.

At this point, the Cause of Impairment becomes the important part, because focusing on that Cause can help improve the water quality of the Assessment Unit.

---

*Note that uses disappear at this point, you can tell the story about discussions we had with NH about how to implement TMDLs in the system. Talk about how for 303(d) purposes, uses aren't important.

ATTAINS

- **A**ssessment **T**MDL **T**racking **A**nd **I**mplementatio**N** **S**ystem
- A national database that integrates the data from
  - the 305(b) program and
  - the 303(d) program
- The current State Assessment Databases (ADB) feed ATTAINS
  - ATTAINS is the backbone of the National Water Quality Inventory Report to Congress

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I've been talking about ATTAINS. But, what is it? It's an acronym that stands for the Assessment TMDL Tracking and Implementation System.

I've already talked about the Integrated Report. ATTAINS is the new national database that will hold the Integrated Reporting data. In other words, it will hold the assessment data from the 305(b) program and the impairment data from the 303(d) program.

This is a new effort that we've been undergoing in the past year. The database structure takes the data elements from two previously separate databases and integrates them into one national database.

Currently the database structure is in place, but the web reports are not yet online. They are scheduled to be released on the public website on December 1 of this year.

You may notice that the name includes the word Implementation. That implementation tracking capability is not yet in place, but is something we plan to work on during the next year.

How does all this apply back to your work? The Nonpoint Source program and GRTS database track implementation of on-the-ground implementation activities. So, this implementation tracking may provide opportunities to more closely link ATTAINS with your data in GRTS.

The current state Assessment Database (ADB) will feed into ATTAINS.

ATTAINS Provides:

- national summary information
- regional summary information
- state summary information
- watershed information
- waterbody specific information

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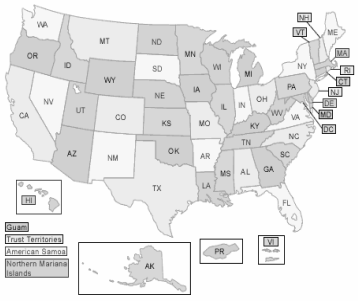
This site provides information reported by the states to EPA about the conditions in their surface waters. This information is required every two years under Clean Water Act Sections 305(b) and 303(d).

Because of differences in state assessment methods, the information in this site should not be used to compare water quality conditions between states or to determine water quality trends. Check out the Frequent Questions box on the right to learn more.

Frequent Questions

- About This Database (Integrated Report)
- Assessing Water Quality (Questions and Answers)
- 2006 Integrated Reporting Guidance
- Previous National Water Quality Reports
- EnviroMapper for Water
- AskWATERS
- EPA WATERS Homepage

Which state reports are available? National Summary of State Information



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Click on the above map for a state's most recent data, or use the pull down boxes below to:

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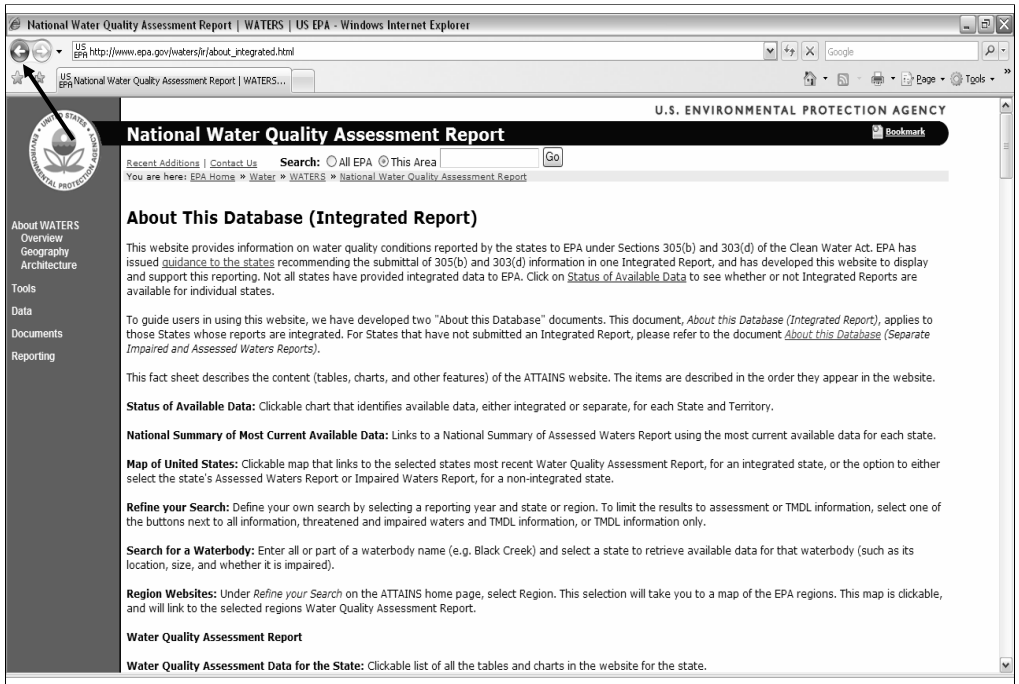
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http://www.epa.gov/waters/ir/about_integrated.html
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This website provides information on water quality conditions reported by the states to EPA under Sections 305(b) and 303(d) of the Clean Water Act. EPA has issued guidance to the states recommending the submittal of 305(b) and 303(d) information in one Integrated Report, and has developed this website to display and support this reporting. Not all states have provided integrated data to EPA. Click on Status of Available Data to see whether or not Integrated Reports are available for individual states.
To guide users in using this website, we have developed two "About this Database" documents. This document, About this Database (Integrated Report), applies to those States whose reports are integrated. For States that have not submitted an Integrated Report, please refer to the document About this Database (Separate Impaired and Assessed Waters Reports).
This fact sheet describes the content (tables, charts, and other features) of the ATTAINS website. The items are described in the order they appear in the website.
Status of Available Data: Clickable chart that identifies available data, either integrated or separate, for each State and Territory.
National Summary of Most Current Available Data: Links to a National Summary of Assessed Waters Report using the most current available data for each state.
Map of United States: Clickable map that links to the selected states most recent Water Quality Assessment Report, for an integrated state, or the option to either select the state's Assessed Waters Report or Impaired Waters Report, for a non-integrated state.
Refine your Search: Define your own search by selecting a reporting year and state or region. To limit the results to assessment or TMDL information, select one of the buttons next to all information, threatened and impaired waters and TMDL information, or TMDL information only.
Search for a Waterbody: Enter all or part of a waterbody name (e.g. Black Creek) and select a state to retrieve available data for that waterbody (such as its location, size, and whether it is impaired).
Region Websites: Under Refine your Search on the ATTAINS home page, select Region. This selection will take you to a map of the EPA regions. This map is clickable, and will link to the selected regions Water Quality Assessment Report.
Water Quality Assessment Report
Water Quality Assessment Data for the State: Clickable list of all the tables and charts in the website for the state.

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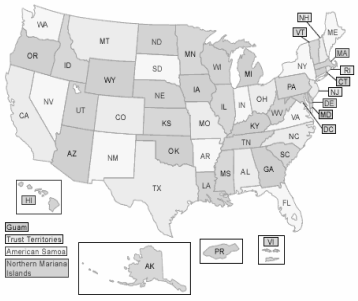

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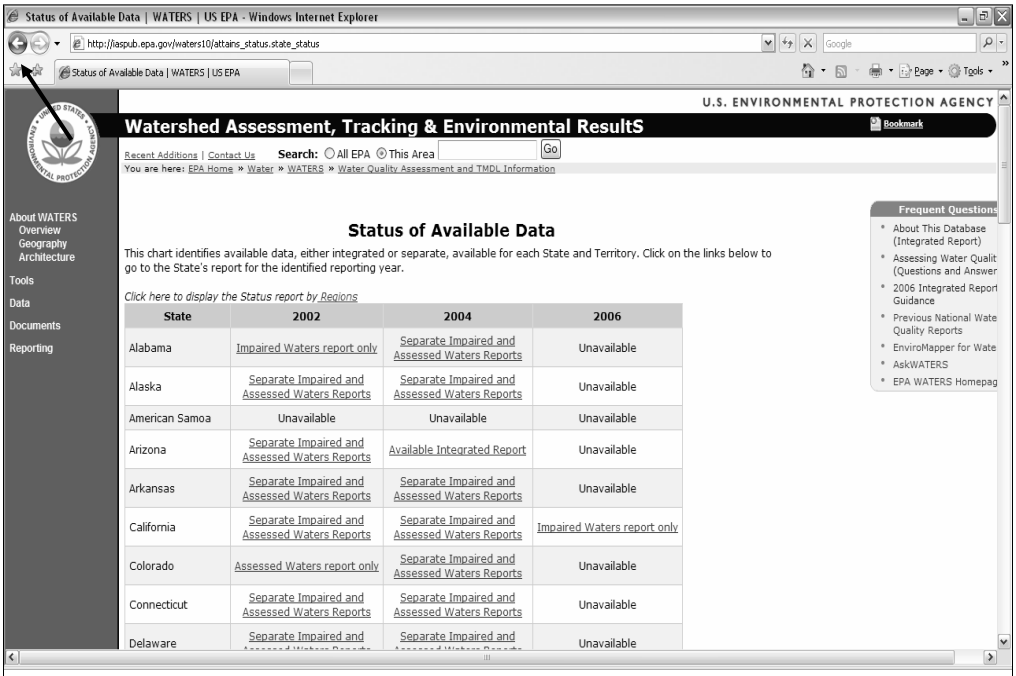
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Status of Available Data
This chart identifies available data, either integrated or separate, available for each State and Territory. Click on the links below to go to the State's report for the identified reporting year.
Click here to display the Status report by Regions
State
2002
2004
2006
Alabama
Impaired Waters report only
Separate Impaired and Assessed Waters Reports
Unavailable
Alaska
Separate Impaired and Assessed Waters Reports
Separate Impaired and Assessed Waters Reports
Unavailable
American Samoa
Unavailable
Unavailable
Unavailable
Arizona
Separate Impaired and Assessed Waters Reports
Available Integrated Report
Unavailable
Arkansas
Separate Impaired and Assessed Waters Reports
Separate Impaired and Assessed Waters Reports
Unavailable
California
Separate Impaired and Assessed Waters Reports
Separate Impaired and Assessed Waters Reports
Impaired Waters report only
Colorado
Assessed Waters report only
Separate Impaired and Assessed Waters Reports
Unavailable
Connecticut
Separate Impaired and Assessed Waters Reports
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Unavailable
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Separate Impaired and
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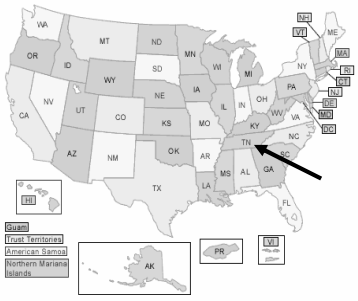

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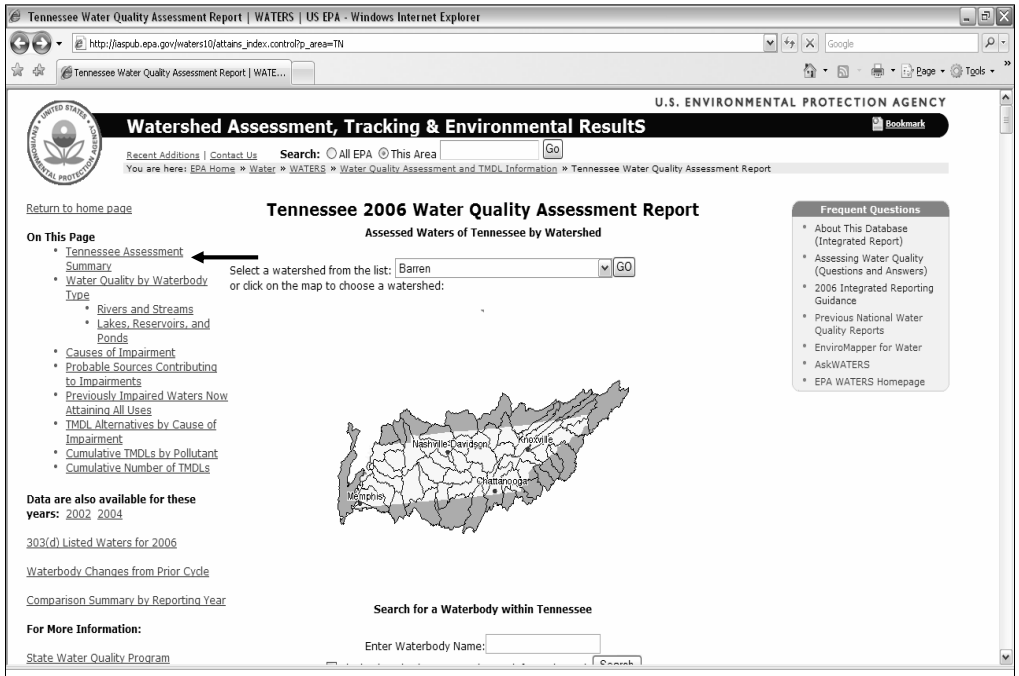
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Rivers and Streams
Lakes, Reservoirs, and Ponds
Causes of Impairment
Probable Sources Contributing to Impairments
Previously Impaired Waters Now Attaining All Uses
TMDL Alternatives by Cause of Impairment
Cumulative TMDLs by Pollutant
Cumulative Number of TMDLs
Data are also available for these years: 2002 2004
303(d) Listed Waters for 2006
Waterbody Changes from Prior Cycle
Comparison Summary by Reporting Year
For More Information:
State Water Quality Program
Tennessee 2006 Water Quality Assessment Report
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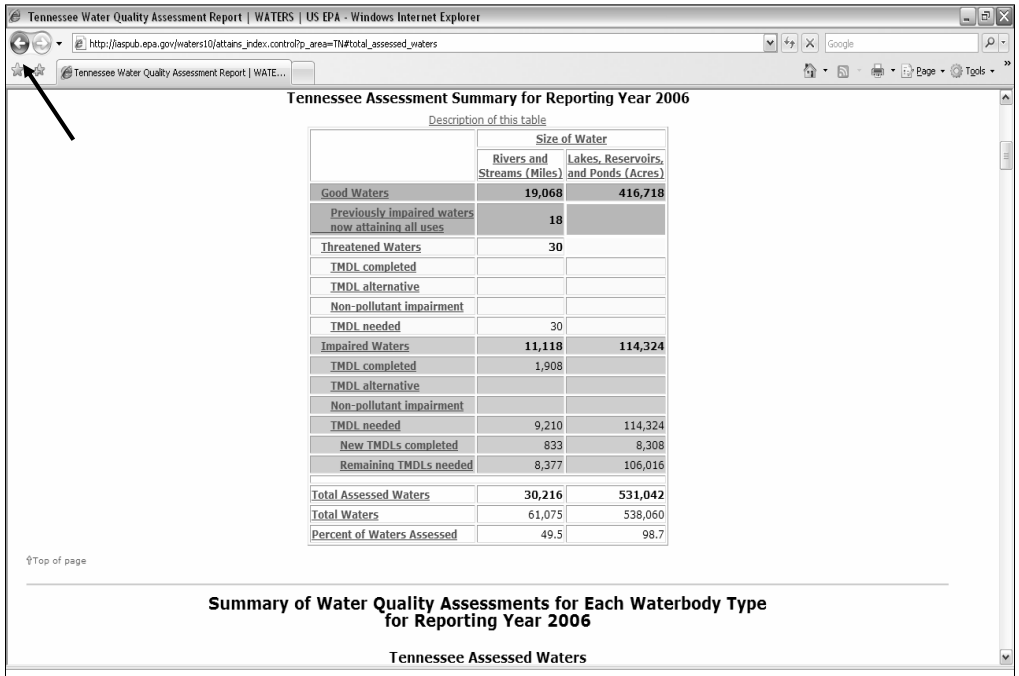

Tennessee Assessment Summary for Reporting Year 2006

Description of this table

	Size of Water	
	Rivers and Streams (Miles)	Lakes, Reservoirs, and Ponds (Acres)
Good Waters	**19,068**	**416,718**
Previously impaired waters now attaining all uses	**18**	
Threatened Waters	**30**	
TMDL completed		
TMDL alternative		
Non-pollutant impairment		
TMDL needed	30	
Impaired Waters	**11,118**	**114,324**
TMDL completed	1,908	
TMDL alternative		
Non-pollutant impairment		
TMDL needed	9,210	114,324
New TMDLs completed	833	8,308
Remaining TMDLs needed	8,377	106,016
Total Assessed Waters	**30,216**	**531,042**
Total Waters	61,075	538,060
Percent of Waters Assessed	49.5	98.7

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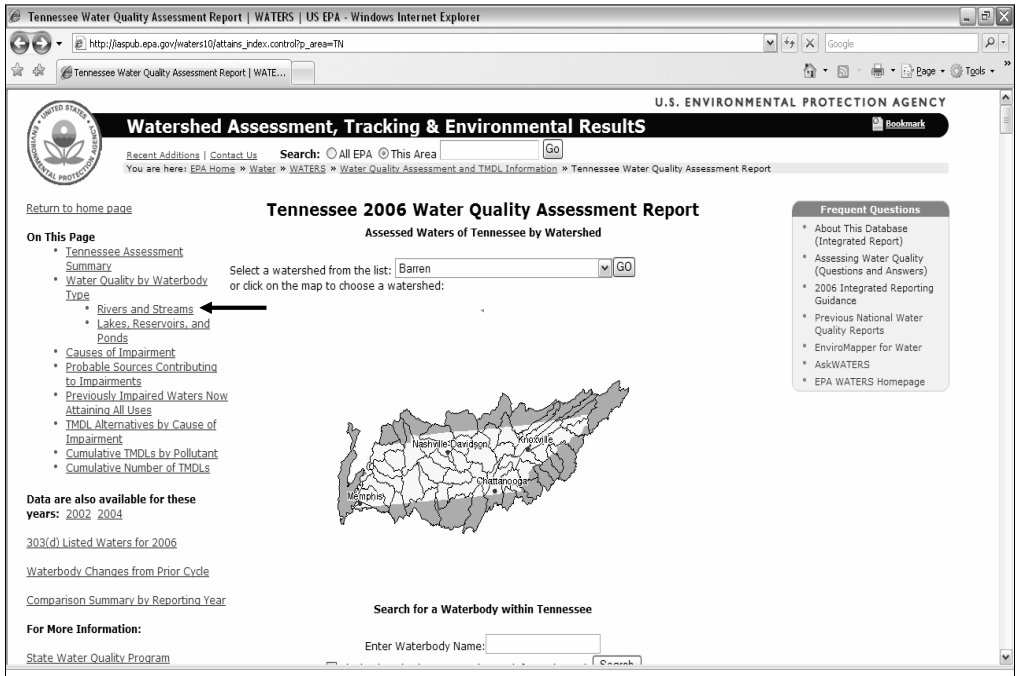
Summary of Water Quality Assessments for Each Waterbody Type for Reporting Year 2006

Tennessee Assessed Waters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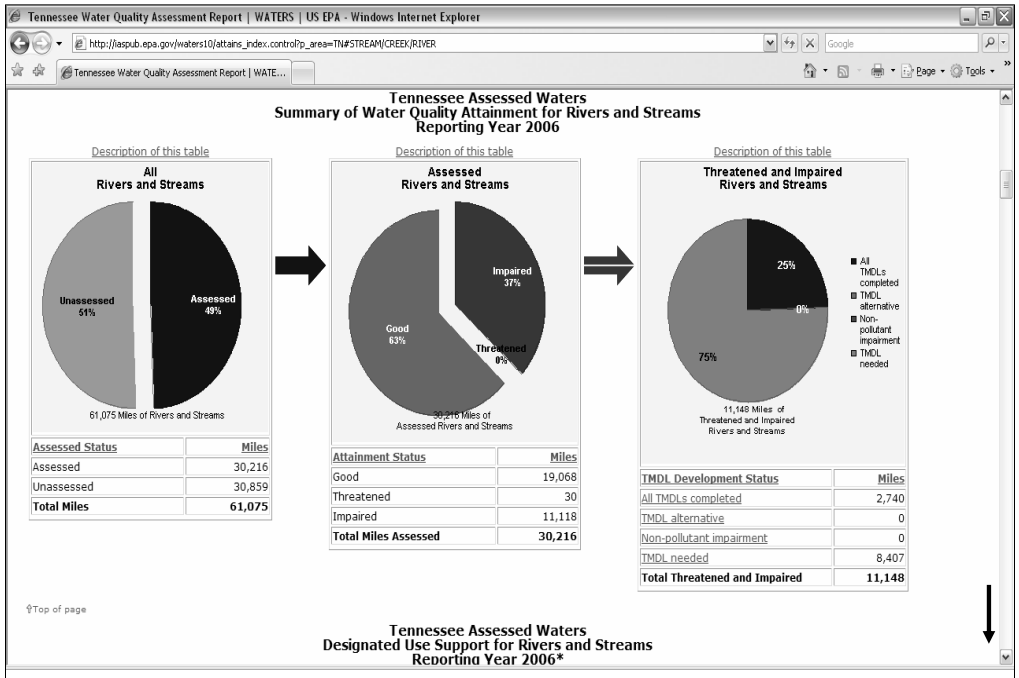
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Summary of Water Quality Attainment for Rivers and Streams
Reporting Year 2006
Description of this table
All
Rivers and Streams
Unassessed
51%
Assessed
49%
61,075 Miles of Rivers and Streams
Assessed Status
Miles
Assessed
30,216
Unassessed
30,859
Total Miles
61,075
Description of this table
Assessed
Rivers and Streams
Impaired
37%
Good
63%
Threatened
0%
Assessed Rivers and Streams
Attainment Status
Miles
Good
19,068
Threatened
30
Impaired
11,118
Total Miles Assessed
30,216
Description of this table
Threatened and Impaired
Rivers and Streams
25%
0%
75%
All TMDLs completed
TMDL alternative
Non-pollutant impairment
TMDL needed
11,148 Miles of Threatened and Impaired Rivers and Streams
TMDL Development Status
Miles
All TMDLs completed
2,740
TMDL alternative
0
Non-pollutant impairment
0
TMDL needed
8,407
Total Threatened and Impaired
11,148
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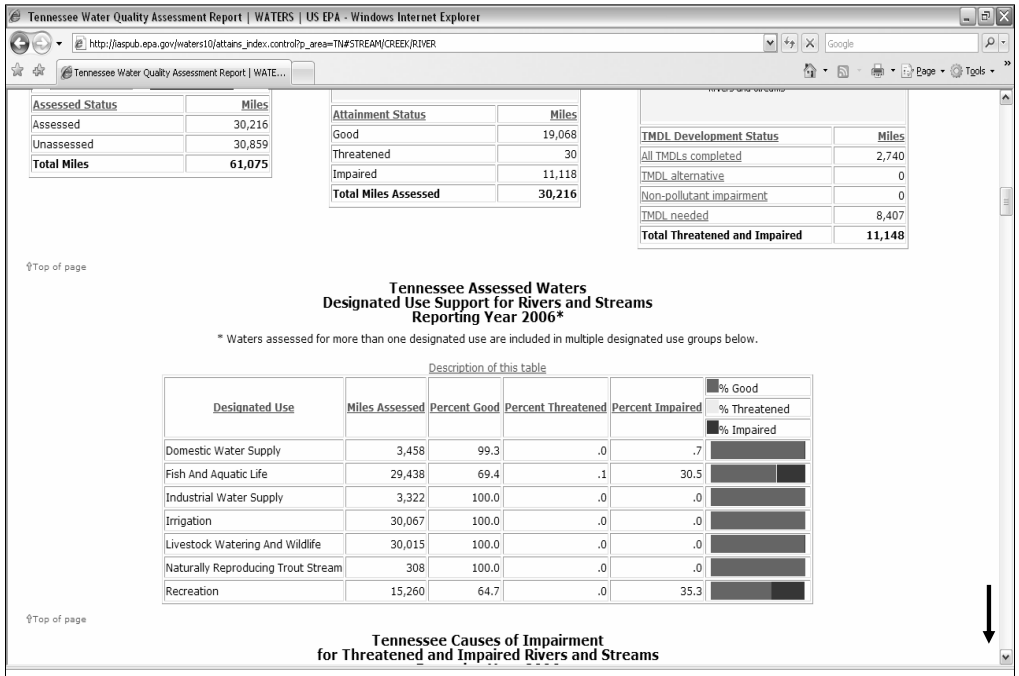
Tennessee Assessed Waters
Designated Use Support for Rivers and Streams
Reporting Year 2006*



Assessed Status	Miles
Assessed	30,216
Unassessed	30,859
Total Miles	**61,075**

Attainment Status	Miles
Good	19,068
Threatened	30
Impaired	11,118
Total Miles Assessed	**30,216**

TMDL Development Status	Miles
All TMDLs completed	2,740
TMDL alternative	0
Non-pollutant impairment	0
TMDL needed	8,407
Total Threatened and Impaired	**11,148**

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Tennessee Assessed Waters
Designated Use Support for Rivers and Streams
Reporting Year 2006*

* Waters assessed for more than one designated use are included in multiple designated use groups below.

Description of this table

Designated Use	Miles Assessed	Percent Good	Percent Threatened	Percent Impaired	% Good / % Threatened / % Impaired
Domestic Water Supply	3,458	99.3	.0	.7	
Fish And Aquatic Life	29,438	69.4	.1	30.5	
Industrial Water Supply	3,322	100.0	.0	.0	
Irrigation	30,067	100.0	.0	.0	
Livestock Watering And Wildlife	30,015	100.0	.0	.0	
Naturally Reproducing Trout Stream	308	100.0	.0	.0	
Recreation	15,260	64.7	.0	35.3	

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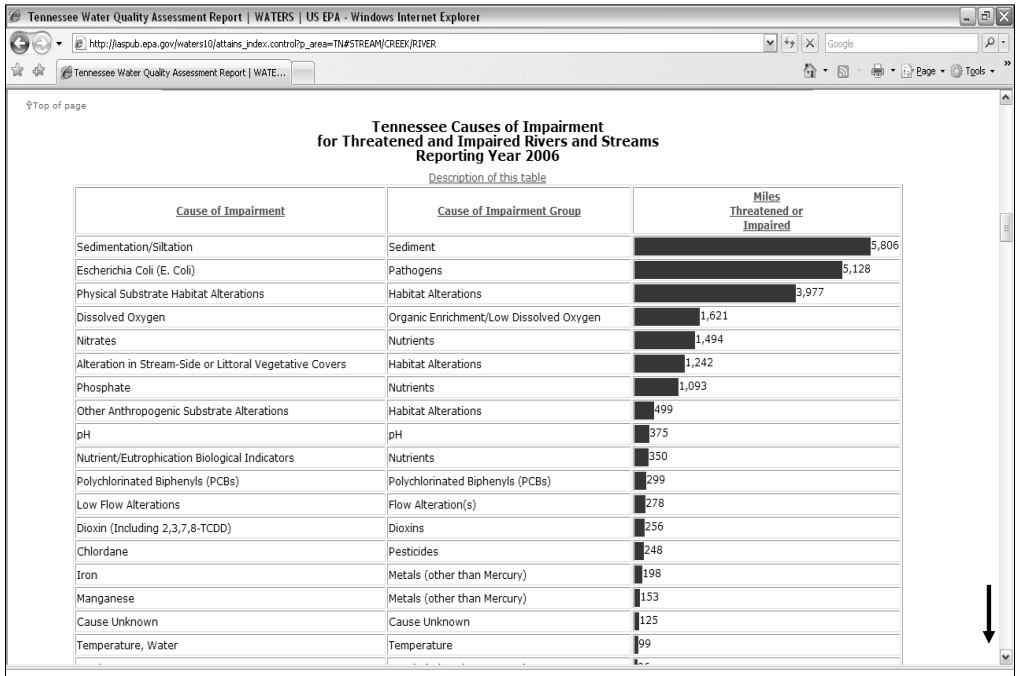
Tennessee Causes of Impairment
for Threatened and Impaired Rivers and Streams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for Threatened and Impaired Rivers and Streams
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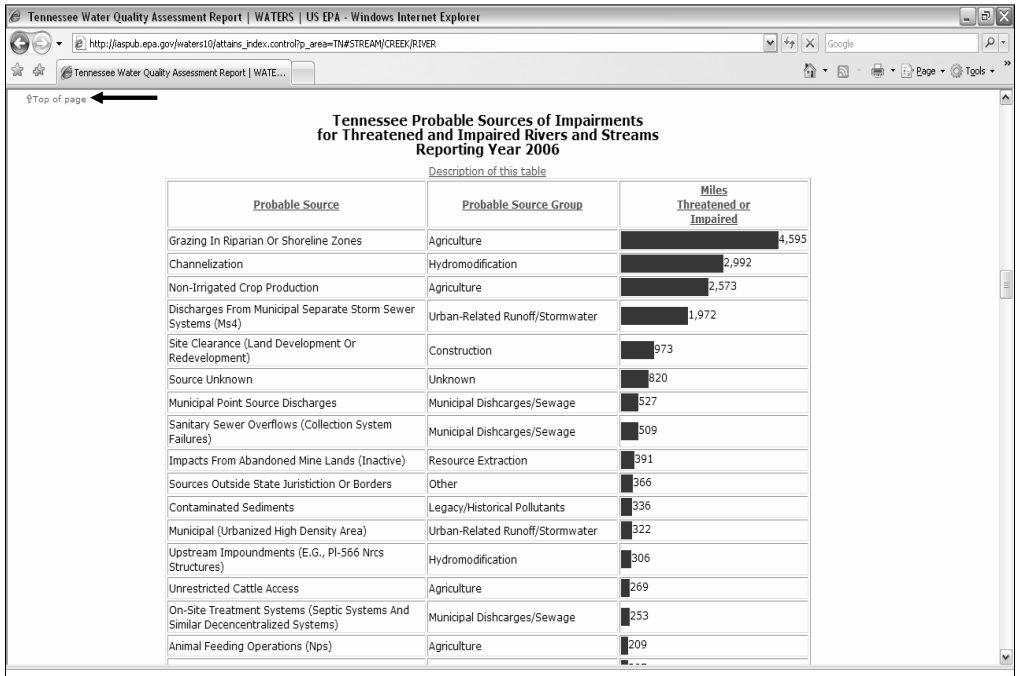
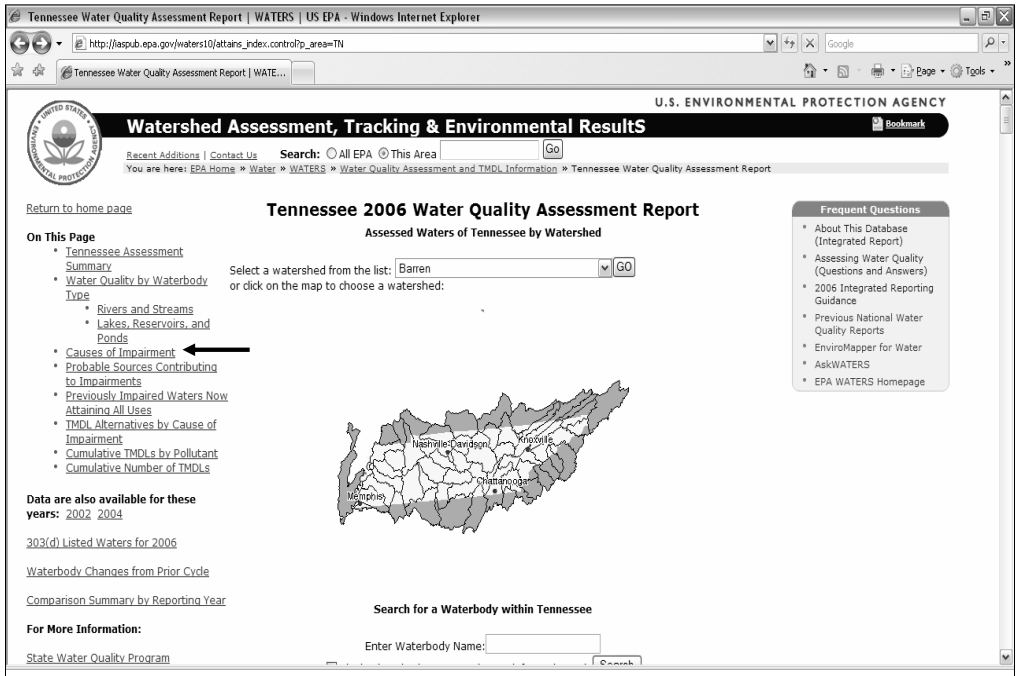
Description of this table
Cause of Impairment
Cause of Impairment Group
Miles Threatened or Impaired
Sedimentation/Siltation Sediment 5,806
Escherichia Coli (E. Coli) Pathogens 5,128
Physical Substrate Habitat Alterations Habitat Alterations 3,977
Dissolved Oxygen Organic Enrichment/Low Dissolved Oxygen 1,621
Nitrates Nutrients 1,494
Alteration in Stream-Side or Littoral Vegetative Covers Habitat Alterations 1,242
Phosphate Nutrients 1,093
Other Anthropogenic Substrate Alterations Habitat Alterations 499
pH pH 375
Nutrient/Eutrophication Biological Indicators Nutrients 350
Polychlorinated Biphenyls (PCBs) Polychlorinated Biphenyls (PCBs) 299
Low Flow Alterations Flow Alteration(s) 278
Dioxin (Including 2,3,7,8-TCDD) Dioxins 256
Chlordane Pesticides 248
Iron Metals (other than Mercury) 198
Manganese Metals (other than Mercury) 153
Cause Unknown Cause Unknown 125
Temperature, Water Temperature 99



Tennessee Probable Sources of Impairments for Threatened and Impaired Rivers and Streams Reporting Year 2006

Description of this table

Probable Source	Probable Source Group	Miles Threatened or Impaired
Grazing In Riparian Or Shoreline Zones	Agriculture	4,595
Channelization	Hydromodification	2,992
Non-Irrigated Crop Production	Agriculture	2,573
Discharges From Municipal Separate Storm Sewer Systems (Ms4)	Urban-Related Runoff/Stormwater	1,972
Site Clearance (Land Development Or Redevelopment)	Construction	973
Source Unknown	Unknown	820
Municipal Point Source Discharges	Municipal Dishcarges/Sewage	527
Sanitary Sewer Overflows (Collection System Failures)	Municipal Dishcarges/Sewage	509
Impacts From Abandoned Mine Lands (Inactive)	Resource Extraction	391
Sources Outside State Juristiction Or Borders	Other	366
Contaminated Sediments	Legacy/Historical Pollutants	336
Municipal (Urbanized High Density Area)	Urban-Related Runoff/Stormwater	322
Upstream Impoundments (E.G., Pl-566 Nrcs Structures)	Hydromodification	306
Unrestricted Cattle Access	Agriculture	269
On-Site Treatment Systems (Septic Systems And Similar Decencentralized Systems)	Municipal Dishcarges/Sewage	253
Animal Feeding Operations (Nps)	Agriculture	209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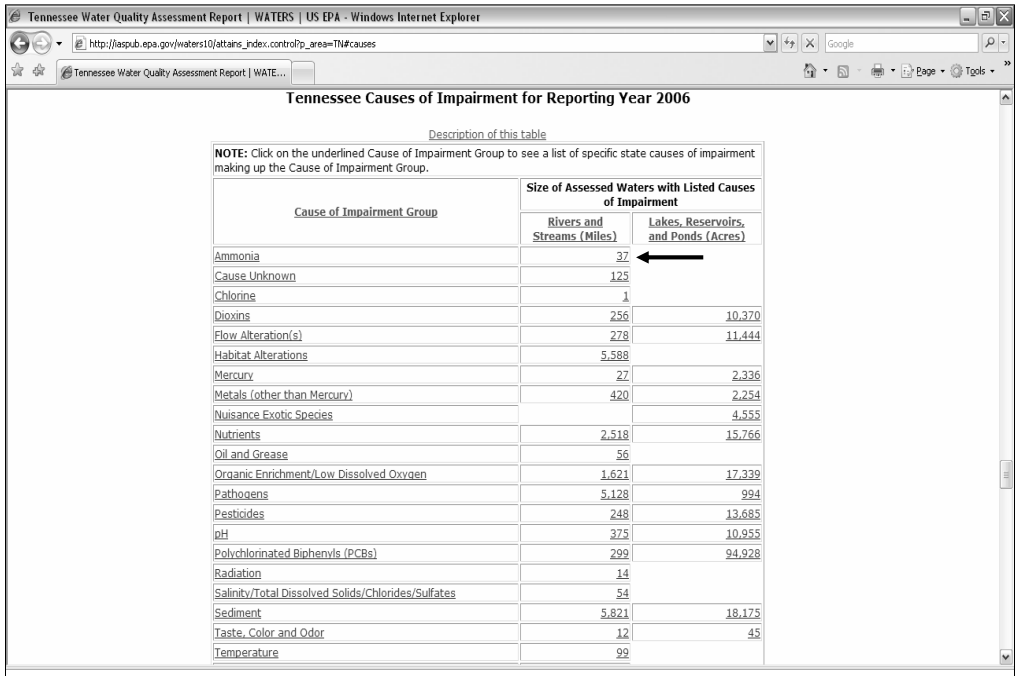
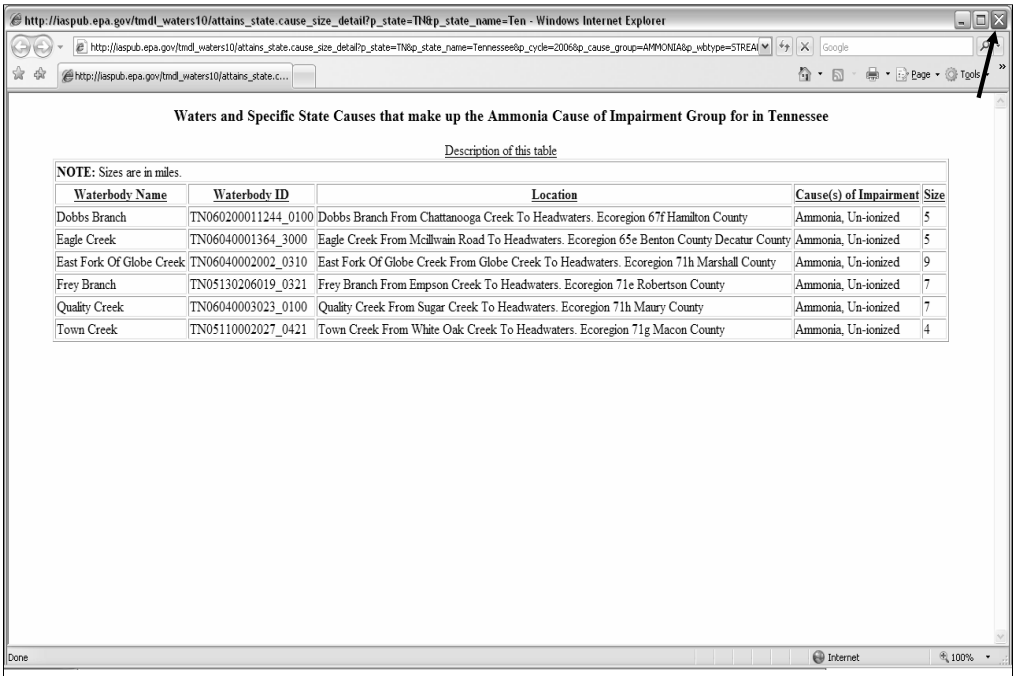


Tennessee Causes of Impairment for Reporting Year 2006

Description of this table

NOTE: Click on the underlined Cause of Impairment Group to see a list of specific state causes of impairment making up the Cause of Impairment Group.

Cause of Impairment Group	Size of Assessed Waters with Listed Causes of Impairment	
	Rivers and Streams (Miles)	Lakes, Reservoirs, and Ponds (Acres)
Ammonia	37	
Cause Unknown	125	
Chlorine	1	
Dioxins	256	10,370
Flow Alteration(s)	278	11,444
Habitat Alterations	5,588	
Mercury	27	2,336
Metals (other than Mercury)	420	2,254
Nuisance Exotic Species		4,555
Nutrients	2,518	15,766
Oil and Grease	56	
Organic Enrichment/Low Dissolved Oxygen	1,621	17,339
Pathogens	5,128	994
Pesticides	248	13,685
pH	375	10,955
Polychlorinated Biphenyls (PCBs)	299	94,928
Radiation	14	
Salinity/Total Dissolved Solids/Chlorides/Sulfates	54	
Sediment	5,821	18,175
Taste, Color and Odor	12	45
Temperature	99	

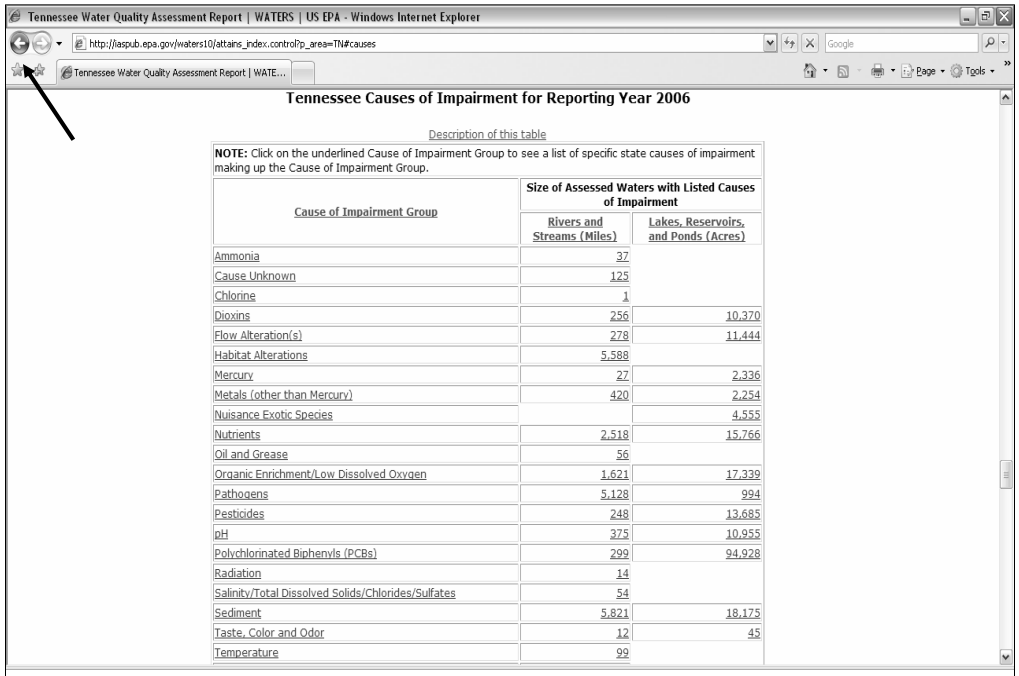


Waters and Specific State Causes that make up the Ammonia Cause of Impairment Group for in Tennessee

Description of this table

NOTE: Sizes are in miles.

Waterbody Name	Waterbody ID	Location	Cause(s) of Impairment	Size
Dobbs Branch	TN060200011244_0100	Dobbs Branch From Chattanooga Creek To Headwaters. Ecoregion 67f Hamilton County	Ammonia, Un-ionized	5
Eagle Creek	TN06040001364_3000	Eagle Creek From Mcillwain Road To Headwaters. Ecoregion 65e Benton County Decatur County	Ammonia, Un-ionized	5
East Fork Of Globe Creek	TN06040002002_0310	East Fork Of Globe Creek From Globe Creek To Headwaters. Ecoregion 71h Marshall County	Ammonia, Un-ionized	9
Frey Branch	TN05130206019_0321	Frey Branch From Empson Creek To Headwaters. Ecoregion 71e Robertson County	Ammonia, Un-ionized	7
Quality Creek	TN06040003023_0100	Quality Creek From Sugar Creek To Headwaters. Ecoregion 71h Maury County	Ammonia, Un-ionized	7
Town Creek	TN05110002027_0421	Town Creek From White Oak Creek To Headwaters. Ecoregion 71g Macon County	Ammonia, Un-ionized	4

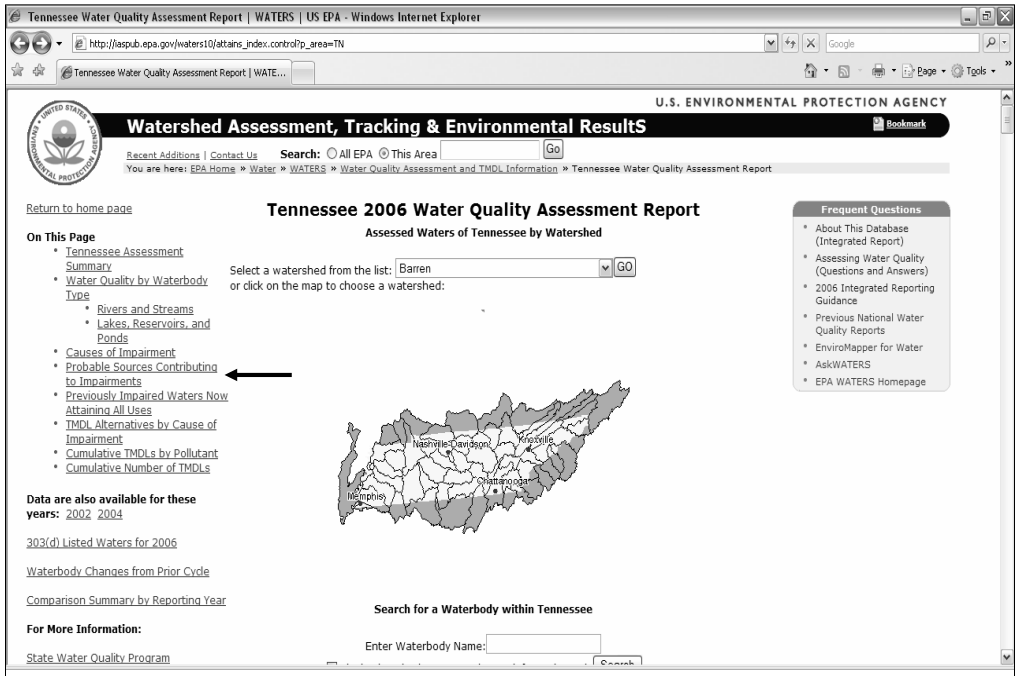


Tennessee Causes of Impairment for Reporting Year 2006

Description of this table

NOTE: Click on the underlined Cause of Impairment Group to see a list of specific state causes of impairment making up the Cause of Impairment Group.

Cause of Impairment Group	Size of Assessed Waters with Listed Causes of Impairment	
	Rivers and Streams (Miles)	Lakes, Reservoirs, and Ponds (Acres)
Ammonia	37	
Cause Unknown	125	
Chlorine	1	
Dioxins	256	10,370
Flow Alteration(s)	278	11,444
Habitat Alterations	5,588	
Mercury	27	2,336
Metals (other than Mercury)	420	2,254
Nuisance Exotic Species		4,555
Nutrients	2,518	15,766
Oil and Grease	56	
Organic Enrichment/Low Dissolved Oxygen	1,621	17,339
Pathogens	5,128	994
Pesticides	248	13,685
pH	375	10,955
Polychlorinated Biphenyls (PCBs)	299	94,928
Radiation	14	
Salinity/Total Dissolved Solids/Chlorides/Sulfates	54	
Sediment	5,821	18,175
Taste, Color and Odor	12	45
Temperature	99	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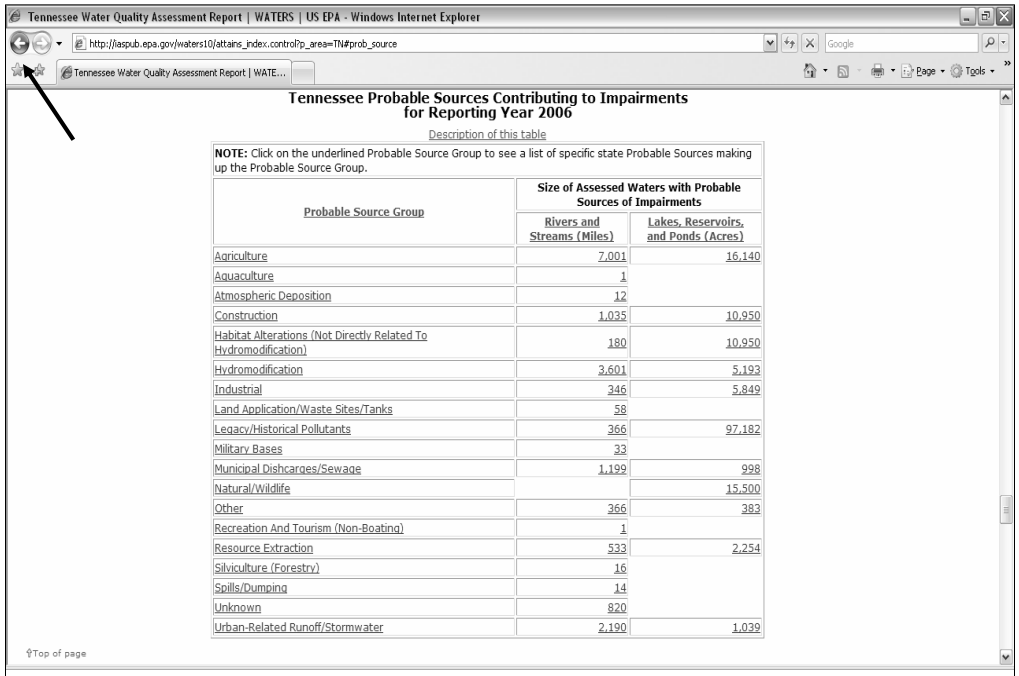

Tennessee Probable Sources Contributing to Impairments for Reporting Year 2006

Description of this table

NOTE: Click on the underlined Probable Source Group to see a list of specific state Probable Sources making up the Probable Source Group.

Probable Source Group	Size of Assessed Waters with Probable Sources of Impairments	
	Rivers and Streams (Miles)	Lakes, Reservoirs, and Ponds (Acres)
Agriculture	7,001	16,140
Aquaculture	1	
Atmospheric Deposition	12	
Construction	1,035	10,950
Habitat Alterations (Not Directly Related To Hydromodification)	180	10,950
Hydromodification	3,601	5,193
Industrial	346	5,849
Land Application/Waste Sites/Tanks	58	
Legacy/Historical Pollutants	366	97,182
Military Bases	33	
Municipal Dischargeс/Sewage	1,199	998
Natural/Wildlife		15,500
Other	366	383
Recreation And Tourism (Non-Boating)	1	
Resource Extraction	533	2,254
Silviculture (Forestry)	16	
Spills/Dumping	14	
Unknown	820	
Urban-Related Runoff/Stormwater	2,190	1,039

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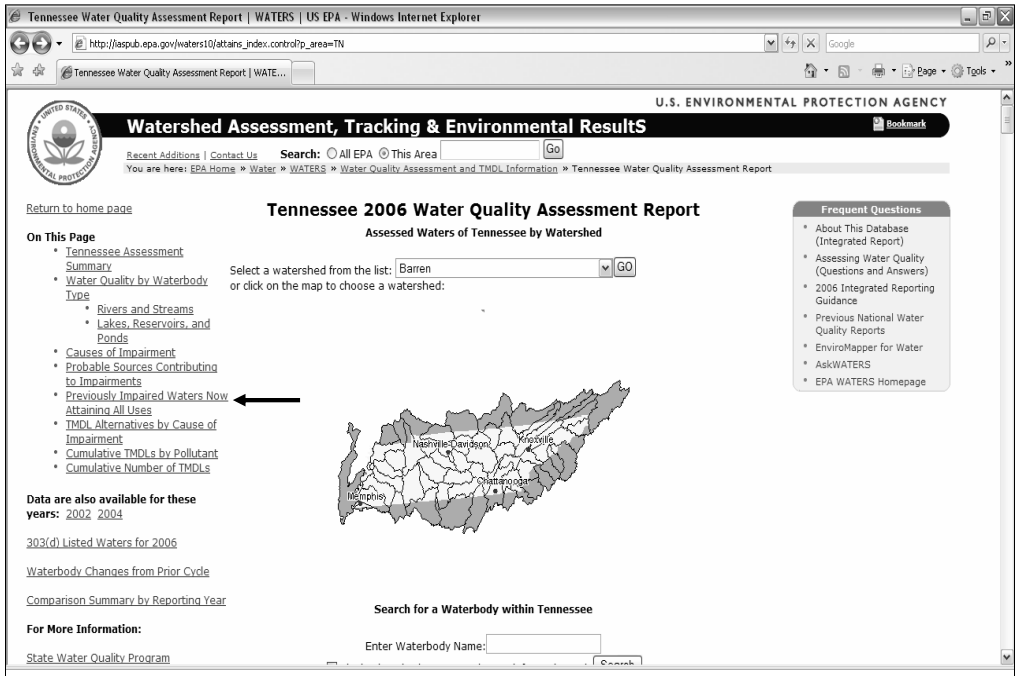
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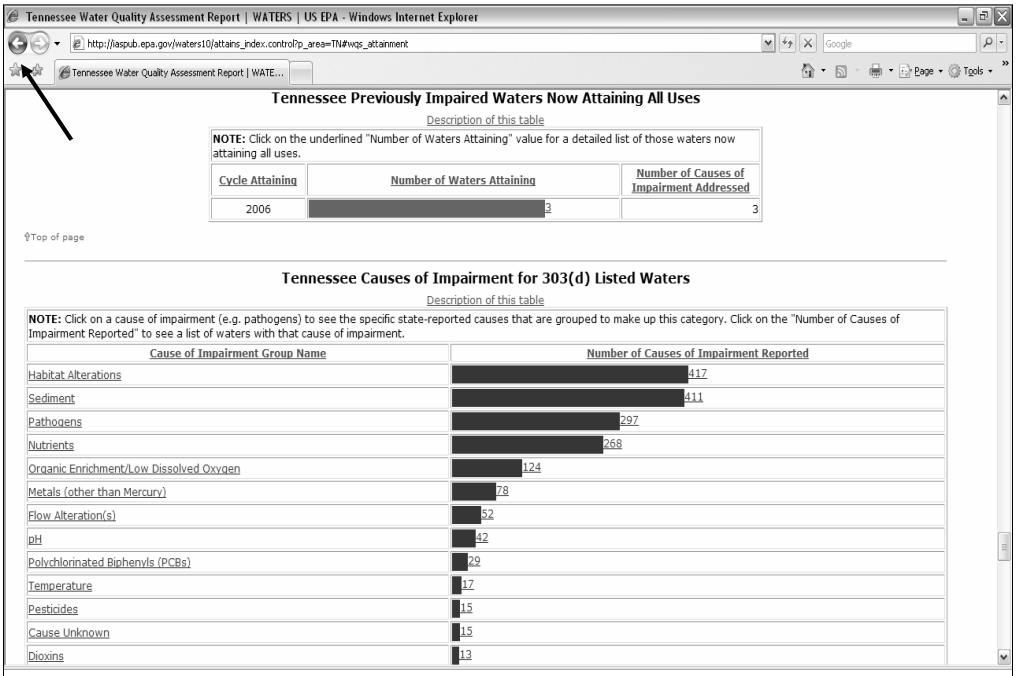
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Description of this table
NOTE: Click on the underlined "Number of Waters Attaining" value for a detailed list of those waters now attaining all uses.
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3
3
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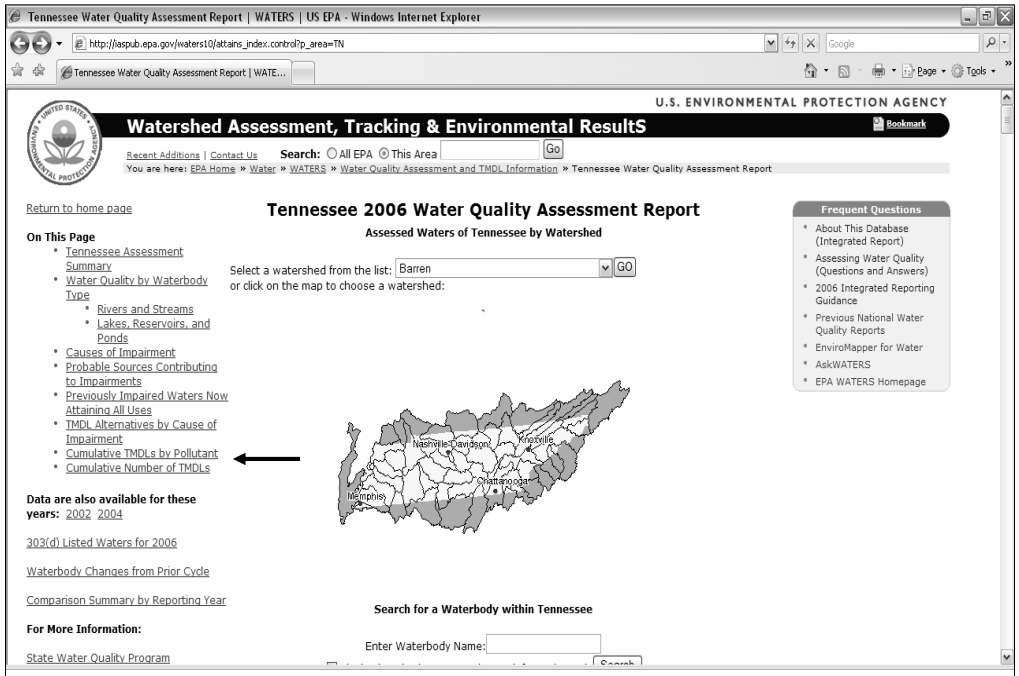
Description of this table
NOTE: Click on a cause of impairment (e.g. pathogens) to see the specific state-reported causes that are grouped to make up this category. Click on the "Number of Causes of Impairment Reported" to see a list of waters with that cause of impairment.
Cause of Impairment Group Name
Number of Causes of Impairment Reported
Habitat Alterations 417
Sediment 411
Pathogens 297
Nutrients 268
Organic Enrichment/Low Dissolved Oxygen 124
Metals (other than Mercury) 78
Flow Alteration(s) 52
pH 42
Polychlorinated Biphenyls (PCBs) 29
Temperature 17
Pesticides 15
Cause Unknown 15
Dioxins 13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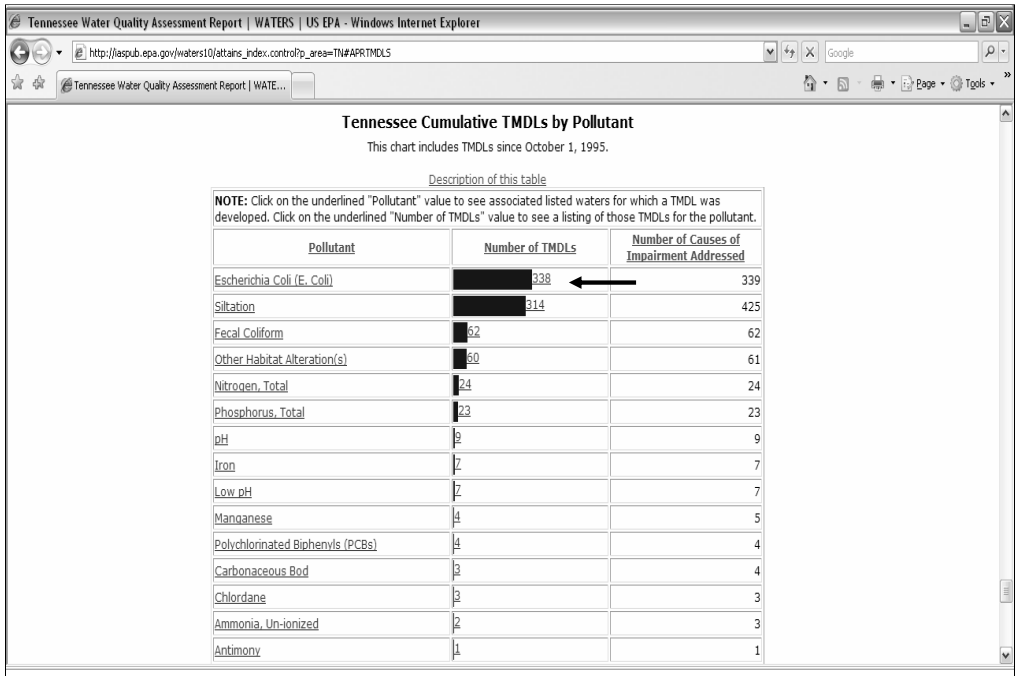


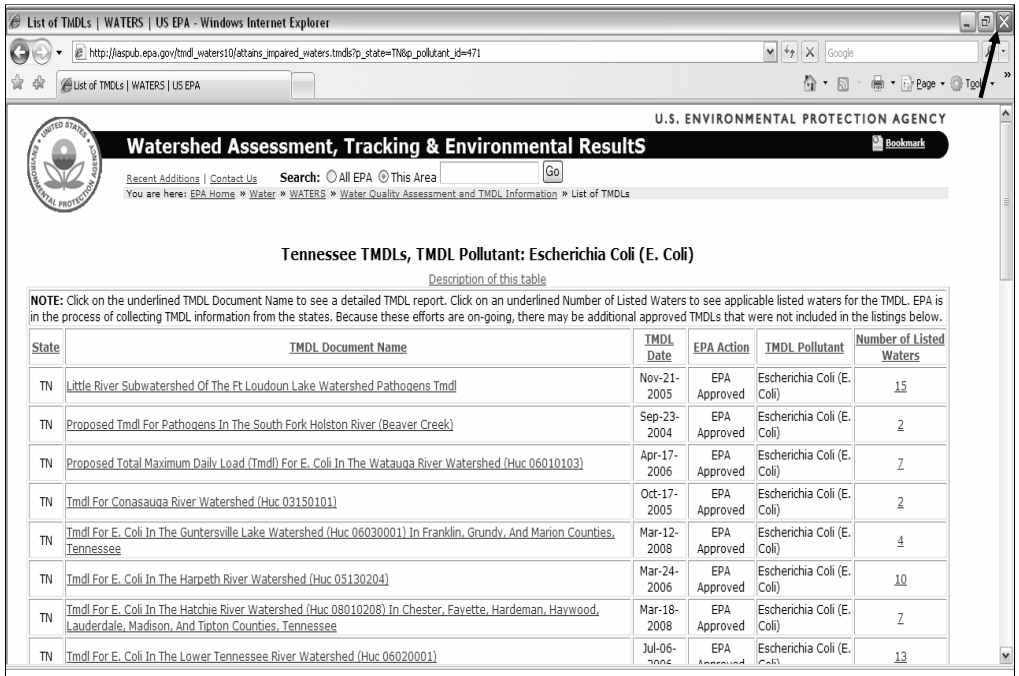
Tennessee Cumulative TMDLs by Pollutant

This chart includes TMDLs since October 1, 1995.

Description of this table

NOTE: Click on the underlined "Pollutant" value to see associated listed waters for which a TMDL was developed. Click on the underlined "Number of TMDLs" value to see a listing of those TMDLs for the pollutant.

Pollutant	Number of TMDLs	Number of Causes of Impairment Addressed
Escherichia Coli (E. Coli)	338	339
Siltation	314	425
Fecal Coliform	62	62
Other Habitat Alteration(s)	60	61
Nitrogen, Total	24	24
Phosphorus, Total	23	23
pH	9	9
Iron	7	7
Low pH	7	7
Manganese	4	5
Polychlorinated Biphenyls (PCBs)	4	4
Carbonaceous Bod	3	4
Chlordane	3	3
Ammonia, Un-ionized	2	3
Antimony	1	1

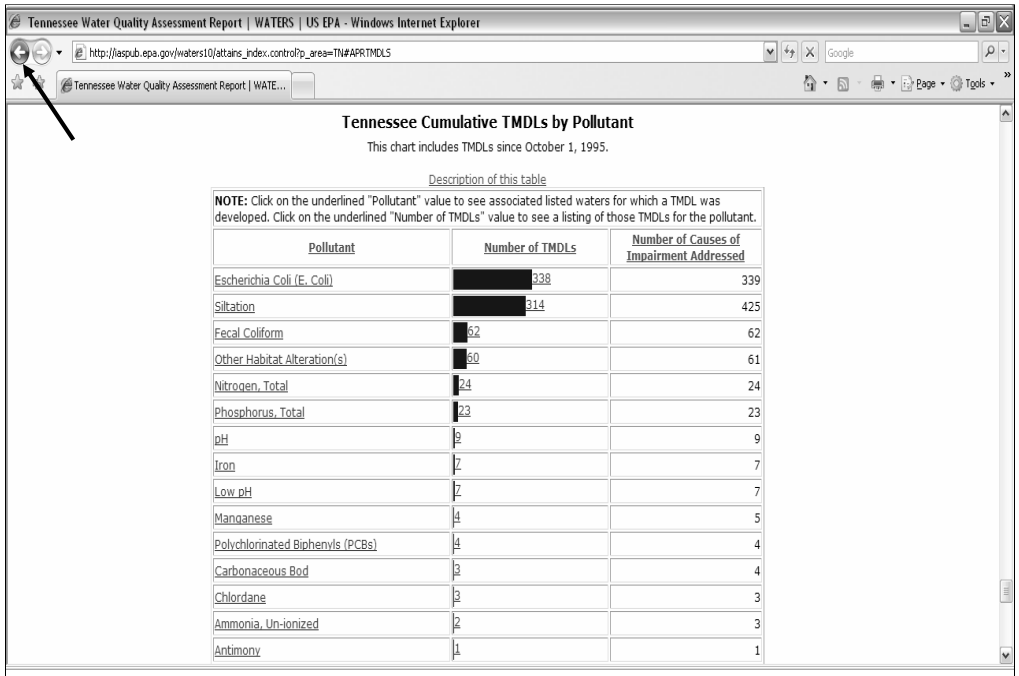


Tennessee TMDLs, TMDL Pollutant: Escherichia Coli (E. Coli)

Description of this table

NOTE: Click on the underlined TMDL Document Name to see a detailed TMDL report. Click on an underlined Number of Listed Waters to see applicable listed waters for the TMDL. EPA is in the process of collecting TMDL information from the states. Because these efforts are on-going, there may be additional approved TMDLs that were not included in the listings below.

State	TMDL Document Name	TMDL Date	EPA Action	TMDL Pollutant	Number of Listed Waters
TN	Little River Subwatershed Of The Ft Loudoun Lake Watershed Pathogens Tmdl	Nov-21-2005	EPA Approved	Escherichia Coli (E. Coli)	15
TN	Proposed Tmdl For Pathogens In The South Fork Holston River (Beaver Creek)	Sep-23-2004	EPA Approved	Escherichia Coli (E. Coli)	2
TN	Proposed Total Maximum Daily Load (Tmdl) For E. Coli In The Watauga River Watershed (Huc 06010103)	Apr-17-2006	EPA Approved	Escherichia Coli (E. Coli)	7
TN	Tmdl For Conasauga River Watershed (Huc 03150101)	Oct-17-2005	EPA Approved	Escherichia Coli (E. Coli)	2
TN	Tmdl For E. Coli In The Guntersville Lake Watershed (Huc 06030001) In Franklin, Grundy, And Marion Counties, Tennessee	Mar-12-2008	EPA Approved	Escherichia Coli (E. Coli)	4
TN	Tmdl For E. Coli In The Harpeth River Watershed (Huc 05130204)	Mar-24-2006	EPA Approved	Escherichia Coli (E. Coli)	10
TN	Tmdl For E. Coli In The Hatchie River Watershed (Huc 08010208) In Chester, Fayette, Hardeman, Haywood, Lauderdale, Madison, And Tipton Counties, Tennessee	Mar-18-2008	EPA Approved	Escherichia Coli (E. Coli)	7
TN	Tmdl For E. Coli In The Lower Tennessee River Watershed (Huc 06020001)	Jul-06-2006	EPA Approved	Escherichia Coli (E. Coli)	13



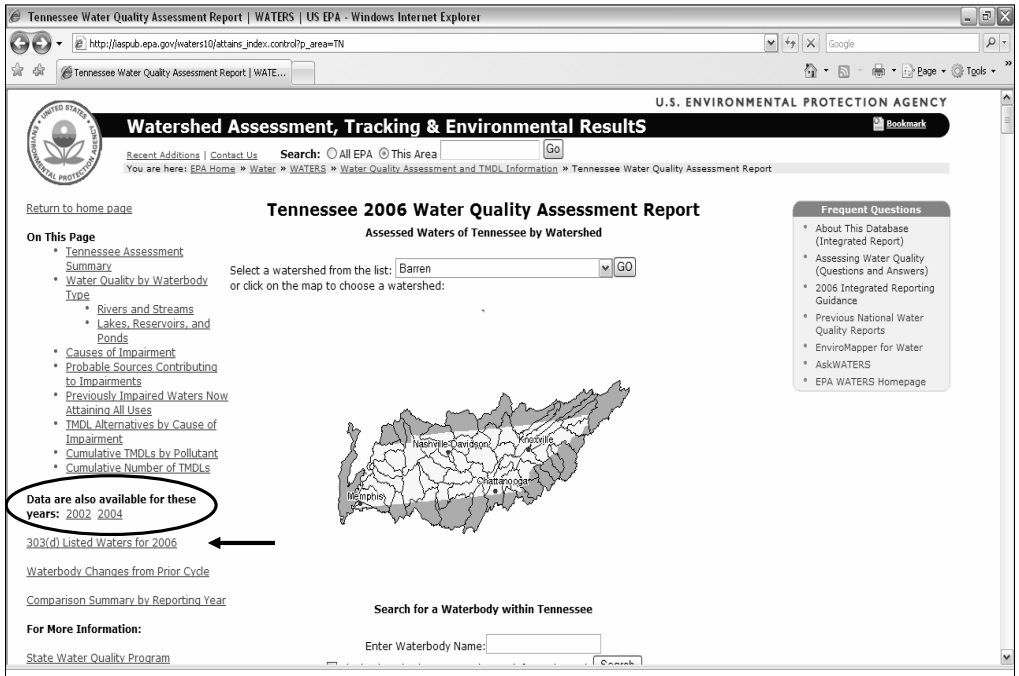
Tennessee Cumulative TMDLs by Pollutant

This chart includes TMDLs since October 1, 1995.

Description of this table

NOTE: Click on the underlined "Pollutant" value to see associated listed waters for which a TMDL was developed. Click on the underlined "Number of TMDLs" value to see a listing of those TMDLs for the pollutant.

Pollutant	Number of TMDLs	Number of Causes of Impairment Addressed
Escherichia Coli (E. Coli)	338	339
Siltation	314	425
Fecal Coliform	62	62
Other Habitat Alteration(s)	60	61
Nitrogen, Total	24	24
Phosphorus, Total	23	23
pH	9	9
Iron	7	7
Low pH	7	7
Manganese	4	5
Polychlorinated Biphenyls (PCBs)	4	4
Carbonaceous Bod	3	4
Chlordane	3	3
Ammonia, Un-ionized	2	3
Antimony	1	1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Cumulative TMDLs by Pollutant
Cumulative Number of TMDLs
Data are also available for these years: 2002 2004
303(d) Listed Waters for 2006
Waterbody Changes from Prior Cycle
Comparison Summary by Reporting Year
For More Information:
State Water Quality Program
Tennessee 2006 Water Quality Assessment Report
Assessed Waters of Tennessee by Watershed
Select a watershed from the list: Barren GO
or click on the map to choose a watershed:
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Knoxville
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Memphis
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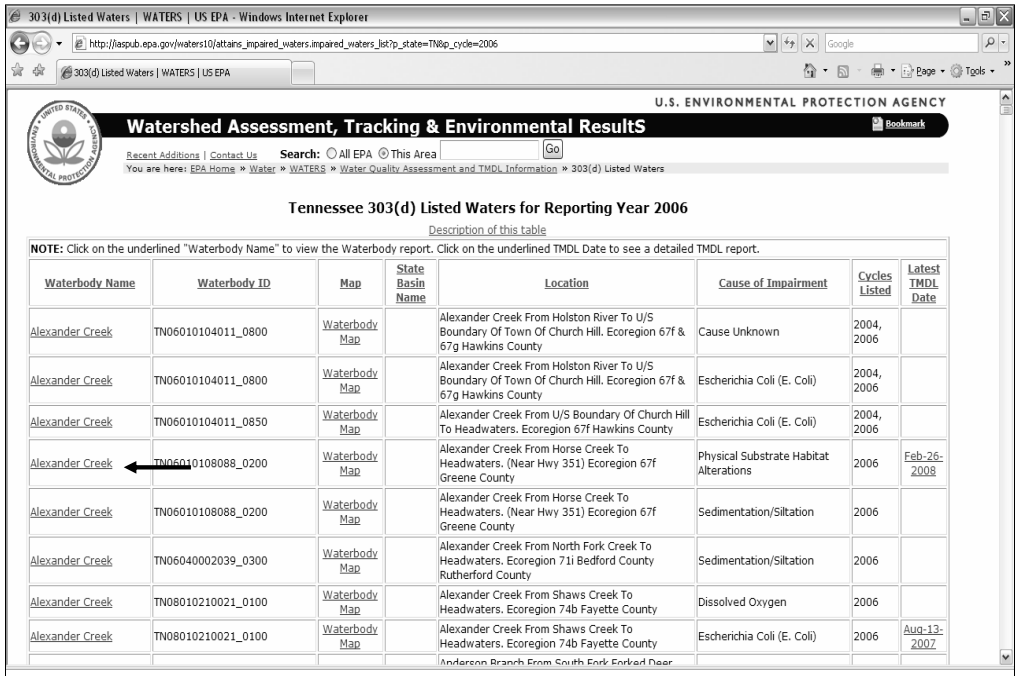
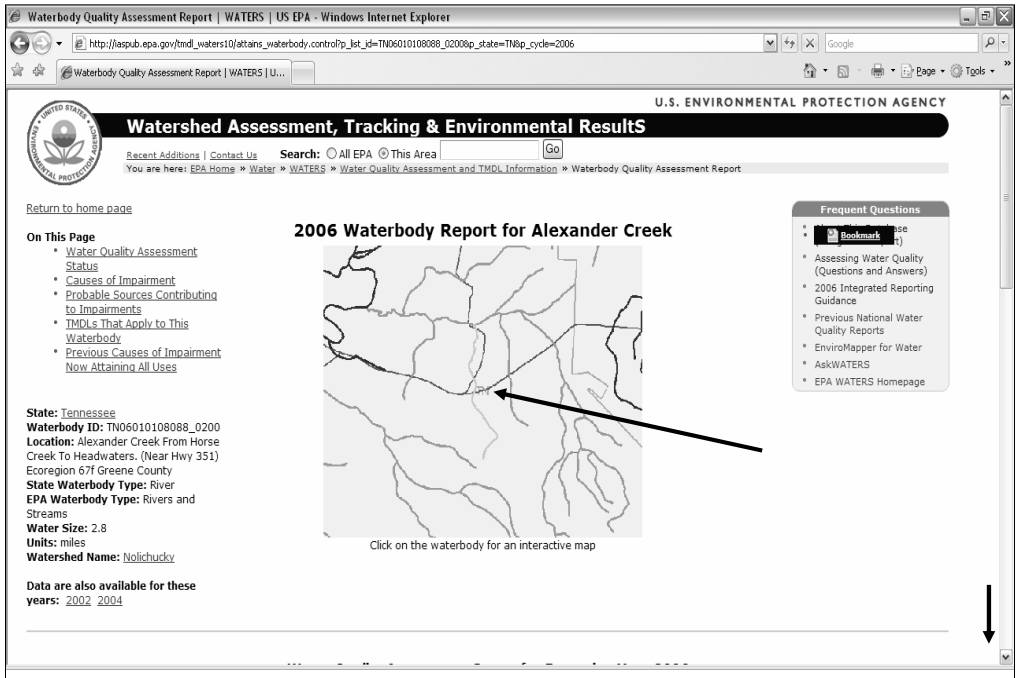


Tennessee 303(d) Listed Waters for Reporting Year 2006

Description of this table

NOTE: Click on the underlined "Waterbody Name" to view the Waterbody report. Click on the underlined TMDL Date to see a detailed TMDL report.

Waterbody Name	Waterbody ID	Map	State Basin Name	Location	Cause of Impairment	Cycles Listed	Latest TMDL Date
Alexander Creek	TN06010104011_0800	Waterbody Map		Alexander Creek From Holston River To U/S Boundary Of Town Of Church Hill. Ecoregion 67f & 67g Hawkins County	Cause Unknown	2004, 2006	
Alexander Creek	TN06010104011_0800	Waterbody Map		Alexander Creek From Holston River To U/S Boundary Of Town Of Church Hill. Ecoregion 67f & 67g Hawkins County	Escherichia Coli (E. Coli)	2004, 2006	
Alexander Creek	TN06010104011_0850	Waterbody Map		Alexander Creek From U/S Boundary Of Church Hill To Headwaters. Ecoregion 67f Hawkins County	Escherichia Coli (E. Coli)	2004, 2006	
Alexander Creek	TN06010108088_0200	Waterbody Map		Alexander Creek From Horse Creek To Headwaters. (Near Hwy 351) Ecoregion 67f Greene County	Physical Substrate Habitat Alterations	2006	Feb-26-2008
Alexander Creek	TN06010108088_0200	Waterbody Map		Alexander Creek From Horse Creek To Headwaters. (Near Hwy 351) Ecoregion 67f Greene County	Sedimentation/Siltation	2006	
Alexander Creek	TN06040002039_0300	Waterbody Map		Alexander Creek From North Fork Creek To Headwaters. Ecoregion 71i Bedford County Rutherford County	Sedimentation/Siltation	2006	
Alexander Creek	TN08010210021_0100	Waterbody Map		Alexander Creek From Shaws Creek To Headwaters. Ecoregion 74b Fayette County	Dissolved Oxygen	2006	
Alexander Creek	TN08010210021_0100	Waterbody Map		Alexander Creek From Shaws Creek To Headwaters. Ecoregion 74b Fayette County	Escherichia Coli (E. Coli)	2006	Aug-13-2007
				Anderson Branch From South Fork Forked Deer			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http://iaspub.epa.gov/tmdl_waters10/attains_waterbody.control?p_list_id=TN06010108088_02008p_state=TN&p_cycle=2006
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State: Tennessee
Waterbody ID: TN06010108088_0200
Location: Alexander Creek From Horse Creek To Headwaters. (Near Hwy 351) Ecoregion 67f Greene County
State Waterbody Type: River
EPA Waterbody Type: Rivers and Streams
Water Size: 2.8
Units: miles
Watershed Name: Nolichucky
Data are also available for these years: 2002 2004
2006 Waterbody Report for Alexander Creek
Click on the waterbody for an interactive map
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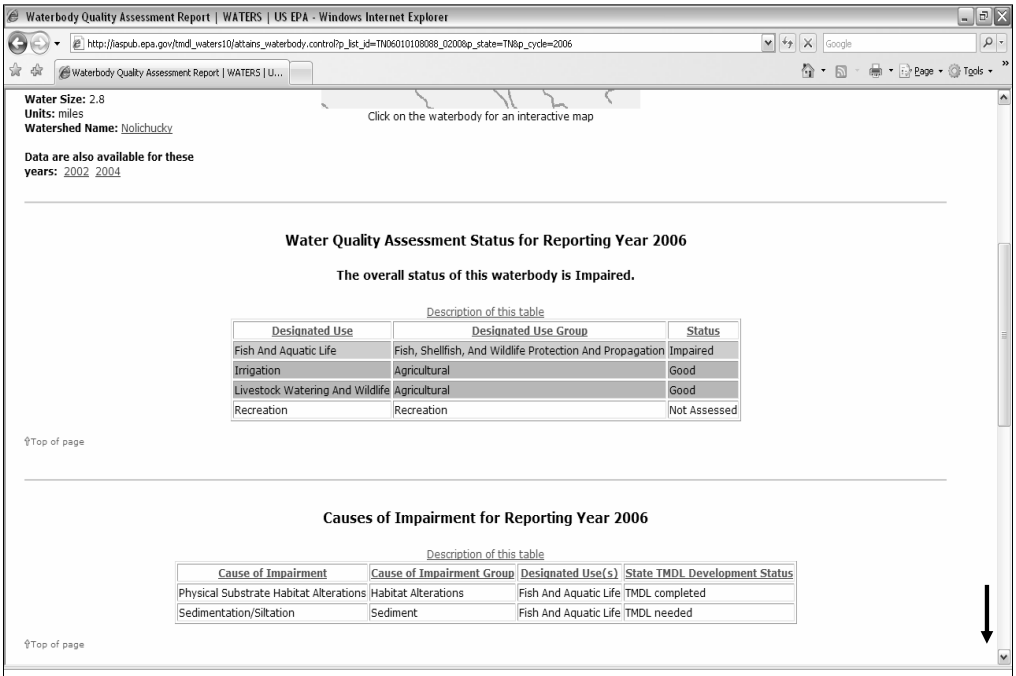
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Water Size: 2.8
Units: miles
Watershed Name: Nolichucky
Data are also available for these years: 2002 2004
Click on the waterbody for an interactive map
Water Quality Assessment Status for Reporting Year 2006
The overall status of this waterbody is Impaired.
Description of this table
Designated Use | Designated Use Group | Status
Fish And Aquatic Life | Fish, Shellfish, And Wildlife Protection And Propagation | Impaired
Irrigation | Agricultural | Good
Livestock Watering And Wildlife | Agricultural | Good
Recreation | Recreation | Not Assessed
Top of page
Causes of Impairment for Reporting Year 2006
Description of this table
Cause of Impairment | Cause of Impairment Group | Designated Use(s) | State TMDL Development Status
Physical Substrate Habitat Alterations | Habitat Alterations | Fish And Aquatic Life | TMDL completed
Sedimentation/Siltation | Sediment | Fish And Aquatic Life | TMDL needed
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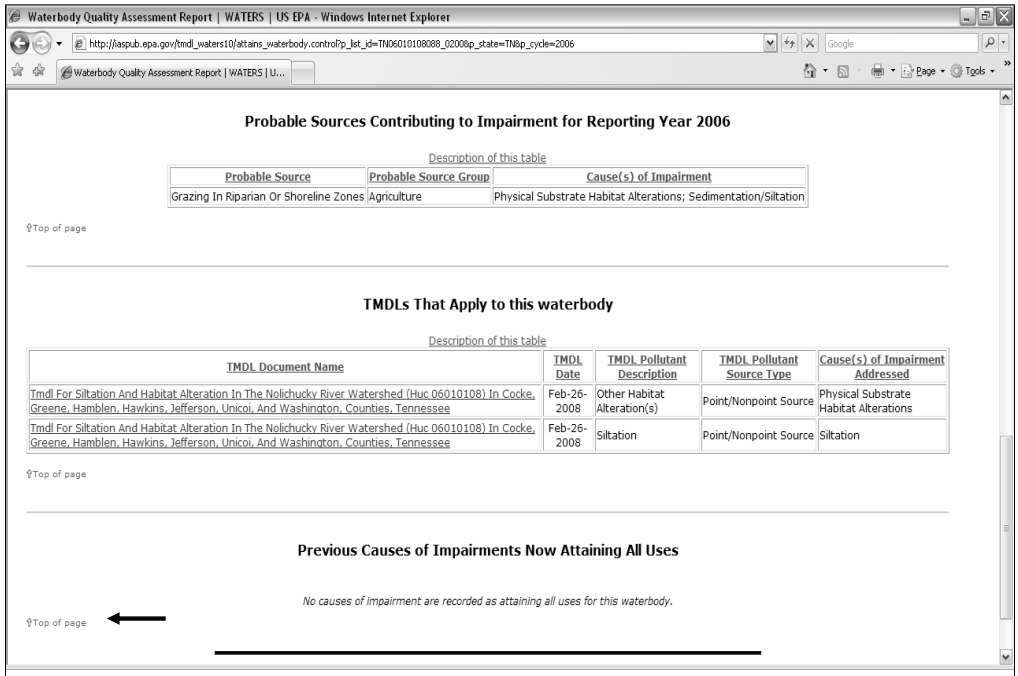
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Probable Sources Contributing to Impairment for Reporting Year 2006
Description of this table
Probable Source
Probable Source Group
Cause(s) of Impairment
Grazing In Riparian Or Shoreline Zones
Agriculture
Physical Substrate Habitat Alterations; Sedimentation/Siltation
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TMDLs That Apply to this waterbody
Description of this table
TMDL Document Name
TMDL Date
TMDL Pollutant Description
TMDL Pollutant Source Type
Cause(s) of Impairment Addressed
Tmdl For Siltation And Habitat Alteration In The Nolichucky River Watershed (Huc 06010108) In Cocke, Greene, Hamblen, Hawkins, Jefferson, Unicoi, And Washington, Counties, Tennessee
Feb-26-2008
Other Habitat Alteration(s)
Point/Nonpoint Source
Physical Substrate Habitat Alterations
Tmdl For Siltation And Habitat Alteration In The Nolichucky River Watershed (Huc 06010108) In Cocke, Greene, Hamblen, Hawkins, Jefferson, Unicoi, And Washington, Counties, Tennessee
Feb-26-2008
Siltation
Point/Nonpoint Source
Siltation
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Previous Causes of Impairments Now Attaining All Uses
No causes of impairment are recorded as attaining all uses for this waterbody.
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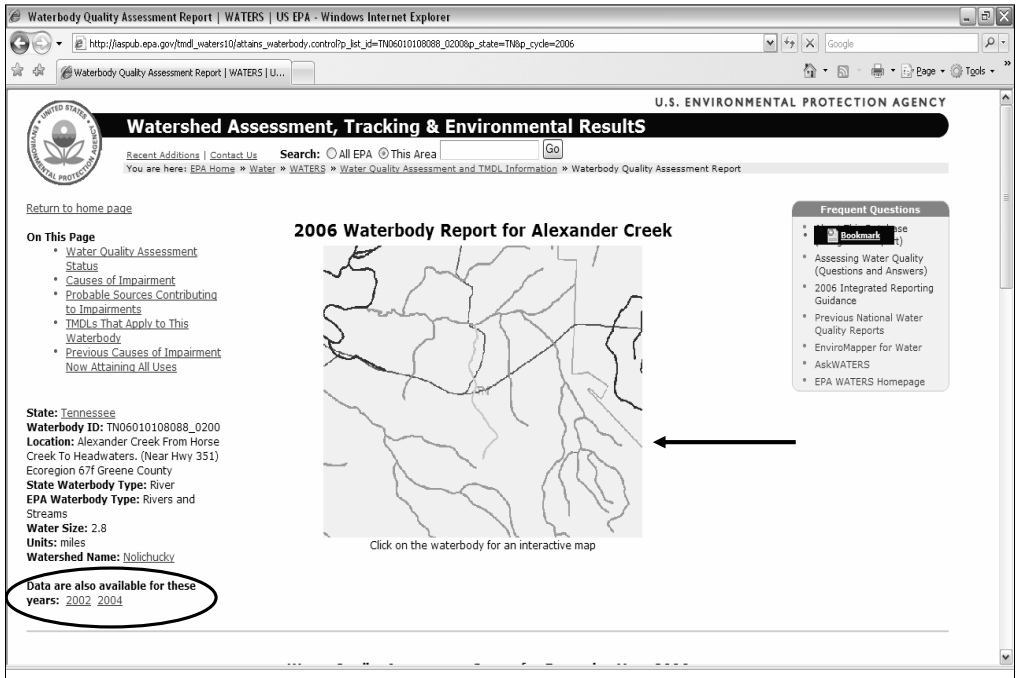
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State: Tennessee
Waterbody ID: TN06010108088_0200
Location: Alexander Creek From Horse Creek To Headwaters. (Near Hwy 351) Ecoregion 67f Greene County
State Waterbody Type: River
EPA Waterbody Type: Rivers and Streams
Water Size: 2.8
Units: miles
Watershed Name: Nolichucky
Data are also available for these years: 2002 2004
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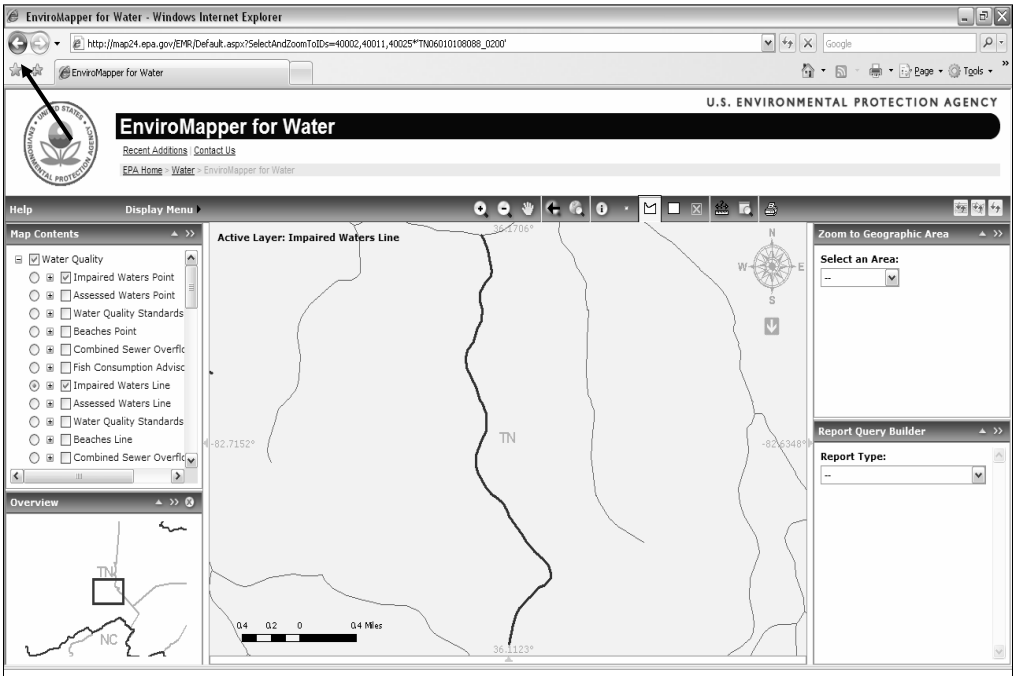
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-82.6348°
36.1123°
TN
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Report Type:
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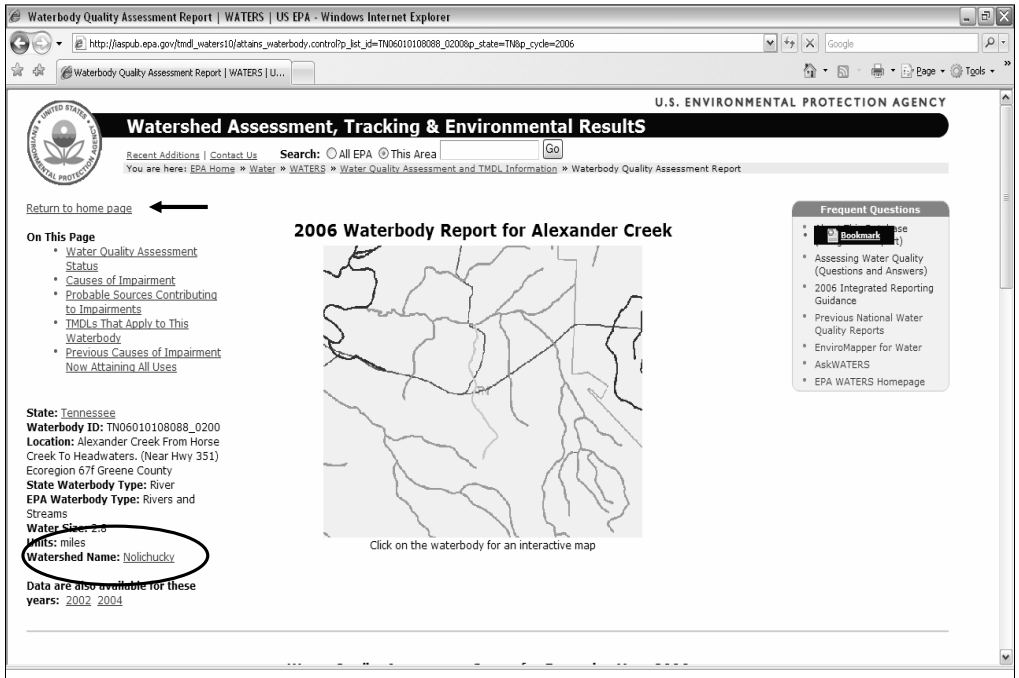
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Waterbody ID: TN06010108088_0200
Location: Alexander Creek From Horse Creek To Headwaters. (Near Hwy 351) Ecoregion 67f Greene County
State Waterbody Type: River
EPA Waterbody Type: Rivers and Streams
Water Size: 2.8
Units: miles
Watershed Name: Nolichucky
Data are also available for these years: 2002 2004
2006 Waterbody Report for Alexander Creek
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Dwane Young, USEPA's Monitoring Branch

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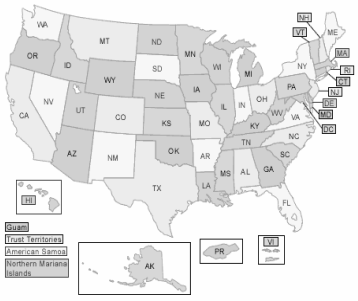
Because of differences in state assessment methods, the information in this site should not be used to compare water quality conditions between states or to determine water quality trends. Check out the Frequent Questions box on the right to learn more.

Which state reports are available? National Summary of State Information



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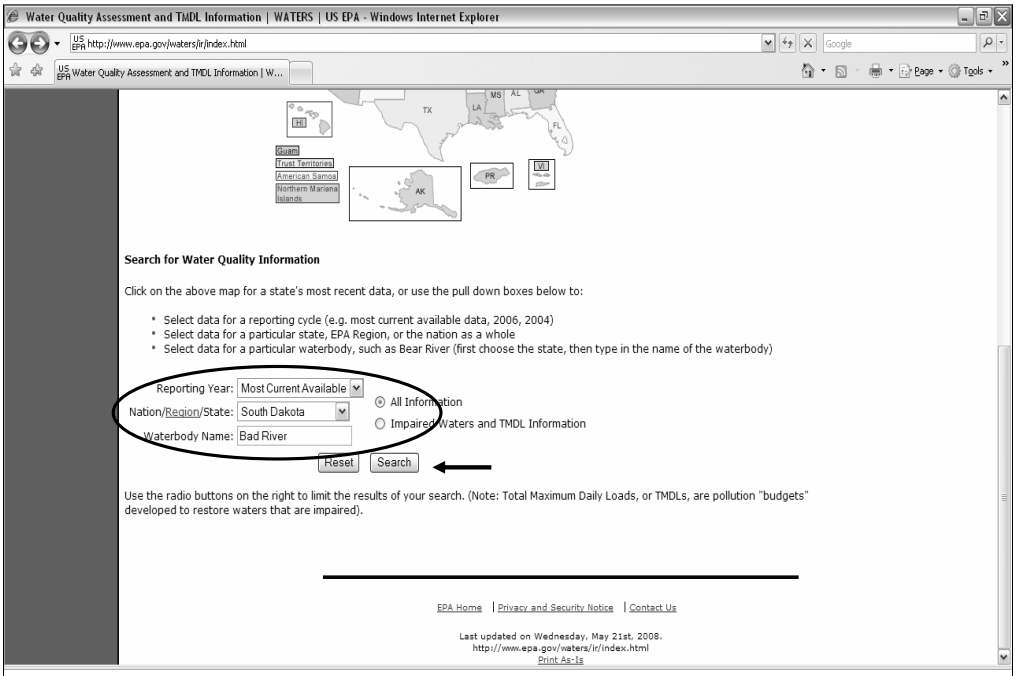
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Reporting Year: Most Current Available
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Waterbody Name: Bad River
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Impaired Waters and TMDL Information
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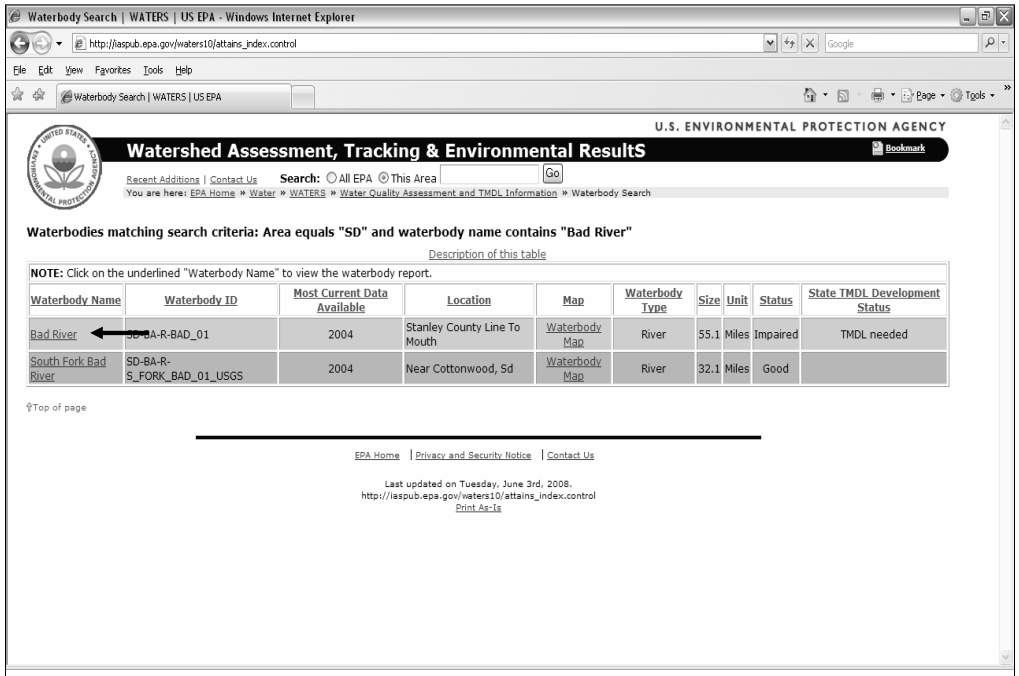
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Waterbodies matching search criteria: Area equals "SD" and waterbody name contains "Bad River"
Description of this table
NOTE: Click on the underlined "Waterbody Name" to view the waterbody report.
Waterbody Name | Waterbody ID | Most Current Data Available | Location | Map | Waterbody Type | Size | Unit | Status | State TMDL Development Status
Bad River | SD-BA-R-BAD_01 | 2004 | Stanley County Line To Mouth | Waterbody Map | River | 55.1 | Miles | Impaired | TMDL needed
South Fork Bad River | SD-BA-R-S_FORK_BAD_01_USGS | 2004 | Near Cottonwood, Sd | Waterbody Map | River | 32.1 | Miles | Good |
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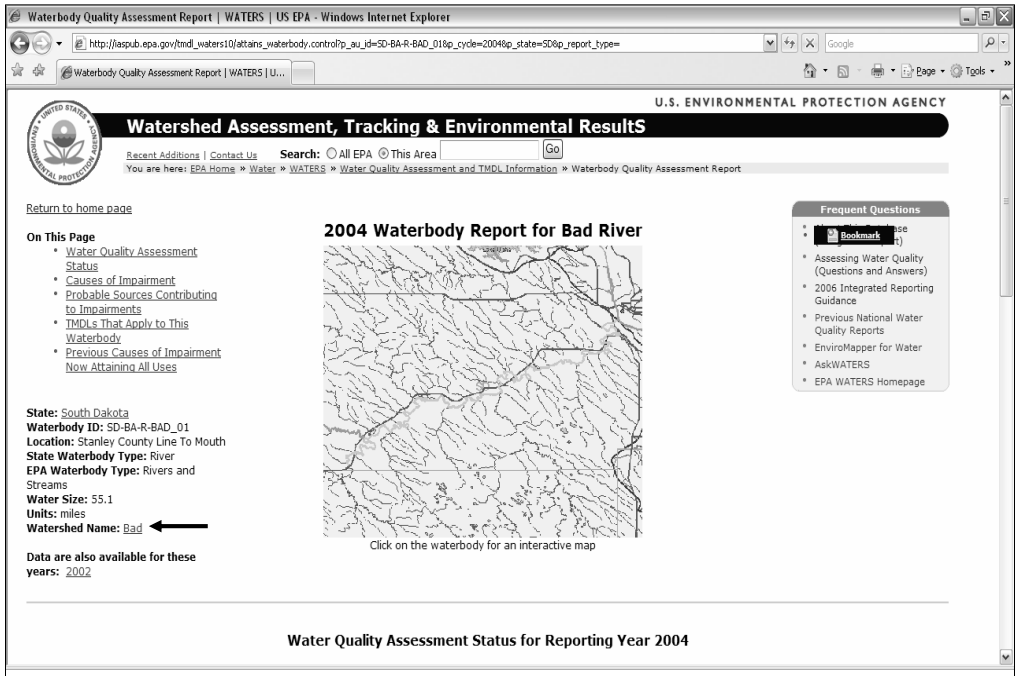
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State: South Dakota
Waterbody ID: SD-BA-R-BAD_01
Location: Stanley County Line To Mouth
State Waterbody Type: River
EPA Waterbody Type: Rivers and Streams
Water Size: 55.1
Units: miles
Watershed Name: Bad
Data are also available for these years: 2002
2004 Waterbody Report for Bad River
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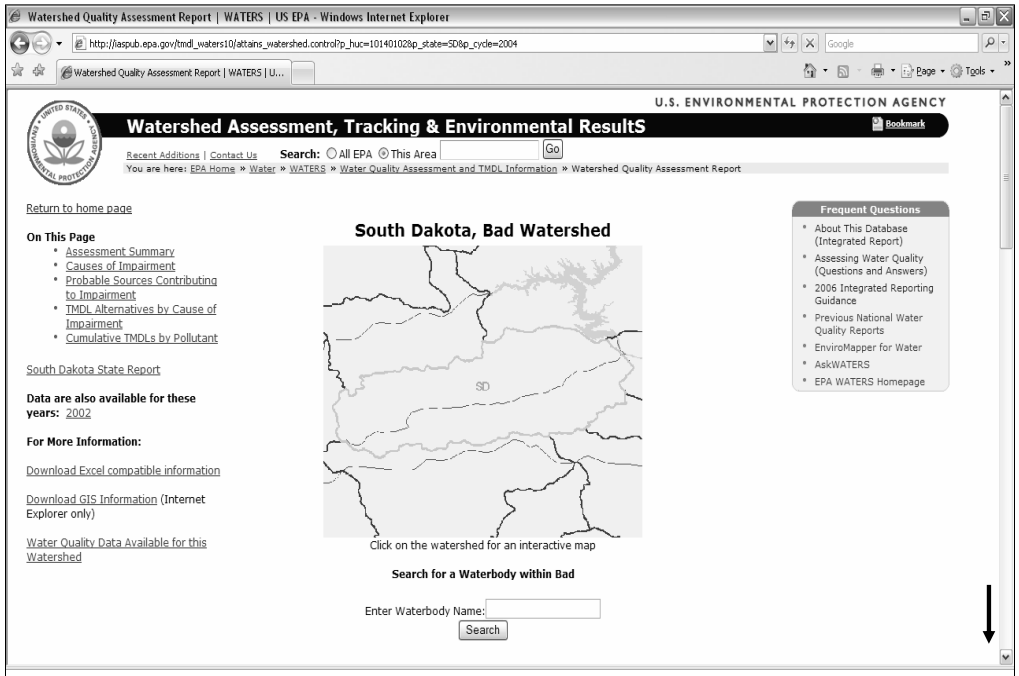
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South Dakota State Report
Data are also available for these years: 2002
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South Dakota, Bad Watershed
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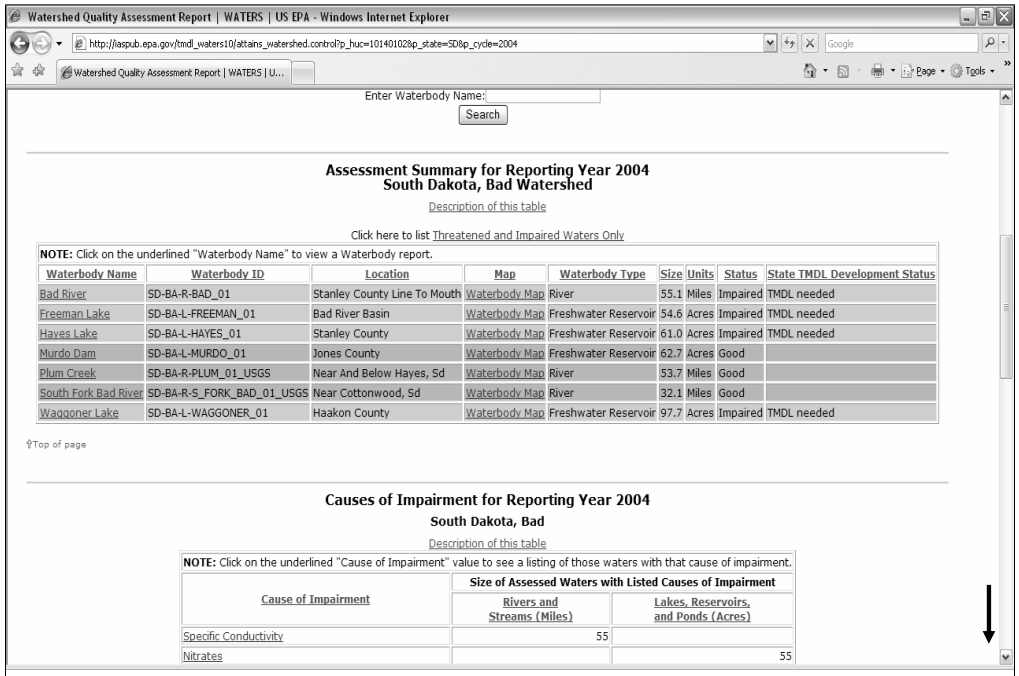
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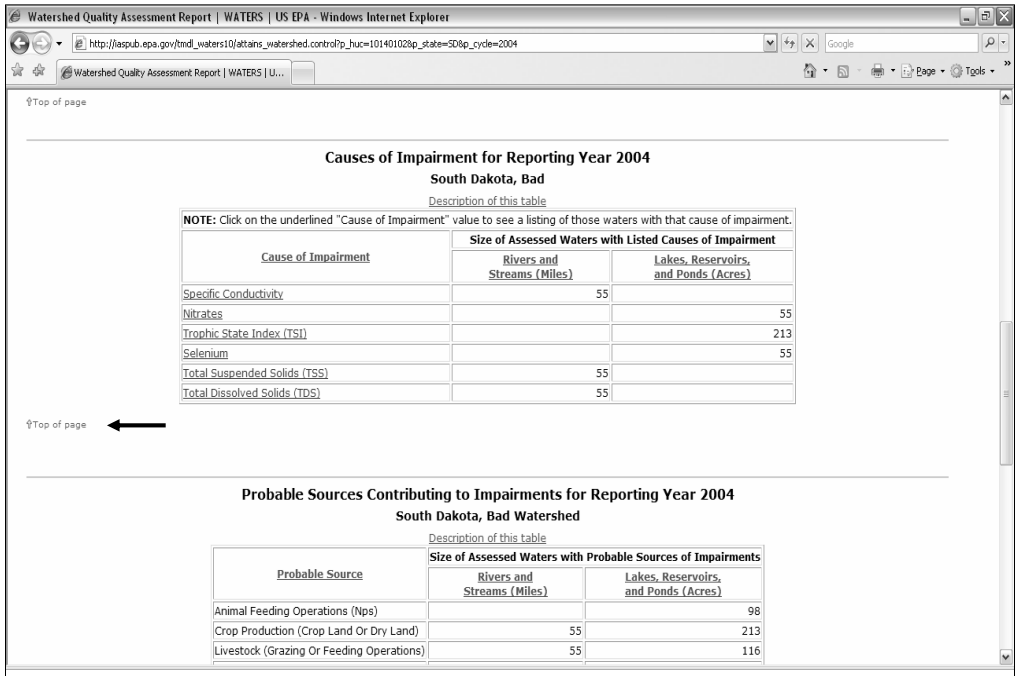
Assessment Summary for Reporting Year 2004
South Dakota, Bad Watershed
Description of this table
Click here to list Threatened and Impaired Waters Only
NOTE: Click on the underlined "Waterbody Name" to view a Waterbody report.
Waterbody Name | Waterbody ID | Location | Map | Waterbody Type | Size | Units | Status | State TMDL Development Status
Bad River | SD-BA-R-BAD_01 | Stanley County Line To Mouth | Waterbody Map | River | 55.1 | Miles | Impaired | TMDL needed
Freeman Lake | SD-BA-L-FREEMAN_01 | Bad River Basin | Waterbody Map | Freshwater Reservoir | 54.6 | Acres | Impaired | TMDL needed
Hayes Lake | SD-BA-L-HAYES_01 | Stanley County | Waterbody Map | Freshwater Reservoir | 61.0 | Acres | Impaired | TMDL needed
Murdo Dam | SD-BA-L-MURDO_01 | Jones County | Waterbody Map | Freshwater Reservoir | 62.7 | Acres | Good
Plum Creek | SD-BA-R-PLUM_01_USGS | Near And Below Hayes, Sd | Waterbody Map | River | 53.7 | Miles | Good
South Fork Bad River | SD-BA-R-S_FORK_BAD_01_USGS | Near Cottonwood, Sd | Waterbody Map | River | 32.1 | Miles | Good
Waggoner Lake | SD-BA-L-WAGGONER_01 | Haakon County | Waterbody Map | Freshwater Reservoir | 97.7 | Acres | Impaired | TMDL needed
Top of page
Causes of Impairment for Reporting Year 2004
South Dakota, Bad
Description of this table
NOTE: Click on the underlined "Cause of Impairment" value to see a listing of those waters with that cause of impairment.
Cause of Impairment | Size of Assessed Waters with Listed Causes of Impairment
Rivers and Streams (Miles) | Lakes, Reservoirs, and Ponds (Acres)
Specific Conductivity | 55
Nitrates | 55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Description of this table
NOTE: Click on the underlined "Cause of Impairment" value to see a listing of those waters with that cause of impairment.
Cause of Impairment
Size of Assessed Waters with Listed Causes of Impairment
Rivers and Streams (Miles)
Lakes, Reservoirs, and Ponds (Acres)
Specific Conductivity 55
Nitrates 55
Trophic State Index (TSI) 213
Selenium 55
Total Suspended Solids (TSS) 55
Total Dissolved Solids (TDS) 55
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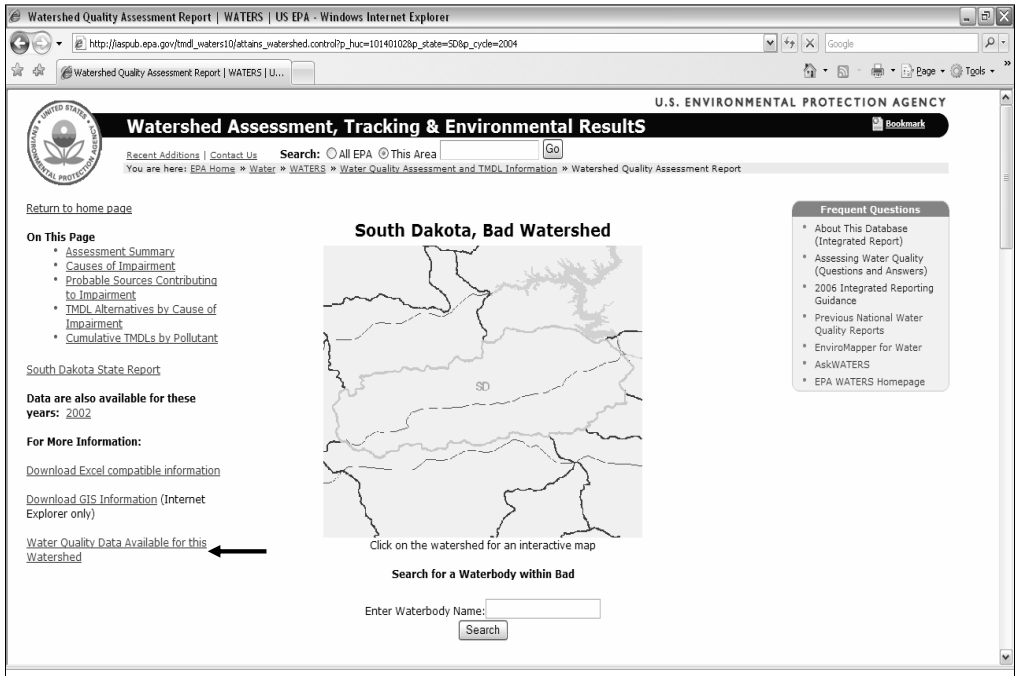
Probable Sources Contributing to Impairments for Reporting Year 2004
South Dakota, Bad Watershed
Description of this table
Probable Source
Size of Assessed Waters with Probable Sources of Impairments
Rivers and Streams (Miles)
Lakes, Reservoirs, and Ponds (Acres)
Animal Feeding Operations (Nps) 98
Crop Production (Crop Land Or Dry Land) 55 213
Livestock (Grazing Or Feeding Operations) 55 116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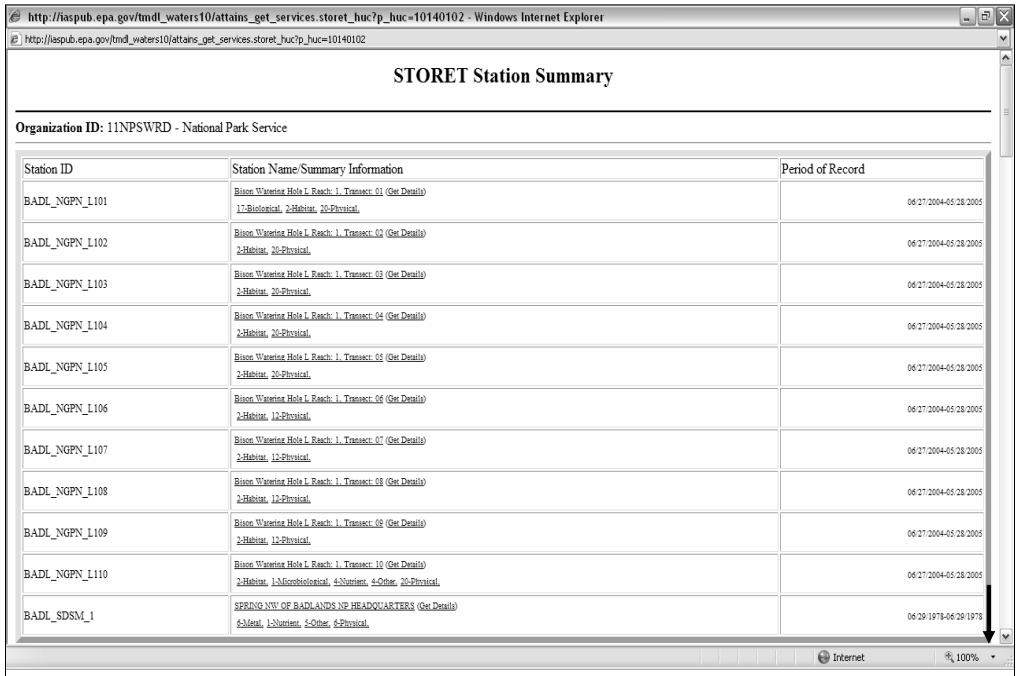
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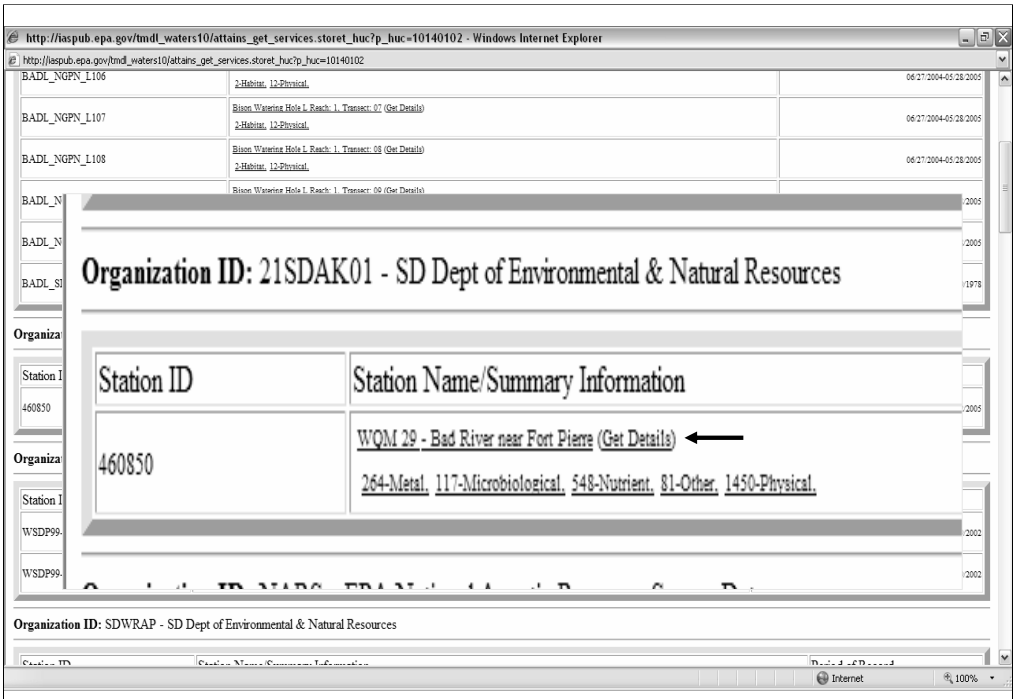
STORET Station Summary
Organization ID: 11NPSWRD - National Park Service
Station ID
Station Name/Summary Information
Period of Record
BADL_NGPN_L101
Bison Watering Hole I, Reach: 1, Transect: 01 (Get Details)
17-Biological, 2-Habitat, 20-Physical,
06/27/2004-05/28/2005
BADL_NGPN_L102
Bison Watering Hole I, Reach: 1, Transect: 02 (Get Details)
2-Habitat, 20-Physical,
06/27/2004-05/28/2005
BADL_NGPN_L103
Bison Watering Hole I, Reach: 1, Transect: 03 (Get Details)
2-Habitat, 20-Physical,
06/27/2004-05/28/2005
BADL_NGPN_L104
Bison Watering Hole I, Reach: 1, Transect: 04 (Get Details)
2-Habitat, 20-Physical,
06/27/2004-05/28/2005
BADL_NGPN_L105
Bison Watering Hole I, Reach: 1, Transect: 05 (Get Details)
2-Habitat, 20-Physical,
06/27/2004-05/28/2005
BADL_NGPN_L106
Bison Watering Hole I, Reach: 1, Transect: 06 (Get Details)
2-Habitat, 12-Physical,
06/27/2004-05/28/2005
BADL_NGPN_L107
Bison Watering Hole I, Reach: 1, Transect: 07 (Get Details)
2-Habitat, 12-Physical,
06/27/2004-05/28/2005
BADL_NGPN_L108
Bison Watering Hole I, Reach: 1, Transect: 08 (Get Details)
2-Habitat, 12-Physical,
06/27/2004-05/28/2005
BADL_NGPN_L109
Bison Watering Hole I, Reach: 1, Transect: 09 (Get Details)
2-Habitat, 12-Physical,
06/27/2004-05/28/2005
BADL_NGPN_L110
Bison Watering Hole I, Reach: 1, Transect: 10 (Get Details)
2-Habitat, 1-Microbiological, 4-Nutrient, 4-Other, 20-Physical,
06/27/2004-05/28/2005
BADL_SDSM_1
SPRING NW OF BADLANDS NP HEADQUARTERS (Get Details)
6-Metal, 1-Nutrient, 5-Other, 6-Physical,
06/29/1978-06/29/1978
Internet
100%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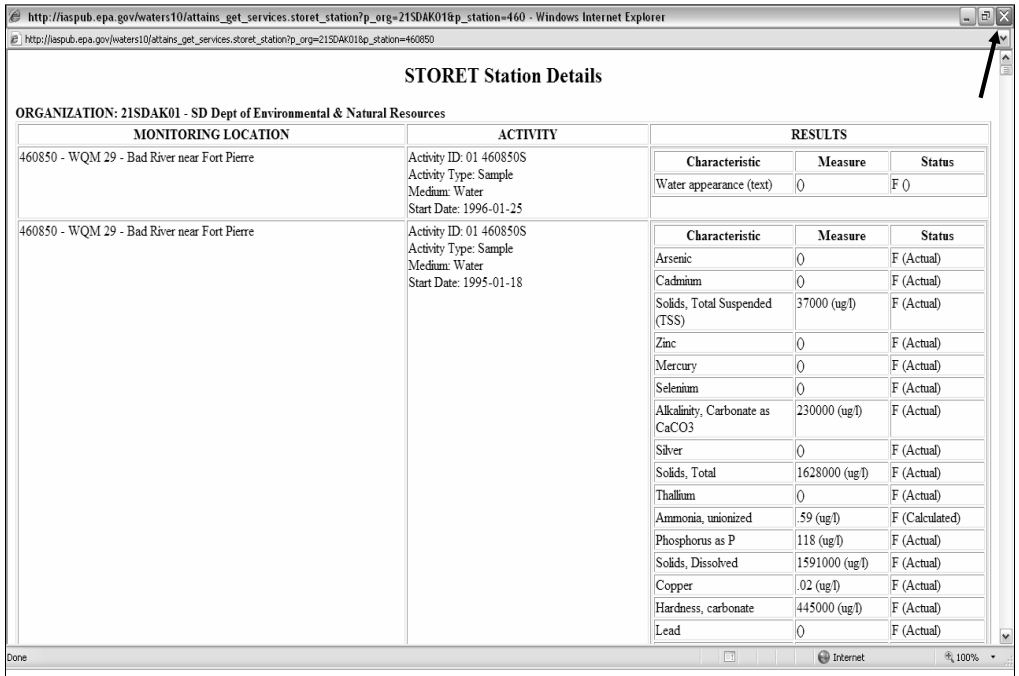
http://iaspub.epa.gov/tmdl_waters10/attains_get_services.storet_huc?p_huc=10140102
BADL_NGPN_L106
2-Habitat, 12-Physical.
06/27/2004-05/28/2005
BADL_NGPN_L107
Bison Watering Hole I, Reach: 1, Transect: 07 (Get Details)
2-Habitat, 12-Physical.
06/27/2004-05/28/2005
BADL_NGPN_L108
Bison Watering Hole I, Reach: 1, Transect: 08 (Get Details)
2-Habitat, 12-Physical.
06/27/2004-05/28/2005
Organization ID: 21SDAK01 - SD Dept of Environmental & Natural Resources
Station ID
Station Name/Summary Information
460850
WQM 29 - Bad River near Fort Pierre (Get Details)
264-Metal, 117-Microbiological, 548-Nutrient, 81-Other, 1450-Physical.
Organization ID: SDWRAP - SD Dept of Environmental & Natural Resources
Internet
100%

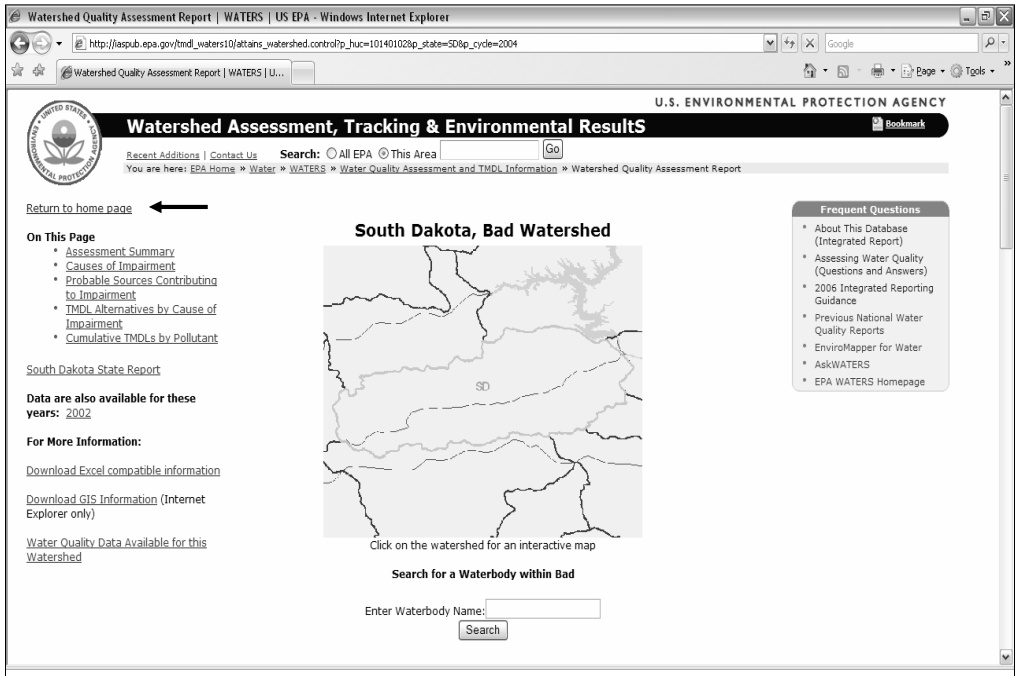


STORET Station Details

ORGANIZATION: 21SDAK01 - SD Dept of Environmental & Natural Resources

MONITORING LOCATION	ACTIVITY	RESULTS
460850 - WQM 29 - Bad River near Fort Pierre	Activity ID: 01 460850S Activity Type: Sample Medium: Water Start Date: 1996-01-25	Characteristic: Water appearance (text) — Measure: () — Status: F ()
460850 - WQM 29 - Bad River near Fort Pierre	Activity ID: 01 460850S Activity Type: Sample Medium: Water Start Date: 1995-01-18	See table below

Characteristic	Measure	Status
Arsenic	()	F (Actual)
Cadmium	()	F (Actual)
Solids, Total Suspended (TSS)	37000 (ug/l)	F (Actual)
Zinc	()	F (Actual)
Mercury	()	F (Actual)
Selenium	()	F (Actual)
Alkalinity, Carbonate as CaCO3	230000 (ug/l)	F (Actual)
Silver	()	F (Actual)
Solids, Total	1628000 (ug/l)	F (Actual)
Thallium	()	F (Actual)
Ammonia, unionized	.59 (ug/l)	F (Calculated)
Phosphorus as P	118 (ug/l)	F (Actual)
Solids, Dissolved	1591000 (ug/l)	F (Actual)
Copper	.02 (ug/l)	F (Actual)
Hardness, carbonate	445000 (ug/l)	F (Actual)
Lead	()	F (Actual)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This site provides information reported by the states to EPA about the conditions in their surface waters. This information is required every two years under Clean Water Act Sections 305(b) and 303(d).

Because of differences in state assessment methods, the information in this site should not be used to compare water quality conditions between states or to determine water quality trends. Check out the Frequent Questions box on the right to learn more.

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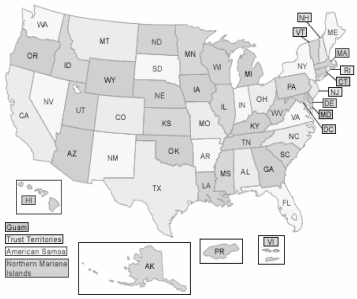

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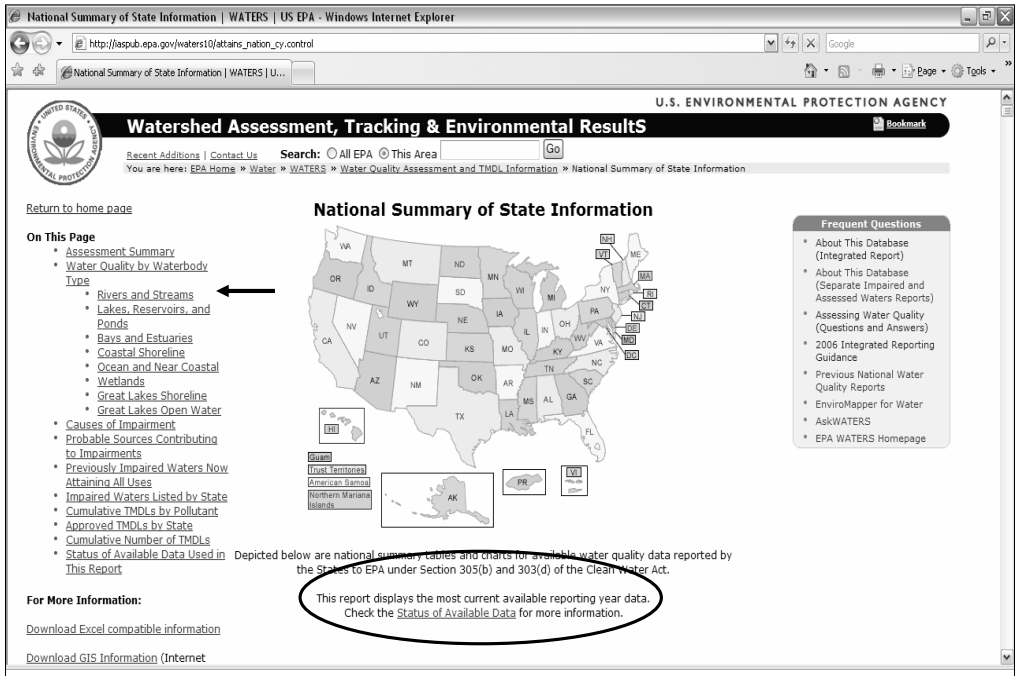
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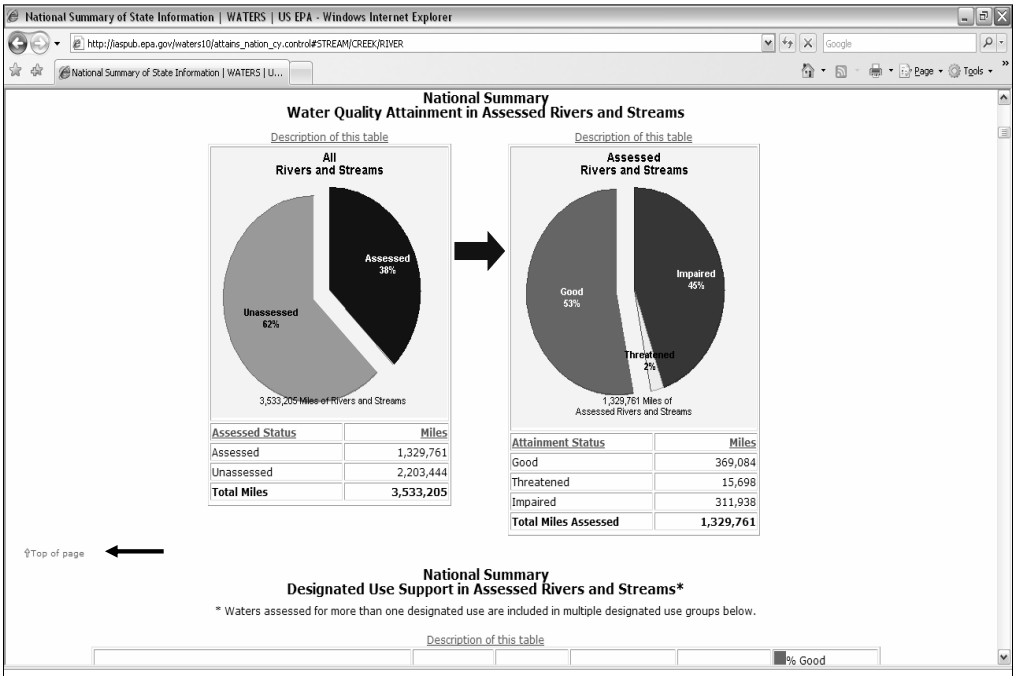
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Water Quality Attainment in Assessed Rivers and Streams
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All
Rivers and Streams
Assessed
38%
Unassessed
62%
3,533,205 Miles of Rivers and Streams
Assessed Status
Miles
Assessed
1,329,761
Unassessed
2,203,444
Total Miles
3,533,205
Description of this table
Assessed
Rivers and Streams
Impaired
45%
Good
53%
Threatened
2%
1,329,761 Miles of
Assessed Rivers and Streams
Attainment Status
Miles
Good
369,084
Threatened
15,698
Impaired
311,938
Total Miles Assessed
1,329,761
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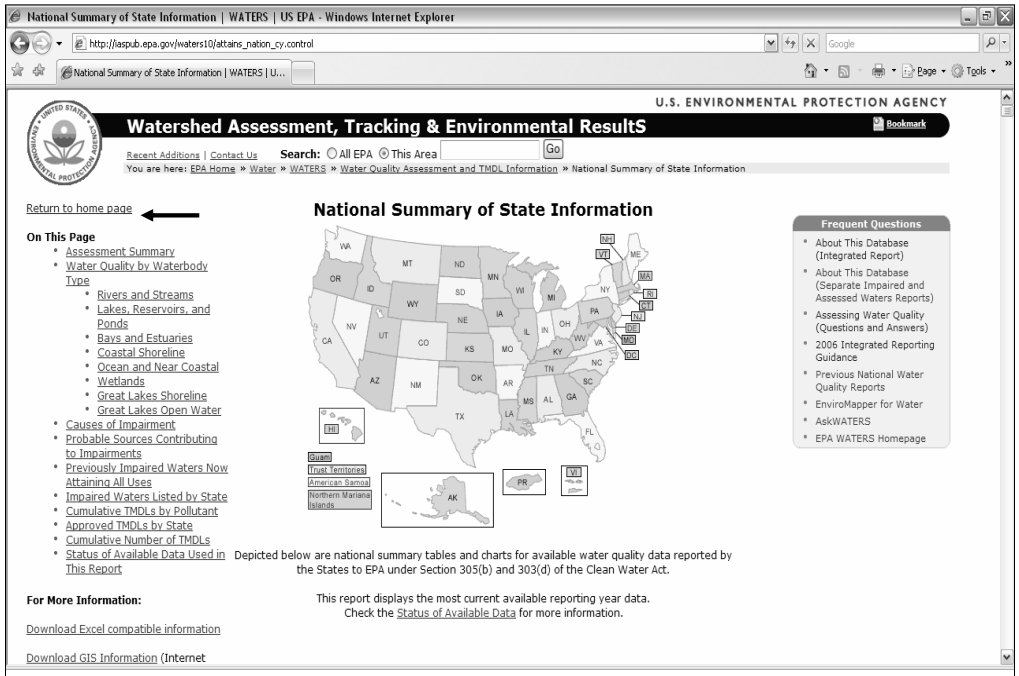
Designated Use Support in Assessed Rivers and Streams*
* Waters assessed for more than one designated use are included in multiple designated use groups below.
Description of this table
% Good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Dwane Young, USEPA's Monitoring Branch

Shera Bender, USEPA's Watershed Branch

Sarah Furtak, USEPA's Watershed Branch

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