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# **DATA COLLECTION FOR THE HAZARDOUS WASTE IDENTIFICATION RULE**

## **SECTION 6.0 SURFACE WATER DATA**

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A number of individuals have been involved in the development and implementation of the data collection methodologies and computer programs described herein. Tim Bondelid planned and directed the STORET data extraction efforts, and Keith Little performed the baseflow regression analysis. Bob Ambrose of EPA Office of Research and Development developed most of the national data inputs. Linda Andrews and Ed Rickman processed the data for use in the model. Cindi Salmons was the quality assurance officer.

## **DISCLAIMER**

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## Acronyms

3MRA	multimedia, multiple-exposure pathway, multiple-receptor risk assessment
AU	hydrologic accounting unit
CU	hydrologic cataloging unit
DEM	digital elevation model
DOC	dissolved organic carbon
EPA	U.S. Environmental Protection Agency
GIS	geographic information system
HUC	Hydrologic Unit Code
HWIR	Hazardous Waste Identification Rule
LAU	land application unit
QA/QC	quality assurance/quality control
RCRA	Resource Conservation and Recovery Act
RF	Reach File
RG	hydrologic region
SR	hydrologic subregion
STORET	Storage and Retrieval System (EPA water quality database)
TOC	total organic carbon
TSS	total suspended solids
USGS	U.S. Geological Survey
WMU	waste management unit

# 6.0 Surface Water Data

The Hazardous Waste Identification Rule (HWIR) multimedia, multiple exposure pathway, multiple receptor risk assessment (3MRA) uses site-based data collected around 201 nonhazardous industrial waste disposal facilities. Where site-based data are not available, regional and national data are used. Section 5.0 describes site-based watershed and waterbody layout data collection, which defined the waterbody network at each site, including the lengths, areas, slopes, and interconnectivity of the watersheds, streams, lakes, and wetlands at a site. Site-based soils data were also available and were collected as described in Section 7.0.

This section describes the regional and national data that were collected to supplement these site-based data sets. These include regional water quality and flow data extracted from the U.S. Environmental Protection Agency's (EPA's) Storage and Retrieval System (STORET) database and national ranges and distributions from literature and professional judgment. This section begins with a list of the surface water variables addressed (Section 6.1), data sources (Section 6.2), methodology and results (Section 6.3), and issues and uncertainties (Section 6.4).

## 6.1 Parameters Collected

A consistent source of site-based data was not readily available for several categories of water body data, including water quality parameters, flows, depths, and sediment characteristics. These variables were collected regionally from EPA's STORET database or were estimated nationally based on literature or professional judgement. Table 6-1 lists these variables and indicates which models use each.

## 6.2 Data Sources

Water quality and flow-related variables were collected regionally based on data from the STORET database. National parameters were obtained from literature or estimated using the professional expertise of surface water modelers and other senior scientists. Table 6-2 provides an overview of the data sources by parameter.

### 6.2.1 Water Quality Data

The STORET system is EPA's oldest database and the largest single source of water quality data in the country. The database contains over 275 million analyses performed on over 45 million samples collected from 800,000 stations across the U.S. for the period of 1960 through 1998. The following information is recorded for each STORET site:

**Table 6-1. Surface Water Inputs by Model Component**

Model Input Variable	3MRA Code	Units	Model Component					
			LAU	Wastepile	Surface Water	Watershed	Aquatic Food Web	Ecological Exposure
<b>Water quality data</b>								
Dissolved organic carbon (stream, lake, wetland)	WBNDOC	mg/L			•			
pH (stream, lake, wetland)	WBPh	pH units		•				•
Total organic carbon (stream, lake, wetland)	WBNTOC	mg/L			•			
Total suspended solids (stream, lake, wetland)	WBNTSS	mg/L			•			
Water hardness (stream, lake, wetland)	WBNWaterHardness	mg CaCO <sub>3</sub> eq/L						•
Median temperature (stream, lake, wetland)	WBNTemp	degrees C		•	•			
Maximum temperature (stream, lake, wetland)	WBNTempMax	degrees C				•		
Upstream suspended solids concentration	S_upstream	mg/L			•			
Fraction organic carbon of abiotic solids in water column	WBNfocAbS	fraction						
Fraction organic carbon of biotic solids in water column	WBNfocBioS	fraction						
Settling velocity (suspended solids)	ConVs	m/d	•	•	•			
<b>Flow data</b>								
Upstream flow rate	Q_upstream	m/s			•			
Regression coefficient "a" for baseflow model	a_BF	m/d				•		
Regression coefficient "b" for baseflow model	b_BF	unitless				•		
<b>Waterbody data (national)</b>								
Depth of pond	d_pond	m			•			
Depth of wetland	d_wtlnd	m			•			
Epilimnion depth	d_epil	m			•			
Fraction of total surface area for hypolimnion	WBNRchHypoAreaFrac	fraction			•			
Hypolimnion depth	d_hypol	m			•			
Stream depth hydraulic coefficient a	ahyd_d	m			•			
Stream depth hydraulic coefficient b	bhyd_d	unitless			•			
Stream width hydraulic coefficient a	ahyd_W	m			•			
Stream width hydraulic coefficient b	bhyd_W	unitless			•			
Plankton carbon mineralization rate constant	k_PlankCMin	1/y			•			
Thermocline diffusion coeff.	E_thermocline	cm <sup>2</sup> /s			•			
Trophic index (stream, lake, wetland)	TrophicIndex	unitless			•			
Sediment mineralization rate constant, G2 fraction	k_SedG2	1/y			•			
Sediment mineralization rate constant, G3 fraction	k_SedG3	1/y			•			
Fraction organic carbon in sediments	WBNfocSed	fraction		•	•	•		
Sediment-water column diffusion coefficient	E_sw	cm <sup>2</sup> /s			•			
Surficial sediment layer depth	DepthBenthos	cm			•			
Surficial sediment layer dry bulk density	rhoBenthos	g/mL			•			
Surficial sediment layer porosity	porBenthos	L/L			•			
Underlying sediment layer burial rate	v_bury	mm/y			•			
Underlying sediment layer depth	DepthSedRes	cm			•			
Underlying sediment layer dry bulk density	rhoDSedRes	g/mL			•			
Underlying sediment layer porosity	porSedRes	L/L			•			

**Table 6-2. Surface Water Data Sources, Methodology, and National Values**

Parameter	3MRA Code	Units	Source	Description
<b>Water quality data</b>				
Dissolved organic carbon (stream, lake, wetland)	WBNDOC	mg/L	STORET (regional)  Professional judgment (national)	Median values by USGS hydrologic cataloging unit (CU), accounting unit (AU), subregion (SR), or region (RG); lake data used for wetlands (see Appendix 6A and 6B for values)
pH (stream, lake, wetland)	WBNpH	pH units		
Total organic carbon (stream, lake, wetland)	WBNTOC	mg/L		
Total suspended solids (stream, lake, wetland)	WBNTSS	mg/L		
Water hardness (stream, lake, wetland)	WBNWaterHardness	mg CaCO <sub>3</sub> eq/L		
Median temperature (stream, lake, wetland)	WBNTemp	degrees C		
Maximum temperature (stream, lake, wetland)	WBNTempMax	degrees C		95th percentile by USGS CU, AU, SR, or RG; lake data used for wetlands (see Appendix 6B for values)
Upstream suspended solids concentration	S_upstream	mg/L		Set at 50 mg/L
Fraction organic carbon of suspended abiotic solids	WBNfocAbS	fraction		Uniform distribution (0 - 0.5)
Fraction organic carbon of suspended biotic solids	WBNfocBioS	fraction		Uniform distribution (0.2 - 1)
Settling velocity (suspended solids)	ConVs	m/d	Derived from "mineral sludge" values from Schroeder (1977)	Uniform distribution (0.5 - 1) (national)
<b>Flow data</b>				
Upstream flow rate	Q_upstream	m/s	Leopold (1962)	National look-up table by site-based stream order (order 5 and higher streams only)
Regression coefficient "a"	a_BF	m/d	STORET (regional 30Q2 flow and drainage area)	Statistical regression of long-term average baseflow and drainage area by USGS hydrologic region (RG)
Regression coefficient "b"	b_BF	unitless		

(continued)

**Table 6-2. (continued)**

Parameter	3MRA Code	Units	Source	Description
<b>Various waterbody(national)</b>				
Depth of pond	d_pond	m	Professional judgment (national; sent in site-based tables by reach)	Triangular distribution (0.5, 1.5, 3 m); lakes only
Depth of wetland	d_wtlnd	m		Triangular distribution (0.05, 0.5, 2 m); wetlands only
Epilimnion depth	d_epil	m		Triangular distribution (0.1, 2, 5 m); lakes only
Hypolimnion depth	d_hypol	m		Triangular distribution (1, 5, 20 m); lakes only
Fraction of total surface area for hypolimnion	WBNRchHypoAreaFrac	fraction		Set at 0.9 for lakes only
Stream depth hydraulic coefficient a	ahyd_d	m	Professional judgment (national)	Set at 1 m
Stream depth hydraulic coefficient b	bhyd_d	unitless		Set at 0.4
Stream width hydraulic coefficient a	ahyd_W	m		Set at 10 m
Stream width hydraulic coefficient b	bhyd_W	unitless		Set at 0.25
Plankton carbon mineralization rate constant	k_PlankCMin	1/y		Set at 0.5/y
Thermocline diffusion coeff.	E_thermocline	cm <sup>2</sup> /s	Professional judgment (national)	Uniform distribution (0 - 0.01 cm <sup>2</sup> /s)
Trophic index (stream, lake, wetland)	TrophicIndex	unitless		Set values (3, 4, 6)
Sediment mineralization rate constant, G2 fraction	k_SedG2	1/y		Set at 0.3/y
Sediment mineralization rate constant, G3 fraction	k_SedG3	1/y		Set at 0.05/y
Fraction organic carbon in sediments (stream, lake, wetland)	WBNfocSed	fraction		Uniform distribution (0 - 0.5, 0 - 0.5, 0 - 0.5)
Sediment-water column diffusion coefficient	E_sw	cm <sup>2</sup> /s		Set at 0.00005 cm <sup>2</sup> /s

(continued)

**Table 6-2. (continued)**

Parameter	3MRA Code	Units	Source	Description
Surficial sediment layer depth	DepthBenthos	cm		Set at 4.95 m
Surficial sediment layer dry bulk density	rhoDBenthos	g/mL		Set at 1.1 g/mL
Surficial sediment layer porosity	porBenthos	L/L		Uniform distribution (0.2 - 0.99)
Underlying sediment layer burial rate	v_bury	mm/y		Set at 10 mm/y
Underlying sediment layer depth	DepthSedRes	cm		Set at 20 cm
Underlying sediment layer dry bulk density	rhoDSedRes	g/mL		Set at 1.6 g/mL
Underlying sediment layer porosity	porSedRes	L/L		Uniform distribution (0.1 - 0.9)

- # A unique station identifier
- # Latitude and longitude of the site
- # State and county codes of the site
- # Hydrologic Unit Code (HUC; drainage basin identifier)
- # Text describing the site location of the site
- # Type of water being sampled (stream, lake, ocean, etc.).

The HUC is an 8-digit number that identifies progressively smaller USGS hydrologic drainage areas that a site is in: region (RG), subregion (SR), accounting unit (AU), and cataloging unit (CU) (Seaber et al., 1987). Thus, HUC 05030101 indicates that a site is in hydrologic region 05, SR 0503, AU 050301, and CU 05030101. This allows statistics to be regionally aggregated over these areas. Information on the type of water sampled allows statistics to be aggregated over waterbody type as well.

STORET can be accessed from the web at: <http://www.epa.gov/OWOW/STORET>. Additional information on STORET can be found in U.S. EPA (1990) and user support is available at (800) 424-9067. STORET data were accessed directly from EPA's IBM mainframe for the HWIR data collection effort.

STORET water quality data are notoriously “noisy” because they are influenced by hydrology, point sources, nonpoint sources, stream/lake morphology, and varying data quality. There are issues in using STORET data that need to be considered before using the data:

- # Not all of the data have undergone rigorous quality assurance/quality control (QA/QC).
- # STORET site locations can be biased, especially to known “problem” waters.
- # The sample times are often at critical periods, such as summer low flows.

Statistical analysis techniques were employed taking into account the above issues (including coordination with gage statistical analysis and Reach Files, the use of median values to avoid bias in central tendency estimates, and specification of a minimum number of measurements to estimate median values). These issues were manageable and were considered as extracting the underlying “signal” of water quality from the inherent “noise” of water quality data.

## 6.2.2 Stream Gage Data

U.S. Geological Survey (USGS) stream gage flow data are fully available from STORET on EPA's IBM mainframe computer in Research Triangle Park, NC. These include data on each individual gage (latitude/longitude, Reach File 1 [RF1] Reach Number, drainage area) plus daily flow values. USGS-developed software is also available and was used to perform flow statistical analysis on a given gage. The following issues were addressed in using the gaging data to calculate HWIR inputs:

- # The relationship between RF1 and RF3-Alpha Reach locations was determined through coordination with the RF3/NHD production team.
- # The computational intensity of computing the flow statistics at thousands of gage sites was solved by setting up a production process to run through this large volume of data.
- # Flow statistics were estimated for reasonable hydrologic conditions that relate to data availability.

Stream flow estimates for all Reach File Version 1.0 (RF1) flowing reaches were estimated in the early 1980s. Statistics developed for each reach are mean annual flow, low flow (approximately 7Q10), and mean monthly flow. In addition, the velocities corresponding to mean annual and low flow were also estimated from a compendium of time-of-travel studies. However, these values were not used, as this effort relied on a flow statistic calculated using the USGS software (see Section 6.3.2).

## 6.3 Methodology and Results

This section describes the methodology used to collect the HWIR national and regional surface water data. Table 6-2 (Section 6.2) summarizes this methodology, along with the values used for the national data. Regional data are provided in Appendixes 6A (water quality) and 6B (water temperature data).

### 6.3.1 Water Quality Data

Water quality data collected regionally include dissolved organic carbon (WBNDOC), pH (WBNP<sub>H</sub>), total organic carbon (WBNTOC), total suspended solids (WBNTSS), and water hardness (WBNWaterHardness). Both central tendency and maximum temperature (WBNTemp, WBNTempMax) also were collected.

As a first step in this effort, each site was assigned to a USGS CU using a geographic information system (GIS). Once each site had the 8-digit HUC associated with the CU in which it lies, the 201 HUCs were used to query STORET for all data on record (1960 to 1993) for the parameters of interest. Because of expected water quality differences between still and flowing waters within a region, data were collected separately for streams and lakes. The station type field was used to make this distinction, with “Ambient Stream” sites used for streams and “Ambient Lake” or “Ambient Reservoir” stations used for lakes.

The data quality concerns associated with individual STORET measurements led to specification of a 20-measurement minimum, based on prior experience with STORET, to calculate the water quality statistics. If 20 measurements were not available for a particular parameter in a particular CU, records for the entire AU were used; if these did not meet the 20 minimum, the SR was used; if the SR data were inadequate, data for the entire RG were used. This was necessary to balance the need for the data to be as near to the site as possible (to best represent long-term typical water quality parameters and to maintain site-to-site variability)

against the need for a sufficient number of measurements to characterize the statistic of interest (in this case the median).

Table 6-3 shows, for each parameter and waterbody type (streams and lakes), how many sites have data based on the different hydrologic area types (CU, AU, SR, RG). Note that, for any parameter, STORET tends to contain considerably more data for streams than for lakes.

Once a sufficient number of measurements for each parameter were extracted from STORET, SAS was used to calculate summary statistics, including:

- # Arithmetic mean
- # Standard deviation
- # Minimum, maximum
- # 1st, 5th, 10th, 25th, 50th, 75th, 90th, 95th, and 99th percentiles.

**Table 6-3. Statistical Basis for Water Quality Parameters**

Parameter	Number of Sites by Statistics Basis			
	Cataloging Unit (CU)	Accounting Unit (AU)	Subregion (SR)	Region (RG)
<i>Stream Data</i>				
Temperature	201	0	0	0
pH	201	0	0	0
Total organic carbon (TOC)	184	17	0	0
Hardness	181	20	0	0
Total suspended solids (TSS)	164	37	0	0
Dissolved organic carbon (DOC)	116	73	6	6
<i>Lake Data</i>				
Temperature	154	47	0	0
pH	153	44	3	1
Total organic carbon (TOC)	62	98	16	25
Hardness	50	87	15	49
Total suspended solids (TSS)	42	24	8	127
Dissolved organic carbon (DOC)	25	79	22	75

Median (50th percentile) values within a CU or other area was used to represent central tendency for all parameters because average values were too impacted by extreme outlying values that exist in the database. For maximum waterbody temperature, the 95th percentile value was used. Appendix 6A contains the water quality statistics for each site and Appendix 6B contains water temperature statistics. The values for each parameter were indexed on stream, lake and wetland. Different values for streams and lakes were sent, but STORET data do not include wetlands as a waterbody type, lake values were used to represent wetlands in the 3MRA database.

One water quality-related parameter collected nationally is the eroded suspended solids settling velocity (ConVs), which is used by the watershed modules as well as the local watershed component of the wastepile and land application unit (LAU) modules. ConVs for eroded soil in runoff was assumed to be similar to settling velocities observed in sludge thickening experiments, because both can be characterized by relatively high suspended solids concentrations. Experimental data were identified describing results for thickening tests conducted on a "mineral sludge" (Schroeder, 1977), which were assumed to be similar to eroded soil particles settling in stormwater runoff. Two distinctly different ranges of settling velocities were observed in the experiments, depending on whether suspended solids concentrations were below or above approximately 25,000 mg/L. The higher suspended solids concentrations were assumed to be applicable to stormwater runoff conditions. Accordingly, a uniform distribution ranging from 0.05 to 1.0 m/d was specified nationally for ConVs.

### 6.3.2 Stream Baseflow Statistics (a\_bf, b\_bf)

The watershed module contains a hydrology submodel to estimate stormwater runoff and ground water infiltration for individual watershed subbasins. The module assumes that streamflows comprise both stormwater runoff and baseflow. Baseflow is streamflow occurring during nonrunoff periods from ground water discharge or interflow (shallow infiltration flowing parallel to the ground surface). While the watershed module estimates stormwater runoff from meteorological, soil, and land use data, it requires specific regression statistics as inputs to estimate baseflow from tributary drainage area (U.S. EPA, 1999a).

For a given stream reach, baseflow can vary seasonally, or even near continuously, as ground water levels and/or interflow vary, and can be estimated at specific sites for a given time period by analysis of hydrographs that include runoff as well as pre- and postrunoff flows. For HWIR purposes, however, EPA considered it unnecessary (as well as impractical for the data and computationally) to attempt to estimate within-year baseflow variability. Rather, the hydrology model was designed to accept a single estimate that characterizes annual average baseflow conditioned on tributary drainage area, year, and hydrologic region.

To select the single flow statistic that best represents annual average baseflow for a given region, reach order, and year, several statistics were examined. The widely available annual average streamflow, in general, tends to overestimate baseflow (except for certain losing streams). The common low-flow statistic 7Q10 (the minimum 7-day average flow expected to occur within a 10-year return period, i.e., at least once in 10 years) tends to underestimate the long-term average annual baseflow required by the model. As a compromise, the 30Q2 low flow,

i.e., the minimum 30-day average flow occurring, on average, at least once every other year, was selected as a reasonable estimate of annual average baseflow for any given year. This flow statistic was not widely available from USGS gaging data and therefore was developed as a part of the HWIR data collection effort using the following procedure:

- # For each of the 18 USGS Hydrologic Regions in the conterminous United States, retrieve from EPA's STORET database the long-term (30-year) historical record of daily average streamflows for each USGS gage in that region, along with the gage's tributary drainage area.
- # Statistically analyze each gage's daily flow record to estimate 30Q2 values by gage.
- # Fit a regression model of the form  $30Q2 = aAb$  (a power function) to the data for all gages in a given region.<sup>1</sup>

Results of the baseflow analysis are presented in Table 6-4. (Note that  $a_{bf}$  has units of meters per day and  $b_{bf}$  is unitless. The hydrology module uses  $a_{bf}$  and  $b_{bf}$  with watershed subbasin area (WSSubArea) in  $m^2$  to calculate 30Q2 baseflows in  $m^3/d$ .) These data are exported in the 3MRA regional data table by USGS hydrologic region. Raw baseflow (30Q2) data, as exported from STORET, are available in a separate zip file.

### 6.3.3 National Waterbody Data

Table 6-2 (see Section 6.2) shows the national waterbody data collected for this effort. As noted in Table 6-2, most of these values were distributions estimated based on the professional judgement of the HWIR 3MRA surface water modeler along with the senior data collection staff. This was necessary because of the lack of a consistent, readily available, source of site-based data or regional or national statistics for these variables. To account for uncertainty, simple distributions (triangular or uniform) were specified, as data were not available to parameterize more distributions requiring a coefficient of variation. Involvement of the modeler in this effort was critical to ensure that the 3MRA surface water module (U.S. EPA, 1999b) was programmed as necessary to help avoid unrealistic or impossible combinations of values for related variables.

Several parameters, including depth of pond, depth of wetland, epilimnion depth, fraction of total surface area for hypolimnion, and hypolimnion depth, were assigned only one distribution but were sent on a site-by-site basis, indexed on waterbody network reach, to increase reach-to-reach variability during model execution. Values were only passed for the waterbody types that required the values (i.e., for lakes or wetlands, as appropriate).

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<sup>1</sup> In a few of the 18 regions, a linear model, i.e.,  $30Q2 = a + bA$ , provided a slightly better fit in the sense of explaining greater overall variation [ $R^2$ ]. However, the improvement in  $R^2$  was not considered to be significantly great as to outweigh the considerable advantage of the power function model of predicting zero flow for zero tributary area, which the linear model with an intercept term does not achieve.

**Table 6-4. Baseflow Regression Analysis Results: STORET 30Q2 Data**

<b>USGS Hydrologic Region</b>	<b>Number of Observations (Gages)</b>	<b>R<sup>2</sup></b>	<b>Point Estimate of a_bf (m/d)</b>	<b>Point Estimate of b_bf (unitless)</b>
1	395	0.93	.0128	1.16
2	912	0.78	1.09	0.920
3	1012	0.60	0.252	0.984
4	520	0.73	.00880	1.16
5	856	0.84	.00320	1.17
6	204	0.76	0.304	1.02
7	577	0.71	.0142	1.08
8	201	0.76	.00632	1.14
9	86	0.26	15.6	0.639
10	1,083	0.41	3.73	0.750
11	564	0.42	0.948	0.795
12	412	0.36	1.44	0.751
13	167	0.39	584.	0.488
14	565	0.59	1.17	0.854
15	187	0.49	6.32	0.686
16	316	0.37	613.	0.522
17	1,127	0.59	1.54	0.907
18	424	0.34	8.89	0.678

For streams with an order 5 or greater, the upstream flow rate ( $Q_{upstream}$ ) was also passed on a site-by-site basis indexed on waterbody network reach. The upstream flow rate was obtained from a Leopold (1962) look-up table based on stream order for each individual reach. Strahler (1957) stream order was determined by one of three methods: determined using a GIS program, for stream networks delineated using digital elevation models (DEMs) (see Section 5); calculated from Reach File 3 (RF3-Alpha; U.S. EPA, 1994) data on the EPA IBM mainframe using a PL/1 program originally developed for EPA's Total Waters Database (U.S. EPA, 1991); or estimated based on flow statistics for individual streams from van der Leeden et al. (1990; see Section 5.0).

## 6.4 Issues and Uncertainties

The primary issues and uncertainties for both regional and national surface-water data arise from the lack of readily available site-specific data and are therefore associated with the representativeness of the regional and national data for a particular site. However, the HWIR 3MRA is a site-based national analysis rather than a site-specific analysis; site-specific accuracy is not critical as long as the site-to-site variability is sufficient to characterize nationwide variability in model results, in this case, water and sediment concentrations from the surface water module. For regional data, site-to-site variability and accuracy was preserved to the extent practicable by keeping the region over which data were collected and statistics compiled as small as possible.

National data were only collected where site-based and regional data were not available. In these cases, national distributions, applied on a site-to-site or waterbody-to-waterbody basis, were used to represent national variability. It is not apparent whether this approach biased the model results in a consistent direction; EPA may investigate more site-specific data sources in the future to determine what, if any, bias might be associated with these data.

## 6.5 References

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## Appendix 6A. STORET Water Quality Data

This Appendix provides, by Industrial D site, STORET surface water quality data used for the HWIR 3MRA analysis. The data include dissolved organic carbon, total organic carbon, pH, total suspended solids, and water hardness. The 3MRA model codes and units for these variables are:

- # WBNDOC (mg/L)
- # WBNpH (pH units)
- # WBNTOC (mg/L)
- # WBNTSS (mg/L)
- # WBNWaterHardness (g CaCO<sub>3</sub> equivalent/L).

These data were extracted using STORET query language by waterbody type (stream, lake) and the site-specific Hydrologic Unit Code (HUC), and then were analyzed by Statistical Analysis System (SAS) software to calculate mean, standard deviation, and percentiles. Fields (columns) in the following data tables are defined as follows:

<b>Field</b>	<b>Description</b>
SiteId	Industrial D Screening Survey site identification number
Variable_Name	3MRA variable code
Index	waterbody type (stream, lake)
HUC	Hydrologic Unit Code for regional area used to represent site
reg	USGS Hydrologic Region
statbas	regional area/basis for statistics: USGS region (RG), subregion (SR), accounting unit (AU), cataloging unit (CU)
n	number of measurements
mean	arithmetic mean value
<b>Field</b>	<b>Description</b>
stddev	standard deviation
min	minimum value
p25	25th percentile value
p50	50th percentile value
p75	75th percentile value
max	maximum value

The tables are sorted by SiteID, parameter, and Index (stream, lake).

Although these data were collected on a regional basis, they were sent to the 3MRA system in the site-based data table (i.e., by Industrial D setting). This was necessary because the data were collected on different regional scales depending on site-to-site STORET data availability and the 3MRA system can only a single regional scale per variable. Also note that, although wetland water quality data were required by the surface water module, STORET does not contain a waterbody type corresponding to wetlands and lake data were used to represent wetland water quality.

Median (50th percentile) values were used to represent a central tendency, or long-term average value for each variable shown in these tables because the arithmetic mean can be biased by outlying extreme values that are common in STORET data (e.g., 890 for pH). No attempt was made to remove such outliers as can be seen in the following table. However, the median is relatively unaffected by these values.

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
0114001	WBNDOC	stream	05030101	05	CU	119	5	7.2	1.8	<b>3.6</b>	6	72	
0114001	WBNDOC	lake	05	05	RG	575	4	3	2.1	<b>3.2</b>	4.7	19	
0114001	WBNpH	stream	05030101	05	CU	34253	7.1	10.6	0.7	6.6	<b>6.9</b>	7.2	890
0114001	WBNpH	lake	05030101	05	CU	41	8	0.8	6.5	7.5	<b>8.1</b>	8.5	9.8
0114001	WBNTOC	stream	05030101	05	CU	1151	10.2	41.8	0	2.3	<b>3.2</b>	5.3	855
0114001	WBNTOC	lake	050301	05	AU	48	5.6	2.8	0	3.9	<b>5.9</b>	7	15
0114001	WBNTSS	stream	05030101	05	CU	348	155.6	428.5	0	8	<b>25</b>	80.5	477
0114001	WBNTSS	lake	05030101	05	CU	348	155.6	428.5	0	8	<b>25</b>	80.5	477
0114001	WBNWaterHardness	stream	05030101	05	CU	2075	292.1	320	5	124	<b>190</b>	336	482
0114001	WBNWaterHardness	lake	050301	05	AU	1963	118.3	59	0.1	83	<b>99</b>	145	102
0130207	WBNDOC	stream	07080101	07	CU	24	15.7	15.8		7.5	<b>9.6</b>	17	82
0130207	WBNDOC	lake	07	07	RG	649	6.8	4.5		4.1	<b>5.8</b>	8.2	50
0130207	WBNpH	stream	07080101	07	CU	1000	8.1	0.6	0	7.9	<b>8.2</b>	8.4	9.8
0130207	WBNpH	lake	07080101	07	CU	139	8	0.6	6	7.5	<b>8.1</b>	8.4	9.2
0130207	WBNTOC	stream	07080101	07	CU	358	13.1	10.1	4.6	9	<b>11.3</b>	14	163
0130207	WBNTOC	lake	070801	07	AU	28	5.9	3.5	2	3	<b>5</b>	7.5	16
0130207	WBNTSS	stream	07080101	07	CU	77	484.8	118.1	2	33	<b>61</b>	134	549
0130207	WBNTSS	lake	07	07	RG	112	57.8	86.5	0	10	<b>23</b>	61	449
0130207	WBNWaterHardness	stream	07080101	07	CU	55	184	30.5	110	173	<b>180</b>	204	260
0130207	WBNWaterHardness	lake	0708	07	SR	498	257	56.8	100	218	<b>250</b>	296	496
0131104	WBNDOC	stream	07090001	07	CU	62	6.8	5.4		3.6	<b>5</b>	8.2	34
0131104	WBNDOC	lake	07	07	RG	649	6.8	4.5		4.1	<b>5.8</b>	8.2	50
0131104	WBNpH	stream	07090001	07	CU	2271	8	0.9	0	7.7	<b>8</b>	8.4	11.2
0131104	WBNpH	lake	07090001	07	CU	14728	8.3	0.5	0	8	<b>8.3</b>	8.5	10.2
0131104	WBNTOC	stream	07090001	07	CU	50	12.9	14.7	2.9	6	<b>9.2</b>	12	85
0131104	WBNTOC	lake	070900	07	AU	56	9.1	4	0.5	6	<b>9</b>	11	25
0131104	WBNTSS	stream	07090001	07	CU	13568	258.9	649	0	27	<b>75</b>	235	1540
0131104	WBNTSS	lake	07	07	RG	112	57.8	86.5	0	10	<b>23</b>	61	449
0131104	WBNWaterHardness	stream	07090001	07	CU	171	298.5	59.9	18	260	<b>320</b>	336	390
0131104	WBNWaterHardness	lake	07090001	07	CU	64	271.7	50.4	74	245	<b>270</b>	300	360
0131207	WBNDOC	stream	041201	04	AU	41	9.6	9.4		4	<b>7</b>	8.9	40
0131207	WBNDOC	lake	04120104	04	CU	262	2.2	0.2		2	<b>2.1</b>	2.3	3.1
0131207	WBNpH	stream	04120104	04	CU	3178	7.9	0.4	2.6	7.7	<b>8</b>	8.2	9.2
0131207	WBNpH	lake	04120104	04	CU	1095	8.3	0.3	6.6	8.2	<b>8.3</b>	8.6	9.9
0131207	WBNTOC	stream	04120104	04	CU	177	16	15.8	0	3.6	<b>8.8</b>	27.3	79.1
0131207	WBNTOC	lake	04120104	04	CU	163	3.3	1.5	0	2.4	<b>3.3</b>	4.2	9.1
0131207	WBNTSS	stream	04120104	04	CU	192	17.7	36.3	1	5	<b>8</b>	15.5	285
0131207	WBNTSS	lake	04	04	RG	39	14.4	40.9	0	4	<b>6</b>	12	259
0131207	WBNWaterHardness	stream	04120104	04	CU	174	163.9	83.5	100	120	<b>130</b>	180	700
0131207	WBNWaterHardness	lake	04	04	RG	1554	114.3	91.8	3	24	<b>100</b>	163	757
0131508	WBNDOC	stream	06010102	06	CU	52	1.1	0.9		0.4	<b>1</b>	1.7	3.2
0131508	WBNDOC	lake	0601	06	SR	28	2.3	2.6		1.2	<b>1.5</b>	2.6	14.9
0131508	WBNpH	stream	06010102	06	CU	33192	7.6	0.7	3.2	7.3	<b>7.4</b>	7.6	87
0131508	WBNpH	lake	06010102	06	CU	221	7.9	0.6	6.3	7.5	<b>7.8</b>	8.2	9.3
0131508	WBNTOC	stream	06010102	06	CU	2456	3.7	3.9	0.2	1.6	<b>2.7</b>	5	100
0131508	WBNTOC	lake	06	06	RG	66	4.2	4.6	1	1.9	<b>2.8</b>	4.6	33
0131508	WBNTSS	stream	06010102	06	CU	148	45.9	55.1	2	13.5	<b>30</b>	59	393
0131508	WBNTSS	lake	06010102	06	CU	148	45.9	55.1	2	13.5	<b>30</b>	59	393
0131508	WBNWaterHardness	stream	06010102	06	CU	637	156.8	76.7	8	93	<b>170</b>	226	328
0131508	WBNWaterHardness	lake	0601	06	SR	53	9	4.4	1	6	<b>8</b>	12	18
0136703	WBNDOC	stream	11080006	11	CU	36	3.9	4		1.9	<b>2.9</b>	4.4	20
0136703	WBNDOC	lake	11	11	RG	447	8.4	8.2		3.2	<b>5.1</b>	12	49
0136703	WBNpH	stream	11080006	11	CU	484	7.9	0.4	6.6	7.7	<b>8</b>	8.2	9.3
0136703	WBNpH	lake	11080006	11	CU	522	8.2	0.4	6.9	8.1	<b>8.3</b>	8.5	8.9
0136703	WBNTOC	stream	11080006	11	CU	31	9.2	18.6	1.2	1.7	<b>4.6</b>	7.2	102
0136703	WBNTOC	lake	11080006	11	CU	158	6.9	5.1	1	4.1	<b>4.9</b>	8	32
0136703	WBNTSS	stream	11080006	11	CU	88	201.3	571.9	3	31	<b>81.5</b>	368	2790
0136703	WBNTSS	lake	11	11	RG	2106	111.6	269.6	1	40	<b>70</b>	110	761

## Appendix 6A

## STORET Water Quality Data

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
0136703	WBNWaterHardness	stream	110800	11	AU	183	332.3	362.8	25	120	<b>200</b>	396	177
0136703	WBNWaterHardness	lake	110800	11	AU	27	253.1	97.5	95	169	<b>280</b>	350	400
0220102	WBNDOC	stream	030502	03	AU	31	8.7	4.5		4.3	<b>8.5</b>	12	18
0220102	WBNDOC	lake	0305	03	SR	42	2.3	2.2		1.2	<b>1.4</b>	2.2	10.2
0220102	WBNpH	stream	03050201	03	CU	3946	7	0.7	3.1	6.6	<b>7.1</b>	7.5	9.5
0220102	WBNpH	lake	03050201	03	CU	1784	7.4	0.5	4.3	7.1	<b>7.5</b>	7.8	8.8
0220102	WBNTOC	stream	03050201	03	CU	983	10.3	12	1	4.3	<b>6.7</b>	11.4	108
0220102	WBNTOC	lake	03050201	03	CU	21	5.8	3.1	3.4	3.8	<b>4.1</b>	6.5	14.4
0220102	WBNTSS	stream	03050201	03	CU	125	9.5	7.6	0.5	6	<b>8</b>	11	65
0220102	WBNTSS	lake	03050201	03	CU	40	17.7	15.6	3	9	<b>13</b>	20	93
0220102	WBNWaterHardness	stream	03050201	03	CU	449	253.3	983.3	8	19	<b>26</b>	49	1553
0220102	WBNWaterHardness	lake	03050201	03	CU	340	18	4.6	3	15	<b>18</b>	21	31
0221207	WBNDOC	stream	050800	05	AU	24	5	2.7		3.4	<b>4.2</b>	7.1	11
0221207	WBNDOC	lake	05	05	RG	575	4	3		2.1	<b>3.2</b>	4.7	19
0221207	WBNpH	stream	05080001	05	CU	3208	8	0.4	5.1	7.8	<b>8</b>	8.2	9.4
0221207	WBNpH	lake	05080001	05	CU	1011	8	0.5	6.4	7.7	<b>8</b>	8.3	9.7
0221207	WBNTOC	stream	05080001	05	CU	1013	7.3	8.4	0	3	<b>5</b>	8.1	96
0221207	WBNTOC	lake	05080001	05	CU	128	4.6	3.3	0.6	3	<b>4</b>	6	24
0221207	WBNTSS	stream	05080001	05	CU	392	301.8	503.5	1	22	<b>69</b>	373	424
0221207	WBNTSS	lake	05080001	05	CU	392	301.8	503.5	1	22	<b>69</b>	373	424
0221207	WBNWaterHardness	stream	05080001	05	CU	1370	360.3	77.7	90	322	<b>362</b>	399	145.7
0221207	WBNWaterHardness	lake	05080001	05	CU	127	236.3	48.5	131	207	<b>237</b>	263	463
0223504	WBNDOC	stream	05040001	05	CU	228	3.3	2.1		2.2	<b>2.8</b>	3.7	13
0223504	WBNDOC	lake	05040001	05	CU	52	3	0.7		2.4	<b>3</b>	3.5	4.5
0223504	WBNpH	stream	05040001	05	CU	7177	7.6	0.8	0	7.4	<b>7.7</b>	8.1	11.6
0223504	WBNpH	lake	05040001	05	CU	2808	7.8	0.7	5.9	7.2	<b>7.7</b>	8.4	9.5
0223504	WBNTOC	stream	05040001	05	CU	1595	6.2	6	0.5	3	<b>4.9</b>	7.4	78
0223504	WBNTOC	lake	05040001	05	CU	226	4.5	2.3	1	3	<b>4</b>	5.2	17
0223504	WBNTSS	stream	05040001	05	CU	280	126.2	1124	1	26	<b>65</b>	214	13900
0223504	WBNTSS	lake	05040001	05	CU	280	126.2	1124	1	26	<b>65</b>	214	13900
0223504	WBNWaterHardness	stream	05040001	05	CU	2236	449.8	310	0.5	275	<b>384</b>	548	354
0223504	WBNWaterHardness	lake	05040001	05	CU	190	273.4	161.9	61	84	<b>309</b>	364	909
0224002	WBNDOC	stream	070400	07	AU	101	8.3	7		4.8	<b>7.8</b>	10.5	70
0224002	WBNDOC	lake	07	07	RG	649	6.8	4.5		4.1	<b>5.8</b>	8.2	50
0224002	WBNpH	stream	07040006	07	CU	359	7.9	0.4	6.6	7.6	<b>7.9</b>	8.2	9
0224002	WBNpH	lake	07040006	07	CU	33	9.1	0.7	7.3	8.7	<b>9.2</b>	9.6	10.6
0224002	WBNTOC	stream	07040006	07	CU	21	10.6	4	5	7.5	<b>9.4</b>	14	19
0224002	WBNTOC	lake	07	07	RG	2097	9.9	8.4	0	5.4	<b>8</b>	11	83
0224002	WBNTSS	stream	070400	07	AU	996	185.5	367.5	0	30	<b>152</b>	210	2670
0224002	WBNTSS	lake	07	07	RG	112	57.8	86.5	0	10	<b>23</b>	61	449
0224002	WBNWaterHardness	stream	07040006	07	CU	36	163	94.7	60	77	<b>121</b>	270	330
0224002	WBNWaterHardness	lake	07	07	RG	8520	155.4	94.6	0	93	<b>135</b>	196	136.2
0231002	WBNDOC	stream	051202	05	AU	201	8	13		3.8	<b>5.7</b>	8.5	130
0231002	WBNDOC	lake	05	05	RG	575	4	3		2.1	<b>3.2</b>	4.7	19
0231002	WBNpH	stream	05120201	05	CU	5522	10.9	14.5	1.4	7.5	<b>7.8</b>	8.1	93
0231002	WBNpH	lake	05120201	05	CU	77	8.1	0.5	6.7	7.8	<b>8.3</b>	8.5	9
0231002	WBNTOC	stream	05120201	05	CU	790	7	3.5	0	4.8	<b>6.3</b>	8.4	31
0231002	WBNTOC	lake	051202	05	AU	479	3.6	3	0	2	<b>3</b>	4	55
0231002	WBNTSS	stream	05120201	05	CU	541	116.8	224.8	1	24	<b>49</b>	102	299
0231002	WBNTSS	lake	05120201	05	CU	541	116.8	224.8	1	24	<b>49</b>	102	299
0231002	WBNWaterHardness	stream	05120201	05	CU	1448	312.1	88.2	32	275	<b>318</b>	350	288
0231002	WBNWaterHardness	lake	051202	05	AU	380	80.3	46.8	0.5	51	<b>66</b>	95	315
0231106	WBNDOC	stream	02040201	02	CU	69	3.8	1.4		2.8	<b>3.6</b>	4.6	9.3
0231106	WBNDOC	lake	020402	02	AU	123	7.3	2.8		5	<b>7</b>	9	17
0231106	WBNpH	stream	02040201	02	CU	6578	7.2	0.6	0	7.1	<b>7.3</b>	7.5	10.4
0231106	WBNpH	lake	02040201	02	CU	139	6.6	0.6	4	6.3	<b>6.6</b>	6.9	9.2
0231106	WBNTOC	stream	02040201	02	CU	982	6	3	0.3	4.2	<b>5.4</b>	7	36.3
0231106	WBNTOC	lake	020402	02	AU	312	8.9	3.9	2	6	<b>8</b>	11	33

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
0231106	WBNTSS	stream	02040201	02	CU	171	50.8	71.8	1	8	<b>23</b>	60	480
0231106	WBNTSS	lake	02	02	RG	126	34.8	78.4	0	2	<b>3</b>	15	435
0231106	WBNWaterHardness	stream	02040201	02	CU	405	100.6	49.1	12	58	<b>99</b>	128	310
0231106	WBNWaterHardness	lake	020402	02	AU	326	49.1	22.8	4	37	<b>46.5</b>	56	222
0231407	WBNDOC	stream	12030102	12	CU	121	6.5	6.9		4.1	<b>4.8</b>	5.9	51
0231407	WBNDOC	lake	12	12	RG	230	9.7	3.3		7.4	<b>9.4</b>	12	20
0231407	WBNpH	stream	12030102	12	CU	2793	7.8	0.5	2.3	7.5	<b>7.8</b>	8	10.2
0231407	WBNpH	lake	12030102	12	CU	4460	8	0.4	6.3	7.8	<b>8.1</b>	8.3	9.5
0231407	WBNTOC	stream	12030102	12	CU	1239	9.8	12.5	0.1	5.1	<b>7.1</b>	11	300
0231407	WBNTOC	lake	12030102	12	CU	257	6.2	3.8	1	4.2	<b>5.7</b>	7	34
0231407	WBNTSS	stream	12030102	12	CU	140	197.7	756.4	2	17	<b>33</b>	85	594
0231407	WBNTSS	lake	12030102	12	CU	140	197.7	756.4	2	17	<b>33</b>	85	594
0231407	WBNWaterHardness	stream	12030102	12	CU	126	183	54.5	78	144	<b>171</b>	200	330
0231407	WBNWaterHardness	lake	12030102	12	CU	152	127.3	36.8	76	110	<b>117</b>	130	310
0231610	WBNDOC	stream	04040001	04	CU	266	13.8	14.1		5.4	<b>9.9</b>	17	92
0231610	WBNDOC	lake	04040001	04	CU	26	11	9.9		4.7	<b>7</b>	13	36
0231610	WBNpH	stream	04040001	04	CU	7311	7.8	4.4	0.7	7.2	<b>7.5</b>	7.9	80
0231610	WBNpH	lake	04040001	04	CU	877	8.1	0.7	4.3	7.9	<b>8.2</b>	8.4	10.2
0231610	WBNTOC	stream	04040001	04	CU	875	6.7	3.4	0	4.5	<b>5.9</b>	7.9	32
0231610	WBNTOC	lake	04	04	RG	9495	4.6	4.6	0	2.1	<b>3.3</b>	5.4	80
0231610	WBNTSS	stream	04040001	04	CU	60	42.6	39.8	5	16	<b>32.5</b>	49	182
0231610	WBNTSS	lake	04	04	RG	39	14.4	40.9	0	4	<b>6</b>	12	259
0231610	WBNWaterHardness	stream	04040001	04	CU	1585	224.4	74.8	24	170	<b>208</b>	270	960
0231610	WBNWaterHardness	lake	04040001	04	CU	47	141.7	23.6	128	136	<b>140</b>	140	296
0231911	WBNDOC	stream	04080206	04	CU	47	9.5	2.8		7.8	<b>9.1</b>	10	20.1
0231911	WBNDOC	lake	04080206	04	CU	54	9.7	2.6		8.2	<b>9.8</b>	10.9	20.3
0231911	WBNpH	stream	04080206	04	CU	1294	7.9	0.3	6.2	7.7	<b>7.9</b>	8.1	9.3
0231911	WBNpH	lake	04080206	04	CU	119	8	0.4	7.1	7.9	<b>8</b>	8.2	9.8
0231911	WBNTOC	stream	04080206	04	CU	706	11	5	1.8	8.4	<b>9.6</b>	11.7	54
0231911	WBNTOC	lake	04080206	04	CU	56	11.5	2.8	6.6	9	<b>11.3</b>	13.4	19.3
0231911	WBNTSS	stream	04080206	04	CU	114	41.8	30.2	0	24	<b>38</b>	54	176
0231911	WBNTSS	lake	04	04	RG	39	14.4	40.9	0	4	<b>6</b>	12	259
0231911	WBNWaterHardness	stream	04080206	04	CU	65	242	46.4	96	220	<b>245</b>	265	360
0231911	WBNWaterHardness	lake	04	04	RG	1554	114.3	91.8	3	24	<b>100</b>	163	757
0231914	WBNDOC	stream	04090004	04	CU	54	3.8	2.4		1.9	<b>3.1</b>	5.9	8.6
0231914	WBNDOC	lake	04	04	RG	18570	2.5	1.8		1.9	<b>2.1</b>	2.6	36
0231914	WBNpH	stream	04090004	04	CU	6101	8	0.3	6.1	7.8	<b>8</b>	8.2	9.5
0231914	WBNpH	lake	04090004	04	CU	60	8.1	0.3	7.2	7.9	<b>8.1</b>	8.2	8.8
0231914	WBNTOC	stream	04090004	04	CU	2331	4.1	4.1	0.5	2.1	<b>2.6</b>	5	114
0231914	WBNTOC	lake	040900	04	AU	90	10.8	5.6	0	6.1	<b>10.3</b>	15	24.1
0231914	WBNTSS	stream	04090004	04	CU	171	55.4	84.6	1	10	<b>21</b>	56	474
0231914	WBNTSS	lake	04	04	RG	39	14.4	40.9	0	4	<b>6</b>	12	259
0231914	WBNWaterHardness	stream	04090004	04	CU	1650	109.5	24.9	90	102	<b>105</b>	109	355
0231914	WBNWaterHardness	lake	04	04	RG	1554	114.3	91.8	3	24	<b>100</b>	163	757
0232305	WBNDOC	stream	01080105	01	CU	33	1.6	0.8		1.2	<b>1.4</b>	1.7	4.7
0232305	WBNDOC	lake	010801	01	AU	36	4.9	1.9		3.9	<b>4.8</b>	5.8	9
0232305	WBNpH	stream	01080105	01	CU	111	6.7	0.6	4.8	6.4	<b>6.9</b>	7.1	8.2
0232305	WBNpH	lake	010801	01	AU	2351	7	0.8	3.3	6.6	<b>7.1</b>	7.6	9.3
0232305	WBNTOC	stream	010801	01	AU	287	5.1	3.5	0.5	2.4	<b>4.4</b>	7	26
0232305	WBNTOC	lake	010801	01	AU	146	2.8	1.1	0.8	2	<b>2.5</b>	3.5	6.1
0232305	WBNTSS	stream	01080105	01	CU	96	30.6	119.9	0	3	<b>6</b>	12	111
0232305	WBNTSS	lake	01	01	RG	42	3.3	2.5	0.6	1	<b>3</b>	4	14
0232305	WBNWaterHardness	stream	010801	01	AU	199	39.4	30.9	0	17	<b>31</b>	47	157
0232305	WBNWaterHardness	lake	01	01	RG	51	73.6	44.4	4	11	<b>94</b>	110	130
0232313	WBNDOC	stream	120100	12	AU	65	8.9	6		4.8	<b>7.7</b>	11	34
0232313	WBNDOC	lake	12	12	RG	230	9.7	3.3		7.4	<b>9.4</b>	12	20
0232313	WBNpH	stream	12010002	12	CU	1648	6.9	0.6	3.8	6.5	<b>6.9</b>	7.3	9.4
0232313	WBNpH	lake	12010002	12	CU	806	7.1	0.6	5.4	6.7	<b>7</b>	7.4	9.5

## Appendix 6A

## STORET Water Quality Data

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
0232313	WBNTOC	stream	12010002	12	CU	508	10.2	4.3	1	7.5	<b>9.4</b>	12	35
0232313	WBNTOC	lake	12010002	12	CU	211	6.8	3.5	1	4.9	<b>6</b>	8	28
0232313	WBNTSS	stream	120100	12	AU	263	60.5	91.3	7	22	<b>34</b>	56	656
0232313	WBNTSS	lake	120100	12	AU	263	60.5	91.3	7	22	<b>34</b>	56	656
0232313	WBNWaterHardness	stream	12010002	12	CU	306	65.1	51.6	17	40	<b>53</b>	74	730
0232313	WBNWaterHardness	lake	12010002	12	CU	20	57.1	22.3	24	32	<b>56</b>	74	92
0232402	WBNDOC	stream	02040205	02	CU	1164	11.4	189.2		3.4	<b>5</b>	7	645.3
0232402	WBNDOC	lake	02040205	02	CU	24	6	2.4		4	<b>5</b>	8	11
0232402	WBNpH	stream	02040205	02	CU	10418	7.5	7.6	0.7	7.1	<b>7.4</b>	7.7	776
0232402	WBNpH	lake	02040205	02	CU	244	7.1	0.7	5.5	6.6	<b>7.1</b>	7.5	9.7
0232402	WBNTOC	stream	02040205	02	CU	2762	6.9	30.3	0	3.2	<b>5</b>	8	151.7
0232402	WBNTOC	lake	02040205	02	CU	36	8.4	3.1	3	6	<b>9</b>	11	14
0232402	WBNTSS	stream	02040205	02	CU	652	181.4	403.9	0	4	<b>13</b>	160	489
0232402	WBNTSS	lake	02	02	RG	126	34.8	78.4	0	2	<b>3</b>	15	435
0232402	WBNWaterHardness	stream	02040205	02	CU	3890	132.6	278.9	0	66	<b>88</b>	110	500
0232402	WBNWaterHardness	lake	02040205	02	CU	169	48.4	26.6	4	38	<b>44</b>	52	222
0232415	WBNDOC	stream	04110002	04	CU	46	7.4	3.9		5.1	<b>6.1</b>	8.8	19
0232415	WBNDOC	lake	041100	04	AU	60	3.3	1.1		2.7	<b>3.1</b>	3.9	6.7
0232415	WBNpH	stream	04110002	04	CU	5830	7.7	2.3	1.5	7.4	<b>7.7</b>	7.9	176
0232415	WBNpH	lake	04110002	04	CU	187	7.7	0.6	6.4	7.2	<b>7.7</b>	8.2	9.1
0232415	WBNTOC	stream	04110002	04	CU	938	10	8	0	5.9	<b>8</b>	12	99
0232415	WBNTOC	lake	041100	04	AU	81	4.4	2.2	1.7	2.7	<b>3.7</b>	5.7	11
0232415	WBNTSS	stream	04110002	04	CU	214	636.4	859.1	4	30	<b>233</b>	955	490
0232415	WBNTSS	lake	04	04	RG	39	14.4	40.9	0	4	<b>6</b>	12	259
0232415	WBNWaterHardness	stream	04110002	04	CU	1204	244.3	83	64	194	<b>236</b>	268	778
0232415	WBNWaterHardness	lake	04110002	04	CU	36	242.5	143.1	34	121	<b>266</b>	287	757
0232501	WBNDOC	stream	050301	05	AU	146	4.7	6.5		1.8	<b>3.5</b>	5.7	72
0232501	WBNDOC	lake	05	05	RG	575	4	3		2.1	<b>3.2</b>	4.7	19
0232501	WBNpH	stream	05030102	05	CU	1438	7.3	0.6	0.7	7	<b>7.3</b>	7.6	9.6
0232501	WBNpH	lake	05030102	05	CU	1526	7.6	0.7	5.6	7.1	<b>7.5</b>	7.9	13.5
0232501	WBNTOC	stream	05030102	05	CU	535	5.5	1.7	0	4.7	<b>5.4</b>	6.1	28.6
0232501	WBNTOC	lake	050301	05	AU	48	5.6	2.8	0	3.9	<b>5.9</b>	7	15
0232501	WBNTSS	stream	05030102	05	CU	67	27.8	44.6	1	6	<b>12</b>	32	228
0232501	WBNTSS	lake	05030102	05	CU	67	27.8	44.6	1	6	<b>12</b>	32	228
0232501	WBNWaterHardness	stream	05030102	05	CU	581	107.8	59.7	0	75	<b>94</b>	125	990
0232501	WBNWaterHardness	lake	05030102	05	CU	661	84.3	17.8	11	74	<b>83</b>	92	178
0232705	WBNDOC	stream	03150104	03	CU	32	1.4	1.3		0.7	<b>1.1</b>	1.6	7.3
0232705	WBNDOC	lake	03150104	03	CU	212	2.2	0.8		2	<b>2</b>	2.4	6.4
0232705	WBNpH	stream	03150104	03	CU	52338	6.7	0.4	0	6.5	<b>6.7</b>	6.9	11.5
0232705	WBNpH	lake	03150104	03	CU	1538	6.8	0.6	3.5	6.4	<b>6.7</b>	7.1	9.8
0232705	WBNTOC	stream	03150104	03	CU	1770	2.8	2.2	0.4	1.3	<b>2.1</b>	3.1	22.2
0232705	WBNTOC	lake	03150104	03	CU	357	3	2	0.8	2	<b>2.5</b>	3.4	28
0232705	WBNTSS	stream	03150104	03	CU	525	120.1	226.9	1	9	<b>36</b>	124	162
0232705	WBNTSS	lake	03	03	RG	501	123.3	208.8	0	2	<b>8</b>	168	106.2
0232705	WBNWaterHardness	stream	03150104	03	CU	428	35.4	22.6	1	20	<b>33</b>	48	140
0232705	WBNWaterHardness	lake	03	03	RG	5668	52	69.3	0	14	<b>24</b>	67	106
0233601	WBNDOC	stream	02070005	02	CU	81	5.6	18		0.9	<b>2.4</b>	3.8	160
0233601	WBNDOC	lake	020700	02	AU	579	5.7	1.6		5	<b>6</b>	6.5	11.1
0233601	WBNpH	stream	02070005	02	CU	9759	8.1	0.7	0	7.7	<b>8.1</b>	8.5	11
0233601	WBNpH	lake	02070005	02	CU	192	6.9	0.6	4.5	6.7	<b>6.9</b>	7	9
0233601	WBNTOC	stream	02070005	02	CU	4171	4.9	5.1	0	2.1	<b>3.6</b>	6	135
0233601	WBNTOC	lake	020700	02	AU	1904	24.2	404.6	0	5	<b>6.2</b>	8	1345
0233601	WBNTSS	stream	02070005	02	CU	41	136.2	194.9	4	15	<b>70</b>	165	101.3
0233601	WBNTSS	lake	02	02	RG	126	34.8	78.4	0	2	<b>3</b>	15	435
0233601	WBNWaterHardness	stream	02070005	02	CU	924	126.3	84.2	0.7	60	<b>130</b>	186	760
0233601	WBNWaterHardness	lake	020700	02	AU	26	48.5	45.9	5	14	<b>36</b>	64	162
0233603	WBNDOC	stream	031502	03	AU	264	1.9	2		0.2	<b>1.1</b>	3.3	12
0233603	WBNDOC	lake	0315	03	SR	443	2.2	0.8		2	<b>2</b>	2.1	9.1

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
0233603	WBNoH	stream	03150202	03	CU	5573	7.4	0.5	5	7.1	<b>7.4</b>	7.7	9.6
0233603	WBNoH	lake	03150202	03	CU	347	7.8	0.5	6.3	7.5	<b>7.8</b>	8.1	9
0233603	WBNTOC	stream	03150202	03	CU	111	7.2	5.2	1	4.3	<b>5.4</b>	9	30
0233603	WBNTOC	lake	0315	03	SR	727	2.8	2	0.4	2	<b>2.1</b>	3.1	28
0233603	WBNTSS	stream	03150202	03	CU	177	41.4	92.3	0	9	<b>18</b>	39	716
0233603	WBNTSS	lake	03	03	RG	501	123.3	208.8	0	2	<b>8</b>	168	106.2
0233603	WBNWaterHardness	stream	03150202	03	CU	1072	96.2	41.5	0	69	<b>94</b>	120	310
0233603	WBNWaterHardness	lake	03	03	RG	5668	52	69.3	0	14	<b>24</b>	67	106
0234904	WBNDOC	stream	02040104	02	CU	589	2.8	2.2		1.7	<b>2.3</b>	3.4	39
0234904	WBNDOC	lake	02040104	02	CU	38	4.7	3.1		3	<b>3.7</b>	5	16.4
0234904	WBNoH	stream	02040104	02	CU	7591	7	0.7	0	6.6	<b>7</b>	7.4	10.1
0234904	WBNoH	lake	02040104	02	CU	40	6.6	1.1	4.4	6.4	<b>6.6</b>	7	9.6
0234904	WBNTOC	stream	02040104	02	CU	829	4.3	2.8	0	2.4	<b>3.4</b>	5.1	24
0234904	WBNTOC	lake	020401	02	AU	127	4.4	2.3	0	3.1	<b>3.9</b>	5.2	15
0234904	WBNTSS	stream	02040104	02	CU	217	25.8	52.2	0	2	<b>5</b>	23	408
0234904	WBNTSS	lake	02	02	RG	126	34.8	78.4	0	2	<b>3</b>	15	435
0234904	WBNWaterHardness	stream	02040104	02	CU	476	20.3	9.5	5	13	<b>20</b>	25	97
0234904	WBNWaterHardness	lake	020401	02	AU	90	53.2	4.4	47	50	<b>52</b>	54	71
0235301	WBNDOC	stream	051202	05	AU	201	8	13		3.8	<b>5.7</b>	8.5	130
0235301	WBNDOC	lake	05	05	RG	575	4	3		2.1	<b>3.2</b>	4.7	19
0235301	WBNoH	stream	05120204	05	CU	1145	11.8	15.9	0.9	7.6	<b>7.8</b>	8.1	83
0235301	WBNoH	lake	05120204	05	CU	44	7.9	0.5	7	7.7	<b>7.9</b>	8.3	8.9
0235301	WBNTOC	stream	05120204	05	CU	61	6.8	4.7	0	3.9	<b>5.6</b>	6.9	20.1
0235301	WBNTOC	lake	051202	05	AU	479	3.6	3	0	2	<b>3</b>	4	55
0235301	WBNTSS	stream	05120204	05	CU	234	109	135.8	5	38	<b>65</b>	123	986
0235301	WBNTSS	lake	05120204	05	CU	234	109	135.8	5	38	<b>65</b>	123	986
0235301	WBNWaterHardness	stream	05120204	05	CU	76	336.1	49.5	174	314	<b>344</b>	360	460
0235301	WBNWaterHardness	lake	051202	05	AU	380	80.3	46.8	0.5	51	<b>66</b>	95	315
0312301	WBNDOC	stream	02070005	02	CU	81	5.6	18		0.9	<b>2.4</b>	3.8	160
0312301	WBNDOC	lake	020700	02	AU	579	5.7	1.6		5	<b>6</b>	6.5	11.1
0312301	WBNoH	stream	02070005	02	CU	9759	8.1	0.7	0	7.7	<b>8.1</b>	8.5	11
0312301	WBNoH	lake	02070005	02	CU	192	6.9	0.6	4.5	6.7	<b>6.9</b>	7	9
0312301	WBNTOC	stream	02070005	02	CU	4171	4.9	5.1	0	2.1	<b>3.6</b>	6	135
0312301	WBNTOC	lake	020700	02	AU	1904	24.2	404.6	0	5	<b>6.2</b>	8	1345
0312301	WBNTSS	stream	02070005	02	CU	41	136.2	194.9	4	15	<b>70</b>	165	101.3
0312301	WBNTSS	lake	02	02	RG	126	34.8	78.4	0	2	<b>3</b>	15	435
0312301	WBNWaterHardness	stream	02070005	02	CU	924	126.3	84.2	0.7	60	<b>130</b>	186	760
0312301	WBNWaterHardness	lake	020700	02	AU	26	48.5	45.9	5	14	<b>36</b>	64	162
0314202	WBNDOC	stream	02020006	02	CU	109	2.9	7		1.1	<b>1.7</b>	2.6	71
0314202	WBNDOC	lake	020200	02	AU	112	3.9	2.1		2.7	<b>3.3</b>	5.1	10.3
0314202	WBNoH	stream	02020006	02	CU	5697	7.5	0.4	0.7	7.4	<b>7.5</b>	7.7	12
0314202	WBNoH	lake	02020006	02	CU	118	7.5	0.7	2.5	7.2	<b>7.5</b>	7.9	8.6
0314202	WBNTOC	stream	02020006	02	CU	41	2.5	2.4	0	0.9	<b>1.8</b>	4.1	13
0314202	WBNTOC	lake	020200	02	AU	47	4.7	4	0	2.7	<b>3.1</b>	6.2	21
0314202	WBNTSS	stream	02020006	02	CU	345	14.1	47.1	0	2	<b>4</b>	7	470
0314202	WBNTSS	lake	02	02	RG	126	34.8	78.4	0	2	<b>3</b>	15	435
0314202	WBNWaterHardness	stream	02020006	02	CU	99	57.5	32.5	9	21	<b>70</b>	80	128
0314202	WBNWaterHardness	lake	02	02	RG	1006	65.3	204.9	0	33	<b>42</b>	56	380
0321802	WBNDOC	stream	17080001	17	CU	51	2	0.9		1.4	<b>2</b>	2.6	4.8
0321802	WBNDOC	lake	170800	17	AU	40	33.2	173.3		1.1	<b>2.1</b>	4.5	110
0321802	WBNoH	stream	17080001	17	CU	10840	7.3	0.5	4.1	7	<b>7.2</b>	7.5	17.1
0321802	WBNoH	lake	17080001	17	CU	51	6.9	0.6	5.7	6.6	<b>6.9</b>	7.2	8.4
0321802	WBNTOC	stream	17080001	17	CU	1987	1.5	1.5	0	0.9	<b>1.1</b>	1.6	31
0321802	WBNTOC	lake	170800	17	AU	81	5.4	4.3	0.4	1.8	<b>5</b>	7.3	22
0321802	WBNTSS	stream	17080001	17	CU	10469	4	31.3	0	0.3	<b>0.5</b>	1	103.2
0321802	WBNTSS	lake	17	17	RG	119	90.6	637.9	1	2	<b>7</b>	13	577
0321802	WBNWaterHardness	stream	17080001	17	CU	21	54.5	24.6	8	54	<b>65</b>	73	81
0321802	WBNWaterHardness	lake	170800	17	AU	102	90	132.9	13	21	<b>49</b>	99	900

## Appendix 6A

## STORET Water Quality Data

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
0331006	WBNDOC	stream	080203	08	AU	279	10.2	4.8	6.9	<b>9.2</b>	13	27.3	
0331006	WBNDOC	lake	08	08	RG	119	5.1	2.7	4	<b>4.7</b>	5.5	22	
0331006	WBNoH	stream	08020304	08	CU	613	7.3	0.4	6.1	7	<b>7.3</b>	7.6	8.6
0331006	WBNoH	lake	080203	08	AU	95	7.9	0.8	6.3	7.2	<b>7.7</b>	8.6	9.9
0331006	WBNTOC	stream	08020304	08	CU	308	10.6	4.1	2.7	8	<b>10</b>	12.3	26.6
0331006	WBNTOC	lake	0802	08	SR	33	8.4	3.6	3	5.5	<b>8.6</b>	10.5	17.2
0331006	WBNTSS	stream	080203	08	AU	535	131.5	186.7	4	52	<b>83</b>	129	165.4
0331006	WBNTSS	lake	08	08	RG	1582	107.9	261.7	0	20	<b>39</b>	96	421.1
0331006	WBNWaterHardness	stream	08020304	08	CU	221	71.3	54.4	12	32	<b>56</b>	94	296
0331006	WBNWaterHardness	lake	080203	08	AU	74	47	10.9	26	42	<b>44</b>	48	86
0331902	WBNDOC	stream	111003	11	AU	106	7.4	5.4		3.8	<b>5.9</b>	9.3	39
0331902	WBNDOC	lake	11	11	RG	447	8.4	8.2		3.2	<b>5.1</b>	12	49
0331902	WBNoH	stream	11100301	11	CU	1519	8.2	0.5	0	8	<b>8.2</b>	8.4	9.5
0331902	WBNoH	lake	11100301	11	CU	1903	8.3	0.5	6.8	8.1	<b>8.4</b>	8.5	10.6
0331902	WBNTOC	stream	11100301	11	CU	542	8.3	5.5	0	5	<b>6.6</b>	9	48.7
0331902	WBNTOC	lake	11100301	11	CU	35	7.5	0.4	6.8	7.2	<b>7.4</b>	7.6	8.7
0331902	WBNTSS	stream	11100301	11	CU	505	106.5	274	0	60	<b>145</b>	630	2703
0331902	WBNTSS	lake	11	11	RG	2106	111.6	269.6	1	40	<b>70</b>	110	761
0331902	WBNWaterHardness	stream	11100301	11	CU	100	475.2	134.2	148	398	<b>450</b>	545	825
0331902	WBNWaterHardness	lake	11100301	11	CU	33	417.9	27	360	400	<b>420</b>	440	460
0332104	WBNDOC	stream	1109	11	SR	168	9.5	8.7		5.3	<b>7.2</b>	11	79
0332104	WBNDOC	lake	1109	11	SR	29	5.9	1.5		5	<b>5.4</b>	6.7	9.6
0332104	WBNoH	stream	11090106	11	CU	804	8	0.5	6	7.8	<b>8.1</b>	8.3	12
0332104	WBNoH	lake	11090106	11	CU	27	8.9	0.6	8.2	8.5	<b>8.7</b>	8.9	10
0332104	WBNTOC	stream	11090106	11	CU	363	9.7	10.3	1	5	<b>8</b>	11.6	138
0332104	WBNTOC	lake	110901	11	AU	325	10.7	13	0.7	4	<b>5.5</b>	11	90.8
0332104	WBNTSS	stream	11090106	11	CU	201	120.2	471.3	1	25	<b>45</b>	81	535
0332104	WBNTSS	lake	11	11	RG	2106	111.6	269.6	1	40	<b>70</b>	110	761
0332104	WBNWaterHardness	stream	11090106	11	CU	32	629.7	480.8	140	405	<b>540</b>	610	236
0332104	WBNWaterHardness	lake	110901	11	AU	146	239.1	40	91	216	<b>248</b>	267	294
0332707	WBNDOC	stream	031002	03	AU	41	14.7	16.5		4.8	<b>9</b>	16	65
0332707	WBNDOC	lake	031002	03	AU	29	10.6	2.8		8.1	<b>10.1</b>	12.2	17
0332707	WBNoH	stream	03100204	03	CU	2872	7.3	10.2	3.1	6.7	<b>7.2</b>	7.6	550
0332707	WBNoH	lake	03100204	03	CU	51	7.4	1.1	4.5	6.8	<b>7.5</b>	8.2	8.9
0332707	WBNTOC	stream	03100204	03	CU	1117	12.7	14.6	0.5	8	<b>11</b>	15.1	440
0332707	WBNTOC	lake	03100204	03	CU	33	13.4	4.9	1	12	<b>13</b>	16	26
0332707	WBNTSS	stream	03100204	03	CU	100	27.6	98.9	0	4	<b>6</b>	15.5	698
0332707	WBNTSS	lake	031002	03	AU	47	1.8	4.2	0	1	<b>1</b>	2	29
0332707	WBNWaterHardness	stream	03100204	03	CU	21	149.5	45.8	32	110	<b>170</b>	180	230
0332707	WBNWaterHardness	lake	031002	03	AU	986	103	68.3	0	59	<b>82</b>	132	645
0332811	WBNDOC	stream	05060001	05	CU	55	4.9	1.6		4.1	<b>5.2</b>	5.8	8.9
0332811	WBNDOC	lake	050600	05	AU	184	4.1	2.1		2.4	<b>4.2</b>	5.2	18.3
0332811	WBNoH	stream	05060001	05	CU	6556	7.8	0.4	5.3	7.5	<b>7.8</b>	8.1	10
0332811	WBNoH	lake	05060001	05	CU	6740	7.7	0.6	2.9	7.3	<b>7.8</b>	8.2	9.6
0332811	WBNTOC	stream	05060001	05	CU	3357	9.2	5.7	1	6.4	<b>8.1</b>	10	80
0332811	WBNTOC	lake	05060001	05	CU	271	6.5	2.5	1	5	<b>6.6</b>	8.2	15
0332811	WBNTSS	stream	05060001	05	CU	194	233.4	530.5	0	19	<b>48</b>	178	440
0332811	WBNTSS	lake	05060001	05	CU	194	233.4	530.5	0	19	<b>48</b>	178	440
0332811	WBNWaterHardness	stream	05060001	05	CU	3371	290.4	80.7	24	249	<b>290</b>	330	887
0332811	WBNWaterHardness	lake	05060001	05	CU	196	186.4	38.7	128	158	<b>182</b>	208	361
0430108	WBNDOC	stream	102400	10	AU	66	7	8.6		3.6	<b>4.5</b>	7.6	64
0430108	WBNDOC	lake	10	10	RG	1257	11.6	228.4		2.3	<b>4.1</b>	5	810
0430108	WBNoH	stream	10240006	10	CU	1231	8.1	0.4	6.7	7.8	<b>8</b>	8.3	9.3
0430108	WBNoH	lake	102400	10	AU	1755	8.1	0.7	5	7.5	<b>8.2</b>	8.5	9.7
0430108	WBNTOC	stream	10240006	10	CU	140	8.6	9.7	1.5	3.8	<b>5.2</b>	9.2	57
0430108	WBNTOC	lake	102400	10	AU	38	8.4	3.2	5	5.5	<b>8.1</b>	10	18
0430108	WBNTSS	stream	10240006	10	CU	35	116.3	116.6	100	525	<b>934</b>	129	542
0430108	WBNTSS	lake	10	10	RG	30	10.8	8.6	1	4	<b>9</b>	18	33

## Appendix 6A

## STORET Water Quality Data

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
0430108	WBNWaterHardness	stream	10240006	10	CU	30	234.2	55.9	68	220	<b>255</b>	270	300
0430108	WBNWaterHardness	lake	102400	10	AU	93	140.9	26.3	96	126	<b>132</b>	147	238
0430412	WBNDOC	stream	04110003	04	CU	34	8.6	4.6		6	<b>8</b>	10	30
0430412	WBNDOC	lake	04110003	04	CU	28	3.5	1.2		2.9	<b>3.3</b>	3.9	6.7
0430412	WBNNpH	stream	04110003	04	CU	1680	7.7	0.5	4.9	7.4	<b>7.7</b>	8.1	9.6
0430412	WBNNpH	lake	04110003	04	CU	345	7.8	0.5	6.7	7.5	<b>7.8</b>	8.2	9.2
0430412	WBNTOC	stream	04110003	04	CU	440	9.7	18	0	5.6	<b>7.5</b>	10	307
0430412	WBNTOC	lake	04110003	04	CU	27	3.8	1	2.1	3.1	<b>3.7</b>	4.6	6.2
0430412	WBNTSS	stream	04110003	04	CU	97	104.4	163.7	0	8	<b>202</b>	159	785
0430412	WBNTSS	lake	04	04	RG	39	14.4	40.9	0	4	<b>6</b>	12	259
0430412	WBNWaterHardness	stream	04110003	04	CU	522	328.3	384.7	40	113	<b>174</b>	265	216
0430412	WBNWaterHardness	lake	041100	04	AU	48	229.2	128.1	34	136	<b>258</b>	273	757
0431912	WBNDOC	stream	10290102	10	CU	80	6.7	3.2		4.5	<b>5.9</b>	7.8	18.3
0431912	WBNDOC	lake	10290102	10	CU	117	4.5	0.7		4	<b>4.5</b>	4.9	6.7
0431912	WBNNpH	stream	10290102	10	CU	1382	7.7	0.4	2.4	7.5	<b>7.7</b>	8	9.6
0431912	WBNNpH	lake	10290102	10	CU	2595	7.6	0.5	6.4	7.2	<b>7.6</b>	7.9	9.1
0431912	WBNTOC	stream	10290102	10	CU	162	11.7	9.1	3.6	6	<b>9.3</b>	14.2	82
0431912	WBNTOC	lake	10290102	10	CU	209	6.2	4.5	3.3	4.6	<b>5.1</b>	6.6	63
0431912	WBNTSS	stream	10290102	10	CU	654	571.1	918.2	5	91	<b>342</b>	730	1640
0431912	WBNTSS	lake	102901	10	AU	20	11.6	9.7	1	3.5	<b>9</b>	18.5	33
0431912	WBNWaterHardness	stream	10290102	10	CU	311	167.5	75.3	32	135	<b>162</b>	203	520
0431912	WBNWaterHardness	lake	10290102	10	CU	118	123.9	24	66	112	<b>131</b>	139	165
0432011	WBNDOC	stream	06030002	06	CU	129	2.3	1		1.9	<b>2.2</b>	2.6	6.2
0432011	WBNDOC	lake	06	06	RG	35	2	2.4		1	<b>1.4</b>	1.9	14.9
0432011	WBNNpH	stream	06030002	06	CU	21418	7.9	1.1	1	7.4	<b>7.8</b>	8.3	78
0432011	WBNNpH	lake	060300	06	AU	644	7.5	0.5	5.9	7.1	<b>7.4</b>	7.7	9.2
0432011	WBNTOC	stream	06030002	06	CU	1542	3.4	2.6	0.2	2	<b>2.8</b>	3.7	41
0432011	WBNTOC	lake	06	06	RG	66	4.2	4.6	1	1.9	<b>2.8</b>	4.6	33
0432011	WBNTSS	stream	06030002	06	CU	26	45.6	37.3	6	23	<b>33</b>	52	157
0432011	WBNTSS	lake	06030002	06	CU	26	45.6	37.3	6	23	<b>33</b>	52	157
0432011	WBNWaterHardness	stream	06030002	06	CU	74	95.5	37.8	20	70	<b>87.5</b>	130	170
0432011	WBNWaterHardness	lake	060300	06	AU	36	59.9	12.9	36	53	<b>60</b>	67	86
0432106	WBNDOC	stream	02040105	02	CU	486	3.1	1.3		2.3	<b>2.9</b>	3.7	10
0432106	WBNDOC	lake	020401	02	AU	93	4.7	3		2.9	<b>4</b>	5.5	20
0432106	WBNNpH	stream	02040105	02	CU	6744	7.7	0.8	0	7.3	<b>7.6</b>	8.1	12.4
0432106	WBNNpH	lake	02040105	02	CU	237	7.4	0.9	0	7.1	<b>7.6</b>	7.9	10.2
0432106	WBNTOC	stream	02040105	02	CU	2574	4.7	2.8	0	2.9	<b>4</b>	5.8	35
0432106	WBNTOC	lake	02040105	02	CU	92	4.4	1.9	0	3.3	<b>3.9</b>	5	12
0432106	WBNTSS	stream	02040105	02	CU	872	62.7	185.8	0	5	<b>11</b>	42.5	271.3
0432106	WBNTSS	lake	02	02	RG	126	34.8	78.4	0	2	<b>3</b>	15	435
0432106	WBNWaterHardness	stream	02040105	02	CU	808	89.5	66.8	11	43	<b>63</b>	122	694
0432106	WBNWaterHardness	lake	02040105	02	CU	90	53.2	4.4	47	50	<b>52</b>	54	71
0432716	WBNDOC	stream	07010101	07	CU	92	10.4	7.5		6.8	<b>7.9</b>	11	37
0432716	WBNDOC	lake	07010101	07	CU	94	8.3	3.6		6.6	<b>7.3</b>	8.8	32
0432716	WBNNpH	stream	07010101	07	CU	470	7.8	0.4	6	7.6	<b>7.8</b>	8.1	9.1
0432716	WBNNpH	lake	07010101	07	CU	1479	7.7	0.6	5.7	7.3	<b>7.9</b>	8.2	9.1
0432716	WBNTOC	stream	07010101	07	CU	71	9.5	3.2	5	7.4	<b>8.8</b>	11	19
0432716	WBNTOC	lake	07010101	07	CU	24	10.5	3.9	3.3	7.6	<b>11.6</b>	13.2	15.8
0432716	WBNTSS	stream	07010101	07	CU	21	9.3	10.3	0.8	3	<b>5</b>	10	41
0432716	WBNTSS	lake	070101	07	AU	20	23.2	58.3	2	6	<b>9.5</b>	11.5	267
0432716	WBNWaterHardness	stream	07010101	07	CU	24	155.4	22.6	124	138	<b>150</b>	179	194
0432716	WBNWaterHardness	lake	070101	07	AU	385	42.4	43.2	4	7	<b>11</b>	87	200
0433201	WBNDOC	stream	07120001	07	CU	88	6.5	4		4.5	<b>5.3</b>	7.3	27
0433201	WBNDOC	lake	07	07	RG	649	6.8	4.5		4.1	<b>5.8</b>	8.2	50
0433201	WBNNpH	stream	07120001	07	CU	2924	7.9	0.5	0	7.7	<b>7.9</b>	8.2	9.3
0433201	WBNNpH	lake	07120001	07	CU	67	8.2	0.3	7.2	8.1	<b>8.2</b>	8.5	8.8
0433201	WBNTOC	stream	07120001	07	CU	521	8.1	6.8	2.8	5.6	<b>6.5</b>	8	61
0433201	WBNTOC	lake	071200	07	AU	233	10	5.7	1	6	<b>9</b>	12	41.5

## Appendix 6A

## STORET Water Quality Data

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
0433201	WBNTSS	stream	07120001	07	CU	605	120.9	335	0	25	<b>48</b>	76	402
0433201	WBNTSS	lake	071200	07	AU	91	66	90.2	3	13	<b>30</b>	71	449
0433201	WBNWaterHardness	stream	07120001	07	CU	356	312.7	48.7	98	298	<b>322</b>	339	644
0433201	WBNWaterHardness	lake	071200	07	AU	37	239.3	52.5	152	220	<b>230</b>	250	408
0433204	WBNDOC	stream	030402	03	AU	393	5.9	5.4		2.4	<b>3.5</b>	7.2	27
0433204	WBNDOC	lake	03	03	RG	2814	5.8	7.6		2	<b>3</b>	6.1	97
0433204	WBNpH	stream	03040207	03	CU	929	7	2.7	2	6.5	<b>6.9</b>	7.2	36
0433204	WBNpH	lake	030402	03	AU	987	6.2	0.8	3.3	5.6	<b>6.3</b>	6.8	9.5
0433204	WBNTOC	stream	03040207	03	CU	143	13.3	8.3	0.1	8.5	<b>10.6</b>	17.2	46
0433204	WBNTOC	lake	030402	03	AU	153	6.8	2.8	2.9	4.6	<b>6.2</b>	8.5	16
0433204	WBNTSS	stream	030402	03	AU	976	12.3	13.3	0	4	<b>7</b>	16	147
0433204	WBNTSS	lake	03	03	RG	501	123.3	208.8	0	2	<b>8</b>	168	106.2
0433204	WBNWaterHardness	stream	030402	03	AU	793	33.4	134.7	1	12	<b>18</b>	25	200
0433204	WBNWaterHardness	lake	030402	03	AU	33	19.5	10.8	4	12	<b>20</b>	23	60
0433404	WBNDOC	stream	101800	10	AU	385	7	5.3		3.7	<b>5.7</b>	8.6	37
0433404	WBNDOC	lake	101800	10	AU	65	4	3		2.3	<b>3.1</b>	4.5	13
0433404	WBNpH	stream	10180011	10	CU	213	8.1	0.3	6.8	8	<b>8.2</b>	8.3	9
0433404	WBNpH	lake	101800	10	AU	637	8.2	0.8	6	8	<b>8.3</b>	8.6	10.2
0433404	WBNTOC	stream	101800	10	AU	1494	5.9	4.2	0.4	3.6	<b>4.9</b>	6.8	52.3
0433404	WBNTOC	lake	101800	10	AU	35	43.4	75.9	3.5	5	<b>6.2</b>	31.4	286
0433404	WBNTSS	stream	10180011	10	CU	129	93.9	211.8	6	30	<b>53</b>	86	224
0433404	WBNTSS	lake	10	10	RG	30	10.8	8.6	1	4	<b>9</b>	18	33
0433404	WBNWaterHardness	stream	10180011	10	CU	23	305.7	12.4	290	300	<b>300</b>	310	330
0433404	WBNWaterHardness	lake	101800	10	AU	45	194.1	46.6	107	167	<b>198</b>	220	331
0433408	WBNDOC	stream	10100001	10	CU	159	9.6	6.5		4.2	<b>8.3</b>	13	31
0433408	WBNDOC	lake	10	10	RG	1257	11.6	228.4		2.3	<b>4.1</b>	5	810
0433408	WBNpH	stream	10100001	10	CU	704	8.2	0.3	6.8	8.1	<b>8.3</b>	8.4	9.2
0433408	WBNpH	lake	101000	10	AU	83	9.2	0.5	7.7	9	<b>9.1</b>	9.5	10.1
0433408	WBNTOC	stream	10100001	10	CU	138	6.3	4.1	1.4	3.5	<b>4.8</b>	8	25
0433408	WBNTOC	lake	10	10	RG	2774	8.2	13.2	0	4.4	<b>6</b>	8	286
0433408	WBNTSS	stream	10100001	10	CU	517	330.4	163.8	4	31	<b>62</b>	153	2170
0433408	WBNTSS	lake	10	10	RG	30	10.8	8.6	1	4	<b>9</b>	18	33
0433408	WBNWaterHardness	stream	10100001	10	CU	74	535.3	585.9	47	190	<b>270</b>	690	240
0433408	WBNWaterHardness	lake	10	10	RG	3092	288.9	468.9	1	126	<b>164</b>	306	1400
0434505	WBNDOC	stream	18100200	18	CU	52	14.5	6.6		9.8	<b>13</b>	17	42
0434505	WBNDOC	lake	18	18	RG	299	3.3	4.7		1	<b>1.6</b>	3.7	47
0434505	WBNpH	stream	18100200	18	CU	3967	7.8	0.4	5.4	7.6	<b>7.9</b>	8.1	9.3
0434505	WBNpH	lake	18100200	18	CU	164	7.6	1.6	0.9	7.5	<b>8.1</b>	8.4	9.4
0434505	WBNTOC	stream	18100200	18	CU	122	21.8	20.4	0	11	<b>16.5</b>	25	161
0434505	WBNTOC	lake	18	18	RG	379	9.5	27	1	4.2	<b>7</b>	10	520
0434505	WBNTSS	stream	18100200	18	CU	277	121	823	18	155	<b>495</b>	673	11000
0434505	WBNTSS	lake	18	18	RG	23	28.8	58.1	1	2	<b>9</b>	18	204
0434505	WBNWaterHardness	stream	18100200	18	CU	243	939.7	133.2	11	495	<b>890</b>	107	1500
0434505	WBNWaterHardness	lake	18	18	RG	1698	104.8	180	0	66	<b>91</b>	120	670
0434804	WBNDOC	stream	03020201	03	CU	84	9.2	4.3		6.5	<b>8.5</b>	10.5	26
0434804	WBNDOC	lake	03	03	RG	2814	5.8	7.6		2	<b>3</b>	6.1	97
0434804	WBNpH	stream	03020201	03	CU	8459	6.8	0.8	0	6.5	<b>6.8</b>	7.1	59
0434804	WBNpH	lake	03020201	03	CU	15851	6.6	0.5	1	6.3	<b>6.6</b>	6.9	10.5
0434804	WBNTOC	stream	03020201	03	CU	1365	9.6	6.4	1.6	5.8	<b>7.9</b>	11	82
0434804	WBNTOC	lake	03020201	03	CU	1830	8.5	2.5	3	7	<b>8</b>	10	24
0434804	WBNTSS	stream	03020201	03	CU	2142	104.9	223	0	9	<b>20</b>	88	185
0434804	WBNTSS	lake	03	03	RG	501	123.3	208.8	0	2	<b>8</b>	168	106.2
0434804	WBNWaterHardness	stream	03020201	03	CU	752	40.4	27.4	0	23	<b>31</b>	46	180
0434804	WBNWaterHardness	lake	03020201	03	CU	37	33.4	30.5	10	20	<b>26</b>	30	150
0435510	WBNDOC	stream	071300	07	AU	121	5	3.1		3.9	<b>4.7</b>	5.9	15
0435510	WBNDOC	lake	07	07	RG	649	6.8	4.5		4.1	<b>5.8</b>	8.2	50
0435510	WBNpH	stream	07130003	07	CU	2629	7.9	0.4	4.4	7.7	<b>7.9</b>	8.2	9.6
0435510	WBNpH	lake	07130003	07	CU	282	8.2	0.7	6	7.9	<b>8.2</b>	8.6	10

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Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
0435510	WBNTOC	stream	07130003	07	CU	376	7.4	4.9	1.4	5.4	<b>6.9</b>	8	47.6
0435510	WBNTOC	lake	07130003	07	CU	23	11.9	7	3	6	<b>11</b>	18	33
0435510	WBNTSS	stream	07130003	07	CU	30	411.8	106.3	19	43	<b>74</b>	167	570
0435510	WBNTSS	lake	07	07	RG	112	57.8	86.5	0	10	<b>23</b>	61	449
0435510	WBNWaterHardness	stream	07130003	07	CU	247	320.9	102.3	42	254	<b>310</b>	363	108.3
0435510	WBNWaterHardness	lake	07	07	RG	8520	155.4	94.6	0	93	<b>135</b>	196	136.2
0436007	WBNDOC	stream	03030004	03	CU	60	6.4	5.6		2.2	<b>3.8</b>	10	28
0436007	WBNDOC	lake	030300	03	AU	186	16.8	4.5		14	<b>16</b>	18	36
0436007	WBNpH	stream	03030004	03	CU	3919	6.3	1.2	2.8	6	<b>6.4</b>	6.8	63
0436007	WBNpH	lake	03030004	03	CU	361	6.4	1.1	3.8	5.8	<b>6.2</b>	7	9.2
0436007	WBNTOC	stream	03030004	03	CU	36	11.4	6.7	2.2	6.6	<b>11.5</b>	14	38
0436007	WBNTOC	lake	030300	03	AU	2014	9.8	3.6	3	8	<b>9</b>	11	36
0436007	WBNTSS	stream	03030004	03	CU	124	117.8	137.5	1	8	<b>68.5</b>	175	618
0436007	WBNTSS	lake	03	03	RG	501	123.3	208.8	0	2	<b>8</b>	168	106.2
0436007	WBNWaterHardness	stream	03030004	03	CU	303	16.1	16.3	1	6	<b>12</b>	20	110
0436007	WBNWaterHardness	lake	030300	03	AU	45	33.9	16.7	9	26	<b>31</b>	38	98
0436108	WBNDOC	stream	03050102	03	CU	22	3.8	2.9		1.2	<b>2.7</b>	6	11
0436108	WBNDOC	lake	030501	03	AU	42	2.3	2.2		1.2	<b>1.4</b>	2.2	10.2
0436108	WBNpH	stream	03050102	03	CU	2620	6.8	0.5	2.5	6.5	<b>6.8</b>	7.1	8.8
0436108	WBNpH	lake	03050102	03	CU	1115	7.1	1.8	5.5	6.6	<b>6.9</b>	7.3	63
0436108	WBNTOC	stream	03050102	03	CU	39	8.4	10.3	1	4	<b>5</b>	9	63
0436108	WBNTOC	lake	030501	03	AU	1069	4.9	3.4	0	2.8	<b>4.1</b>	6	29.2
0436108	WBNTSS	stream	03050102	03	CU	85	249.3	437	1	9	<b>57</b>	273	260
0436108	WBNTSS	lake	0305	03	SR	40	17.7	15.6	3	9	<b>13</b>	20	93
0436108	WBNWaterHardness	stream	03050102	03	CU	231	20.1	11.8	1	10	<b>18</b>	29	64
0436108	WBNWaterHardness	lake	03050102	03	CU	35	24.2	14.2	8	18	<b>22</b>	25	84
0530901	WBNDOC	stream	041000	04	AU	95	6.1	1.9		4.7	<b>6</b>	7.4	11
0530901	WBNDOC	lake	041000	04	AU	201	2.7	2.1		1	<b>2.7</b>	4	8.9
0530901	WBNpH	stream	04100012	04	CU	3032	8	0.4	1.8	7.9	<b>8</b>	8.2	8.9
0530901	WBNpH	lake	04100012	04	CU	51	8.3	0.5	7.2	8.1	<b>8.4</b>	8.7	9
0530901	WBNTOC	stream	04100012	04	CU	502	8.6	6.3	0	5	<b>7</b>	10.2	56
0530901	WBNTOC	lake	041000	04	AU	186	4.2	4.4	0	0	<b>3.4</b>	7.1	20
0530901	WBNTSS	stream	04100012	04	CU	97	108.8	281.8	1	8	<b>17</b>	58	198
0530901	WBNTSS	lake	04	04	RG	39	14.4	40.9	0	4	<b>6</b>	12	259
0530901	WBNWaterHardness	stream	04100012	04	CU	298	280	68.1	124	234	<b>278</b>	331	482
0530901	WBNWaterHardness	lake	041000	04	AU	40	210.2	56.3	101	176	<b>217</b>	247	316
0531301	WBNDOC	stream	071300	07	AU	121	5	3.1		3.9	<b>4.7</b>	5.9	15
0531301	WBNDOC	lake	07	07	RG	649	6.8	4.5		4.1	<b>5.8</b>	8.2	50
0531301	WBNpH	stream	07130006	07	CU	3952	7.8	1.3	0	7.5	<b>7.8</b>	8.2	83.1
0531301	WBNpH	lake	07130006	07	CU	684	7.9	0.5	6.1	7.5	<b>7.9</b>	8.2	9.2
0531301	WBNTOC	stream	07130006	07	CU	775	6.8	5.9	0	3.9	<b>5</b>	7.1	41
0531301	WBNTOC	lake	071300	07	AU	265	5.9	3.9	1	4	<b>5</b>	7	33
0531301	WBNTSS	stream	071300	07	AU	1056	678.3	181.9	0	60	<b>128</b>	534	3800
0531301	WBNTSS	lake	07	07	RG	112	57.8	86.5	0	10	<b>23</b>	61	449
0531301	WBNWaterHardness	stream	07130006	07	CU	427	297.9	48.6	127	269	<b>305</b>	329	507
0531301	WBNWaterHardness	lake	07	07	RG	8520	155.4	94.6	0	93	<b>135</b>	196	136.2
0531502	WBNDOC	stream	05060002	05	CU	50	6.4	4.1		4.2	<b>5.8</b>	7.6	29
0531502	WBNDOC	lake	05060002	05	CU	72	4.2	1.7		3.1	<b>4.3</b>	5.5	8.1
0531502	WBNpH	stream	05060002	05	CU	4755	7.6	0.6	1.1	7.2	<b>7.6</b>	8	9.8
0531502	WBNpH	lake	05060002	05	CU	3142	7.9	0.5	2.2	7.7	<b>8</b>	8.3	9.5
0531502	WBNTOC	stream	05060002	05	CU	354	7.6	4.8	0	4	<b>7</b>	10	29.2
0531502	WBNTOC	lake	05060002	05	CU	141	5.2	2.6	0.6	3	<b>5</b>	6.8	16
0531502	WBNTSS	stream	05060002	05	CU	215	300.7	543.1	1	26	<b>62</b>	217	251
0531502	WBNTSS	lake	05060002	05	CU	215	300.7	543.1	1	26	<b>62</b>	217	251
0531502	WBNWaterHardness	stream	05060002	05	CU	537	245.2	97	56	157	<b>260</b>	319	569
0531502	WBNWaterHardness	lake	05060002	05	CU	116	223.8	60.9	0.5	197	<b>225</b>	259	500
0531702	WBNDOC	stream	1109	11	SR	168	9.5	8.7		5.3	<b>7.2</b>	11	79
0531702	WBNDOC	lake	1109	11	SR	29	5.9	1.5		5	<b>5.4</b>	6.7	9.6

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Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
0531702	WBNoH	stream	11090106	11	CU	804	8	0.5	6	7.8	<b>8.1</b>	8.3	12
0531702	WBNoH	lake	11090106	11	CU	27	8.9	0.6	8.2	8.5	<b>8.7</b>	8.9	10
0531702	WBNTOC	stream	11090106	11	CU	363	9.7	10.3	1	5	<b>8</b>	11.6	138
0531702	WBNTOC	lake	110901	11	AU	325	10.7	13	0.7	4	<b>5.5</b>	11	90.8
0531702	WBNTSS	stream	11090106	11	CU	201	120.2	471.3	1	25	<b>45</b>	81	535
0531702	WBNTSS	lake	11	11	RG	2106	111.6	269.6	1	40	<b>70</b>	110	761
0531702	WBNWaterHardness	stream	11090106	11	CU	32	629.7	480.8	140	405	<b>540</b>	610	236
0531702	WBNWaterHardness	lake	110901	11	AU	146	239.1	40	91	216	<b>248</b>	267	294
0531902	WBNDOC	stream	120401	12	AU	54	7.5	3.8		4.5	<b>7</b>	10	19
0531902	WBNDOC	lake	120401	12	AU	226	9.7	3.1		7.5	<b>9.4</b>	12	20
0531902	WBNoH	stream	12040104	12	CU	3493	7.5	1.2	4	7.1	<b>7.5</b>	7.8	73
0531902	WBNoH	lake	12040104	12	CU	316	6.6	0.5	5.7	6.2	<b>6.5</b>	6.9	9.8
0531902	WBNTOC	stream	12040104	12	CU	2685	15.6	15.2	0	8.7	<b>12</b>	18	506
0531902	WBNTOC	lake	12040104	12	CU	122	14	4.1	4.2	11	<b>14</b>	17	27
0531902	WBNTSS	stream	12040104	12	CU	227	529.5	841.5	7	52	<b>205</b>	668	633
0531902	WBNTSS	lake	12040104	12	CU	227	529.5	841.5	7	52	<b>205</b>	668	633
0531902	WBNWaterHardness	stream	12040104	12	CU	234	127.2	227.8	13	54	<b>96</b>	150	340
0531902	WBNWaterHardness	lake	12040104	12	CU	30	51.9	34.1	29	35	<b>38.5</b>	51	160
0534504	WBNDOC	stream	03130001	03	CU	435	4.3	4.1		1.4	<b>3.2</b>	6	27
0534504	WBNDOC	lake	03130001	03	CU	690	2.1	3.6		1	<b>1.1</b>	2.6	87.4
0534504	WBNoH	stream	03130001	03	CU	16708	6.5	0.4	0	6.2	<b>6.5</b>	6.8	10.1
0534504	WBNoH	lake	03130001	03	CU	3230	6.6	0.8	5	6	<b>6.4</b>	6.9	9.7
0534504	WBNTOC	stream	03130001	03	CU	3562	8.7	34.5	0	1.7	<b>3</b>	5.4	495
0534504	WBNTOC	lake	03130001	03	CU	781	3.3	2.5	0	1.1	<b>2.9</b>	4.8	26.2
0534504	WBNTSS	stream	03130001	03	CU	813	224.6	387.8	2	12	<b>43</b>	272	290
0534504	WBNTSS	lake	03	03	RG	501	123.3	208.8	0	2	<b>8</b>	168	106.2
0534504	WBNWaterHardness	stream	03130001	03	CU	157	30.4	30.3	2	10	<b>14</b>	64	190
0534504	WBNWaterHardness	lake	031300	03	AU	57	21.5	20.9	1	4	<b>16</b>	30	80
0613402	WBNDOC	stream	07140101	07	CU	26	6	1.5		5	<b>5.9</b>	6.9	9.1
0613402	WBNDOC	lake	07	07	RG	649	6.8	4.5		4.1	<b>5.8</b>	8.2	50
0613402	WBNoH	stream	07140101	07	CU	3354	7.7	0.4	0.2	7.4	<b>7.7</b>	8	10.4
0613402	WBNoH	lake	07140101	07	CU	782	8.1	0.7	2.4	7.7	<b>8.2</b>	8.6	10.2
0613402	WBNTOC	stream	07140101	07	CU	104	17.1	14.8	1.3	8.7	<b>12.4</b>	21.5	92
0613402	WBNTOC	lake	071401	07	AU	129	6.6	4.2	1	4	<b>5</b>	9	21
0613402	WBNTSS	stream	07140101	07	CU	83	475.5	395	18	193	<b>371</b>	630	208
0613402	WBNTSS	lake	07	07	RG	112	57.8	86.5	0	10	<b>23</b>	61	449
0613402	WBNWaterHardness	stream	07140101	07	CU	244	360.7	104.2	56	283	<b>377</b>	448	574
0613402	WBNWaterHardness	lake	07	07	RG	8520	155.4	94.6	0	93	<b>135</b>	196	136.2
0620401	WBNDOC	stream	120401	12	AU	54	7.5	3.8		4.5	<b>7</b>	10	19
0620401	WBNDOC	lake	120401	12	AU	226	9.7	3.1		7.5	<b>9.4</b>	12	20
0620401	WBNoH	stream	12040104	12	CU	3493	7.5	1.2	4	7.1	<b>7.5</b>	7.8	73
0620401	WBNoH	lake	12040104	12	CU	316	6.6	0.5	5.7	6.2	<b>6.5</b>	6.9	9.8
0620401	WBNTOC	stream	12040104	12	CU	2685	15.6	15.2	0	8.7	<b>12</b>	18	506
0620401	WBNTOC	lake	12040104	12	CU	122	14	4.1	4.2	11	<b>14</b>	17	27
0620401	WBNTSS	stream	12040104	12	CU	227	529.5	841.5	7	52	<b>205</b>	668	633
0620401	WBNTSS	lake	12040104	12	CU	227	529.5	841.5	7	52	<b>205</b>	668	633
0620401	WBNWaterHardness	stream	12040104	12	CU	234	127.2	227.8	13	54	<b>96</b>	150	340
0620401	WBNWaterHardness	lake	12040104	12	CU	30	51.9	34.1	29	35	<b>38.5</b>	51	160
0620604	WBNDOC	stream	16020204	16	CU	365	12.7	15.8		6.5	<b>9.5</b>	14	200
0620604	WBNDOC	lake	16	16	RG	239	2.7	4.5		1	<b>1.6</b>	2.6	38
0620604	WBNoH	stream	16020204	16	CU	5406	8	0.6	1.5	7.7	<b>8</b>	8.3	11.7
0620604	WBNoH	lake	16020204	16	CU	50	7.9	0.6	6.6	7.5	<b>8.1</b>	8.3	9.1
0620604	WBNTOC	stream	16020204	16	CU	1129	9.9	11	0	3.1	<b>7.2</b>	12	139
0620604	WBNTOC	lake	160202	16	AU	568	4.6	3.7	0	2.6	<b>3.3</b>	5	33.2
0620604	WBNTSS	stream	16020204	16	CU	617	1E+11	3E+12	1	18	<b>49</b>	120	7E+13
0620604	WBNTSS	lake	16	16	RG	35	20	47.4	0	0	<b>1</b>	3	169
0620604	WBNWaterHardness	stream	16020204	16	CU	801	110.2	430.2	40	218	<b>340</b>	472	8300

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
0620604	WBNWaterHardness	lake	160202	16	AU	467	223.9	116.2	7	158	<b>193</b>	270	911
0621603	WBNDOC	stream	120401	12	AU	54	7.5	3.8	4.5	<b>7</b>	10	19	
0621603	WBNDOC	lake	120401	12	AU	226	9.7	3.1	7.5	<b>9.4</b>	12	20	
0621603	WBNpH	stream	12040104	12	CU	3493	7.5	1.2	4	7.1	<b>7.5</b>	7.8	73
0621603	WBNpH	lake	12040104	12	CU	316	6.6	0.5	5.7	6.2	<b>6.5</b>	6.9	9.8
0621603	WBNTOC	stream	12040104	12	CU	2685	15.6	15.2	0	8.7	<b>12</b>	18	506
0621603	WBNTOC	lake	12040104	12	CU	122	14	4.1	4.2	11	<b>14</b>	17	27
0621603	WBNTSS	stream	12040104	12	CU	227	529.5	841.5	7	52	<b>205</b>	668	633
0621603	WBNTSS	lake	12040104	12	CU	227	529.5	841.5	7	52	<b>205</b>	668	633
0621603	WBNWaterHardness	stream	12040104	12	CU	234	127.2	227.8	13	54	<b>96</b>	150	340
0621603	WBNWaterHardness	lake	12040104	12	CU	30	51.9	34.1	29	35	<b>38.5</b>	51	160
0621902	WBNDOC	stream	110300	11	AU	45	87.8	550.7		3.9	<b>4.6</b>	6.8	370
0621902	WBNDOC	lake	11	11	RG	447	8.4	8.2		3.2	<b>5.1</b>	12	49
0621902	WBNpH	stream	11030010	11	CU	824	8	0.5	6.6	7.7	<b>8.1</b>	8.4	9.4
0621902	WBNpH	lake	110300	11	AU	134	8	0.5	6.8	7.6	<b>8</b>	8.2	9.9
0621902	WBNTOC	stream	110300	11	AU	403	12.8	14.6	0.1	4.6	<b>8.6</b>	18	186
0621902	WBNTOC	lake	110300	11	AU	24	7.6	4.7	3.5	4.8	<b>5.8</b>	9.8	25
0621902	WBNTSS	stream	11030010	11	CU	180	725.9	110.2	5	59	<b>201</b>	101	612
0621902	WBNTSS	lake	11	11	RG	2106	111.6	269.6	1	40	<b>70</b>	110	761
0621902	WBNWaterHardness	stream	11030010	11	CU	231	352.1	87.8	60	318	<b>361</b>	399	712
0621902	WBNWaterHardness	lake	110300	11	AU	114	159.1	86.7	5	120	<b>137</b>	169	518
0622902	WBNDOC	stream	150503	15	AU	48	18.7	30.5		9.4	<b>13</b>	15.5	180
0622902	WBNDOC	lake	15	15	RG	54	4.2	0.8		3.6	<b>4</b>	4.7	6.7
0622902	WBNpH	stream	15050301	15	CU	254	7.4	1.3	2	7.2	<b>7.8</b>	8.1	9
0622902	WBNpH	lake	15050301	15	CU	149	7.7	0.5	6.8	7.4	<b>7.7</b>	8	8.7
0622902	WBNTOC	stream	15050301	15	CU	22	31.8	20.7	7.1	22	<b>25</b>	42	92
0622902	WBNTOC	lake	15	15	RG	185	6.8	6.6	1.5	3.4	<b>5</b>	7	42
0622902	WBNTSS	stream	15050301	15	CU	44	1056	1373	2	93.5	<b>367</b>	1925	4570
0622902	WBNTSS	lake	15050301	15	CU	44	1056	1373	2	93.5	<b>367</b>	1925	4570
0622902	WBNWaterHardness	stream	15050301	15	CU	73	386.7	594.6	20	161	<b>195</b>	387	350
0622902	WBNWaterHardness	lake	15	15	RG	177	119.3	335.2	22	128	<b>189</b>	419	1800
0625002	WBNDOC	stream	03060109	03	CU	36	4.6	2.7		2.5	<b>4</b>	6.4	12
0625002	WBNDOC	lake	030601	03	AU	42	6.8	20.5		1	<b>1.3</b>	3.4	97
0625002	WBNpH	stream	03060109	03	CU	5813	6.8	0.5	0	6.6	<b>6.8</b>	7.1	8.7
0625002	WBNpH	lake	030601	03	AU	5879	6.8	0.8	4.1	6.4	<b>6.8</b>	7.3	10
0625002	WBNTOC	stream	03060109	03	CU	2275	6.2	3.8	1	4.1	<b>5.6</b>	7.1	80
0625002	WBNTOC	lake	030601	03	AU	1238	3.6	2.9	0.8	1.9	<b>3</b>	4.5	47.2
0625002	WBNTSS	stream	03060109	03	CU	136	17.4	9.8	2	10	<b>14.5</b>	23.5	54
0625002	WBNTSS	lake	03	03	RG	501	123.3	208.8	0	2	<b>8</b>	168	106.2
0625002	WBNWaterHardness	stream	03060109	03	CU	41	175.9	480.9	13	19	<b>56</b>	98	280
0625002	WBNWaterHardness	lake	030601	03	AU	106	8.7	3.8	2	6	<b>8</b>	12	18
0625501	WBNDOC	stream	12030203	12	CU	42	9.4	3.3		7.2	<b>8.7</b>	12	17
0625501	WBNDOC	lake	12	12	RG	230	9.7	3.3		7.4	<b>9.4</b>	12	20
0625501	WBNpH	stream	12030203	12	CU	657	7.5	0.5	4.6	7.1	<b>7.5</b>	7.8	9.7
0625501	WBNpH	lake	12030203	12	CU	49	7.8	0.4	6.9	7.6	<b>7.9</b>	8.1	8.9
0625501	WBNTOC	stream	12030203	12	CU	162	11.4	5.8	0	7	<b>10</b>	14	44
0625501	WBNTOC	lake	12030203	12	CU	52	13.8	6.1	7	10	<b>12</b>	16	38
0625501	WBNTSS	stream	12030203	12	CU	41	47.9	48.8	6	20	<b>33</b>	47	245
0625501	WBNTSS	lake	12030203	12	CU	41	47.9	48.8	6	20	<b>33</b>	47	245
0625501	WBNWaterHardness	stream	12030203	12	CU	47	143.5	167.7	94	109	<b>118</b>	126	126.5
0625501	WBNWaterHardness	lake	120302	12	AU	479	125.1	23	36	112	<b>122</b>	138	218
0631701	WBNDOC	stream	120401	12	AU	54	7.5	3.8		4.5	<b>7</b>	10	19
0631701	WBNDOC	lake	120401	12	AU	226	9.7	3.1		7.5	<b>9.4</b>	12	20
0631701	WBNpH	stream	12040104	12	CU	3493	7.5	1.2	4	7.1	<b>7.5</b>	7.8	73
0631701	WBNpH	lake	12040104	12	CU	316	6.6	0.5	5.7	6.2	<b>6.5</b>	6.9	9.8
0631701	WBNTOC	stream	12040104	12	CU	2685	15.6	15.2	0	8.7	<b>12</b>	18	506
0631701	WBNTOC	lake	12040104	12	CU	122	14	4.1	4.2	11	<b>14</b>	17	27
0631701	WBNTSS	stream	12040104	12	CU	227	529.5	841.5	7	52	<b>205</b>	668	633

## Appendix 6A

## STORET Water Quality Data

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
0631701	WBNTSS	lake	12040104	12	CU	227	529.5	841.5	7	52	<b>205</b>	668	633
0631701	WBNWaterHardness	stream	12040104	12	CU	234	127.2	227.8	13	54	<b>96</b>	150	340
0631701	WBNWaterHardness	lake	12040104	12	CU	30	51.9	34.1	29	35	<b>38.5</b>	51	160
0631903	WBNDOC	stream	080802	08	AU	39	8	4.4		4.3	<b>7.9</b>	11	17
0631903	WBNDOC	lake	08	08	RG	119	5.1	2.7		4	<b>4.7</b>	5.5	22
0631903	WBNpH	stream	08080206	08	CU	1917	7.3	0.7	0	6.9	<b>7.2</b>	7.7	10.2
0631903	WBNpH	lake	08080206	08	CU	6571	7.1	0.7	1	6.7	<b>7.1</b>	7.5	11.6
0631903	WBNTOC	stream	08080206	08	CU	941	11	58.5	0.2	7	<b>8.7</b>	11	180
0631903	WBNTOC	lake	080802	08	AU	130	11.2	3.1	4.1	9.8	<b>11.5</b>	12.8	20
0631903	WBNTSS	stream	08080206	08	CU	73	230	563.8	18	48	<b>73</b>	141	375.9
0631903	WBNTSS	lake	08080206	08	CU	584	153.9	393.8	0	13	<b>39</b>	123	421.1
0631903	WBNWaterHardness	stream	08080206	08	CU	366	107.1	106.7	9	204	<b>672</b>	168	540
0631903	WBNWaterHardness	lake	0808	08	SR	44	9	1.1	8	8	<b>9</b>	10	12
0632003	WBNDOC	stream	120100	12	AU	65	8.9	6		4.8	<b>7.7</b>	11	34
0632003	WBNDOC	lake	12	12	RG	230	9.7	3.3		7.4	<b>9.4</b>	12	20
0632003	WBNpH	stream	12010002	12	CU	1648	6.9	0.6	3.8	6.5	<b>6.9</b>	7.3	9.4
0632003	WBNpH	lake	12010002	12	CU	806	7.1	0.6	5.4	6.7	<b>7</b>	7.4	9.5
0632003	WBNTOC	stream	12010002	12	CU	508	10.2	4.3	1	7.5	<b>9.4</b>	12	35
0632003	WBNTOC	lake	12010002	12	CU	211	6.8	3.5	1	4.9	<b>6</b>	8	28
0632003	WBNTSS	stream	120100	12	AU	263	60.5	91.3	7	22	<b>34</b>	56	656
0632003	WBNTSS	lake	120100	12	AU	263	60.5	91.3	7	22	<b>34</b>	56	656
0632003	WBNWaterHardness	stream	12010002	12	CU	306	65.1	51.6	17	40	<b>53</b>	74	730
0632003	WBNWaterHardness	lake	12010002	12	CU	20	57.1	22.3	24	32	<b>56</b>	74	92
0632606	WBNDOC	stream	1112	11	SR	33	7.2	8.3		2.8	<b>4.2</b>	9	47
0632606	WBNDOC	lake	11	11	RG	447	8.4	8.2		3.2	<b>5.1</b>	12	49
0632606	WBNpH	stream	11120301	11	CU	163	7.8	0.3	7.1	7.7	<b>7.9</b>	8	8.9
0632606	WBNpH	lake	111203	11	AU	40	8.4	0.5	7.7	8.2	<b>8.3</b>	8.4	10
0632606	WBNTOC	stream	111203	11	AU	281	7.9	8.3	1	5	<b>5</b>	8.5	88.9
0632606	WBNTOC	lake	1112	11	SR	305	5.8	4.7	0.8	3.7	<b>4.9</b>	6.5	53.5
0632606	WBNTSS	stream	111203	11	AU	790	969	168.7	3	199	<b>275</b>	787	1363
0632606	WBNTSS	lake	11	11	RG	2106	111.6	269.6	1	40	<b>70</b>	110	761
0632606	WBNWaterHardness	stream	111203	11	AU	161	997.6	596.9	140	654	<b>100</b>	120	590
0632606	WBNWaterHardness	lake	11	11	RG	3075	134.2	168.2	1	40	<b>95</b>	158	187.8
0632608	WBNDOC	stream	17090012	17	CU	162	3.3	2.8		1.8	<b>2.6</b>	4	28
0632608	WBNDOC	lake	170900	17	AU	30	3.1	2.3		1.6	<b>2.1</b>	3.4	8.2
0632608	WBNpH	stream	17090012	17	CU	10548	6.7	0.4	4.7	6.5	<b>6.7</b>	6.9	9.9
0632608	WBNpH	lake	17090012	17	CU	411	7.8	0.7	6.4	7.3	<b>7.6</b>	8.1	10.6
0632608	WBNTOC	stream	17090012	17	CU	731	135.9	194.2	1	2	<b>2</b>	4	4670
0632608	WBNTOC	lake	17090012	17	CU	74	3	1.8	1	2	<b>3</b>	4	15
0632608	WBNTSS	stream	17090012	17	CU	512	129.3	217.9	1	12	<b>30</b>	163	173.8
0632608	WBNTSS	lake	17	17	RG	119	90.6	637.9	1	2	<b>7</b>	13	577
0632608	WBNWaterHardness	stream	17090012	17	CU	48	38.2	13.6	0	27.5	<b>38</b>	47	70
0632608	WBNWaterHardness	lake	17090012	17	CU	71	45.4	6.6	23	42	<b>47</b>	51	54
0634001	WBNDOC	stream	03150104	03	CU	32	1.4	1.3		0.7	<b>1.1</b>	1.6	7.3
0634001	WBNDOC	lake	03150104	03	CU	212	2.2	0.8		2	<b>2</b>	2.4	6.4
0634001	WBNpH	stream	03150104	03	CU	52338	6.7	0.4	0	6.5	<b>6.7</b>	6.9	11.5
0634001	WBNpH	lake	03150104	03	CU	1538	6.8	0.6	3.5	6.4	<b>6.7</b>	7.1	9.8
0634001	WBNTOC	stream	03150104	03	CU	1770	2.8	2.2	0.4	1.3	<b>2.1</b>	3.1	22.2
0634001	WBNTOC	lake	03150104	03	CU	357	3	2	0.8	2	<b>2.5</b>	3.4	28
0634001	WBNTSS	stream	03150104	03	CU	525	120.1	226.9	1	9	<b>36</b>	124	162
0634001	WBNTSS	lake	03	03	RG	501	123.3	208.8	0	2	<b>8</b>	168	106.2
0634001	WBNWaterHardness	stream	03150104	03	CU	428	35.4	22.6	1	20	<b>33</b>	48	140
0634001	WBNWaterHardness	lake	03	03	RG	5668	52	69.3	0	14	<b>24</b>	67	106
0635301	WBNDOC	stream	15010015	15	CU	68	12.2	19.1		3.8	<b>5.4</b>	8.9	110
0635301	WBNDOC	lake	15	15	RG	54	4.2	0.8		3.6	<b>4</b>	4.7	6.7
0635301	WBNpH	stream	15010015	15	CU	1350	7.7	0.4	5.9	7.4	<b>7.7</b>	7.9	9.1
0635301	WBNpH	lake	15010015	15	CU	26	8	0.4	7	7.9	<b>8</b>	8.2	8.6
0635301	WBNTOC	stream	15010015	15	CU	141	11.8	10.1	0.1	7.8	<b>9.2</b>	13	100

## Appendix 6A

## STORET Water Quality Data

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
0635301	WBNTOC	lake	150100	15	AU	51	2.8	1.5	1.5	1.9	<b>2.4</b>	3.3	10.7
0635301	WBNTSS	stream	15010015	15	CU	344	152.4	879.1	1	22.5	<b>250</b>	719	11300
0635301	WBNTSS	lake	15010015	15	CU	344	152.4	879.1	1	22.5	<b>250</b>	719	11300
0635301	WBNWaterHardness	stream	15010015	15	CU	21	737.1	268.6	190	610	<b>770</b>	950	110
0635301	WBNWaterHardness	lake	150100	15	AU	58	291.7	211.2	22	53	<b>417</b>	490	626
0713618	WBNDOC	stream	171003	17	AU	99	2.3	1.3		1	<b>2</b>	3	9
0713618	WBNDOC	lake	1710	17	SR	23	2.5	1.5		2	<b>2</b>	3	7.2
0713618	WBNpH	stream	17100302	17	CU	5682	8.4	0.6	5.8	7.8	<b>8.4</b>	8.9	9.8
0713618	WBNpH	lake	17100302	17	CU	20	7.4	1.2	5.6	6.7	<b>7.3</b>	8.2	10
0713618	WBNTOC	stream	17100302	17	CU	1144	3.6	4.9	1	2	<b>2</b>	4	46
0713618	WBNTOC	lake	171003	17	AU	56	4.7	7.8	0.7	2	<b>2.5</b>	4	43
0713618	WBNTSS	stream	17100302	17	CU	288	49.4	187	0	2	<b>5</b>	15	148
0713618	WBNTSS	lake	17	17	RG	119	90.6	637.9	1	2	<b>7</b>	13	577
0713618	WBNWaterHardness	stream	17100302	17	CU	37	46.5	16.7	23	33	<b>43</b>	55	89
0713618	WBNWaterHardness	lake	17	17	RG	885	60.5	80.4	1	20	<b>42</b>	80	900
0713705	WBNDOC	stream	150503	15	AU	48	18.7	30.5		9.4	<b>13</b>	15.5	180
0713705	WBNDOC	lake	15	15	RG	54	4.2	0.8		3.6	<b>4</b>	4.7	6.7
0713705	WBNpH	stream	15050303	15	CU	25	8.3	0.7	7.2	7.9	<b>8.1</b>	8.8	9.7
0713705	WBNpH	lake	150503	15	AU	165	7.7	0.5	6.7	7.3	<b>7.7</b>	8	10
0713705	WBNTOC	stream	150503	15	AU	57	54.3	59.2	0.1	14	<b>27</b>	69	232
0713705	WBNTOC	lake	15	15	RG	185	6.8	6.6	1.5	3.4	<b>5</b>	7	42
0713705	WBNTSS	stream	150503	15	AU	116	799.3	1097	2	137	<b>373</b>	1110	4570
0713705	WBNTSS	lake	150503	15	AU	116	799.3	1097	2	137	<b>373</b>	1110	4570
0713705	WBNWaterHardness	stream	150503	15	AU	124	362.6	465.3	3	167	<b>217</b>	442	350
0713705	WBNWaterHardness	lake	15	15	RG	177	119.3	335.2	22	128	<b>189</b>	419	1800
0715007	WBNDOC	stream	02040203	02	CU	130	3	3.2		1.3	<b>2.3</b>	3.8	28
0715007	WBNDOC	lake	020402	02	AU	123	7.3	2.8		5	<b>7</b>	9	17
0715007	WBNpH	stream	02040203	02	CU	6141	7.3	2.1	0.7	7	<b>7.4</b>	7.8	110
0715007	WBNpH	lake	02040203	02	CU	248	8	0.9	6.4	7.3	<b>8</b>	8.6	10.2
0715007	WBNTOC	stream	02040203	02	CU	1540	4.1	4	0	2.3	<b>3.3</b>	4.6	64.5
0715007	WBNTOC	lake	020402	02	AU	312	8.9	3.9	2	6	<b>8</b>	11	33
0715007	WBNTSS	stream	02040203	02	CU	563	351	826.2	1	10	<b>62</b>	387	1060
0715007	WBNTSS	lake	02	02	RG	126	34.8	78.4	0	2	<b>3</b>	15	435
0715007	WBNWaterHardness	stream	02040203	02	CU	1666	140.7	74.8	2	96	<b>135</b>	172	708
0715007	WBNWaterHardness	lake	020402	02	AU	326	49.1	22.8	4	37	<b>46.5</b>	56	222
0715216	WBNDOC	stream	180701	18	AU	21	12.8	14.3		5.6	<b>9.6</b>	12	70
0715216	WBNDOC	lake	18	18	RG	299	3.3	4.7		1	<b>1.6</b>	3.7	47
0715216	WBNpH	stream	18070106	18	CU	1457	8.1	0.5	5.7	7.8	<b>8.1</b>	8.3	10.5
0715216	WBNpH	lake	18070106	18	CU	1330	8.4	0.8	6.1	7.9	<b>8.4</b>	8.8	12.2
0715216	WBNTOC	stream	18070106	18	CU	439	15.8	25.2	1	7.3	<b>11.5</b>	17	473
0715216	WBNTOC	lake	1807	18	SR	65	16.3	63.8	1.3	4	<b>6.4</b>	11	520
0715216	WBNTSS	stream	180701	18	AU	926	470.3	1026	1	57	<b>486</b>	331	7000
0715216	WBNTSS	lake	18	18	RG	23	28.8	58.1	1	2	<b>9</b>	18	204
0715216	WBNWaterHardness	stream	18070106	18	CU	637	256.9	133.9	13	162	<b>228</b>	344	752
0715216	WBNWaterHardness	lake	180701	18	AU	22	302.9	170.5	95	170	<b>270</b>	360	760
0716701	WBNDOC	stream	05140201	05	CU	49	5.9	3.8		3	<b>5.3</b>	6.7	20
0716701	WBNDOC	lake	0514	05	SR	30	8.6	3.8		6.2	<b>9</b>	11	16
0716701	WBNpH	stream	05140201	05	CU	3574	7.4	0.5	0	7.1	<b>7.4</b>	7.6	11.2
0716701	WBNpH	lake	05140201	05	CU	255	7.3	0.6	5.6	7.1	<b>7.2</b>	7.3	9.7
0716701	WBNTOC	stream	05140201	05	CU	100	6.7	4.3	0.9	3.8	<b>5.6</b>	7.9	26
0716701	WBNTOC	lake	05140201	05	CU	35	1.8	1.1	1	1	<b>2</b>	2	6
0716701	WBNTSS	stream	05140201	05	CU	259	66.8	141.1	0.1	9	<b>18</b>	53	101
0716701	WBNTSS	lake	05140201	05	CU	259	66.8	141.1	0.1	9	<b>18</b>	53	101
0716701	WBNWaterHardness	stream	05140201	05	CU	254	142	44	1	122	<b>136</b>	154	341
0716701	WBNWaterHardness	lake	0514	05	SR	642	159.1	70.7	49	127	<b>157</b>	175	745
0720506	WBNDOC	stream	010500	01	AU	21	13.2	10.2		6.6	<b>9.3</b>	17	45
0720506	WBNDOC	lake	01050002	01	CU	41	5.2	3.6		2.7	<b>4</b>	6.1	17.1
0720506	WBNpH	stream	01050002	01	CU	109	6	1	3.1	5.8	<b>6.3</b>	6.6	7.6

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Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
0720506	WBNpH	lake	01050002	01	CU	98	6.2	0.4	5.4	6	<b>6.2</b>	6.4	6.9
0720506	WBNTOC	stream	01050002	01	CU	20	8.6	3.2	4.4	6.2	<b>7.5</b>	11.5	14
0720506	WBNTOC	lake	01	01	RG	803	5.6	4.2	0	3.4	<b>4.6</b>	6	25.4
0720506	WBNTSS	stream	01050002	01	CU	66	6.7	6.4	1	3	<b>5</b>	9	43
0720506	WBNTSS	lake	01	01	RG	42	3.3	2.5	0.6	1	<b>3</b>	4	14
0720506	WBNWaterHardness	stream	01050002	01	CU	33	7	2.4	1	6	<b>7</b>	9	11
0720506	WBNWaterHardness	lake	01	01	RG	51	73.6	44.4	4	11	<b>94</b>	110	130
0720803	WBNDOC	stream	031002	03	AU	41	14.7	16.5		4.8	<b>9</b>	16	65
0720803	WBNDOC	lake	031002	03	AU	29	10.6	2.8		8.1	<b>10.1</b>	12.2	17
0720803	WBNpH	stream	03100201	03	CU	3509	7.8	5.2	0.3	7.3	<b>7.7</b>	8.1	270
0720803	WBNpH	lake	03100201	03	CU	69	7.8	1	6.1	7.2	<b>7.4</b>	8.7	11.3
0720803	WBNTOC	stream	031002	03	AU	6576	14.7	16.9	0	7	<b>12</b>	18.8	640
0720803	WBNTOC	lake	031002	03	AU	2416	14.2	5.9	0	10.6	<b>13.5</b>	17	58
0720803	WBNTSS	stream	031002	03	AU	386	11.2	51.9	0	2	<b>4</b>	7	698
0720803	WBNTSS	lake	031002	03	AU	47	1.8	4.2	0	1	<b>1</b>	2	29
0720803	WBNWaterHardness	stream	03100201	03	CU	159	592.5	178.4	550	500	<b>630</b>	700	900
0720803	WBNWaterHardness	lake	031002	03	AU	986	103	68.3	0	59	<b>82</b>	132	645
0721305	WBNDOC	stream	04090004	04	CU	54	3.8	2.4		1.9	<b>3.1</b>	5.9	8.6
0721305	WBNDOC	lake	04	04	RG	18570	2.5	1.8		1.9	<b>2.1</b>	2.6	36
0721305	WBNpH	stream	04090004	04	CU	6101	8	0.3	6.1	7.8	<b>8</b>	8.2	9.5
0721305	WBNpH	lake	04090004	04	CU	60	8.1	0.3	7.2	7.9	<b>8.1</b>	8.2	8.8
0721305	WBNTOC	stream	04090004	04	CU	2331	4.1	4.1	0.5	2.1	<b>2.6</b>	5	114
0721305	WBNTOC	lake	040900	04	AU	90	10.8	5.6	0	6.1	<b>10.3</b>	15	24.1
0721305	WBNTSS	stream	04090004	04	CU	171	55.4	84.6	1	10	<b>21</b>	56	474
0721305	WBNTSS	lake	04	04	RG	39	14.4	40.9	0	4	<b>6</b>	12	259
0721305	WBNWaterHardness	stream	04090004	04	CU	1650	109.5	24.9	90	102	<b>105</b>	109	355
0721305	WBNWaterHardness	lake	04	04	RG	1554	114.3	91.8	3	24	<b>100</b>	163	757
0722107	WBNDOC	stream	031001	03	AU	55	12	10.6		3.2	<b>12</b>	18	70
0722107	WBNDOC	lake	031001	03	AU	147	7.7	9.5		4.6	<b>5.3</b>	6.9	78
0722107	WBNpH	stream	03100103	03	CU	484	7.8	0.6	6.5	7.4	<b>7.8</b>	8.2	9.7
0722107	WBNpH	lake	031001	03	AU	2088	7.7	1.2	2.3	6.8	<b>7.6</b>	8.6	12.2
0722107	WBNTOC	stream	03100103	03	CU	198	39	30.6	7.4	15	<b>27.5</b>	58	142
0722107	WBNTOC	lake	031001	03	AU	56	20.6	13.1	0	11.5	<b>21.5</b>	26	81
0722107	WBNTSS	stream	031001	03	AU	219	30.4	87.6	0	4	<b>8</b>	18	655
0722107	WBNTSS	lake	0310	03	SR	47	1.8	4.2	0	1	<b>1</b>	2	29
0722107	WBNWaterHardness	stream	031001	03	AU	126	110.5	65.3	16	58	<b>97</b>	160	334
0722107	WBNWaterHardness	lake	031001	03	AU	26	81.7	41	29	39	<b>90</b>	110	170
0722503	WBNDOC	stream	10190004	10	CU	47	2.6	5.6		1	<b>1.5</b>	2.5	39
0722503	WBNDOC	lake	101900	10	AU	225	37.9	539.9		0.8	<b>1.2</b>	1.8	810
0722503	WBNpH	stream	10190004	10	CU	2528	7.6	0.6	0	7.4	<b>7.6</b>	8	10.3
0722503	WBNpH	lake	10190004	10	CU	123	7.8	0.5	6.2	7.6	<b>7.8</b>	8.1	9.2
0722503	WBNTOC	stream	10190004	10	CU	328	11.5	6.8	0.4	6.1	<b>11</b>	16	45
0722503	WBNTOC	lake	10190004	10	CU	46	4.7	2.9	0.1	4	<b>5</b>	5.6	15
0722503	WBNTSS	stream	10190004	10	CU	958	31.7	98	0	3	<b>8</b>	21	118
0722503	WBNTSS	lake	10	10	RG	30	10.8	8.6	1	4	<b>9</b>	18	33
0722503	WBNWaterHardness	stream	10190004	10	CU	471	138	85.8	24	77	<b>110</b>	202	790
0722503	WBNWaterHardness	lake	101900	10	AU	106	75.3	101.9	5	28	<b>54.5</b>	95	940
0722505	WBNDOC	stream	03090202	03	CU	146	90.5	750		15	<b>18</b>	24	900
0722505	WBNDOC	lake	03090202	03	CU	66	20	9.9		15	<b>17.1</b>	21.1	52
0722505	WBNpH	stream	03090202	03	CU	22482	7.5	1.4	0.8	7.1	<b>7.4</b>	7.8	94
0722505	WBNpH	lake	03090202	03	CU	4784	7.8	0.8	3.2	7.6	<b>8</b>	8.3	9.6
0722505	WBNTOC	stream	03090202	03	CU	5523	82.3	138.1	0	12	<b>19</b>	26	7220
0722505	WBNTOC	lake	03090202	03	CU	628	18.9	13.5	0.1	14.4	<b>17</b>	20.8	300
0722505	WBNTSS	stream	03090202	03	CU	1367	19.6	88.1	0	3	<b>6</b>	14	269
0722505	WBNTSS	lake	03	03	RG	501	123.3	208.8	0	2	<b>8</b>	168	106.2
0722505	WBNWaterHardness	stream	03090202	03	CU	238	221.4	472.7	74	140	<b>190</b>	220	730
0722505	WBNWaterHardness	lake	0309	03	SR	44	102.4	52	18	60	<b>94.5</b>	148	209
0722705	WBNDOC	stream	020501	02	AU	399	4.4	6.6		1.8	<b>2.7</b>	4.4	60

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
0722705	WBNDOC	lake	020501	02	AU	36	3.7	1.5	2.9	<b>3.6</b>	4.9	6.4	
0722705	WBNoH	stream	02050102	02	CU	1887	7.7	0.5	6.1	7.4	<b>7.7</b>	8	11
0722705	WBNoH	lake	020501	02	AU	206	7.8	0.7	5.8	7.5	<b>8.1</b>	8.4	9.4
0722705	WBNTOC	stream	020501	02	AU	3090	3.6	2.4	0	2.2	<b>3.1</b>	4.2	60
0722705	WBNTOC	lake	020501	02	AU	25	7	3.4	2.3	5.7	<b>6.5</b>	7.5	21
0722705	WBNTSS	stream	02050102	02	CU	37	29.8	54.1	2	9	<b>16</b>	29	328
0722705	WBNTSS	lake	02	02	RG	126	34.8	78.4	0	2	<b>3</b>	15	435
0722705	WBNWaterHardness	stream	02050102	02	CU	76	130.5	36.2	57	112	<b>130</b>	144	320
0722705	WBNWaterHardness	lake	02	02	RG	1006	65.3	204.9	0	33	<b>42</b>	56	380
0723607	WBNDOC	stream	120902	12	AU	29	4.6	2.8		2.8	<b>3.9</b>	5.5	13
0723607	WBNDOC	lake	12	12	RG	230	9.7	3.3		7.4	<b>9.4</b>	12	20
0723607	WBNoH	stream	12090204	12	CU	457	8	0.4	6.7	7.8	<b>8.1</b>	8.3	9
0723607	WBNoH	lake	120902	12	AU	10372	7.9	0.4	4.8	7.7	<b>7.9</b>	8.1	9.3
0723607	WBNTOC	stream	12090204	12	CU	241	3.3	3	0.9	1.4	<b>2.2</b>	4	23
0723607	WBNTOC	lake	120902	12	AU	2137	4	3.4	0.7	3	<b>3.2</b>	4	110
0723607	WBNTSS	stream	12090204	12	CU	41	37.9	68.2	3	9	<b>15</b>	27	284
0723607	WBNTSS	lake	12090204	12	CU	41	37.9	68.2	3	9	<b>15</b>	27	284
0723607	WBNWaterHardness	stream	120902	12	AU	284	213.7	106.8	41	170	<b>200</b>	250	110
0723607	WBNWaterHardness	lake	120902	12	AU	77	197.7	34.6	140	180	<b>190</b>	200	309
0724206	WBNDOC	stream	030401	03	AU	74	7.2	5.4		3.3	<b>7</b>	10	27
0724206	WBNDOC	lake	03	03	RG	2814	5.8	7.6		2	<b>3</b>	6.1	97
0724206	WBNoH	stream	03040102	03	CU	1187	6.8	0.5	5.2	6.5	<b>6.9</b>	7.1	9.8
0724206	WBNoH	lake	03040102	03	CU	98	7	0.8	1	6.8	<b>7</b>	7.4	8.6
0724206	WBNTOC	stream	030401	03	AU	138	5.7	5	0	2.7	<b>4.6</b>	7.4	37
0724206	WBNTOC	lake	0304	03	SR	153	6.8	2.8	2.9	4.6	<b>6.2</b>	8.5	16
0724206	WBNTSS	stream	03040102	03	CU	82	362.8	443.2	4	49	<b>239</b>	483	213
0724206	WBNTSS	lake	03	03	RG	501	123.3	208.8	0	2	<b>8</b>	168	106.2
0724206	WBNWaterHardness	stream	03040102	03	CU	95	28.6	12.3	10	18	<b>27</b>	38	68
0724206	WBNWaterHardness	lake	030401	03	AU	115	35.3	11.3	16	28	<b>34</b>	40	82
0724301	WBNDOC	stream	080302	08	AU	313	5	2		4.1	<b>4.8</b>	5.8	26
0724301	WBNDOC	lake	08	08	RG	119	5.1	2.7		4	<b>4.7</b>	5.5	22
0724301	WBNoH	stream	08030204	08	CU	4123	6.8	0.6	1.5	6.5	<b>6.8</b>	7	10.8
0724301	WBNoH	lake	08030204	08	CU	37	7.4	0.4	6.4	7.2	<b>7.5</b>	7.6	7.9
0724301	WBNTOC	stream	08030204	08	CU	1421	4.9	5.1	0.1	1.2	<b>2.7</b>	6.9	27
0724301	WBNTOC	lake	080302	08	AU	45	4.7	1.7	1	4	<b>4.4</b>	6	8.4
0724301	WBNTSS	stream	08030204	08	CU	758	523.3	104.3	1	24	<b>97</b>	494	953
0724301	WBNTSS	lake	08	08	RG	1582	107.9	261.7	0	20	<b>39</b>	96	421.1
0724301	WBNWaterHardness	stream	080302	08	AU	34	93.5	172.9	6	28	<b>41</b>	71	810
0724301	WBNWaterHardness	lake	08	08	RG	1080	442.3	595.2	4	70	<b>94</b>	719	364
0724804	WBNDOC	stream	02040203	02	CU	130	3	3.2		1.3	<b>2.3</b>	3.8	28
0724804	WBNDOC	lake	020402	02	AU	123	7.3	2.8		5	<b>7</b>	9	17
0724804	WBNoH	stream	02040203	02	CU	6141	7.3	2.1	0.7	7	<b>7.4</b>	7.8	110
0724804	WBNoH	lake	02040203	02	CU	248	8	0.9	6.4	7.3	<b>8</b>	8.6	10.2
0724804	WBNTOC	stream	02040203	02	CU	1540	4.1	4	0	2.3	<b>3.3</b>	4.6	64.5
0724804	WBNTOC	lake	020402	02	AU	312	8.9	3.9	2	6	<b>8</b>	11	33
0724804	WBNTSS	stream	02040203	02	CU	563	351	826.2	1	10	<b>62</b>	387	1060
0724804	WBNTSS	lake	02	02	RG	126	34.8	78.4	0	2	<b>3</b>	15	435
0724804	WBNWaterHardness	stream	02040203	02	CU	1666	140.7	74.8	2	96	<b>135</b>	172	708
0724804	WBNWaterHardness	lake	020402	02	AU	326	49.1	22.8	4	37	<b>46.5</b>	56	222
0724909	WBNDOC	stream	101101	10	AU	149	9.4	10.6		3.7	<b>5.7</b>	11	97
0724909	WBNDOC	lake	101101	10	AU	83	5	0		5	<b>5</b>	5	5
0724909	WBNoH	stream	10110102	10	CU	78	8.2	1	0	8.1	<b>8.3</b>	8.5	8.9
0724909	WBNoH	lake	101101	10	AU	5311	8.2	0.5	0	8.1	<b>8.2</b>	8.4	9.9
0724909	WBNTOC	stream	101101	10	AU	88	9.2	7.7	1.9	4	<b>5.7</b>	13	38
0724909	WBNTOC	lake	101101	10	AU	91	4.8	0.7	0	5	<b>5</b>	5	5
0724909	WBNTSS	stream	101101	10	AU	268	238.2	836.4	4	54	<b>96</b>	156	1130
0724909	WBNTSS	lake	10	10	RG	30	10.8	8.6	1	4	<b>9</b>	18	33
0724909	WBNWaterHardness	stream	101101	10	AU	83	280	142.2	33	180	<b>260</b>	380	750

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
0724909	WBNWaterHardness	lake	101101	10	AU	50	393.9	215.1	41	225	<b>342</b>	532	857
0730407	WBNDOC	stream	050200	05	AU	314	2.5	1.8	1.3	<b>2.1</b>	3.1	13.4	
0730407	WBNDOC	lake	05	05	RG	575	4	3	2.1	<b>3.2</b>	4.7	19	
0730407	WBNpH	stream	05020001	05	CU	4380	6.4	1.2	0.9	6.1	<b>6.8</b>	7.2	9.6
0730407	WBNpH	lake	05020001	05	CU	2969	6.4	0.4	3.4	6.2	<b>6.4</b>	6.7	9.6
0730407	WBNTOC	stream	05020001	05	CU	384	4.9	3	0.9	3	<b>4</b>	6	21
0730407	WBNTOC	lake	05	05	RG	10552	4	4	0	2	<b>3</b>	5	162
0730407	WBNTSS	stream	05020001	05	CU	936	184.5	482.2	0	21	<b>52</b>	159	763
0730407	WBNTSS	lake	05020001	05	CU	936	184.5	482.2	0	21	<b>52</b>	159	763
0730407	WBNWaterHardness	stream	05020001	05	CU	951	142.6	200.9	0	40	<b>62</b>	163	309.4
0730407	WBNWaterHardness	lake	05020001	05	CU	709	47.8	19.9	18	33	<b>44</b>	58	159
0730502	WBNDOC	stream	05120111	05	CU	147	5.5	2.9		3.5	<b>5</b>	6.7	20
0730502	WBNDOC	lake	05	05	RG	575	4	3		2.1	<b>3.2</b>	4.7	19
0730502	WBNpH	stream	05120111	05	CU	7469	7.7	0.7	2.1	7.6	<b>7.8</b>	8.1	10.3
0730502	WBNpH	lake	05120111	05	CU	418	8	0.6	6.4	7.6	<b>8.1</b>	8.5	9.6
0730502	WBNTOC	stream	05120111	05	CU	607	11.8	58.8	0.3	4.6	<b>6</b>	8.5	940
0730502	WBNTOC	lake	05120111	05	CU	49	5.7	2.4	2	4	<b>5</b>	6	12
0730502	WBNTSS	stream	05120111	05	CU	212	197.5	386.6	0	27	<b>88</b>	201	384
0730502	WBNTSS	lake	05120111	05	CU	212	197.5	386.6	0	27	<b>88</b>	201	384
0730502	WBNWaterHardness	stream	05120111	05	CU	587	288.8	105.7	34	250	<b>290</b>	315	150
0730502	WBNWaterHardness	lake	051201	05	AU	309	212.4	66.2	97	168	<b>201</b>	249	563
0730914	WBNDOC	stream	12090301	12	CU	27	4.3	1.8		3.1	<b>3.7</b>	5.3	9
0730914	WBNDOC	lake	12	12	RG	230	9.7	3.3		7.4	<b>9.4</b>	12	20
0730914	WBNpH	stream	12090301	12	CU	724	7.9	0.4	6.1	7.7	<b>8</b>	8.2	9.2
0730914	WBNpH	lake	12090301	12	CU	56	8.3	0.4	7.3	7.9	<b>8.2</b>	8.7	8.8
0730914	WBNTOC	stream	12090301	12	CU	386	7	7.1	0.1	3	<b>4</b>	8.1	65
0730914	WBNTOC	lake	1209	12	SR	2476	4.3	3.5	0.7	3	<b>3.5</b>	4.2	110
0730914	WBNTSS	stream	12090301	12	CU	63	735.7	541.1	6	268	<b>686</b>	107	268
0730914	WBNTSS	lake	12090301	12	CU	63	735.7	541.1	6	268	<b>686</b>	107	268
0730914	WBNWaterHardness	stream	12090301	12	CU	22	208.5	39	84	190	<b>200</b>	237	284
0730914	WBNWaterHardness	lake	1209	12	SR	151	230.6	59.2	140	180	<b>210</b>	260	440
0731111	WBNDOC	stream	02050105	02	CU	288	5.1	7.6		2	<b>3.1</b>	5.1	60
0731111	WBNDOC	lake	020501	02	AU	36	3.7	1.5		2.9	<b>3.6</b>	4.9	6.4
0731111	WBNpH	stream	02050105	02	CU	4395	7.9	0.6	5.5	7.5	<b>7.8</b>	8.2	9.8
0731111	WBNpH	lake	020501	02	AU	206	7.8	0.7	5.8	7.5	<b>8.1</b>	8.4	9.4
0731111	WBNTOC	stream	02050105	02	CU	255	4	2.6	0	2.6	<b>3.3</b>	4.6	16
0731111	WBNTOC	lake	020501	02	AU	25	7	3.4	2.3	5.7	<b>6.5</b>	7.5	21
0731111	WBNTSS	stream	02050105	02	CU	408	155.9	473.6	0	3	<b>7</b>	64	385
0731111	WBNTSS	lake	02	02	RG	126	34.8	78.4	0	2	<b>3</b>	15	435
0731111	WBNWaterHardness	stream	02050105	02	CU	141	121.4	36.8	54	96	<b>120</b>	143	268
0731111	WBNWaterHardness	lake	02	02	RG	1006	65.3	204.9	0	33	<b>42</b>	56	380
0731405	WBNDOC	stream	02050306	02	CU	2275	7.2	6.6		3	<b>5.4</b>	9.1	104
0731405	WBNDOC	lake	0205	02	SR	37	3.7	1.5		2.9	<b>3.6</b>	4.7	6.4
0731405	WBNpH	stream	02050306	02	CU	7361	7.6	1	0	7.3	<b>7.6</b>	7.9	72
0731405	WBNpH	lake	02050306	02	CU	132	7.2	0.5	6.3	6.8	<b>7.1</b>	7.5	9
0731405	WBNTOC	stream	02050306	02	CU	3642	6.7	6.3	0	2.9	<b>4.6</b>	8.2	64
0731405	WBNTOC	lake	020503	02	AU	65	4.9	3.1	1.4	2.9	<b>4</b>	5.6	16.4
0731405	WBNTSS	stream	02050306	02	CU	11772	121.7	365.2	0	38	<b>173</b>	843	7390
0731405	WBNTSS	lake	02	02	RG	126	34.8	78.4	0	2	<b>3</b>	15	435
0731405	WBNWaterHardness	stream	02050306	02	CU	1227	134	72.7	14	70	<b>126</b>	196	693
0731405	WBNWaterHardness	lake	02	02	RG	1006	65.3	204.9	0	33	<b>42</b>	56	380
0731411	WBNDOC	stream	18040001	18	CU	60	19	28.5		5.6	<b>10</b>	17.5	150
0731411	WBNDOC	lake	180400	18	AU	39	2	2		0.6	<b>1.5</b>	2.5	10
0731411	WBNpH	stream	18040001	18	CU	5051	7.6	0.5	2.9	7.2	<b>7.5</b>	7.9	10.1
0731411	WBNpH	lake	18040001	18	CU	593	7.9	0.5	2.4	7.5	<b>7.8</b>	8.3	9.6
0731411	WBNTOC	stream	18040001	18	CU	726	10.6	57.8	0.9	3.9	<b>6.2</b>	9.1	904
0731411	WBNTOC	lake	180400	18	AU	41	3.7	0.9	1.1	3.1	<b>3.6</b>	4.4	5.4
0731411	WBNTSS	stream	18040001	18	CU	347	420.3	282.4	0	27	<b>75</b>	163	3890

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
0731411	WBNTSS	lake	18	18	RG	23	28.8	58.1	1	2	<b>9</b>	18	204
0731411	WBNWaterHardness	stream	18040001	18	CU	764	984.5	796	5	172	<b>803</b>	170	306
0731411	WBNWaterHardness	lake	18040001	18	CU	189	93.5	27.5	39	73	<b>94</b>	111	184
0731412	WBNDOC	stream	01070002	01	CU	58	18.8	91.6		4.2	<b>5.7</b>	7.2	703
0731412	WBNDOC	lake	01070002	01	CU	24	4.8	2.2		3.5	<b>4.3</b>	5.4	9.5
0731412	WBNpH	stream	01070002	01	CU	10333	6.3	1.9	0	6	<b>6.3</b>	6.6	180
0731412	WBNpH	lake	01070002	01	CU	714	6.7	0.5	4.6	6.3	<b>6.7</b>	7	8.8
0731412	WBNTOC	stream	01070002	01	CU	216	6.6	3.5	1	4.3	<b>5.8</b>	7.8	24
0731412	WBNTOC	lake	01070002	01	CU	34	4.4	1.9	3.6	3.7	<b>4</b>	4.3	15
0731412	WBNTSS	stream	01070002	01	CU	233	13.1	29.9	0	4	<b>6</b>	11	330
0731412	WBNTSS	lake	01	01	RG	42	3.3	2.5	0.6	1	<b>3</b>	4	14
0731412	WBNWaterHardness	stream	01070002	01	CU	108	18.3	15.9	1	11.5	<b>16</b>	20	152
0731412	WBNWaterHardness	lake	01	01	RG	51	73.6	44.4	4	11	<b>94</b>	110	130
0731501	WBNDOC	stream	02030104	02	CU	91	3.9	1.7		2.8	<b>3.6</b>	4.7	9.3
0731501	WBNDOC	lake	020301	02	AU	159	3.3	1.1		2.6	<b>3.1</b>	3.9	11.7
0731501	WBNpH	stream	02030104	02	CU	7563	7.5	0.5	0	7.3	<b>7.5</b>	7.7	9.3
0731501	WBNpH	lake	02030104	02	CU	468	8.1	3.7	2.4	7.4	<b>8</b>	8.5	85
0731501	WBNTOC	stream	02030104	02	CU	623	5.4	3.1	0	3.4	<b>4.8</b>	7	32
0731501	WBNTOC	lake	02030104	02	CU	21	4.4	4.5	2.2	3	<b>3.4</b>	3.8	23.6
0731501	WBNTSS	stream	02030104	02	CU	185	27.4	66.8	0	5	<b>8</b>	17	699
0731501	WBNTSS	lake	020301	02	AU	31	122.6	120.5	6	17	<b>94</b>	190	435
0731501	WBNWaterHardness	stream	02030104	02	CU	121	342.1	102.2	28	42	<b>82</b>	150	520
0731501	WBNWaterHardness	lake	020301	02	AU	255	36	11.7	0	32	<b>34</b>	37	150
0731507	WBNDOC	stream	03040204	03	CU	198	5.8	5.9		2.3	<b>3.1</b>	6.6	27
0731507	WBNDOC	lake	03	03	RG	2814	5.8	7.6		2	<b>3</b>	6.1	97
0731507	WBNpH	stream	03040204	03	CU	3860	6.1	1.4	0	5.7	<b>6.1</b>	6.5	60
0731507	WBNpH	lake	03040204	03	CU	30	5.3	0.6	4	4.8	<b>5.5</b>	5.7	5.9
0731507	WBNTOC	stream	03040204	03	CU	355	13.6	8.3	0.9	8.5	<b>11.4</b>	16.5	65
0731507	WBNTOC	lake	030402	03	AU	153	6.8	2.8	2.9	4.6	<b>6.2</b>	8.5	16
0731507	WBNTSS	stream	030402	03	AU	976	12.3	13.3	0	4	<b>7</b>	16	147
0731507	WBNTSS	lake	03	03	RG	501	123.3	208.8	0	2	<b>8</b>	168	106.2
0731507	WBNWaterHardness	stream	03040204	03	CU	92	20.6	18.4	4	9	<b>14.5</b>	27	140
0731507	WBNWaterHardness	lake	030402	03	AU	33	19.5	10.8	4	12	<b>20</b>	23	60
0731514	WBNDOC	stream	07120004	07	CU	277	6.9	3.1		5.3	<b>6.4</b>	7.9	33
0731514	WBNDOC	lake	07	07	RG	649	6.8	4.5		4.1	<b>5.8</b>	8.2	50
0731514	WBNpH	stream	07120004	07	CU	16248	7.8	0.5	0	7.4	<b>7.8</b>	8.1	12
0731514	WBNpH	lake	07120004	07	CU	648	8.1	0.6	5.8	7.6	<b>8.1</b>	8.5	9.9
0731514	WBNTOC	stream	07120004	07	CU	699	9.5	8.3	0	6.4	<b>8.2</b>	10	90
0731514	WBNTOC	lake	07120004	07	CU	21	7.2	2.9	2.2	6.1	<b>7</b>	10	12
0731514	WBNTSS	stream	07120004	07	CU	826	70.6	173.4	0	11	<b>17</b>	48	181.7
0731514	WBNTSS	lake	071200	07	AU	91	66	90.2	3	13	<b>30</b>	71	449
0731514	WBNWaterHardness	stream	07120004	07	CU	1096	325.5	105.7	0	258	<b>338</b>	400	758
0731514	WBNWaterHardness	lake	071200	07	AU	37	239.3	52.5	152	220	<b>230</b>	250	408
0731703	WBNDOC	stream	02040203	02	CU	130	3	3.2		1.3	<b>2.3</b>	3.8	28
0731703	WBNDOC	lake	020402	02	AU	123	7.3	2.8		5	<b>7</b>	9	17
0731703	WBNpH	stream	02040203	02	CU	6141	7.3	2.1	0.7	7	<b>7.4</b>	7.8	110
0731703	WBNpH	lake	02040203	02	CU	248	8	0.9	6.4	7.3	<b>8</b>	8.6	10.2
0731703	WBNTOC	stream	02040203	02	CU	1540	4.1	4	0	2.3	<b>3.3</b>	4.6	64.5
0731703	WBNTOC	lake	020402	02	AU	312	8.9	3.9	2	6	<b>8</b>	11	33
0731703	WBNTSS	stream	02040203	02	CU	563	351	826.2	1	10	<b>62</b>	387	1060
0731703	WBNTSS	lake	02	02	RG	126	34.8	78.4	0	2	<b>3</b>	15	435
0731703	WBNWaterHardness	stream	02040203	02	CU	1666	140.7	74.8	2	96	<b>135</b>	172	708
0731703	WBNWaterHardness	lake	020402	02	AU	326	49.1	22.8	4	37	<b>46.5</b>	56	222
0732110	WBNDOC	stream	02050107	02	CU	50	2.1	1.5		1.1	<b>1.5</b>	2.9	8.6
0732110	WBNDOC	lake	020501	02	AU	36	3.7	1.5		2.9	<b>3.6</b>	4.9	6.4
0732110	WBNpH	stream	02050107	02	CU	3827	7.1	16.1	0	6.5	<b>7.1</b>	7.5	100
0732110	WBNpH	lake	02050107	02	CU	49	7.4	1	5.8	6.5	<b>7.2</b>	8.5	9.4
0732110	WBNTOC	stream	02050107	02	CU	1138	3.8	2.2	0	2.4	<b>3.2</b>	4.6	20

## Appendix 6A

## STORET Water Quality Data

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
0732110	WBNTOC	lake	020501	02	AU	25	7	3.4	2.3	5.7	<b>6.5</b>	7.5	21
0732110	WBNTSS	stream	02050107	02	CU	540	80.2	228.1	0	11	<b>20</b>	53	353
0732110	WBNTSS	lake	02	02	RG	126	34.8	78.4	0	2	<b>3</b>	15	435
0732110	WBNWaterHardness	stream	02050107	02	CU	1123	75	73.8	10	35	<b>59</b>	94	124.3
0732110	WBNWaterHardness	lake	02	02	RG	1006	65.3	204.9	0	33	<b>42</b>	56	380
0732405	WBNDOC	stream	18040002	18	CU	316	12.1	49.4		3.9	<b>5.4</b>	9	800
0732405	WBNDOC	lake	180400	18	AU	39	2	2		0.6	<b>1.5</b>	2.5	10
0732405	WBNpH	stream	18040002	18	CU	3877	7.6	0.5	0	7.3	<b>7.6</b>	8	9.6
0732405	WBNpH	lake	180400	18	AU	2127	7.8	0.6	2.4	7.4	<b>7.7</b>	8.1	10.9
0732405	WBNTOC	stream	18040002	18	CU	293	5.3	6.9	0	2.4	<b>3.5</b>	6.2	79
0732405	WBNTOC	lake	180400	18	AU	41	3.7	0.9	1.1	3.1	<b>3.6</b>	4.4	5.4
0732405	WBNTSS	stream	18040002	18	CU	633	246.6	828.8	0	18	<b>38</b>	119	1055
0732405	WBNTSS	lake	18	18	RG	23	28.8	58.1	1	2	<b>9</b>	18	204
0732405	WBNWaterHardness	stream	18040002	18	CU	113	135	111.3	14	47	<b>80</b>	211	426
0732405	WBNWaterHardness	lake	180400	18	AU	579	79.6	34.7	1	56	<b>77</b>	104	219
0732510	WBNDOC	stream	07120004	07	CU	277	6.9	3.1		5.3	<b>6.4</b>	7.9	33
0732510	WBNDOC	lake	07	07	RG	649	6.8	4.5		4.1	<b>5.8</b>	8.2	50
0732510	WBNpH	stream	07120004	07	CU	16248	7.8	0.5	0	7.4	<b>7.8</b>	8.1	12
0732510	WBNpH	lake	07120004	07	CU	648	8.1	0.6	5.8	7.6	<b>8.1</b>	8.5	9.9
0732510	WBNTOC	stream	07120004	07	CU	699	9.5	8.3	0	6.4	<b>8.2</b>	10	90
0732510	WBNTOC	lake	07120004	07	CU	21	7.2	2.9	2.2	6.1	<b>7</b>	10	12
0732510	WBNTSS	stream	07120004	07	CU	826	70.6	173.4	0	11	<b>17</b>	48	181.7
0732510	WBNTSS	lake	071200	07	AU	91	66	90.2	3	13	<b>30</b>	71	449
0732510	WBNWaterHardness	stream	07120004	07	CU	1096	325.5	105.7	0	258	<b>338</b>	400	758
0732510	WBNWaterHardness	lake	071200	07	AU	37	239.3	52.5	152	220	<b>230</b>	250	408
0733203	WBNDOC	stream	18040003	18	CU	108	14.1	21.5		4.1	<b>6.6</b>	13	110
0733203	WBNDOC	lake	180400	18	AU	39	2	2		0.6	<b>1.5</b>	2.5	10
0733203	WBNpH	stream	18040003	18	CU	16257	7.7	0.6	0	7.4	<b>7.6</b>	7.9	73
0733203	WBNpH	lake	18040003	18	CU	885	7.8	0.5	6.6	7.4	<b>7.7</b>	8.1	9.7
0733203	WBNTOC	stream	18040003	18	CU	142	6.2	4.8	1.4	4.1	<b>5.2</b>	6.1	38
0733203	WBNTOC	lake	18040003	18	CU	33	3.8	0.8	2.6	3.2	<b>3.8</b>	4.7	5.4
0733203	WBNTSS	stream	18040003	18	CU	3819	93	61.6	0	57	<b>79</b>	111	990
0733203	WBNTSS	lake	18	18	RG	23	28.8	58.1	1	2	<b>9</b>	18	204
0733203	WBNWaterHardness	stream	18040003	18	CU	289	121.4	75.1	36	67	<b>103</b>	156	451
0733203	WBNWaterHardness	lake	18040003	18	CU	306	83.6	30.5	28	64	<b>78</b>	102	219
0733210	WBNDOC	stream	05030101	05	CU	119	5	7.2		1.8	<b>3.6</b>	6	72
0733210	WBNDOC	lake	05	05	RG	575	4	3		2.1	<b>3.2</b>	4.7	19
0733210	WBNpH	stream	05030101	05	CU	34253	7.1	10.6	0.7	6.6	<b>6.9</b>	7.2	890
0733210	WBNpH	lake	05030101	05	CU	41	8	0.8	6.5	7.5	<b>8.1</b>	8.5	9.8
0733210	WBNTOC	stream	05030101	05	CU	1151	10.2	41.8	0	2.3	<b>3.2</b>	5.3	855
0733210	WBNTOC	lake	050301	05	AU	48	5.6	2.8	0	3.9	<b>5.9</b>	7	15
0733210	WBNTSS	stream	05030101	05	CU	348	155.6	428.5	0	8	<b>25</b>	80.5	477
0733210	WBNTSS	lake	05030101	05	CU	348	155.6	428.5	0	8	<b>25</b>	80.5	477
0733210	WBNWaterHardness	stream	05030101	05	CU	2075	292.1	320	5	124	<b>190</b>	336	482
0733210	WBNWaterHardness	lake	050301	05	AU	1963	118.3	59	0.1	83	<b>99</b>	145	102
0733302	WBNDOC	stream	05100205	05	CU	160	4.1	4.1		2.6	<b>3.3</b>	4.3	44
0733302	WBNDOC	lake	05	05	RG	575	4	3		2.1	<b>3.2</b>	4.7	19
0733302	WBNpH	stream	05100205	05	CU	1832	7.6	0.4	4.2	7.4	<b>7.6</b>	7.9	9.5
0733302	WBNpH	lake	05100205	05	CU	3263	7.5	0.6	2.3	7.1	<b>7.5</b>	7.8	9.7
0733302	WBNTOC	stream	05100205	05	CU	1040	4.9	4.7	0.1	2.5	<b>3.8</b>	5.9	55.9
0733302	WBNTOC	lake	05100205	05	CU	134	4	3.2	1	2	<b>3</b>	4	26
0733302	WBNTSS	stream	05100205	05	CU	397	118.3	241.7	0	10	<b>25</b>	100	259
0733302	WBNTSS	lake	05100205	05	CU	397	118.3	241.7	0	10	<b>25</b>	100	259
0733302	WBNWaterHardness	stream	05100205	05	CU	665	163.4	55.5	41	125	<b>155</b>	197	461
0733302	WBNWaterHardness	lake	05100205	05	CU	104	225	105.1	52	180	<b>222</b>	247	672
0733404	WBNDOC	stream	02050202	02	CU	22	1.9	1.7		0.8	<b>1.2</b>	2.4	7.1
0733404	WBNDOC	lake	0205	02	SR	37	3.7	1.5		2.9	<b>3.6</b>	4.7	6.4
0733404	WBNpH	stream	02050202	02	CU	1700	6.1	1.3	3	5.1	<b>6.4</b>	7	12.3

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
0733404	WBNoH	lake	020502	02	AU	113	7.6	0.9	5.6	7	<b>7.5</b>	8.2	9.2
0733404	WBNTOC	stream	02050202	02	CU	375	1.3	0.5	1	1	<b>1.1</b>	1.5	3.8
0733404	WBNTOC	lake	020502	02	AU	37	4.9	2.2	1.9	2.7	<b>4.8</b>	6.3	9.4
0733404	WBNTSS	stream	02050202	02	CU	367	15.3	28.1	1	2	<b>6</b>	13	209
0733404	WBNTSS	lake	02	02	RG	126	34.8	78.4	0	2	<b>3</b>	15	435
0733404	WBNWaterHardness	stream	02050202	02	CU	408	52.8	153.9	5	19	<b>25</b>	42	260
0733404	WBNWaterHardness	lake	02	02	RG	1006	65.3	204.9	0	33	<b>42</b>	56	380
0733501	WBNDoc	stream	06010105	06	CU	249	2.2	2.8		0.8	<b>1.4</b>	2.6	20
0733501	WBNDoc	lake	0601	06	SR	28	2.3	2.6		1.2	<b>1.5</b>	2.6	14.9
0733501	WBNoH	stream	06010105	06	CU	5450	6.7	0.7	1.4	6.4	<b>6.8</b>	7.2	10.7
0733501	WBNoH	lake	06010105	06	CU	401	6.9	0.6	5.3	6.5	<b>6.8</b>	7.3	9.1
0733501	WBNTOC	stream	06010105	06	CU	445	5.6	7.2	0.2	2	<b>3.9</b>	8.2	87
0733501	WBNTOC	lake	06	06	RG	66	4.2	4.6	1	1.9	<b>2.8</b>	4.6	33
0733501	WBNTSS	stream	06010105	06	CU	579	279.6	737.4	0	5	<b>28</b>	237	1080
0733501	WBNTSS	lake	06010105	06	CU	579	279.6	737.4	0	5	<b>28</b>	237	1080
0733501	WBNWaterHardness	stream	06010105	06	CU	425	13.2	9.8	0.4	6	<b>10</b>	18	67
0733501	WBNWaterHardness	lake	0601	06	SR	53	9	4.4	1	6	<b>8</b>	12	18
0733606	WBNDoc	stream	02040203	02	CU	130	3	3.2		1.3	<b>2.3</b>	3.8	28
0733606	WBNDoc	lake	020402	02	AU	123	7.3	2.8		5	<b>7</b>	9	17
0733606	WBNoH	stream	02040203	02	CU	6141	7.3	2.1	0.7	7	<b>7.4</b>	7.8	110
0733606	WBNoH	lake	02040203	02	CU	248	8	0.9	6.4	7.3	<b>8</b>	8.6	10.2
0733606	WBNTOC	stream	02040203	02	CU	1540	4.1	4	0	2.3	<b>3.3</b>	4.6	64.5
0733606	WBNTOC	lake	020402	02	AU	312	8.9	3.9	2	6	<b>8</b>	11	33
0733606	WBNTSS	stream	02040203	02	CU	563	351	826.2	1	10	<b>62</b>	387	1060
0733606	WBNTSS	lake	02	02	RG	126	34.8	78.4	0	2	<b>3</b>	15	435
0733606	WBNWaterHardness	stream	02040203	02	CU	1666	140.7	74.8	2	96	<b>135</b>	172	708
0733606	WBNWaterHardness	lake	020402	02	AU	326	49.1	22.8	4	37	<b>46.5</b>	56	222
0734604	WBNDoc	stream	02040302	02	CU	256	9.1	6.6		4.7	<b>6.8</b>	12	45
0734604	WBNDoc	lake	0204	02	SR	216	6.2	3.2		4	<b>5.7</b>	8	20
0734604	WBNoH	stream	02040302	02	CU	1503	5.7	1	0	5	<b>5.8</b>	6.4	8.7
0734604	WBNoH	lake	02040302	02	CU	75	6.3	0.7	5	5.9	<b>6.2</b>	6.7	9.2
0734604	WBNTOC	stream	02040302	02	CU	999	9.2	6.2	0	5.3	<b>7.8</b>	11	71.9
0734604	WBNTOC	lake	0204	02	SR	454	7.6	4.1	0	4.5	<b>7</b>	9.6	33
0734604	WBNTSS	stream	02040302	02	CU	1319	38.4	147.3	0	7	<b>16</b>	29	324
0734604	WBNTSS	lake	02	02	RG	126	34.8	78.4	0	2	<b>3</b>	15	435
0734604	WBNWaterHardness	stream	02040302	02	CU	51	14	6.2	4	9	<b>14</b>	18	27
0734604	WBNWaterHardness	lake	0204	02	SR	416	50	20.3	4	39.5	<b>50</b>	56	222
0735309	WBNDoc	stream	110701	11	AU	35	10.1	11.1		5	<b>6.4</b>	11	62
0735309	WBNDoc	lake	110701	11	AU	41	4.8	0.6		4.3	<b>4.8</b>	5.2	6.4
0735309	WBNoH	stream	11070103	11	CU	1438	8.2	5.2	5.6	7.6	<b>7.8</b>	8.1	82
0735309	WBNoH	lake	11070103	11	CU	986	7.7	0.4	2.8	7.4	<b>7.7</b>	8	8.8
0735309	WBNTOC	stream	11070103	11	CU	123	7.1	4	0.9	5	<b>5</b>	7.8	20
0735309	WBNTOC	lake	11070103	11	CU	87	13.3	11.8	4	5	<b>6.5</b>	24	38
0735309	WBNTSS	stream	11070103	11	CU	807	316	418.5	10	60	<b>150</b>	390	318
0735309	WBNTSS	lake	110701	11	AU	1392	82.9	76.6	10	40	<b>70</b>	100	121
0735309	WBNWaterHardness	stream	11070103	11	CU	287	174.5	46.8	61	139	<b>175</b>	210	308
0735309	WBNWaterHardness	lake	11070103	11	CU	51	136.4	27.2	85	126	<b>139</b>	148	200
0826707	WBNDoc	stream	03040101	03	CU	41	5.9	5.1		2.1	<b>5</b>	8	26
0826707	WBNDoc	lake	03	03	RG	2814	5.8	7.6		2	<b>3</b>	6.1	97
0826707	WBNoH	stream	03040101	03	CU	5220	6.8	0.5	1.2	6.5	<b>6.8</b>	7.1	11.7
0826707	WBNoH	lake	03040101	03	CU	1399	6.8	0.6	5.5	6.3	<b>6.6</b>	7.1	10.3
0826707	WBNTOC	stream	03040101	03	CU	31	8.6	7.5	1.5	3.4	<b>7</b>	10	37
0826707	WBNTOC	lake	0304	03	SR	153	6.8	2.8	2.9	4.6	<b>6.2</b>	8.5	16
0826707	WBNTSS	stream	03040101	03	CU	667	343.8	551.1	0	18	<b>80</b>	502	397
0826707	WBNTSS	lake	03	03	RG	501	123.3	208.8	0	2	<b>8</b>	168	106.2
0826707	WBNWaterHardness	stream	03040101	03	CU	370	26.5	93.8	6	12	<b>16</b>	22	180
0826707	WBNWaterHardness	lake	030401	03	AU	115	35.3	11.3	16	28	<b>34</b>	40	82
0830601	WBNDoc	stream	031501	03	AU	169	1.5	1.1		0.7	<b>1.2</b>	2	7.3

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
0830601	WBNDOC	lake	031501	03	AU	443	2.2	0.8	2	<b>2</b>	2.1	9.1	
0830601	WBNpH	stream	03150107	03	CU	4826	7.3	0.5	2.7	7	<b>7.3</b>	7.5	9.4
0830601	WBNpH	lake	03150107	03	CU	78	7.2	0.3	6.6	7.1	<b>7.2</b>	7.3	8.6
0830601	WBNTOC	stream	03150107	03	CU	113	7.7	6.4	0.6	3	<b>6</b>	9.5	34
0830601	WBNTOC	lake	031501	03	AU	715	2.8	2	0.4	2	<b>2</b>	3	28
0830601	WBNTSS	stream	031501	03	AU	2160	105.3	189	1	15	<b>41</b>	113	287
0830601	WBNTSS	lake	03	03	RG	501	123.3	208.8	0	2	<b>8</b>	168	106.2
0830601	WBNWaterHardness	stream	03150107	03	CU	196	83.6	45.5	3	58	<b>77</b>	104	475
0830601	WBNWaterHardness	lake	03	03	RG	5668	52	69.3	0	14	<b>24</b>	67	106
0830903	WBNDOC	stream	041503	04	AU	52	7.3	7.1		2.6	<b>4.4</b>	10.2	36
0830903	WBNDOC	lake	041503	04	AU	59	4.5	2.5		2.7	<b>3.9</b>	5.3	15.1
0830903	WBNpH	stream	04150302	04	CU	539	8.3	18.1	5.5	6.9	<b>7.1</b>	7.5	314
0830903	WBNpH	lake	041503	04	AU	262	7.5	0.8	5.4	7	<b>7.6</b>	8.2	8.8
0830903	WBNTOC	stream	04150302	04	CU	39	6.4	2.6	1	4.7	<b>6</b>	7	13
0830903	WBNTOC	lake	041503	04	AU	77	2.7	1.9	0.1	1.3	<b>2.3</b>	3.6	7.6
0830903	WBNTSS	stream	04150302	04	CU	65	4.7	4.8	0	1	<b>3</b>	6	27
0830903	WBNTSS	lake	04	04	RG	39	14.4	40.9	0	4	<b>6</b>	12	259
0830903	WBNWaterHardness	stream	04150302	04	CU	47	56.9	102.2	22	36	<b>42</b>	50	740
0830903	WBNWaterHardness	lake	04	04	RG	1554	114.3	91.8	3	24	<b>100</b>	163	757
0831102	WBNDOC	stream	01	01	RG	1496	8.2	35.7		2.8	<b>4.2</b>	6.6	703
0831102	WBNDOC	lake	01030003	01	CU	26	5.1	2		3.8	<b>4.5</b>	5.4	10.8
0831102	WBNpH	stream	01030003	01	CU	837	6.8	0.3	4.1	6.7	<b>6.8</b>	7	8.1
0831102	WBNpH	lake	01030003	01	CU	88	7	0.7	6	6.5	<b>7</b>	7.2	8.9
0831102	WBNTOC	stream	01030003	01	CU	44	6.9	1.3	4.4	5.7	<b>6.8</b>	7.6	9.8
0831102	WBNTOC	lake	01	01	RG	803	5.6	4.2	0	3.4	<b>4.6</b>	6	25.4
0831102	WBNTSS	stream	01030003	01	CU	1169	22.7	46	0	5	<b>10</b>	21	595
0831102	WBNTSS	lake	01	01	RG	42	3.3	2.5	0.6	1	<b>3</b>	4	14
0831102	WBNWaterHardness	stream	01030003	01	CU	56	21.9	8.9	10	16.5	<b>19</b>	23.5	53
0831102	WBNWaterHardness	lake	01	01	RG	51	73.6	44.4	4	11	<b>94</b>	110	130
0831406	WBNDOC	stream	031602	03	AU	33	5.3	2.4		3.7	<b>4.8</b>	6.4	12
0831406	WBNDOC	lake	03	03	RG	2814	5.8	7.6		2	<b>3</b>	6.1	97
0831406	WBNpH	stream	03160201	03	CU	87144	7.2	0.5	0.8	7	<b>7.3</b>	7.6	11.9
0831406	WBNpH	lake	0316	03	SR	2258	7.1	0.8	4.5	6.7	<b>7.1</b>	7.5	10.8
0831406	WBNTOC	stream	03160201	03	CU	26	7.2	3.5	2	5.6	<b>6.5</b>	8.2	17
0831406	WBNTOC	lake	03	03	RG	18281	11	9	0	4.5	<b>9</b>	15	300
0831406	WBNTSS	stream	03160201	03	CU	106	50.7	49.1	2	19	<b>35</b>	60	210
0831406	WBNTSS	lake	0316	03	SR	190	315.9	234.8	5	131	<b>246</b>	410	106.2
0831406	WBNWaterHardness	stream	03160201	03	CU	129	62.6	15.6	12	53	<b>62</b>	72	101
0831406	WBNWaterHardness	lake	0316	03	SR	76	70.3	39.5	36	48	<b>54</b>	62	216
0831904	WBNDOC	stream	031102	03	AU	113	20.9	17.3		9	<b>17</b>	30	80
0831904	WBNDOC	lake	031102	03	AU	24	21.8	12.7		10	<b>22</b>	34.6	38.4
0831904	WBNpH	stream	03110203	03	CU	3735	6.7	0.7	0	6.3	<b>6.8</b>	7.2	8.6
0831904	WBNpH	lake	031102	03	AU	878	6.7	1.3	3.7	5.9	<b>6.3</b>	7.3	10.4
0831904	WBNTOC	stream	03110203	03	CU	3498	13.8	8.3	1	8.8	<b>13</b>	17.6	185
0831904	WBNTOC	lake	031102	03	AU	678	12.2	5.4	3.5	8.6	<b>11</b>	15	50
0831904	WBNTSS	stream	031102	03	AU	1101	10.1	20.6	0	4	<b>6</b>	10	407
0831904	WBNTSS	lake	03	03	RG	501	123.3	208.8	0	2	<b>8</b>	168	106.2
0831904	WBNWaterHardness	stream	03110203	03	CU	84	80.2	119.2	18	28	<b>40</b>	74	920
0831904	WBNWaterHardness	lake	031102	03	AU	25	26.1	17.3	7	14	<b>22</b>	32	73
0832304	WBNDOC	stream	04030204	04	CU	708	11.5	57.5		7.3	<b>8.3</b>	9.1	140
0832304	WBNDOC	lake	040302	04	AU	52	7.2	1.9		6.1	<b>7.3</b>	8.3	13
0832304	WBNpH	stream	04030204	04	CU	1675	8.3	0.6	5.4	7.9	<b>8.3</b>	8.6	13.6
0832304	WBNpH	lake	04030204	04	CU	46	8.4	0.5	7.6	7.9	<b>8.4</b>	8.7	9.6
0832304	WBNTOC	stream	04030204	04	CU	384	16.2	83.5	2.9	8.9	<b>10</b>	12	150
0832304	WBNTOC	lake	04030204	04	CU	25	15.1	6.7	8.9	10	<b>11</b>	22	29
0832304	WBNTSS	stream	04030204	04	CU	3379	31	84.8	0	12	<b>20</b>	30	219
0832304	WBNTSS	lake	040302	04	AU	23	21	52.6	0	6	<b>7</b>	15	259
0832304	WBNWaterHardness	stream	04030204	04	CU	386	187.5	75.2	31	170	<b>180</b>	200	160

## Appendix 6A

## STORET Water Quality Data

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
0832304	WBNWaterHardness	lake	040302	04	AU	28	185.2	64.6	21	158	<b>205</b>	230	260
0832510	WBNDOC	stream	02050106	02	CU	20	3.8	3.3	2.1	<b>2.7</b>	4.8	13.6	
0832510	WBNDOC	lake	020501	02	AU	36	3.7	1.5	2.9	<b>3.6</b>	4.9	6.4	
0832510	WBNpH	stream	02050106	02	CU	1945	7.3	0.9	0.7	6.9	<b>7.3</b>	7.8	11
0832510	WBNpH	lake	020501	02	AU	206	7.8	0.7	5.8	7.5	<b>8.1</b>	8.4	9.4
0832510	WBNTOC	stream	02050106	02	CU	898	2.9	1.4	1	1.9	<b>2.6</b>	3.6	11.6
0832510	WBNTOC	lake	020501	02	AU	25	7	3.4	2.3	5.7	<b>6.5</b>	7.5	21
0832510	WBNTSS	stream	02050106	02	CU	197	50.8	112.4	1	5	<b>12</b>	50	889
0832510	WBNTSS	lake	02	02	RG	126	34.8	78.4	0	2	<b>3</b>	15	435
0832510	WBNWaterHardness	stream	02050106	02	CU	664	59.6	29.4	10	38	<b>51</b>	82.5	142
0832510	WBNWaterHardness	lake	02	02	RG	1006	65.3	204.9	0	33	<b>42</b>	56	380
0832903	WBNDOC	stream	0807	08	SR	109	5.5	4.4		3.5	<b>4</b>	5.7	37
0832903	WBNDOC	lake	08	08	RG	119	5.1	2.7		4	<b>4.7</b>	5.5	22
0832903	WBNpH	stream	08070201	08	CU	187	6.9	1	1.3	6.5	<b>6.8</b>	7.2	12.2
0832903	WBNpH	lake	0807	08	SR	81	7.9	0.7	4.5	7.5	<b>7.9</b>	8.4	9
0832903	WBNTOC	stream	08070201	08	CU	114	45.8	227.1	0.2	3.1	<b>5.1</b>	11.4	207.4
0832903	WBNTOC	lake	0807	08	SR	70	8.6	3.2	0.7	6.4	<b>7.8</b>	10.2	18.2
0832903	WBNTSS	stream	080702	08	AU	197	115.1	272.6	0	28	<b>48</b>	130	340
0832903	WBNTSS	lake	08	08	RG	1582	107.9	261.7	0	20	<b>39</b>	96	421.1
0832903	WBNWaterHardness	stream	08070201	08	CU	23	14.7	3.6	5	13	<b>15</b>	17	23
0832903	WBNWaterHardness	lake	08	08	RG	1080	442.3	595.2	4	70	<b>94</b>	719	364
0832904	WBNDOC	stream	030701	03	AU	195	5.2	5.5		1.5	<b>3.1</b>	8.2	49
0832904	WBNDOC	lake	030701	03	AU	34	3.5	1.4		2.2	<b>3.7</b>	4.3	7
0832904	WBNpH	stream	03070101	03	CU	1619	7	0.4	4.5	6.9	<b>7.1</b>	7.2	9.1
0832904	WBNpH	lake	03070101	03	CU	1420	6.9	0.8	4.6	6.4	<b>6.8</b>	7.5	9.1
0832904	WBNTOC	stream	03070101	03	CU	1844	3.5	3.3	0.5	2	<b>3</b>	4.2	62
0832904	WBNTOC	lake	03070101	03	CU	108	3.7	1.4	1.6	3	<b>3.7</b>	4.3	9.2
0832904	WBNTSS	stream	03070101	03	CU	383	106.5	97.7	5	42	<b>75</b>	149	980
0832904	WBNTSS	lake	03	03	RG	501	123.3	208.8	0	2	<b>8</b>	168	106.2
0832904	WBNWaterHardness	stream	03070101	03	CU	239	73.8	774.8	6	14	<b>22</b>	30	1200
0832904	WBNWaterHardness	lake	030701	03	AU	37	19.7	6.1	10	14	<b>20</b>	24	33
0832909	WBNDOC	stream	050800	05	AU	24	5	2.7		3.4	<b>4.2</b>	7.1	11
0832909	WBNDOC	lake	05	05	RG	575	4	3		2.1	<b>3.2</b>	4.7	19
0832909	WBNpH	stream	05080002	05	CU	6508	7.8	0.5	4.1	7.6	<b>7.9</b>	8.1	10.3
0832909	WBNpH	lake	05080002	05	CU	25	7.5	0.6	6.5	7	<b>7.7</b>	7.9	8.4
0832909	WBNTOC	stream	05080002	05	CU	1019	7.7	10.2	0	4	<b>5</b>	9	241
0832909	WBNTOC	lake	050800	05	AU	132	4.7	3.4	0.6	3	<b>4</b>	6	24
0832909	WBNTSS	stream	05080002	05	CU	239	121.2	280.7	0	18	<b>37</b>	84	297
0832909	WBNTSS	lake	05080002	05	CU	239	121.2	280.7	0	18	<b>37</b>	84	297
0832909	WBNWaterHardness	stream	05080002	05	CU	730	340.5	124.5	53	303	<b>331</b>	353	267
0832909	WBNWaterHardness	lake	050800	05	AU	135	234.7	48.4	131	204	<b>235</b>	262	463
0833001	WBNDOC	stream	06010106	06	CU	191	3.6	4.1		1.2	<b>2.2</b>	4.1	28
0833001	WBNDOC	lake	0601	06	SR	28	2.3	2.6		1.2	<b>1.5</b>	2.6	14.9
0833001	WBNpH	stream	06010106	06	CU	2394	7	1.6	2.1	6.6	<b>7</b>	7.3	79
0833001	WBNpH	lake	06010106	06	CU	464	7	0.8	5.7	6.5	<b>6.9</b>	7.6	9.2
0833001	WBNTOC	stream	06010106	06	CU	307	6.9	6.5	0	3.5	<b>5.3</b>	8.7	66
0833001	WBNTOC	lake	06	06	RG	66	4.2	4.6	1	1.9	<b>2.8</b>	4.6	33
0833001	WBNTSS	stream	06010106	06	CU	335	75.3	190.8	0	2	<b>5</b>	38	150
0833001	WBNTSS	lake	06010106	06	CU	335	75.3	190.8	0	2	<b>5</b>	38	150
0833001	WBNWaterHardness	stream	06010106	06	CU	333	60.7	76	1	12	<b>42</b>	84	882
0833001	WBNWaterHardness	lake	0601	06	SR	53	9	4.4	1	6	<b>8</b>	12	18
0833007	WBNDOC	stream	04030105	04	CU	69	9.5	2.5		7.5	<b>9.3</b>	11	17
0833007	WBNDOC	lake	040301	04	AU	119	8.6	4.7		5.1	<b>8.4</b>	11	24
0833007	WBNpH	stream	04030105	04	CU	850	7.6	0.8	3.8	7.3	<b>7.6</b>	7.9	13.8
0833007	WBNpH	lake	04030105	04	CU	593	7.7	0.7	4.9	7.4	<b>7.8</b>	8.2	9.4
0833007	WBNTOC	stream	04030105	04	CU	48	10.8	2.7	7.1	8.6	<b>10</b>	12.5	18
0833007	WBNTOC	lake	040301	04	AU	39	6.7	4.5	1.8	3.5	<b>5.8</b>	7.5	22
0833007	WBNTSS	stream	04030105	04	CU	28	7.3	6.2	1	3	<b>5</b>	9.5	26

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
0833007	WBNTSS	lake	0403	04	SR	25	19.3	50.7	0	5	<b>7</b>	12	259
0833007	WBNWaterHardness	stream	04030105	04	CU	50	141.8	23.5	69	130	<b>140</b>	160	190
0833007	WBNWaterHardness	lake	040301	04	AU	83	96.1	80.8	4	8	<b>90</b>	160	290
0834009	WBNDOC	stream	02040203	02	CU	130	3	3.2		1.3	<b>2.3</b>	3.8	28
0834009	WBNDOC	lake	020402	02	AU	123	7.3	2.8		5	<b>7</b>	9	17
0834009	WBNpH	stream	02040203	02	CU	6141	7.3	2.1	0.7	7	<b>7.4</b>	7.8	110
0834009	WBNpH	lake	02040203	02	CU	248	8	0.9	6.4	7.3	<b>8</b>	8.6	10.2
0834009	WBNTOC	stream	02040203	02	CU	1540	4.1	4	0	2.3	<b>3.3</b>	4.6	64.5
0834009	WBNTOC	lake	020402	02	AU	312	8.9	3.9	2	6	<b>8</b>	11	33
0834009	WBNTSS	stream	02040203	02	CU	563	351	826.2	1	10	<b>62</b>	387	1060
0834009	WBNTSS	lake	02	02	RG	126	34.8	78.4	0	2	<b>3</b>	15	435
0834009	WBNWaterHardness	stream	02040203	02	CU	1666	140.7	74.8	2	96	<b>135</b>	172	708
0834009	WBNWaterHardness	lake	020402	02	AU	326	49.1	22.8	4	37	<b>46.5</b>	56	222
0923004	WBNDOC	stream	04050006	04	CU	69	6.4	2		5	<b>6</b>	8	10
0923004	WBNDOC	lake	040500	04	AU	30	7.4	3.8		5	<b>6.2</b>	8.2	20
0923004	WBNpH	stream	04050006	04	CU	1626	8.2	1.6	6.2	7.9	<b>8.1</b>	8.3	73
0923004	WBNpH	lake	04050006	04	CU	296	8.1	0.5	6.8	7.7	<b>8.2</b>	8.5	9.5
0923004	WBNTOC	stream	04050006	04	CU	565	9	4.1	2.2	6.8	<b>8.3</b>	10	36
0923004	WBNTOC	lake	04050006	04	CU	25	8.2	2	4	7.2	<b>8.4</b>	9.8	11
0923004	WBNTSS	stream	04050006	04	CU	145	36.9	38.4	0	20	<b>27</b>	39	294
0923004	WBNTSS	lake	04	04	RG	39	14.4	40.9	0	4	<b>6</b>	12	259
0923004	WBNWaterHardness	stream	04050006	04	CU	62	246	32.2	160	225	<b>253</b>	270	310
0923004	WBNWaterHardness	lake	040500	04	AU	30	110.2	46.7	6	91	<b>120</b>	140	180
0930205	WBNDOC	stream	030401	03	AU	74	7.2	5.4		3.3	<b>7</b>	10	27
0930205	WBNDOC	lake	03	03	RG	2814	5.8	7.6		2	<b>3</b>	6.1	97
0930205	WBNpH	stream	03040103	03	CU	3776	7	1.2	2.6	6.7	<b>7</b>	7.3	70
0930205	WBNpH	lake	03040103	03	CU	3824	7.3	1	3.3	6.4	<b>7</b>	8.1	11.9
0930205	WBNTOC	stream	03040103	03	CU	32	6.4	3.1	1.8	5	<b>5</b>	7	14
0930205	WBNTOC	lake	0304	03	SR	153	6.8	2.8	2.9	4.6	<b>6.2</b>	8.5	16
0930205	WBNTSS	stream	03040103	03	CU	92	243.5	363.4	1	15	<b>79.5</b>	317	175
0930205	WBNTSS	lake	03	03	RG	501	123.3	208.8	0	2	<b>8</b>	168	106.2
0930205	WBNWaterHardness	stream	03040103	03	CU	389	37.9	21	7	21	<b>36</b>	51	130
0930205	WBNWaterHardness	lake	03040103	03	CU	107	35.8	11.4	17	29	<b>35</b>	40	82
0930301	WBNDOC	stream	17070101	17	CU	40	2.3	1		2	<b>2</b>	3	4.7
0930301	WBNDOC	lake	1707	17	SR	34	2.1	1		1	<b>2</b>	3.1	4
0930301	WBNpH	stream	17070101	17	CU	536	7.9	0.4	6.6	7.6	<b>7.8</b>	8.1	9
0930301	WBNpH	lake	170701	17	AU	1262	7.8	0.6	5.6	7.3	<b>7.7</b>	8.3	9.7
0930301	WBNTOC	stream	17070101	17	CU	133	3.5	2.6	0.5	2	<b>3</b>	4	17
0930301	WBNTOC	lake	170701	17	AU	31	3.9	1.7	0.9	2.9	<b>3.7</b>	5.1	8.3
0930301	WBNTSS	stream	170701	17	AU	39821	162.4	291.8	-3	3	<b>7</b>	18	26300
0930301	WBNTSS	lake	17	17	RG	119	90.6	637.9	1	2	<b>7</b>	13	577
0930301	WBNWaterHardness	stream	170701	17	AU	81	23.3	7.3	14	19	<b>23</b>	26	61
0930301	WBNWaterHardness	lake	17	17	RG	885	60.5	80.4	1	20	<b>42</b>	80	900
0930702	WBNDOC	stream	1207	12	SR	34	6.9	3.9		4.3	<b>6</b>	10	16
0930702	WBNDOC	lake	12	12	RG	230	9.7	3.3		7.4	<b>9.4</b>	12	20
0930702	WBNpH	stream	12070102	12	CU	184	7.2	0.4	6.2	7	<b>7.2</b>	7.5	8.7
0930702	WBNpH	lake	12070102	12	CU	1337	7.7	0.5	6.3	7.3	<b>7.7</b>	8	9.4
0930702	WBNTOC	stream	12070102	12	CU	76	9.2	2.4	3.5	7.1	<b>8.9</b>	11	15
0930702	WBNTOC	lake	120701	12	AU	284	10.2	4	1	8	<b>10</b>	12	26
0930702	WBNTSS	stream	12070102	12	CU	63	88.8	83.5	8	36	<b>62</b>	92	383
0930702	WBNTSS	lake	12070102	12	CU	63	88.8	83.5	8	36	<b>62</b>	92	383
0930702	WBNWaterHardness	stream	12070102	12	CU	21	272.2	139.7	97	140	<b>250</b>	410	480
0930702	WBNWaterHardness	lake	12070102	12	CU	42	115.6	18	79	110	<b>110</b>	130	150
0932103	WBNDOC	stream	030502	03	AU	31	8.7	4.5		4.3	<b>8.5</b>	12	18
0932103	WBNDOC	lake	0305	03	SR	42	2.3	2.2		1.2	<b>1.4</b>	2.2	10.2
0932103	WBNpH	stream	03050203	03	CU	1851	6.2	0.7	3.3	5.8	<b>6.2</b>	6.6	12.1
0932103	WBNpH	lake	030502	03	AU	2076	7.4	0.6	4.3	7	<b>7.4</b>	7.7	9.9
0932103	WBNTOC	stream	03050203	03	CU	293	7.2	6.2	0.1	4.4	<b>6.1</b>	8.4	83.2

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Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
0932103	WBNTOC	lake	030502	03	AU	21	5.8	3.1	3.4	3.8	<b>4.1</b>	6.5	14.4
0932103	WBNTSS	stream	030502	03	AU	405	6.3	5.8	0	3	<b>5</b>	8	65
0932103	WBNTSS	lake	030502	03	AU	40	17.7	15.6	3	9	<b>13</b>	20	93
0932103	WBNWaterHardness	stream	03050203	03	CU	39	8.2	3.7	3	5	<b>8</b>	12	15
0932103	WBNWaterHardness	lake	030502	03	AU	340	18	4.6	3	15	<b>18</b>	21	31
0932507	WBNDOC	stream	02040203	02	CU	130	3	3.2		1.3	<b>2.3</b>	3.8	28
0932507	WBNDOC	lake	020402	02	AU	123	7.3	2.8		5	<b>7</b>	9	17
0932507	WBNpH	stream	02040203	02	CU	6141	7.3	2.1	0.7	7	<b>7.4</b>	7.8	110
0932507	WBNpH	lake	02040203	02	CU	248	8	0.9	6.4	7.3	<b>8</b>	8.6	10.2
0932507	WBNTOC	stream	02040203	02	CU	1540	4.1	4	0	2.3	<b>3.3</b>	4.6	64.5
0932507	WBNTOC	lake	020402	02	AU	312	8.9	3.9	2	6	<b>8</b>	11	33
0932507	WBNTSS	stream	02040203	02	CU	563	351	826.2	1	10	<b>62</b>	387	1060
0932507	WBNTSS	lake	02	02	RG	126	34.8	78.4	0	2	<b>3</b>	15	435
0932507	WBNWaterHardness	stream	02040203	02	CU	1666	140.7	74.8	2	96	<b>135</b>	172	708
0932507	WBNWaterHardness	lake	020402	02	AU	326	49.1	22.8	4	37	<b>46.5</b>	56	222
0932509	WBNDOC	stream	170200	17	AU	447	3	1.8		1.9	<b>2.7</b>	3.5	14
0932509	WBNDOC	lake	170200	17	AU	27	1.3	1		0.5	<b>1</b>	1.5	4.2
0932509	WBNpH	stream	17020003	17	CU	436	7.9	0.4	6.2	7.7	<b>7.9</b>	8.1	8.7
0932509	WBNpH	lake	17020003	17	CU	23	7.7	0.7	6.4	7.2	<b>7.7</b>	8.4	9.3
0932509	WBNTOC	stream	170200	17	AU	374	3.7	5.9	0	1.6	<b>2.4</b>	4	94
0932509	WBNTOC	lake	170200	17	AU	96	11.2	10.2	1	5.4	<b>8</b>	12.5	57
0932509	WBNTSS	stream	170200	17	AU	7542	155.1	537.3	0	8	<b>34</b>	107	2730
0932509	WBNTSS	lake	17	17	RG	119	90.6	637.9	1	2	<b>7</b>	13	577
0932509	WBNWaterHardness	stream	170200	17	AU	218	73.7	49.5	9	60	<b>68</b>	77	549
0932509	WBNWaterHardness	lake	17	17	RG	885	60.5	80.4	1	20	<b>42</b>	80	900
0932903	WBNDOC	stream	1210	12	SR	214	4.4	3.9		1.5	<b>3.5</b>	5.8	19
0932903	WBNDOC	lake	12	12	RG	230	9.7	3.3		7.4	<b>9.4</b>	12	20
0932903	WBNpH	stream	12100401	12	CU	814	7.9	0.4	6.3	7.6	<b>8</b>	8.2	9.1
0932903	WBNpH	lake	121004	12	AU	366	8.2	0.3	6.6	8	<b>8.3</b>	8.4	9
0932903	WBNTOC	stream	12100401	12	CU	380	11.6	7.3	1	6.2	<b>9.6</b>	15	48
0932903	WBNTOC	lake	121004	12	AU	138	8.3	3.6	1	6	<b>8</b>	10	25
0932903	WBNTSS	stream	121004	12	AU	161	123.7	287.4	6	41	<b>66</b>	93	277
0932903	WBNTSS	lake	121004	12	AU	161	123.7	287.4	6	41	<b>66</b>	93	277
0932903	WBNWaterHardness	stream	12100401	12	CU	26	253.8	112.9	66	190	<b>235</b>	320	530
0932903	WBNWaterHardness	lake	1210	12	SR	162	288.8	169.7	64	188	<b>227</b>	350	106
0933704	WBNDOC	stream	06010101	06	CU	35	1.4	0.6		1	<b>1.3</b>	1.6	2.9
0933704	WBNDOC	lake	0601	06	SR	28	2.3	2.6		1.2	<b>1.5</b>	2.6	14.9
0933704	WBNpH	stream	06010101	06	CU	3087	8.1	0.5	4.8	7.8	<b>8.1</b>	8.5	11
0933704	WBNpH	lake	060101	06	AU	2120	7	0.8	4	6.4	<b>6.8</b>	7.6	9.3
0933704	WBNTOC	stream	06010101	06	CU	1185	3.7	7.7	0	1.9	<b>3</b>	4	249
0933704	WBNTOC	lake	06	06	RG	66	4.2	4.6	1	1.9	<b>2.8</b>	4.6	33
0933704	WBNTSS	stream	060101	06	AU	1463	150.1	493.4	0	5	<b>17</b>	70	1080
0933704	WBNTSS	lake	060101	06	AU	1463	150.1	493.4	0	5	<b>17</b>	70	1080
0933704	WBNWaterHardness	stream	06010101	06	CU	391	144.8	61	25	104	<b>134</b>	172	600
0933704	WBNWaterHardness	lake	0601	06	SR	53	9	4.4	1	6	<b>8</b>	12	18
1010805	WBNDOC	stream	170701	17	AU	78	2.2	1		1.6	<b>2</b>	2.7	5
1010805	WBNDOC	lake	1707	17	SR	34	2.1	1		1	<b>2</b>	3.1	4
1010805	WBNpH	stream	17070102	17	CU	1718	7.8	0.5	4	7.5	<b>7.7</b>	8.1	9.8
1010805	WBNpH	lake	170701	17	AU	1262	7.8	0.6	5.6	7.3	<b>7.7</b>	8.3	9.7
1010805	WBNTOC	stream	17070102	17	CU	22	17.5	31.1	1.3	3.2	<b>5.8</b>	12	107
1010805	WBNTOC	lake	170701	17	AU	31	3.9	1.7	0.9	2.9	<b>3.7</b>	5.1	8.3
1010805	WBNTSS	stream	17070102	17	CU	16550	320.8	434.9	-3	2	<b>4</b>	10	26300
1010805	WBNTSS	lake	17	17	RG	119	90.6	637.9	1	2	<b>7</b>	13	577
1010805	WBNWaterHardness	stream	170701	17	AU	81	23.3	7.3	14	19	<b>23</b>	26	61
1010805	WBNWaterHardness	lake	17	17	RG	885	60.5	80.4	1	20	<b>42</b>	80	900
1012203	WBNDOC	stream	02030202	02	CU	76	4.4	4		1.3	<b>3.9</b>	6	24
1012203	WBNDOC	lake	0203	02	SR	162	3.4	1.2		2.6	<b>3.1</b>	3.9	11.7
1012203	WBNpH	stream	02030202	02	CU	2498	6.4	1	0	6.1	<b>6.5</b>	6.8	21

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
1012203	WBNoH	lake	02030202	02	CU	1804	7.2	0.8	2.6	6.6	<b>7</b>	7.5	10.5
1012203	WBNTOC	stream	02030202	02	CU	187	7.5	7.1	0.4	3	<b>6</b>	10	54
1012203	WBNTOC	lake	0203	02	SR	94	5.4	4.2	0	2.8	<b>4</b>	6.4	26
1012203	WBNTSS	stream	02030202	02	CU	92	7	11.2	0	2	<b>3.5</b>	7	75
1012203	WBNTSS	lake	0203	02	SR	31	122.6	120.5	6	17	<b>94</b>	190	435
1012203	WBNWaterHardness	stream	02030202	02	CU	116	515.4	122.7	3	30	<b>53</b>	77.5	550
1012203	WBNWaterHardness	lake	0203	02	SR	255	36	11.7	0	32	<b>34</b>	37	150
1013209	WBNDoc	stream	18030012	18	CU	189	99.2	192.2		17	<b>48</b>	130	230
1013209	WBNDoc	lake	180300	18	AU	106	1.5	1.4		0.8	<b>1.2</b>	1.6	10.8
1013209	WBNoH	stream	18030012	18	CU	2920	7.4	0.5	3	7	<b>7.3</b>	7.7	9.6
1013209	WBNoH	lake	18030012	18	CU	1014	8	0.6	2.7	7.6	<b>8</b>	8.5	9.5
1013209	WBNTOC	stream	18030012	18	CU	397	14.2	18.2	0.1	4.2	<b>9.6</b>	17	200
1013209	WBNTOC	lake	18	18	RG	379	9.5	27	1	4.2	<b>7</b>	10	520
1013209	WBNTSS	stream	18030012	18	CU	323	485.7	670.8	2	50	<b>187</b>	614	430
1013209	WBNTSS	lake	18	18	RG	23	28.8	58.1	1	2	<b>9</b>	18	204
1013209	WBNWaterHardness	stream	18030012	18	CU	696	417.4	764.8	3	28	<b>75.5</b>	520	541
1013209	WBNWaterHardness	lake	18030012	18	CU	344	96	29.6	22	80	<b>95.5</b>	116	216
1014805	WBNDoc	stream	03130008	03	CU	49	4.6	1.8		3	<b>5</b>	6	8
1014805	WBNDoc	lake	031300	03	AU	1459	3.5	3.7		1.2	<b>2.7</b>	4.4	87.4
1014805	WBNoH	stream	03130008	03	CU	1604	7.2	0.9	0	7.1	<b>7.3</b>	7.5	9
1014805	WBNoH	lake	03130008	03	CU	54	7.3	0.4	6.8	6.9	<b>7.2</b>	7.6	7.8
1014805	WBNTOC	stream	03130008	03	CU	1519	4.6	2.7	1	3	<b>4</b>	5.7	22.6
1014805	WBNTOC	lake	03130008	03	CU	36	4.5	1.4	2.7	3.5	<b>4.3</b>	4.9	8
1014805	WBNTSS	stream	03130008	03	CU	624	20	17.7	1	8	<b>15</b>	28	195
1014805	WBNTSS	lake	03	03	RG	501	123.3	208.8	0	2	<b>8</b>	168	106.2
1014805	WBNWaterHardness	stream	03130008	03	CU	35	57.9	40	20	34	<b>39</b>	69	198
1014805	WBNWaterHardness	lake	031300	03	AU	57	21.5	20.9	1	4	<b>16</b>	30	80
1015510	WBNDoc	stream	12	12	RG	1137	6.6	5.1		3.8	<b>5.5</b>	8.6	66
1015510	WBNDoc	lake	12	12	RG	230	9.7	3.3		7.4	<b>9.4</b>	12	20
1015510	WBNoH	stream	12060103	12	CU	140	7.6	0.4	6.4	7.5	<b>7.7</b>	7.9	8.8
1015510	WBNoH	lake	12060103	12	CU	46	8.3	0.2	7.4	8.2	<b>8.3</b>	8.4	8.7
1015510	WBNTOC	stream	120601	12	AU	539	10.8	10.6	1	6.1	<b>9</b>	13	189.4
1015510	WBNTOC	lake	120601	12	AU	364	7.6	6	1	5	<b>6.8</b>	9	85
1015510	WBNTSS	stream	120601	12	AU	92	173.1	227.2	6	202	<b>109</b>	233	1470
1015510	WBNTSS	lake	120601	12	AU	92	173.1	227.2	6	202	<b>109</b>	233	1470
1015510	WBNWaterHardness	stream	120601	12	AU	235	989	916.9	110	290	<b>560</b>	140	390
1015510	WBNWaterHardness	lake	120601	12	AU	67	232.6	90.9	86	180	<b>216</b>	260	670
1023705	WBNDoc	stream	04140201	04	CU	24	2.8	0.7		2.4	<b>2.6</b>	3.4	4.4
1023705	WBNDoc	lake	04140201	04	CU	56	2.5	0.9		2	<b>2</b>	3.1	5
1023705	WBNoH	stream	04140201	04	CU	2881	8.3	16.8	5.3	7.6	<b>7.9</b>	8.2	840
1023705	WBNoH	lake	04140201	04	CU	2084	7.9	0.4	5.3	7.7	<b>8</b>	8.2	9.5
1023705	WBNTOC	stream	04140201	04	CU	62	4.1	2.8	0	2.3	<b>3.4</b>	5.2	16
1023705	WBNTOC	lake	04140201	04	CU	88	3.6	3.6	0	2	<b>2.3</b>	4.1	22
1023705	WBNTSS	stream	04140201	04	CU	1097	91.5	314.7	0	5	<b>13</b>	43	590.6
1023705	WBNTSS	lake	04	04	RG	39	14.4	40.9	0	4	<b>6</b>	12	259
1023705	WBNWaterHardness	stream	04140201	04	CU	256	402.8	412.7	114	170	<b>242</b>	412	220
1023705	WBNWaterHardness	lake	04140201	04	CU	51	150.2	17.2	114	140	<b>150</b>	160	190
1031503	WBNDoc	stream	10	10	RG	7592	11.6	60.3		4	<b>6.6</b>	12	330
1031503	WBNDoc	lake	10	10	RG	1257	11.6	228.4		2.3	<b>4.1</b>	5	810
1031503	WBNoH	stream	10260010	10	CU	866	7.8	0.4	5.9	7.5	<b>7.8</b>	8.1	9.8
1031503	WBNoH	lake	102600	10	AU	904	7.8	0.4	6.3	7.5	<b>7.8</b>	8.1	9.2
1031503	WBNTOC	stream	102600	10	AU	90	7.8	10.2	0.2	1.7	<b>6</b>	9.3	75
1031503	WBNTOC	lake	102600	10	AU	47	6.7	1.3	4	6	<b>6.8</b>	8	10
1031503	WBNTSS	stream	10260010	10	CU	197	185.9	237.1	15	124	<b>592</b>	291	1200
1031503	WBNTSS	lake	10	10	RG	30	10.8	8.6	1	4	<b>9</b>	18	33
1031503	WBNWaterHardness	stream	10260010	10	CU	233	496.6	117.5	100	455	<b>514</b>	579	920
1031503	WBNWaterHardness	lake	102600	10	AU	147	372.9	264	88	198	<b>295</b>	497	147.8
1031507	WBNDoc	stream	18040001	18	CU	60	19	28.5		5.6	<b>10</b>	17.5	150

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
1031507	WBNDOC	lake	180400	18	AU	39	2	2	0.6	<b>1.5</b>	2.5	10	
1031507	WBNoH	stream	18040001	18	CU	5051	7.6	0.5	2.9	7.2	<b>7.5</b>	7.9	10.1
1031507	WBNoH	lake	18040001	18	CU	593	7.9	0.5	2.4	7.5	<b>7.8</b>	8.3	9.6
1031507	WBNTOC	stream	18040001	18	CU	726	10.6	57.8	0.9	3.9	<b>6.2</b>	9.1	904
1031507	WBNTOC	lake	180400	18	AU	41	3.7	0.9	1.1	3.1	<b>3.6</b>	4.4	5.4
1031507	WBNTSS	stream	18040001	18	CU	347	420.3	282.4	0	27	<b>75</b>	163	3890
1031507	WBNTSS	lake	18	18	RG	23	28.8	58.1	1	2	<b>9</b>	18	204
1031507	WBNWaterHardness	stream	18040001	18	CU	764	984.5	796	5	172	<b>803</b>	170	306
1031507	WBNWaterHardness	lake	18040001	18	CU	189	93.5	27.5	39	73	<b>94</b>	111	184
1032715	WBNDOC	stream	031501	03	AU	169	1.5	1.1		0.7	<b>1.2</b>	2	7.3
1032715	WBNDOC	lake	031501	03	AU	443	2.2	0.8		2	<b>2</b>	2.1	9.1
1032715	WBNoH	stream	03150106	03	CU	15774	7.2	1	1.4	7	<b>7.2</b>	7.4	76.5
1032715	WBNoH	lake	03150106	03	CU	46	6.6	0.2	6.5	6.5	<b>6.5</b>	6.5	7
1032715	WBNTOC	stream	03150106	03	CU	66	13.7	8.8	3.6	9	<b>11</b>	17	52
1032715	WBNTOC	lake	031501	03	AU	715	2.8	2	0.4	2	<b>2</b>	3	28
1032715	WBNTSS	stream	031501	03	AU	2160	105.3	189	1	15	<b>41</b>	113	287
1032715	WBNTSS	lake	03	03	RG	501	123.3	208.8	0	2	<b>8</b>	168	106.2
1032715	WBNWaterHardness	stream	03150106	03	CU	330	84.4	30	24	61	<b>82</b>	106	250
1032715	WBNWaterHardness	lake	03	03	RG	5668	52	69.3	0	14	<b>24</b>	67	106
1032802	WBNDOC	stream	03030002	03	CU	1229	16.1	7.9		11	<b>14</b>	20	54
1032802	WBNDOC	lake	03030002	03	CU	186	16.8	4.5		14	<b>16</b>	18	36
1032802	WBNoH	stream	03030002	03	CU	17607	6.9	0.6	0	6.6	<b>6.9</b>	7.2	10.5
1032802	WBNoH	lake	03030002	03	CU	18974	7	0.7	4.8	6.6	<b>6.9</b>	7.3	11
1032802	WBNTOC	stream	03030002	03	CU	3274	12.5	7.1	0	8	<b>11</b>	15	71
1032802	WBNTOC	lake	03030002	03	CU	2014	9.8	3.6	3	8	<b>9</b>	11	36
1032802	WBNTSS	stream	03030002	03	CU	2753	308.8	663.6	0	67	<b>479</b>	279	5720
1032802	WBNTSS	lake	03	03	RG	501	123.3	208.8	0	2	<b>8</b>	168	106.2
1032802	WBNWaterHardness	stream	03030002	03	CU	793	45.7	23.8	0	28	<b>41</b>	59	180
1032802	WBNWaterHardness	lake	03030002	03	CU	41	35.1	16.7	16	26	<b>32</b>	39	98
1033107	WBNDOC	stream	04060105	04	CU	32	5.1	3.6		3.3	<b>3.9</b>	6.1	19
1033107	WBNDOC	lake	040601	04	AU	33	6.7	3.9		3.8	<b>6</b>	8.9	20
1033107	WBNoH	stream	04060105	04	CU	632	8.1	0.2	7	8	<b>8.2</b>	8.3	8.8
1033107	WBNoH	lake	04060105	04	CU	374	8.3	0.4	6.7	8	<b>8.3</b>	8.5	9.4
1033107	WBNTOC	stream	04060105	04	CU	73	5.1	4.6	0.9	2.6	<b>3.7</b>	5.7	26
1033107	WBNTOC	lake	040601	04	AU	227	8.4	6.2	2.1	4.7	<b>6.8</b>	9.5	46.8
1033107	WBNTSS	stream	04060105	04	CU	299	11.2	13.7	0	3	<b>6</b>	13	84
1033107	WBNTSS	lake	04	04	RG	39	14.4	40.9	0	4	<b>6</b>	12	259
1033107	WBNWaterHardness	stream	04060105	04	CU	26	170.8	42.1	100	150	<b>160</b>	190	260
1033107	WBNWaterHardness	lake	040601	04	AU	176	67.3	45.8	5	17	<b>75.5</b>	100	160
1033114	WBNDOC	stream	02040207	02	CU	230	8.4	3.9		6	<b>8</b>	10	25
1033114	WBNDOC	lake	02040207	02	CU	99	7.6	2.8		6	<b>7</b>	9	17
1033114	WBNoH	stream	02040207	02	CU	4023	7.2	0.8	0.6	6.8	<b>7.2</b>	7.5	11
1033114	WBNoH	lake	02040207	02	CU	636	7.4	1	5.2	6.7	<b>7.2</b>	7.9	10.7
1033114	WBNTOC	stream	02040207	02	CU	529	11	7	3	7	<b>10</b>	13	83
1033114	WBNTOC	lake	02040207	02	CU	250	9.1	3.5	3	7	<b>8</b>	11	20
1033114	WBNTSS	stream	020402	02	AU	3743	184.4	541.9	0	5	<b>17</b>	106	1060
1033114	WBNTSS	lake	02	02	RG	126	34.8	78.4	0	2	<b>3</b>	15	435
1033114	WBNWaterHardness	stream	02040207	02	CU	2547	709.1	150.4	0.1	51	<b>74</b>	360	2000
1033114	WBNWaterHardness	lake	02040207	02	CU	157	49.8	17.8	18	36	<b>50</b>	59	158
1033202	WBNDOC	stream	11110104	11	CU	66	6.1	4.8		3.7	<b>4.9</b>	7	28
1033202	WBNDOC	lake	1111	11	SR	119	3.4	1.1		3	<b>3.2</b>	3.7	7.3
1033202	WBNoH	stream	11110104	11	CU	2733	7.8	0.6	2.3	7.5	<b>7.8</b>	8.2	9.4
1033202	WBNoH	lake	11110104	11	CU	1238	11	50.2	0	7.4	<b>7.8</b>	8.1	851
1033202	WBNTOC	stream	11110104	11	CU	285	5.9	3.1	1	5	<b>5</b>	6.5	29
1033202	WBNTOC	lake	111101	11	AU	338	15.7	10.4	2	8	<b>13</b>	21	76.5
1033202	WBNTSS	stream	11110104	11	CU	921	497.9	936.2	1	40	<b>130</b>	540	955
1033202	WBNTSS	lake	11	11	RG	2106	111.6	269.6	1	40	<b>70</b>	110	761
1033202	WBNWaterHardness	stream	11110104	11	CU	237	161.5	107.8	18	96	<b>148</b>	180	610

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
1033202	WBNWaterHardness	lake	11110104	11	CU	53	301.7	172.2	110	150	<b>170</b>	460	660
1033602	WBNDOC	stream	04050003	04	CU	44	6.1	2.4		3.9	<b>5.7</b>	7.6	11
1033602	WBNDOC	lake	040500	04	AU	30	7.4	3.8		5	<b>6.2</b>	8.2	20
1033602	WBNpH	stream	04050003	04	CU	2754	7.9	0.5	0	7.8	<b>8</b>	8.1	8.9
1033602	WBNpH	lake	04050003	04	CU	578	8.2	0.5	6.2	7.9	<b>8.2</b>	8.6	9.4
1033602	WBNTOC	stream	04050003	04	CU	1122	7.5	4.2	1.6	5.1	<b>6.5</b>	8.6	40
1033602	WBNTOC	lake	04050003	04	CU	37	7.9	2.8	3	5.6	<b>6.8</b>	10.3	13.2
1033602	WBNTSS	stream	04050003	04	CU	291	23	18.4	1	11	<b>18</b>	31	110
1033602	WBNTSS	lake	04	04	RG	39	14.4	40.9	0	4	<b>6</b>	12	259
1033602	WBNWaterHardness	stream	04050003	04	CU	139	258	35.9	170	235	<b>260</b>	285	335
1033602	WBNWaterHardness	lake	040500	04	AU	30	110.2	46.7	6	91	<b>120</b>	140	180
1034005	WBNDOC	stream	03130001	03	CU	435	4.3	4.1		1.4	<b>3.2</b>	6	27
1034005	WBNDOC	lake	03130001	03	CU	690	2.1	3.6		1	<b>1.1</b>	2.6	87.4
1034005	WBNpH	stream	03130001	03	CU	16708	6.5	0.4	0	6.2	<b>6.5</b>	6.8	10.1
1034005	WBNpH	lake	03130001	03	CU	3230	6.6	0.8	5	6	<b>6.4</b>	6.9	9.7
1034005	WBNTOC	stream	03130001	03	CU	3562	8.7	34.5	0	1.7	<b>3</b>	5.4	495
1034005	WBNTOC	lake	03130001	03	CU	781	3.3	2.5	0	1.1	<b>2.9</b>	4.8	26.2
1034005	WBNTSS	stream	03130001	03	CU	813	224.6	387.8	2	12	<b>43</b>	272	290
1034005	WBNTSS	lake	03	03	RG	501	123.3	208.8	0	2	<b>8</b>	168	106.2
1034005	WBNWaterHardness	stream	03130001	03	CU	157	30.4	30.3	2	10	<b>14</b>	64	190
1034005	WBNWaterHardness	lake	031300	03	AU	57	21.5	20.9	1	4	<b>16</b>	30	80
1034210	WBNDOC	stream	04140201	04	CU	24	2.8	0.7		2.4	<b>2.6</b>	3.4	4.4
1034210	WBNDOC	lake	04140201	04	CU	56	2.5	0.9		2	<b>2</b>	3.1	5
1034210	WBNpH	stream	04140201	04	CU	2881	8.3	16.8	5.3	7.6	<b>7.9</b>	8.2	840
1034210	WBNpH	lake	04140201	04	CU	2084	7.9	0.4	5.3	7.7	<b>8</b>	8.2	9.5
1034210	WBNTOC	stream	04140201	04	CU	62	4.1	2.8	0	2.3	<b>3.4</b>	5.2	16
1034210	WBNTOC	lake	04140201	04	CU	88	3.6	3.6	0	2	<b>2.3</b>	4.1	22
1034210	WBNTSS	stream	04140201	04	CU	1097	91.5	314.7	0	5	<b>13</b>	43	590.6
1034210	WBNTSS	lake	04	04	RG	39	14.4	40.9	0	4	<b>6</b>	12	259
1034210	WBNWaterHardness	stream	04140201	04	CU	256	402.8	412.7	114	170	<b>242</b>	412	220
1034210	WBNWaterHardness	lake	04140201	04	CU	51	150.2	17.2	114	140	<b>150</b>	160	190
1034406	WBNDOC	stream	08030209	08	CU	89	5.4	1.5		4.4	<b>5.2</b>	6.3	10
1034406	WBNDOC	lake	08	08	RG	119	5.1	2.7		4	<b>4.7</b>	5.5	22
1034406	WBNpH	stream	08030209	08	CU	626	7.3	0.6	5.5	6.9	<b>7.2</b>	7.8	9.1
1034406	WBNpH	lake	080302	08	AU	608	6.8	0.6	5	6.5	<b>6.7</b>	7.2	9.7
1034406	WBNTOC	stream	08030209	08	CU	347	6.4	2.6	0.1	4.9	<b>6</b>	7.3	34.8
1034406	WBNTOC	lake	080302	08	AU	45	4.7	1.7	1	4	<b>4.4</b>	6	8.4
1034406	WBNTSS	stream	080302	08	AU	3219	467.3	976.5	1	33	<b>92</b>	325	953
1034406	WBNTSS	lake	08	08	RG	1582	107.9	261.7	0	20	<b>39</b>	96	421.1
1034406	WBNWaterHardness	stream	080302	08	AU	34	93.5	172.9	6	28	<b>41</b>	71	810
1034406	WBNWaterHardness	lake	08	08	RG	1080	442.3	595.2	4	70	<b>94</b>	719	364
1034805	WBNDOC	stream	11010004	11	CU	53	1.5	1.2		0.8	<b>1</b>	1.5	6.6
1034805	WBNDOC	lake	110100	11	AU	37	0.8	0.5		0.6	<b>0.7</b>	0.9	2.9
1034805	WBNpH	stream	11010004	11	CU	3259	7.9	0.3	6	7.7	<b>7.9</b>	8.1	9.2
1034805	WBNpH	lake	110100	11	AU	15441	7.7	0.5	0	7.4	<b>7.7</b>	8.1	9.3
1034805	WBNTOC	stream	11010004	11	CU	641	5.1	3.1	0.5	2.9	<b>4.5</b>	6.4	26
1034805	WBNTOC	lake	110100	11	AU	42	3.2	2.2	1.1	1.9	<b>2.4</b>	3.1	9.9
1034805	WBNTSS	stream	11010004	11	CU	287	13.7	36	0	3	<b>6</b>	14	542
1034805	WBNTSS	lake	110100	11	AU	35	18.4	19.4	1	5	<b>13</b>	26	93
1034805	WBNWaterHardness	stream	11010004	11	CU	707	158.8	39.9	76	130	<b>148</b>	180	262
1034805	WBNWaterHardness	lake	110100	11	AU	901	98.5	48.4	6	64	<b>100</b>	130	260
1035117	WBNDOC	stream	10300101	10	CU	41	6.2	3.7		3.5	<b>5.2</b>	7.6	20.5
1035117	WBNDOC	lake	10	10	RG	1257	11.6	228.4		2.3	<b>4.1</b>	5	810
1035117	WBNpH	stream	10300101	10	CU	1494	8.3	20.5	4	7.6	<b>7.9</b>	8.1	800
1035117	WBNpH	lake	10300101	10	CU	260	7.3	0.5	6.2	7	<b>7.3</b>	7.7	9.4
1035117	WBNTOC	stream	10300101	10	CU	215	16.7	23.6	1	7.6	<b>10.9</b>	16.4	220
1035117	WBNTOC	lake	10300101	10	CU	43	7.5	3.9	2.6	4	<b>7.7</b>	9.1	18

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
1035117	WBNTSS	stream	10300101	10	CU	165	124.9	188.6	0	260	<b>409</b>	145	1460
1035117	WBNTSS	lake	10	10	RG	30	10.8	8.6	1	4	<b>9</b>	18	33
1035117	WBNWaterHardness	stream	10300101	10	CU	449	230.6	52.1	89	203	<b>236</b>	266	380
1035117	WBNWaterHardness	lake	10300101	10	CU	42	159.2	42.4	118	130	<b>150</b>	161	304
1035405	WBNDOC	stream	17050114	17	CU	23	3.3	1.1		2.3	<b>3</b>	4	5.8
1035405	WBNDOC	lake	170501	17	AU	37	1.8	1		1	<b>1.8</b>	2.5	3.9
1035405	WBNpH	stream	17050114	17	CU	2247	7.8	0.5	5.7	7.5	<b>7.8</b>	8.1	10.4
1035405	WBNpH	lake	17050114	17	CU	32	9	0.3	8.1	8.8	<b>8.9</b>	9.3	9.7
1035405	WBNTOC	stream	17050114	17	CU	561	3.5	3.4	0	1.9	<b>2.9</b>	4.3	40
1035405	WBNTOC	lake	170501	17	AU	55	3.4	1.4	1.6	2.3	<b>3.2</b>	4.1	7.1
1035405	WBNTSS	stream	17050114	17	CU	108	183.2	582.4	2	24.5	<b>54</b>	137	576.4
1035405	WBNTSS	lake	17	17	RG	119	90.6	637.9	1	2	<b>7</b>	13	577
1035405	WBNWaterHardness	stream	170501	17	AU	344	117.1	119.4	0.1	36	<b>76.5</b>	191	166.8
1035405	WBNWaterHardness	lake	17	17	RG	885	60.5	80.4	1	20	<b>42</b>	80	900
1035508	WBNDOC	stream	16010202	16	CU	20	3.2	1.4		2.3	<b>3</b>	3.6	6.5
1035508	WBNDOC	lake	16	16	RG	239	2.7	4.5		1	<b>1.6</b>	2.6	38
1035508	WBNpH	stream	16010202	16	CU	1199	8.1	0.4	6.5	7.9	<b>8.1</b>	8.4	10.3
1035508	WBNpH	lake	16010202	16	CU	78	8.2	0.5	6.9	7.8	<b>8.3</b>	8.5	8.8
1035508	WBNTOC	stream	16010202	16	CU	563	9.5	12.3	0	3.2	<b>5</b>	10	74
1035508	WBNTOC	lake	160102	16	AU	368	7.1	4.7	1.9	4.3	<b>6.5</b>	8.7	47.8
1035508	WBNTSS	stream	16010202	16	CU	85	572.5	105.8	2	142	<b>188</b>	255	363
1035508	WBNTSS	lake	16	16	RG	35	20	47.4	0	0	<b>1</b>	3	169
1035508	WBNWaterHardness	stream	16010202	16	CU	327	282.8	67.1	140	240	<b>290</b>	323	740
1035508	WBNWaterHardness	lake	160102	16	AU	41	250	75.5	133	154	<b>272</b>	310	339
1120904	WBNDOC	stream	02	02	RG	32189	4.7	40.1		2.6	<b>3.5</b>	5	645.3
1120904	WBNDOC	lake	020100	02	AU	67	4.4	2.4		3	<b>3.7</b>	5.4	14.3
1120904	WBNpH	stream	02010003	02	CU	1881	7.6	0.7	5.3	7.2	<b>7.7</b>	8.1	9.6
1120904	WBNpH	lake	02010003	02	CU	626	7.6	0.7	5.2	7.2	<b>7.6</b>	8.1	9.6
1120904	WBNTOC	stream	020100	02	AU	46	8.2	15.2	0.4	2.8	<b>4</b>	8.2	100
1120904	WBNTOC	lake	020100	02	AU	168	4.5	3.6	1	3	<b>3.6</b>	5	28
1120904	WBNTSS	stream	02010003	02	CU	56	7.9	12.7	0	2	<b>4</b>	7	67
1120904	WBNTSS	lake	020100	02	AU	84	6.6	13.5	0	1	<b>2</b>	6	73
1120904	WBNWaterHardness	stream	020100	02	AU	107	52.6	23.1	8	37	<b>56</b>	64	152
1120904	WBNWaterHardness	lake	020100	02	AU	21	53.4	5	40	51	<b>52</b>	56	63
1122705	WBNDOC	stream	05070202	05	CU	64	3.6	2.4		1.8	<b>3.1</b>	4.4	11
1122705	WBNDOC	lake	050702	05	AU	56	2.8	1.2		1.9	<b>2.5</b>	3.3	8.2
1122705	WBNpH	stream	05070202	05	CU	12516	7.3	1	2.5	7.1	<b>7.5</b>	7.8	10
1122705	WBNpH	lake	05070202	05	CU	10135	7.2	0.8	0.5	6.7	<b>7.2</b>	7.8	10
1122705	WBNTOC	stream	05070202	05	CU	1979	4.8	6.2	0.4	2	<b>3</b>	5	83
1122705	WBNTOC	lake	05070202	05	CU	683	2.9	6.4	0.6	1	<b>2.3</b>	3.4	162
1122705	WBNTSS	stream	05070202	05	CU	1074	932.2	403.6	0	18	<b>65</b>	298	6950
1122705	WBNTSS	lake	05070202	05	CU	1074	932.2	403.6	0	18	<b>65</b>	298	6950
1122705	WBNWaterHardness	stream	05070202	05	CU	1077	166.3	137.8	0.5	86	<b>140</b>	210	270
1122705	WBNWaterHardness	lake	05070202	05	CU	451	159.9	123.6	15	90	<b>124</b>	195	105
1131103	WBNDOC	stream	08090203	08	CU	28	4.8	6		3.1	<b>3.4</b>	4.3	35
1131103	WBNDOC	lake	080902	08	AU	85	5.6	2.8		4.5	<b>5.1</b>	5.6	22
1131103	WBNpH	stream	08090203	08	CU	12152	7.8	1	1.6	7.5	<b>7.8</b>	8	103.3
1131103	WBNpH	lake	08090203	08	CU	3612	7.7	0.6	0	7.4	<b>7.7</b>	8	10.7
1131103	WBNTOC	stream	08090203	08	CU	1533	7.1	3.6	0	5.1	<b>6.2</b>	8.2	51
1131103	WBNTOC	lake	08090203	08	CU	404	9.7	4.3	3	6	<b>9.3</b>	12.5	26.6
1131103	WBNTSS	stream	08090203	08	CU	5860	77.7	243.5	1	31	<b>52</b>	81	1208
1131103	WBNTSS	lake	08090203	08	CU	286	67.4	75.4	6	32	<b>44.5</b>	74	527
1131103	WBNWaterHardness	stream	08090203	08	CU	342	151.1	101.3	23	734	<b>126</b>	215	590
1131103	WBNWaterHardness	lake	08090203	08	CU	113	162.2	650.6	123	110	<b>163</b>	200	364
1131802	WBNDOC	stream	180201	18	AU	179	3.9	5.7		1.4	<b>2.2</b>	3.9	34
1131802	WBNDOC	lake	180201	18	AU	43	2.1	1.5		1.1	<b>1.6</b>	2.6	6.9
1131802	WBNpH	stream	18020129	18	CU	1124	6.8	0.7	5.3	6.3	<b>6.9</b>	7.3	8.9
1131802	WBNpH	lake	18020129	18	CU	126	7.2	0.4	6.1	6.9	<b>7.2</b>	7.5	8.3

## Appendix 6A

## STORET Water Quality Data

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
1131802	WBNTOC	stream	18020129	18	CU	27	2.2	0.6	1.2	1.8	<b>2.1</b>	2.8	3.4
1131802	WBNTOC	lake	18	18	RG	379	9.5	27	1	4.2	<b>7</b>	10	520
1131802	WBNTSS	stream	18020129	18	CU	1980	98.6	129.7	0	33	<b>52</b>	111	197
1131802	WBNTSS	lake	18	18	RG	23	28.8	58.1	1	2	<b>9</b>	18	204
1131802	WBNWaterHardness	stream	18020129	18	CU	43	12.1	4.4	5	9	<b>11</b>	14	23
1131802	WBNWaterHardness	lake	180201	18	AU	126	65.6	51.2	0.3	31	<b>42</b>	84	287
1133902	WBNDOC	stream	030501	03	AU	262	4.8	5.4		1	<b>3.5</b>	6.8	45
1133902	WBNDOC	lake	030501	03	AU	42	2.3	2.2		1.2	<b>1.4</b>	2.2	10.2
1133902	WBNpH	stream	03050109	03	CU	15241	7	0.6	3.7	6.6	<b>7</b>	7.2	11.4
1133902	WBNpH	lake	03050109	03	CU	2015	7.4	0.8	4	6.8	<b>7.3</b>	7.9	10
1133902	WBNTOC	stream	03050109	03	CU	3337	6.7	11.8	0	2.9	<b>4.6</b>	7.3	516
1133902	WBNTOC	lake	03050109	03	CU	326	4.3	3.4	0.9	2.1	<b>3.4</b>	5.3	29.2
1133902	WBNTSS	stream	030501	03	AU	1124	216.8	493.8	0	8	<b>22</b>	124	560
1133902	WBNTSS	lake	0305	03	SR	40	17.7	15.6	3	9	<b>13</b>	20	93
1133902	WBNWaterHardness	stream	03050109	03	CU	263	21.9	20	4	12	<b>15</b>	28	210
1133902	WBNWaterHardness	lake	03050109	03	CU	26	8.7	5.4	3	3	<b>5</b>	14	17
1134405	WBNDOC	stream	071100	07	AU	36	8.1	3.2		5.5	<b>7.4</b>	10	17
1134405	WBNDOC	lake	07	07	RG	649	6.8	4.5		4.1	<b>5.8</b>	8.2	50
1134405	WBNpH	stream	07110004	07	CU	886	7.8	0.5	4	7.5	<b>7.9</b>	8.2	9.2
1134405	WBNpH	lake	071100	07	AU	40	8.3	0.8	6.9	7.5	<b>8.5</b>	8.9	10
1134405	WBNTOC	stream	071100	07	AU	138	13	9	2.4	7.3	<b>9.5</b>	16	58
1134405	WBNTOC	lake	07	07	RG	2097	9.9	8.4	0	5.4	<b>8</b>	11	83
1134405	WBNTSS	stream	071100	07	AU	391	199.4	322	0.9	34	<b>88</b>	230	270
1134405	WBNTSS	lake	07	07	RG	112	57.8	86.5	0	10	<b>23</b>	61	449
1134405	WBNWaterHardness	stream	07110004	07	CU	78	203.7	39.8	119	182	<b>209</b>	236	272
1134405	WBNWaterHardness	lake	07	07	RG	8520	155.4	94.6	0	93	<b>135</b>	196	136.2
1212301	WBNDOC	stream	01090001	01	CU	27	7.6	2.8		5.6	<b>7.2</b>	9	16
1212301	WBNDOC	lake	010900	01	AU	67	4.7	4.3		1.7	<b>3.2</b>	6.8	24
1212301	WBNpH	stream	01090001	01	CU	459	6.6	0.7	0	6.4	<b>6.7</b>	7	9.1
1212301	WBNpH	lake	010900	01	AU	351	6.7	0.7	4.7	6.3	<b>6.7</b>	7.1	9.8
1212301	WBNTOC	stream	01090001	01	CU	47	9.3	4.8	4.8	6.6	<b>8.1</b>	10	28
1212301	WBNTOC	lake	01	01	RG	803	5.6	4.2	0	3.4	<b>4.6</b>	6	25.4
1212301	WBNTSS	stream	01090001	01	CU	95	16	22.1	0	5	<b>8</b>	18	140
1212301	WBNTSS	lake	01	01	RG	42	3.3	2.5	0.6	1	<b>3</b>	4	14
1212301	WBNWaterHardness	stream	01090001	01	CU	21	37.8	6.9	24	34	<b>38</b>	43	55
1212301	WBNWaterHardness	lake	01	01	RG	51	73.6	44.4	4	11	<b>94</b>	110	130
1221704	WBNDOC	stream	031002	03	AU	41	14.7	16.5		4.8	<b>9</b>	16	65
1221704	WBNDOC	lake	031002	03	AU	29	10.6	2.8		8.1	<b>10.1</b>	12.2	17
1221704	WBNpH	stream	03100207	03	CU	1879	7.2	1.7	3.7	6.8	<b>7.3</b>	7.9	71
1221704	WBNpH	lake	03100207	03	CU	156	6.8	0.9	4.2	6.2	<b>6.7</b>	7.3	9.1
1221704	WBNTOC	stream	03100207	03	CU	359	19.1	19.8	0	7	<b>17</b>	27	206
1221704	WBNTOC	lake	031002	03	AU	2416	14.2	5.9	0	10.6	<b>13.5</b>	17	58
1221704	WBNTSS	stream	031002	03	AU	386	11.2	51.9	0	2	<b>4</b>	7	698
1221704	WBNTSS	lake	031002	03	AU	47	1.8	4.2	0	1	<b>1</b>	2	29
1221704	WBNWaterHardness	stream	03100207	03	CU	38	143.7	68.9	20	86	<b>165</b>	190	280
1221704	WBNWaterHardness	lake	031002	03	AU	986	103	68.3	0	59	<b>82</b>	132	645
1223404	WBNDOC	stream	02040203	02	CU	130	3	3.2		1.3	<b>2.3</b>	3.8	28
1223404	WBNDOC	lake	020402	02	AU	123	7.3	2.8		5	<b>7</b>	9	17
1223404	WBNpH	stream	02040203	02	CU	6141	7.3	2.1	0.7	7	<b>7.4</b>	7.8	110
1223404	WBNpH	lake	02040203	02	CU	248	8	0.9	6.4	7.3	<b>8</b>	8.6	10.2
1223404	WBNTOC	stream	02040203	02	CU	1540	4.1	4	0	2.3	<b>3.3</b>	4.6	64.5
1223404	WBNTOC	lake	020402	02	AU	312	8.9	3.9	2	6	<b>8</b>	11	33
1223404	WBNTSS	stream	02040203	02	CU	563	351	826.2	1	10	<b>62</b>	387	1060
1223404	WBNTSS	lake	02	02	RG	126	34.8	78.4	0	2	<b>3</b>	15	435
1223404	WBNWaterHardness	stream	02040203	02	CU	1666	140.7	74.8	2	96	<b>135</b>	172	708
1223404	WBNWaterHardness	lake	020402	02	AU	326	49.1	22.8	4	37	<b>46.5</b>	56	222
1230111	WBNDOC	stream	100700	10	AU	66	3.6	1.9		2.2	<b>3</b>	4.4	9.4
1230111	WBNDOC	lake	100700	10	AU	30	1.7	2.2		0.6	<b>0.9</b>	1.6	11.2

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
1230111	WBNoH	stream	10070004	10	CU	168	8.1	0.4	7.1	7.9	<b>8.1</b>	8.3	9
1230111	WBNoH	lake	100700	10	AU	167	7.5	0.6	5.1	7.2	<b>7.4</b>	7.6	10
1230111	WBNTOC	stream	10070004	10	CU	133	5	4.3	1	2.5	<b>3.8</b>	5.9	32
1230111	WBNTOC	lake	100700	10	AU	168	5.6	6.1	0.2	2.3	<b>3.3</b>	6.9	38
1230111	WBNTSS	stream	10070004	10	CU	39	68.1	89.5	3	13	<b>20</b>	88	340
1230111	WBNTSS	lake	10	10	RG	30	10.8	8.6	1	4	<b>9</b>	18	33
1230111	WBWaterHardness	stream	100700	10	AU	253	193.6	297.4	8	47	<b>98</b>	170	161.5
1230111	WBWaterHardness	lake	100700	10	AU	57	59.5	230.9	7	24	<b>24</b>	30	176.6
1230206	WBNDOC	stream	080102	08	AU	53	5.3	2.5		3.6	<b>5.2</b>	6.2	12
1230206	WBNDOC	lake	08	08	RG	119	5.1	2.7		4	<b>4.7</b>	5.5	22
1230206	WBNoH	stream	08010209	08	CU	365	6.8	0.6	5.2	6.5	<b>6.8</b>	7.2	9
1230206	WBNoH	lake	080102	08	AU	181	7.6	0.8	5.9	7.2	<b>7.6</b>	8.2	11.1
1230206	WBNTOC	stream	080102	08	AU	515	5.7	4.8	0	2.8	<b>4.1</b>	6.4	30
1230206	WBNTOC	lake	08	08	RG	3735	7	3.6	0	4.6	<b>5.9</b>	8.5	40
1230206	WBNTSS	stream	08010209	08	CU	51	1075	2585	9	28	<b>128</b>	941	15100
1230206	WBNTSS	lake	08	08	RG	1582	107.9	261.7	0	20	<b>39</b>	96	421.1
1230206	WBWaterHardness	stream	08010209	08	CU	82	32.7	34.7	4	12	<b>20</b>	41	254
1230206	WBWaterHardness	lake	08	08	RG	1080	442.3	595.2	4	70	<b>94</b>	719	364
1230517	WBNDOC	stream	02060003	02	CU	829	3.5	2		2.3	<b>3.1</b>	4	13
1230517	WBNDOC	lake	020600	02	AU	188	7.1	4.4		5	<b>7</b>	8.3	40
1230517	WBNoH	stream	02060003	02	CU	5331	7.5	0.6	0	7.2	<b>7.5</b>	7.9	10.4
1230517	WBNoH	lake	02060003	02	CU	114	7.1	0.9	6.3	6.6	<b>6.8</b>	7.2	9.9
1230517	WBNTOC	stream	02060003	02	CU	3639	11.3	20.3	0.1	2.9	<b>5.1</b>	12	320
1230517	WBNTOC	lake	020600	02	AU	398	11	34.7	0.3	6	<b>8</b>	11	687
1230517	WBNTSS	stream	020600	02	AU	2364	327.8	148.6	0	8.5	<b>29</b>	133	3266
1230517	WBNTSS	lake	02	02	RG	126	34.8	78.4	0	2	<b>3</b>	15	435
1230517	WBWaterHardness	stream	020600	02	AU	1896	460.8	141.9	0.2	34	<b>47</b>	70	1080
1230517	WBWaterHardness	lake	020600	02	AU	157	164.8	505.8	3	26	<b>36</b>	70	380
1230919	WBNDOC	stream	02020006	02	CU	109	2.9	7		1.1	<b>1.7</b>	2.6	71
1230919	WBNDOC	lake	020200	02	AU	112	3.9	2.1		2.7	<b>3.3</b>	5.1	10.3
1230919	WBNoH	stream	02020006	02	CU	5697	7.5	0.4	0.7	7.4	<b>7.5</b>	7.7	12
1230919	WBNoH	lake	02020006	02	CU	118	7.5	0.7	2.5	7.2	<b>7.5</b>	7.9	8.6
1230919	WBNTOC	stream	02020006	02	CU	41	2.5	2.4	0	0.9	<b>1.8</b>	4.1	13
1230919	WBNTOC	lake	020200	02	AU	47	4.7	4	0	2.7	<b>3.1</b>	6.2	21
1230919	WBNTSS	stream	02020006	02	CU	345	14.1	47.1	0	2	<b>4</b>	7	470
1230919	WBNTSS	lake	02	02	RG	126	34.8	78.4	0	2	<b>3</b>	15	435
1230919	WBWaterHardness	stream	02020006	02	CU	99	57.5	32.5	9	21	<b>70</b>	80	128
1230919	WBWaterHardness	lake	02	02	RG	1006	65.3	204.9	0	33	<b>42</b>	56	380
1231101	WBNDOC	stream	080102	08	AU	53	5.3	2.5		3.6	<b>5.2</b>	6.2	12
1231101	WBNDOC	lake	08	08	RG	119	5.1	2.7		4	<b>4.7</b>	5.5	22
1231101	WBNoH	stream	08010211	08	CU	214	7.5	6.6	4.6	6.7	<b>7</b>	7.3	103
1231101	WBNoH	lake	080102	08	AU	181	7.6	0.8	5.9	7.2	<b>7.6</b>	8.2	11.1
1231101	WBNTOC	stream	08010211	08	CU	25	15.8	7.5	2.2	11	<b>14.1</b>	23	28.5
1231101	WBNTOC	lake	08	08	RG	3735	7	3.6	0	4.6	<b>5.9</b>	8.5	40
1231101	WBNTSS	stream	08010211	08	CU	42	668	283.2	12	27	<b>51.5</b>	221	1830
1231101	WBNTSS	lake	08	08	RG	1582	107.9	261.7	0	20	<b>39</b>	96	421.1
1231101	WBWaterHardness	stream	08010211	08	CU	27	72.3	30.2	22	47	<b>71</b>	96	122
1231101	WBWaterHardness	lake	08	08	RG	1080	442.3	595.2	4	70	<b>94</b>	719	364
1231705	WBNDOC	stream	030502	03	AU	31	8.7	4.5		4.3	<b>8.5</b>	12	18
1231705	WBNDOC	lake	0305	03	SR	42	2.3	2.2		1.2	<b>1.4</b>	2.2	10.2
1231705	WBNoH	stream	03050201	03	CU	3946	7	0.7	3.1	6.6	<b>7.1</b>	7.5	9.5
1231705	WBNoH	lake	03050201	03	CU	1784	7.4	0.5	4.3	7.1	<b>7.5</b>	7.8	8.8
1231705	WBNTOC	stream	03050201	03	CU	983	10.3	12	1	4.3	<b>6.7</b>	11.4	108
1231705	WBNTOC	lake	03050201	03	CU	21	5.8	3.1	3.4	3.8	<b>4.1</b>	6.5	14.4
1231705	WBNTSS	stream	03050201	03	CU	125	9.5	7.6	0.5	6	<b>8</b>	11	65
1231705	WBNTSS	lake	03050201	03	CU	40	17.7	15.6	3	9	<b>13</b>	20	93
1231705	WBWaterHardness	stream	03050201	03	CU	449	253.3	983.3	8	19	<b>26</b>	49	1553
1231705	WBWaterHardness	lake	03050201	03	CU	340	18	4.6	3	15	<b>18</b>	21	31

## Appendix 6A

## STORET Water Quality Data

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
1233101	WBNDOC	stream	180701	18	AU	21	12.8	14.3		5.6	<b>9.6</b>	12	70
1233101	WBNDOC	lake	18	18	RG	299	3.3	4.7		1	<b>1.6</b>	3.7	47
1233101	BNPnH	stream	18070104	18	CU	2694	7.9	0.6	1.7	7.6	<b>8</b>	8.3	9.8
1233101	BNPnH	lake	180701	18	AU	1420	8.4	0.8	6.1	7.8	<b>8.3</b>	8.8	12.2
1233101	WBNTOC	stream	18070104	18	CU	683	19.3	36.7	0.1	5.8	<b>13.2</b>	22.2	730
1233101	WBNTOC	lake	1807	18	SR	65	16.3	63.8	1.3	4	<b>6.4</b>	11	520
1233101	WBNTSS	stream	180701	18	AU	926	470.3	1026	1	57	<b>486</b>	331	7000
1233101	WBNTSS	lake	18	18	RG	23	28.8	58.1	1	2	<b>9</b>	18	204
1233101	WBNWaterHardness	stream	18070104	18	CU	810	443.2	451.3	18	213	<b>353</b>	528	374
1233101	WBNWaterHardness	lake	180701	18	AU	22	302.9	170.5	95	170	<b>270</b>	360	760
1235205	WBNDOC	stream	11090202	11	CU	21	8.7	5		5.5	<b>6.2</b>	11	22
1235205	WBNDOC	lake	110902	11	AU	29	5.9	1.5		5	<b>5.4</b>	6.7	9.6
1235205	BNPnH	stream	11090202	11	CU	2204	8.1	0.5	0	7.9	<b>8.2</b>	8.4	10.4
1235205	BNPnH	lake	110902	11	AU	3186	7.8	0.6	0	7.5	<b>7.9</b>	8.3	10.2
1235205	WBNTOC	stream	11090202	11	CU	341	8.4	6.5	0	5	<b>5.7</b>	9.1	49.9
1235205	WBNTOC	lake	110902	11	AU	78	7.8	5.1	3.6	5	<b>5.9</b>	8.4	37.8
1235205	WBNTSS	stream	11090202	11	CU	1496	176.9	388.4	0	100	<b>361</b>	145	4464
1235205	WBNTSS	lake	11	11	RG	2106	111.6	269.6	1	40	<b>70</b>	110	761
1235205	WBNWaterHardness	stream	11090202	11	CU	149	519.8	239.4	103	335	<b>486</b>	660	139.4
1235205	WBNWaterHardness	lake	110902	11	AU	33	170.3	10.2	150	160	<b>170</b>	180	190
1236637	WBNDOC	stream	02030103	02	CU	971	4.4	1.7		3.2	<b>4.2</b>	5.2	13
1236637	WBNDOC	lake	02030103	02	CU	151	3.2	0.8		2.6	<b>3.1</b>	3.8	6.7
1236637	BNPnH	stream	02030103	02	CU	6459	7.3	0.7	0	7.1	<b>7.4</b>	7.7	11.6
1236637	BNPnH	lake	02030103	02	CU	1282	7.7	0.9	2.3	7.2	<b>7.6</b>	8.3	18.9
1236637	WBNTOC	stream	02030103	02	CU	2302	7.3	4.7	0	4.3	<b>6.1</b>	8.9	68
1236637	WBNTOC	lake	02030103	02	CU	20	2.7	1.1	0	2.2	<b>2.7</b>	3.1	6.4
1236637	WBNTSS	stream	02030103	02	CU	1343	34.8	81.4	0	8	<b>15</b>	29	997
1236637	WBNTSS	lake	020301	02	AU	31	122.6	120.5	6	17	<b>94</b>	190	435
1236637	WBNWaterHardness	stream	02030103	02	CU	292	87.1	47.1	0	46.5	<b>79.5</b>	120	230
1236637	WBNWaterHardness	lake	02030103	02	CU	241	35.3	11.7	0	32	<b>34</b>	36	150
1236652	WBNDOC	stream	011000	01	AU	294	4.5	5.1		2.5	<b>3.1</b>	4.7	48
1236652	WBNDOC	lake	011000	01	AU	36	4.8	2.3		3	<b>4.7</b>	6.4	9.6
1236652	BNPnH	stream	01100004	01	CU	778	7.4	0.5	5.5	7.1	<b>7.4</b>	7.6	10.1
1236652	BNPnH	lake	011000	01	AU	4461	7.3	1	0.9	6.7	<b>7.1</b>	7.6	11.9
1236652	WBNTOC	stream	01100004	01	CU	898	6.8	5	0.1	3.9	<b>5.3</b>	7.6	40.5
1236652	WBNTOC	lake	011000	01	AU	428	6.4	5.2	0	3.6	<b>4.8</b>	6.6	25.4
1236652	WBNTSS	stream	01100004	01	CU	132	11.1	36.8	0	1	<b>3.5</b>	7.5	310
1236652	WBNTSS	lake	01	01	RG	42	3.3	2.5	0.6	1	<b>3</b>	4	14
1236652	WBNWaterHardness	stream	01100004	01	CU	52	88.2	17.5	51	73	<b>91.5</b>	100	120
1236652	WBNWaterHardness	lake	011000	01	AU	38	95.9	25.5	19	88	<b>100</b>	110	130
1236732	WBNDOC	stream	050500	05	AU	255	1.9	1.5		0.9	<b>1.5</b>	2.2	12
1236732	WBNDOC	lake	05	05	RG	575	4	3		2.1	<b>3.2</b>	4.7	19
1236732	BNPnH	stream	05050004	05	CU	1298	7.3	0.6	4.4	7	<b>7.4</b>	7.7	9.4
1236732	BNPnH	lake	050500	05	AU	12961	6.6	0.7	0.7	6.1	<b>6.6</b>	7.1	9.9
1236732	WBNTOC	stream	05050004	05	CU	396	8.6	6	1	5	<b>7</b>	11	50
1236732	WBNTOC	lake	050500	05	AU	870	2.1	2.6	0.9	1	<b>1</b>	2	52
1236732	WBNTSS	stream	05050004	05	CU	1479	416.6	834.7	0	29	<b>136</b>	464	1020
1236732	WBNTSS	lake	05050004	05	CU	1479	416.6	834.7	0	29	<b>136</b>	464	1020
1236732	WBNWaterHardness	stream	05050004	05	CU	267	75.8	38.6	20	56	<b>68</b>	84	280
1236732	WBNWaterHardness	lake	050500	05	AU	962	34.5	24.6	0.5	18	<b>24</b>	49	175
1236810	WBNDOC	stream	180701	18	AU	21	12.8	14.3		5.6	<b>9.6</b>	12	70
1236810	WBNDOC	lake	18	18	RG	299	3.3	4.7		1	<b>1.6</b>	3.7	47
1236810	BNPnH	stream	18070106	18	CU	1457	8.1	0.5	5.7	7.8	<b>8.1</b>	8.3	10.5
1236810	BNPnH	lake	18070106	18	CU	1330	8.4	0.8	6.1	7.9	<b>8.4</b>	8.8	12.2
1236810	WBNTOC	stream	18070106	18	CU	439	15.8	25.2	1	7.3	<b>11.5</b>	17	473
1236810	WBNTOC	lake	1807	18	SR	65	16.3	63.8	1.3	4	<b>6.4</b>	11	520
1236810	WBNTSS	stream	180701	18	AU	926	470.3	1026	1	57	<b>486</b>	331	7000
1236810	WBNTSS	lake	18	18	RG	23	28.8	58.1	1	2	<b>9</b>	18	204

## Appendix 6A

## STORET Water Quality Data

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
1236810	WBNWaterHardness	stream	18070106	18	CU	637	256.9	133.9	13	162	<b>228</b>	344	752
1236810	WBNWaterHardness	lake	180701	18	AU	22	302.9	170.5	95	170	<b>270</b>	360	760
1236820	WBNDOC	stream	02050106	02	CU	20	3.8	3.3		2.1	<b>2.7</b>	4.8	13.6
1236820	WBNDOC	lake	020501	02	AU	36	3.7	1.5		2.9	<b>3.6</b>	4.9	6.4
1236820	WBNNpH	stream	02050106	02	CU	1945	7.3	0.9	0.7	6.9	<b>7.3</b>	7.8	11
1236820	WBNNpH	lake	020501	02	AU	206	7.8	0.7	5.8	7.5	<b>8.1</b>	8.4	9.4
1236820	WBNTOC	stream	02050106	02	CU	898	2.9	1.4	1	1.9	<b>2.6</b>	3.6	11.6
1236820	WBNTOC	lake	020501	02	AU	25	7	3.4	2.3	5.7	<b>6.5</b>	7.5	21
1236820	WBNTSS	stream	02050106	02	CU	197	50.8	112.4	1	5	<b>12</b>	50	889
1236820	WBNTSS	lake	02	02	RG	126	34.8	78.4	0	2	<b>3</b>	15	435
1236820	WBNWaterHardness	stream	02050106	02	CU	664	59.6	29.4	10	38	<b>51</b>	82.5	142
1236820	WBNWaterHardness	lake	02	02	RG	1006	65.3	204.9	0	33	<b>42</b>	56	380
1331103	WBNDOC	stream	031501	03	AU	169	1.5	1.1		0.7	<b>1.2</b>	2	7.3
1331103	WBNDOC	lake	031501	03	AU	443	2.2	0.8		2	<b>2</b>	2.1	9.1
1331103	WBNNpH	stream	03150106	03	CU	15774	7.2	1	1.4	7	<b>7.2</b>	7.4	76.5
1331103	WBNNpH	lake	03150106	03	CU	46	6.6	0.2	6.5	6.5	<b>6.5</b>	6.5	7
1331103	WBNTOC	stream	03150106	03	CU	66	13.7	8.8	3.6	9	<b>11</b>	17	52
1331103	WBNTOC	lake	031501	03	AU	715	2.8	2	0.4	2	<b>2</b>	3	28
1331103	WBNTSS	stream	031501	03	AU	2160	105.3	189	1	15	<b>41</b>	113	287
1331103	WBNTSS	lake	03	03	RG	501	123.3	208.8	0	2	<b>8</b>	168	106.2
1331103	WBNWaterHardness	stream	03150106	03	CU	330	84.4	30	24	61	<b>82</b>	106	250
1331103	WBNWaterHardness	lake	03	03	RG	5668	52	69.3	0	14	<b>24</b>	67	106
1333001	WBNDOC	stream	03040201	03	CU	24	6.2	2.7		4.1	<b>5.7</b>	8.2	13
1333001	WBNDOC	lake	03	03	RG	2814	5.8	7.6		2	<b>3</b>	6.1	97
1333001	WBNNpH	stream	03040201	03	CU	9285	6.4	0.6	1	6.1	<b>6.5</b>	6.8	11.3
1333001	WBNNpH	lake	03040201	03	CU	639	6.1	0.9	3.3	5.5	<b>6.1</b>	6.6	9.5
1333001	WBNTOC	stream	03040201	03	CU	889	8.5	5.5	0.2	5.3	<b>7.3</b>	10.4	55.3
1333001	WBNTOC	lake	03040201	03	CU	153	6.8	2.8	2.9	4.6	<b>6.2</b>	8.5	16
1333001	WBNTSS	stream	03040201	03	CU	296	24.4	16.3	1	15	<b>21</b>	32	147
1333001	WBNTSS	lake	03	03	RG	501	123.3	208.8	0	2	<b>8</b>	168	106.2
1333001	WBNWaterHardness	stream	03040201	03	CU	159	19	8.5	4	14	<b>18</b>	23	50
1333001	WBNWaterHardness	lake	030402	03	AU	33	19.5	10.8	4	12	<b>20</b>	23	60
1333701	WBNDOC	stream	050301	05	AU	146	4.7	6.5		1.8	<b>3.5</b>	5.7	72
1333701	WBNDOC	lake	05	05	RG	575	4	3		2.1	<b>3.2</b>	4.7	19
1333701	WBNNpH	stream	05030103	05	CU	2877	7.5	3.7	3.2	7.1	<b>7.4</b>	7.8	205
1333701	WBNNpH	lake	05030103	05	CU	2468	7.5	0.6	5	7.2	<b>7.5</b>	7.8	9.5
1333701	WBNTOC	stream	05030103	05	CU	750	9.2	6.7	0	6	<b>8</b>	11	110
1333701	WBNTOC	lake	05030103	05	CU	28	6.7	2.4	3	5	<b>6.7</b>	7.7	15
1333701	WBNTSS	stream	050301	05	AU	2180	359.5	103.4	0	16	<b>59</b>	258	1560
1333701	WBNTSS	lake	050301	05	AU	2180	359.5	103.4	0	16	<b>59</b>	258	1560
1333701	WBNWaterHardness	stream	05030103	05	CU	822	185	66.2	12	146	<b>170</b>	208	670
1333701	WBNWaterHardness	lake	05030103	05	CU	1290	132.7	45.7	0.1	91	<b>134</b>	159	657
1415407	WBNDOC	stream	150601	15	AU	38	3.3	1.9		1.4	<b>3</b>	4.7	8.6
1415407	WBNDOC	lake	150601	15	AU	48	4	0.6		3.6	<b>3.9</b>	4.6	5.2
1415407	WBNNpH	stream	15060106	15	CU	699	7.9	0.5	5.8	7.6	<b>8</b>	8.3	9.3
1415407	WBNNpH	lake	15060106	15	CU	694	8.2	0.4	6.9	8	<b>8.3</b>	8.5	8.9
1415407	WBNTOC	stream	15060106	15	CU	119	92.4	469.5	2.2	5.9	<b>20</b>	55	500
1415407	WBNTOC	lake	150601	15	AU	48	4.4	0.7	3.1	3.9	<b>4.3</b>	4.9	5.9
1415407	WBNTSS	stream	15060106	15	CU	235	11.8	40.9	0	2	<b>4</b>	8	478
1415407	WBNTSS	lake	15060106	15	CU	235	11.8	40.9	0	2	<b>4</b>	8	478
1415407	WBNWaterHardness	stream	15060106	15	CU	33	210.9	62.7	147	180	<b>188</b>	231	398
1415407	WBNWaterHardness	lake	15	15	RG	177	119.3	335.2	22	128	<b>189</b>	419	1800
1421506	WBNDOC	stream	17110012	17	CU	791	10.6	10.6		4.7	<b>7.2</b>	13	120
1421506	WBNDOC	lake	171100	17	AU	81	1.8	2		0.4	<b>1.1</b>	2.5	10
1421506	WBNNpH	stream	17110012	17	CU	3757	7.1	0.5	2.3	6.8	<b>7.2</b>	7.5	9.2
1421506	WBNNpH	lake	17110012	17	CU	1878	7.7	0.7	5.4	7.2	<b>7.5</b>	8.1	10.6
1421506	WBNTOC	stream	171100	17	AU	288	3.6	4.4	0	1.1	<b>2</b>	5	41
1421506	WBNTOC	lake	171100	17	AU	471	6.2	3.6	0	3.9	<b>5</b>	7.9	34

## Appendix 6A

## STORET Water Quality Data

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
1421506	WBNTSS	stream	17110012	17	CU	752	100.5	364.9	0	8	<b>14</b>	36.5	471
1421506	WBNTSS	lake	17	17	RG	119	90.6	637.9	1	2	<b>7</b>	13	577
1421506	WBNWaterHardness	stream	171100	17	AU	918	47.5	43.2	2	26	<b>38</b>	52	563
1421506	WBNWaterHardness	lake	17	17	RG	885	60.5	80.4	1	20	<b>42</b>	80	900
1430107	WBNDOC	stream	110300	11	AU	45	87.8	550.7		3.9	<b>4.6</b>	6.8	370
1430107	WBNDOC	lake	11	11	RG	447	8.4	8.2		3.2	<b>5.1</b>	12	49
1430107	WBNpH	stream	11030013	11	CU	1628	8	0.5	6.4	7.7	<b>8</b>	8.3	9.6
1430107	WBNpH	lake	110300	11	AU	134	8	0.5	6.8	7.6	<b>8</b>	8.2	9.9
1430107	WBNTOC	stream	11030013	11	CU	64	13.3	8.5	0.3	7.1	<b>11</b>	18.5	44.5
1430107	WBNTOC	lake	110300	11	AU	24	7.6	4.7	3.5	4.8	<b>5.8</b>	9.8	25
1430107	WBNTSS	stream	11030013	11	CU	279	718	107	5	72	<b>199</b>	106	713
1430107	WBNTSS	lake	11	11	RG	2106	111.6	269.6	1	40	<b>70</b>	110	761
1430107	WBNWaterHardness	stream	11030013	11	CU	444	251.9	86.1	38	196	<b>255</b>	312	539
1430107	WBNWaterHardness	lake	11030013	11	CU	20	135.8	62.8	64	80	<b>134</b>	155	280
1430404	WBNDOC	stream	051202	05	AU	201	8	13		3.8	<b>5.7</b>	8.5	130
1430404	WBNDOC	lake	05	05	RG	575	4	3		2.1	<b>3.2</b>	4.7	19
1430404	WBNpH	stream	05120201	05	CU	5522	10.9	14.5	1.4	7.5	<b>7.8</b>	8.1	93
1430404	WBNpH	lake	05120201	05	CU	77	8.1	0.5	6.7	7.8	<b>8.3</b>	8.5	9
1430404	WBNTOC	stream	05120201	05	CU	790	7	3.5	0	4.8	<b>6.3</b>	8.4	31
1430404	WBNTOC	lake	051202	05	AU	479	3.6	3	0	2	<b>3</b>	4	55
1430404	WBNTSS	stream	05120201	05	CU	541	116.8	224.8	1	24	<b>49</b>	102	299
1430404	WBNTSS	lake	05120201	05	CU	541	116.8	224.8	1	24	<b>49</b>	102	299
1430404	WBNWaterHardness	stream	05120201	05	CU	1448	312.1	88.2	32	275	<b>318</b>	350	288
1430404	WBNWaterHardness	lake	051202	05	AU	380	80.3	46.8	0.5	51	<b>66</b>	95	315
1430602	WBNDOC	stream	18050003	18	CU	415	5.2	4.1		3	<b>4.1</b>	6.2	38
1430602	WBNDOC	lake	18	18	RG	299	3.3	4.7		1	<b>1.6</b>	3.7	47
1430602	WBNpH	stream	18050003	18	CU	1797	8	0.4	5.9	7.8	<b>8</b>	8.2	9.6
1430602	WBNpH	lake	18050003	18	CU	2654	7.9	0.5	0	7.6	<b>7.9</b>	8.2	10
1430602	WBNTOC	stream	18050003	18	CU	65	8.3	12.6	0	3.6	<b>4.7</b>	6.5	77
1430602	WBNTOC	lake	18	18	RG	379	9.5	27	1	4.2	<b>7</b>	10	520
1430602	WBNTSS	stream	18050003	18	CU	213	321.8	572.4	1	185	<b>783</b>	370	4440
1430602	WBNTSS	lake	18	18	RG	23	28.8	58.1	1	2	<b>9</b>	18	204
1430602	WBNWaterHardness	stream	18050003	18	CU	144	175.7	96.9	28	126	<b>150</b>	210	100
1430602	WBNWaterHardness	lake	18050003	18	CU	139	122.1	41.3	11	95	<b>120</b>	147	310
1431515	WBNDOC	stream	16020204	16	CU	365	12.7	15.8		6.5	<b>9.5</b>	14	200
1431515	WBNDOC	lake	16	16	RG	239	2.7	4.5		1	<b>1.6</b>	2.6	38
1431515	WBNpH	stream	16020204	16	CU	5406	8	0.6	1.5	7.7	<b>8</b>	8.3	11.7
1431515	WBNpH	lake	16020204	16	CU	50	7.9	0.6	6.6	7.5	<b>8.1</b>	8.3	9.1
1431515	WBNTOC	stream	16020204	16	CU	1129	9.9	11	0	3.1	<b>7.2</b>	12	139
1431515	WBNTOC	lake	160202	16	AU	568	4.6	3.7	0	2.6	<b>3.3</b>	5	33.2
1431515	WBNTSS	stream	16020204	16	CU	617	1E+11	3E+12	1	18	<b>49</b>	120	7E+13
1431515	WBNTSS	lake	16	16	RG	35	20	47.4	0	0	<b>1</b>	3	169
1431515	WBNWaterHardness	stream	16020204	16	CU	801	110.2	430.2	40	218	<b>340</b>	472	8300
1431515	WBNWaterHardness	lake	160202	16	AU	467	223.9	116.2	7	158	<b>193</b>	270	911
1434022	WBNDOC	stream	180701	18	AU	21	12.8	14.3		5.6	<b>9.6</b>	12	70
1434022	WBNDOC	lake	18	18	RG	299	3.3	4.7		1	<b>1.6</b>	3.7	47
1434022	WBNpH	stream	18070104	18	CU	2694	7.9	0.6	1.7	7.6	<b>8</b>	8.3	9.8
1434022	WBNpH	lake	180701	18	AU	1420	8.4	0.8	6.1	7.8	<b>8.3</b>	8.8	12.2
1434022	WBNTOC	stream	18070104	18	CU	683	19.3	36.7	0.1	5.8	<b>13.2</b>	22.2	730
1434022	WBNTOC	lake	1807	18	SR	65	16.3	63.8	1.3	4	<b>6.4</b>	11	520
1434022	WBNTSS	stream	180701	18	AU	926	470.3	1026	1	57	<b>486</b>	331	7000
1434022	WBNTSS	lake	18	18	RG	23	28.8	58.1	1	2	<b>9</b>	18	204
1434022	WBNWaterHardness	stream	18070104	18	CU	810	443.2	451.3	18	213	<b>353</b>	528	374
1434022	WBNWaterHardness	lake	180701	18	AU	22	302.9	170.5	95	170	<b>270</b>	360	760
1434802	WBNDOC	stream	030501	03	AU	262	4.8	5.4		1	<b>3.5</b>	6.8	45
1434802	WBNDOC	lake	030501	03	AU	42	2.3	2.2		1.2	<b>1.4</b>	2.2	10.2
1434802	WBNpH	stream	03050110	03	CU	11195	6.9	1.1	0.3	6.4	<b>6.8</b>	7.3	69
1434802	WBNpH	lake	030501	03	AU	25349	7.2	0.9	0	6.7	<b>7.1</b>	7.6	72

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
1434802	WBNTOC	stream	03050110	03	CU	1281	10.4	13.6	0.1	3.6	<b>6</b>	11	123
1434802	WBNTOC	lake	030501	03	AU	1069	4.9	3.4	0	2.8	<b>4.1</b>	6	29.2
1434802	WBNTSS	stream	03050110	03	CU	52	51.3	57.3	7	30.5	<b>39</b>	51.5	401
1434802	WBNTSS	lake	0305	03	SR	40	17.7	15.6	3	9	<b>13</b>	20	93
1434802	WBNWaterHardness	stream	03050110	03	CU	164	34.2	130.4	3	10	<b>14</b>	18	100
1434802	WBNWaterHardness	lake	030501	03	AU	1825	22.7	17.2	1	15	<b>19</b>	24	207
1435317	WBNDOC	stream	12	12	RG	1137	6.6	5.1		3.8	<b>5.5</b>	8.6	66
1435317	WBNDOC	lake	12	12	RG	230	9.7	3.3		7.4	<b>9.4</b>	12	20
1435317	WBNpH	stream	12020003	12	CU	2171	7	0.6	5	6.6	<b>6.9</b>	7.4	9.1
1435317	WBNpH	lake	12020003	12	CU	221	6.7	0.4	5.8	6.5	<b>6.7</b>	7	7.6
1435317	WBNTOC	stream	12020003	12	CU	656	10.5	5.8	0.1	7	<b>9</b>	13	48
1435317	WBNTOC	lake	12020003	12	CU	47	9.6	4	3	7	<b>8</b>	14	22
1435317	WBNTSS	stream	12020003	12	CU	211	46.5	32.9	11	25	<b>37</b>	57	190
1435317	WBNTSS	lake	12020003	12	CU	211	46.5	32.9	11	25	<b>37</b>	57	190
1435317	WBNWaterHardness	stream	12020003	12	CU	59	34.2	13	17	28	<b>30</b>	38	100
1435317	WBNWaterHardness	lake	12020003	12	CU	35	33.6	7.1	27	29	<b>31</b>	40	49
1522504	WBNDOC	stream	02040205	02	CU	1164	11.4	189.2		3.4	<b>5</b>	7	645.3
1522504	WBNDOC	lake	02040205	02	CU	24	6	2.4		4	<b>5</b>	8	11
1522504	WBNpH	stream	02040205	02	CU	10418	7.5	7.6	0.7	7.1	<b>7.4</b>	7.7	776
1522504	WBNpH	lake	02040205	02	CU	244	7.1	0.7	5.5	6.6	<b>7.1</b>	7.5	9.7
1522504	WBNTOC	stream	02040205	02	CU	2762	6.9	30.3	0	3.2	<b>5</b>	8	151.7
1522504	WBNTOC	lake	02040205	02	CU	36	8.4	3.1	3	6	<b>9</b>	11	14
1522504	WBNTSS	stream	02040205	02	CU	652	181.4	403.9	0	4	<b>13</b>	160	489
1522504	WBNTSS	lake	02	02	RG	126	34.8	78.4	0	2	<b>3</b>	15	435
1522504	WBNWaterHardness	stream	02040205	02	CU	3890	132.6	278.9	0	66	<b>88</b>	110	500
1522504	WBNWaterHardness	lake	02040205	02	CU	169	48.4	26.6	4	38	<b>44</b>	52	222
1530605	WBNDOC	stream	120402	12	AU	21	13.3	7.8		8.4	<b>11</b>	14	32
1530605	WBNDOC	lake	1204	12	SR	226	9.7	3.1		7.5	<b>9.4</b>	12	20
1530605	WBNpH	stream	12040201	12	CU	2231	7.5	0.9	5.6	7.2	<b>7.5</b>	7.8	42
1530605	WBNpH	lake	1204	12	SR	5564	7.3	0.6	5.6	6.9	<b>7.2</b>	7.7	9.8
1530605	WBNTOC	stream	12040201	12	CU	393	10.2	4.5	1.4	6.8	<b>9.6</b>	13	42
1530605	WBNTOC	lake	1204	12	SR	1071	12.7	8.7	0	9	<b>12</b>	15	210
1530605	WBNTSS	stream	120402	12	AU	199	167.1	421.5	0	30	<b>48</b>	101	342
1530605	WBNTSS	lake	120402	12	AU	199	167.1	421.5	0	30	<b>48</b>	101	342
1530605	WBNWaterHardness	stream	12040201	12	CU	23	643.6	104	23	112	<b>150</b>	600	390
1530605	WBNWaterHardness	lake	1204	12	SR	90	60.6	23.6	29	42	<b>59</b>	67	160
1530808	WBNDOC	stream	04090004	04	CU	54	3.8	2.4		1.9	<b>3.1</b>	5.9	8.6
1530808	WBNDOC	lake	04	04	RG	18570	2.5	1.8		1.9	<b>2.1</b>	2.6	36
1530808	WBNpH	stream	04090004	04	CU	6101	8	0.3	6.1	7.8	<b>8</b>	8.2	9.5
1530808	WBNpH	lake	04090004	04	CU	60	8.1	0.3	7.2	7.9	<b>8.1</b>	8.2	8.8
1530808	WBNTOC	stream	04090004	04	CU	2331	4.1	4.1	0.5	2.1	<b>2.6</b>	5	114
1530808	WBNTOC	lake	040900	04	AU	90	10.8	5.6	0	6.1	<b>10.3</b>	15	24.1
1530808	WBNTSS	stream	04090004	04	CU	171	55.4	84.6	1	10	<b>21</b>	56	474
1530808	WBNTSS	lake	04	04	RG	39	14.4	40.9	0	4	<b>6</b>	12	259
1530808	WBNWaterHardness	stream	04090004	04	CU	1650	109.5	24.9	90	102	<b>105</b>	109	355
1530808	WBNWaterHardness	lake	04	04	RG	1554	114.3	91.8	3	24	<b>100</b>	163	757
1532401	WBNDOC	stream	02	02	RG	32189	4.7	40.1		2.6	<b>3.5</b>	5	645.3
1532401	WBNDOC	lake	020100	02	AU	67	4.4	2.4		3	<b>3.7</b>	5.4	14.3
1532401	WBNpH	stream	02010002	02	CU	411	7.6	0.9	2.9	7.5	<b>7.8</b>	8	9.3
1532401	WBNpH	lake	02010002	02	CU	404	7.5	0.8	4.6	7.3	<b>7.6</b>	8	9.1
1532401	WBNTOC	stream	020100	02	AU	46	8.2	15.2	0.4	2.8	<b>4</b>	8.2	100
1532401	WBNTOC	lake	020100	02	AU	168	4.5	3.6	1	3	<b>3.6</b>	5	28
1532401	WBNTSS	stream	02010002	02	CU	62	11.2	12.7	0	4	<b>7.5</b>	12	77
1532401	WBNTSS	lake	020100	02	AU	84	6.6	13.5	0	1	<b>2</b>	6	73
1532401	WBNWaterHardness	stream	020100	02	AU	107	52.6	23.1	8	37	<b>56</b>	64	152
1532401	WBNWaterHardness	lake	020100	02	AU	21	53.4	5	40	51	<b>52</b>	56	63
1621808	WBNDOC	stream	031300	03	AU	1704	4.5	3.3		2.3	<b>3.8</b>	6	27
1621808	WBNDOC	lake	031300	03	AU	1459	3.5	3.7		1.2	<b>2.7</b>	4.4	87.4

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
1621808	WBNpH	stream	03130005	03	CU	2776	7	0.3	5.4	6.8	<b>7</b>	7.1	9.6
1621808	WBNpH	lake	031300	03	AU	7111	6.8	0.9	4.2	6.2	<b>6.6</b>	7.2	10.6
1621808	WBNTOC	stream	03130005	03	CU	2781	6	4.7	0.7	4	<b>5</b>	7	155
1621808	WBNTOC	lake	031300	03	AU	2073	4.6	3.1	0	2.7	<b>4.1</b>	5.9	26.2
1621808	WBNTSS	stream	03130005	03	CU	257	134.8	206.3	4	20	<b>65</b>	165	203.3
1621808	WBNTSS	lake	03	03	RG	501	123.3	208.8	0	2	<b>8</b>	168	106.2
1621808	WBNWaterHardness	stream	03130005	03	CU	42	38.6	22.6	0.2	21	<b>33</b>	54	86
1621808	WBNWaterHardness	lake	031300	03	AU	57	21.5	20.9	1	4	<b>16</b>	30	80
1630106	WBNDOC	stream	06010202	06	CU	89	1.6	1.4		0.6	<b>1.2</b>	2	6.3
1630106	WBNDOC	lake	0601	06	SR	28	2.3	2.6		1.2	<b>1.5</b>	2.6	14.9
1630106	WBNpH	stream	06010202	06	CU	4078	6.5	0.6	1	6.1	<b>6.5</b>	6.9	9.1
1630106	WBNpH	lake	06010202	06	CU	905	6.8	0.8	1	6.3	<b>6.6</b>	7.3	9.2
1630106	WBNTOC	stream	06010202	06	CU	118	4.3	4.1	0.4	1.2	<b>2</b>	10	20
1630106	WBNTOC	lake	06	06	RG	66	4.2	4.6	1	1.9	<b>2.8</b>	4.6	33
1630106	WBNTSS	stream	06010202	06	CU	113	96.1	175	0	5	<b>16</b>	76	826
1630106	WBNTSS	lake	06010202	06	CU	113	96.1	175	0	5	<b>16</b>	76	826
1630106	WBNWaterHardness	stream	06010202	06	CU	196	8.9	10.2	2	6	<b>8</b>	11	141
1630106	WBNWaterHardness	lake	060102	06	AU	36	10	3.7	2	8	<b>8.5</b>	12.5	18
1630401	WBNDOC	stream	06010201	06	CU	308	2.1	1.1		1.5	<b>1.9</b>	2.4	8.3
1630401	WBNDOC	lake	0601	06	SR	28	2.3	2.6		1.2	<b>1.5</b>	2.6	14.9
1630401	WBNpH	stream	06010201	06	CU	36124	7.4	0.4	1	7.2	<b>7.3</b>	7.5	10
1630401	WBNpH	lake	06010201	06	CU	139	7.7	0.3	7.3	7.6	<b>7.7</b>	7.8	9.1
1630401	WBNTOC	stream	06010201	06	CU	1100	3.6	6.6	0	2	<b>2.4</b>	3.4	190
1630401	WBNTOC	lake	06	06	RG	66	4.2	4.6	1	1.9	<b>2.8</b>	4.6	33
1630401	WBNTSS	stream	06010201	06	CU	284	60.8	131.5	0.3	4	<b>9</b>	48	966
1630401	WBNTSS	lake	06010201	06	CU	284	60.8	131.5	0.3	4	<b>9</b>	48	966
1630401	WBNWaterHardness	stream	06010201	06	CU	296	78.9	66.4	5	60	<b>72</b>	83.5	107.7
1630401	WBNWaterHardness	lake	060102	06	AU	36	10	3.7	2	8	<b>8.5</b>	12.5	18
1631701	WBNDOC	stream	03020104	03	CU	53	32.1	20.4		21	<b>28</b>	41	92
1631701	WBNDOC	lake	03	03	RG	2814	5.8	7.6		2	<b>3</b>	6.1	97
1631701	WBNpH	stream	03020104	03	CU	827	5.9	1.4	0	4.9	<b>6.3</b>	6.9	9.1
1631701	WBNpH	lake	03020104	03	CU	98	6.3	1	3.5	6	<b>6.3</b>	6.8	8.5
1631701	WBNTOC	stream	03020104	03	CU	40	37.5	21.1	6.8	15.5	<b>40.5</b>	52	83
1631701	WBNTOC	lake	0302	03	SR	1830	8.5	2.5	3	7	<b>8</b>	10	24
1631701	WBNTSS	stream	03020104	03	CU	922	48.4	151.9	0	8	<b>16</b>	34	244
1631701	WBNTSS	lake	03	03	RG	501	123.3	208.8	0	2	<b>8</b>	168	106.2
1631701	WBNWaterHardness	stream	03020104	03	CU	39	47.9	114.9	6	12	<b>20</b>	32	670
1631701	WBNWaterHardness	lake	0302	03	SR	44	31.3	28.3	10	18.5	<b>24</b>	30	150
1632106	WBNDOC	stream	13030102	13	CU	155	4.4	2.6		3.3	<b>3.7</b>	4.5	30
1632106	WBNDOC	lake	13030102	13	CU	155	4.4	2.6		3.3	<b>3.7</b>	4.5	30
1632106	WBNpH	stream	13030102	13	CU	1522	8.7	21.5	6.6	7.9	<b>8.2</b>	8.4	848
1632106	WBNpH	lake	13	13	RG	4649	7.8	0.9	3.4	7.6	<b>8</b>	8.3	10.5
1632106	WBNTOC	stream	13030102	13	CU	489	7.5	6	1	5	<b>6</b>	8.7	61
1632106	WBNTOC	lake	13	13	RG	722	7.2	18.9	0.3	3	<b>4</b>	6	200
1632106	WBNTSS	stream	13030102	13	CU	290	503.1	116.7	15	99	<b>189</b>	460	1160
1632106	WBNTSS	lake	13030102	13	CU	290	503.1	116.7	15	99	<b>189</b>	460	1160
1632106	WBNWaterHardness	stream	13030102	13	CU	100	331.4	109	180	250	<b>270</b>	460	520
1632106	WBNWaterHardness	lake	13	13	RG	82	481.1	551.8	86	155	<b>240</b>	430	240
1632703	WBNDOC	stream	030501	03	AU	262	4.8	5.4		1	<b>3.5</b>	6.8	45
1632703	WBNDOC	lake	030501	03	AU	42	2.3	2.2		1.2	<b>1.4</b>	2.2	10.2
1632703	WBNpH	stream	03050108	03	CU	2110	6.7	0.4	3.9	6.5	<b>6.7</b>	6.9	9
1632703	WBNpH	lake	030501	03	AU	25349	7.2	0.9	0	6.7	<b>7.1</b>	7.6	72
1632703	WBNTOC	stream	03050108	03	CU	146	5	6.9	0.8	2.1	<b>3.2</b>	5	68.6
1632703	WBNTOC	lake	030501	03	AU	1069	4.9	3.4	0	2.8	<b>4.1</b>	6	29.2
1632703	WBNTSS	stream	030501	03	AU	1124	216.8	493.8	0	8	<b>22</b>	124	560
1632703	WBNTSS	lake	0305	03	SR	40	17.7	15.6	3	9	<b>13</b>	20	93
1632703	WBNWaterHardness	stream	03050108	03	CU	25	58.7	108.3	8	10	<b>13</b>	20	400
1632703	WBNWaterHardness	lake	030501	03	AU	1825	22.7	17.2	1	15	<b>19</b>	24	207

Siteld	Variable_Name	Index	HUC	reg	statbas	n	mean	stddev	min	p25	p50	p75	max
1633404	WBNDOC	stream	15070102	15	CU	240	3.5	2.1	1.9	<b>2.8</b>	4.9	13	
1633404	WBNDOC	lake	15	15	RG	54	4.2	0.8	3.6	<b>4</b>	4.7	6.7	
1633404	WBNpH	stream	15070102	15	CU	597	8.2	1.9	5.6	7.9	<b>8.1</b>	8.4	40
1633404	WBNpH	lake	15070102	15	CU	140	8.1	0.5	6.5	7.8	<b>8.2</b>	8.4	9.2
1633404	WBNTOC	stream	15070102	15	CU	29	101.2	141.3	0.1	13	<b>37</b>	110	520
1633404	WBNTOC	lake	150701	15	AU	39	12.1	9.9	5	6	<b>8</b>	14	42
1633404	WBNTSS	stream	15070102	15	CU	342	763.7	288.4	0	4	<b>12.5</b>	50	2940
1633404	WBNTSS	lake	15070102	15	CU	342	763.7	288.4	0	4	<b>12.5</b>	50	2940
1633404	WBNWaterHardness	stream	15070102	15	CU	42	225.9	123.1	77	160	<b>210</b>	255	850
1633404	WBNWaterHardness	lake	150701	15	AU	35	194.5	29.5	148	180	<b>192</b>	220	284
1633405	WBNDOC	stream	01100005	01	CU	90	5.2	7.5		2.6	<b>3.1</b>	4.9	48
1633405	WBNDOC	lake	011000	01	AU	36	4.8	2.3		3	<b>4.7</b>	6.4	9.6
1633405	WBNpH	stream	01100005	01	CU	21817	7.2	1.5	0.9	6.7	<b>7.1</b>	7.7	90
1633405	WBNpH	lake	01100005	01	CU	2666	7.2	0.8	0.9	6.7	<b>7.1</b>	7.6	9.9
1633405	WBNTOC	stream	01100005	01	CU	2215	6.1	4.5	0	3.8	<b>5</b>	7	48.8
1633405	WBNTOC	lake	01100005	01	CU	397	6.5	5.4	0	3.5	<b>4.7</b>	6.9	25.4
1633405	WBNTSS	stream	01100005	01	CU	2518	43	123.6	0.1	5	<b>12</b>	33	340
1633405	WBNTSS	lake	01	01	RG	42	3.3	2.5	0.6	1	<b>3</b>	4	14
1633405	WBNWaterHardness	stream	01100005	01	CU	298	121.7	311.7	9	36	<b>51.5</b>	110	280
1633405	WBNWaterHardness	lake	01100005	01	CU	36	100.2	18.3	36	91.5	<b>100</b>	110	130
1635404	WBNDOC	stream	030601	03	AU	146	2.5	2.2		1	<b>1.9</b>	3.4	12
1635404	WBNDOC	lake	030601	03	AU	42	6.8	20.5		1	<b>1.3</b>	3.4	97
1635404	WBNpH	stream	03060101	03	CU	2024	6.9	0.5	4.2	6.6	<b>6.9</b>	7.1	9.5
1635404	WBNpH	lake	03060101	03	CU	1841	7	0.6	5.3	6.6	<b>6.9</b>	7.3	10
1635404	WBNTOC	stream	03060101	03	CU	345	3	2.5	0.4	1.5	<b>2.1</b>	3.5	15.8
1635404	WBNTOC	lake	03060101	03	CU	511	3.4	3.4	0.8	1.5	<b>2.3</b>	4.3	47.2
1635404	WBNTSS	stream	030601	03	AU	1012	87.1	139.5	0	7	<b>20.5</b>	113	105.7
1635404	WBNTSS	lake	03	03	RG	501	123.3	208.8	0	2	<b>8</b>	168	106.2
1635404	WBNWaterHardness	stream	03060101	03	CU	50	7.4	3.9	2	5	<b>6</b>	9	20
1635404	WBNWaterHardness	lake	03060101	03	CU	38	7.8	2.9	5	6	<b>7</b>	8	15
1721603	WBNDOC	stream	17090010	17	CU	116	3.2	2.2		1.6	<b>3.2</b>	4.1	15
1721603	WBNDOC	lake	170900	17	AU	30	3.1	2.3		1.6	<b>2.1</b>	3.4	8.2
1721603	WBNpH	stream	17090010	17	CU	23089	7.3	0.3	5.3	7.1	<b>7.3</b>	7.4	9.9
1721603	WBNpH	lake	17090010	17	CU	101	7.2	0.6	6.3	6.9	<b>7.2</b>	7.4	10
1721603	WBNTOC	stream	17090010	17	CU	1575	60.2	224.2	0	2	<b>3</b>	4.9	8900
1721603	WBNTOC	lake	170900	17	AU	98	3	1.9	0.8	2	<b>3</b>	4	15
1721603	WBNTSS	stream	17090010	17	CU	354	100.7	251.3	0.1	10	<b>22</b>	70	222.4
1721603	WBNTSS	lake	17	17	RG	119	90.6	637.9	1	2	<b>7</b>	13	577
1721603	WBNWaterHardness	stream	17090010	17	CU	263	31.6	14.2	13	22	<b>29</b>	38	106
1721603	WBNWaterHardness	lake	170900	17	AU	158	29.9	15	5	17	<b>22</b>	46	54



## Appendix 6B. STORET Temperature Data

This appendix provides, by Industrial D site, STORET temperature data used for the HWIR 3MRA analysis. These data were extracted using STORET query language by waterbody type (stream, lake) and the site-specific Hydrologic Unit Code (HUC) and then analyzed by Statistical Analysis System (SAS) software to calculate mean, standard deviation, and percentiles. Fields (columns) in the following data tables are defined as follows:

Field	Description
siteid	Industrial D Screening Survey site identification number
Index	waterbody type (stream, lake)
cu	Hydrologic Unit Code (HUC) for statbas
reg	hydrologic region
statbas	basis for statistics (RG, SR, AU, CU)
n	number of measurements
mean	arithmetic mean value
stddev	standard deviation
min	minimum value
p1	1st percentile value
p5	5th percentile value
p10	10th percentile value
p25	25th percentile value
p50	50th percentile value
p75	75th percentile value
p90	90th percentile value
p95	95th percentile value
p99	99th percentile value
max	maximum value

Although these data were collected on a regional basis, they were sent to the 3MRA system in the site-based data system. This was necessary because the data were collected on different regional scales depending on site-to-site STORET data availability, and the 3MRA system can only a single regional scale per variable. Also note that, although wetland temperature data were required by the 3MRA surface water module, STORET does not contain a waterbody type corresponding to wetlands. STORET lake data were used to represent wetland temperatures.

Median (50th percentile) values were used to represent a central tendency, or average temperature because the arithmetic mean can be biased by outlying extreme values that are common in STORET data. No attempt was made to remove outliers as evidenced by the maximum values in the following table. As can be seen in the data, the median is relatively unaffected by these values. Similarly, the 95th percentile was used to represent the "maximum" temperature for each site to avoid the unlikely (or impossible) extremes of the true maximums.

## Temperature (degrees C)

siteid	Index	cu	reg	statbas	n	mean	stddev	min	p1	p5	p10	p25	p50	p75	p90	p95	p99	max
0114001	stream	05030101	05	CU	20842	16.4	9	-3	0.1	1.5	3	8.2	<b>18</b>	24.6	27.1	<b>27.9</b>	29.7	120
0114001	lake	05030101	05	CU	40	18	5.3	8.5	8.5	9.8	11.4	13.5	<b>17.1</b>	23.1	25	<b>25.2</b>	28.3	28.3
0130207	stream	07080101	07	CU	1551	14.9	10	-0.4	0	0	0.6	5	<b>16.6</b>	23.5	26.7	<b>28</b>	32.2	71.1
0130207	lake	07080101	07	CU	1688	15.5	7	0	5.8	7	7.5	9.1	<b>13.9</b>	22.5	25.3	<b>26.5</b>	29.1	32.5
0131104	stream	07090001	07	CU	5084	14.3	8.7	-0.3	0	0.3	1	6.5	<b>16</b>	22	24.6	<b>26</b>	28.2	34
0131104	lake	07090001	07	CU	15549	13.4	9.1	-0.6	1	2.1	2.9	6.7	<b>12.1</b>	21	24.2	<b>25.7</b>	27.1	581
0131207	stream	04120104	04	CU	3689	13.3	7.8	-1	0	1	2	7	<b>14</b>	20.3	23	<b>24</b>	26	32
0131207	lake	04120104	04	CU	1464	9.9	6.7	0	0.4	1.1	1.9	4.4	<b>8.6</b>	14.8	20.5	<b>22.2</b>	23.7	26.2
0131508	stream	06010102	06	CU	69402	14.6	3.4	0	4.5	7.2	11	14	<b>14.8</b>	15.7	17	<b>19.5</b>	25.5	37
0131508	lake	06010102	06	CU	179	18.2	6	2.5	5.8	7.2	10.1	14.1	<b>18.1</b>	23.4	27	<b>28.1</b>	28.2	28.2
0136703	stream	11080006	11	CU	374	14.8	7.9	0	0	2	4	8	<b>15.5</b>	22	25	<b>26.5</b>	30	35
0136703	lake	11080006	11	CU	2505	15.1	6.6	0	3	3.9	5	10	<b>16</b>	20.5	24	<b>25</b>	27	29.2
0220102	stream	03050201	03	CU	8472	20.8	7.2	1.5	6	9	11	15	<b>21</b>	27	29	<b>30</b>	31	180
0220102	lake	03050201	03	CU	5703	19.1	7.1	5	6.2	8	9	12.8	<b>19</b>	26	28	<b>29</b>	30	32
0221207	stream	05080001	05	CU	5324	16.5	6.5	-5	0	3	6	13	<b>18</b>	21.1	23.8	<b>25</b>	27	33
0221207	lake	05080001	05	CU	1449	19.2	5.3	0	4	9	12	15.6	<b>20</b>	23.1	25	<b>26.1</b>	28	32.4
0223504	stream	05040001	05	CU	7978	17	7	-3	0.2	3	6	12.5	<b>18.5</b>	22.4	25	<b>26.3</b>	28.9	39
0223504	lake	05040001	05	CU	3232	20.2	5	5	6.2	11	12.5	17.4	<b>21.2</b>	24	25.8	<b>26.8</b>	28	30.2
0224002	stream	07040006	07	CU	539	11.6	8.7	-0.6	0	0	0	2.8	<b>11</b>	19.5	24	<b>25</b>	27.2	30
0224002	lake	07040006	07	CU	95	14.7	8	0	0	0	3.3	8.9	<b>15.3</b>	22.5	23.8	<b>25.9</b>	27.5	27.5
0231002	stream	05120201	05	CU	5654	13.9	8.3	-1	0	1	2.5	6	<b>14</b>	21.5	25	<b>26</b>	28.4	32.2
0231002	lake	05120201	05	CU	162	18.5	5.6	6	6	7.4	9.9	15.5	<b>19</b>	22.5	26	<b>26.5</b>	28	28
0231106	stream	02040201	02	CU	5958	15.4	9.3	0	0	1	3	7	<b>16</b>	23.5	26.5	<b>27.9</b>	29.5	240
0231106	lake	02040201	02	CU	148	15	8.1	0	0	2	4	7.5	<b>17</b>	21.3	25	<b>26.7</b>	29	30.1
0231407	stream	12030102	12	CU	2857	21.3	67.2	0	3	7	9	13.7	<b>20</b>	26.7	29.2	<b>30.5</b>	32	353.8
0231407	lake	12030102	12	CU	4575	21	8.3	3	6	8	9	12.5	<b>23</b>	28.1	30.3	<b>31.5</b>	34.5	41.5
0231610	stream	04040001	04	CU	7456	14.9	7.6	-16.7	0	2	4	9	<b>15</b>	21	25	<b>27</b>	29.1	34
0231610	lake	04040001	04	CU	3703	17.2	7.8	0	1	2.1	3	12.1	<b>19.2</b>	23.6	25.6	<b>26.5</b>	27.8	35.9
0231911	stream	04080206	04	CU	1496	13.9	9.1	0	0	0	1	5	<b>14.5</b>	22.5	25.5	<b>26</b>	27	29
0231911	lake	04080206	04	CU	220	17.6	6.7	4	4	5.8	8	12	<b>18.7</b>	23.5	26	<b>27</b>	29	29
0231914	stream	04090004	04	CU	8930	14.9	7.4	-1	0	1	3	9	<b>16.5</b>	21	23	<b>24</b>	27	33
0231914	lake	04090004	04	CU	123	18.7	7.6	3	4	5.5	5.5	13.1	<b>21.7</b>	25	27	<b>28</b>	29	29
0232305	stream	01080105	01	CU	501	9.9	11.8	-0.2	0	0	0	1	<b>8</b>	17	21.1	<b>23</b>	26	198
0232305	lake	01080105	01	CU	141	17	5.3	7.7	7.7	9.2	9.8	12	<b>17.5</b>	21.2	24.2	<b>24.4</b>	25.2	25.8
0232313	stream	12010002	12	CU	3980	19.2	7.5	0	3.9	7	8.9	12.9	<b>20</b>	26	28	<b>29.4</b>	31.1	38
0232313	lake	12010002	12	CU	1252	19.9	7.2	4.4	7.2	8.5	10	13.9	<b>20</b>	26.6	28.7	<b>29.9</b>	32	36.7
0232402	stream	02040205	02	CU	15211	13.5	8.5	-2	0	1	3	7	<b>13.3</b>	20	24	<b>25</b>	28	321

## Temperature (degrees C)

siteid	Index	cu	reg	statbas	n	mean	stddev	min	p1	p5	p10	p25	p50	p75	p90	p95	p99	max
0232402	lake	02040205	02	CU	386	14.9	8.6	0	0	2	3	8	<b>15</b>	22	26	<b>28</b>	30	31
0232415	stream	04110002	04	CU	6723	15.6	7.7	-1	0	2	4	10	<b>17</b>	21.5	24	<b>25.5</b>	29	150
0232415	lake	04110002	04	CU	161	16.5	6.3	4.8	4.8	7.2	8.5	11.5	<b>14.2</b>	22.5	24.5	<b>25.8</b>	26.5	26.6
0232501	stream	05030102	05	CU	1552	13.9	8.4	-1.5	0	1	2	5.5	<b>15</b>	21	24	<b>25.4</b>	29	32.9
0232501	lake	05030102	05	CU	2929	18.6	6.3	0	1.1	4.4	9.8	16.1	<b>19.8</b>	22.8	24.9	<b>25.5</b>	26.6	86
0232705	stream	03150104	03	CU	50760	17.6	6.5	-9.7	3.2	7.5	8.6	13	<b>18.3</b>	23.1	25.4	<b>26.2</b>	27.1	336.1
0232705	lake	03150104	03	CU	1586	20.1	6.3	5	5.5	8.5	11	15.5	<b>21</b>	25.5	27.3	<b>28.3</b>	30.1	32.2
0233601	stream	02070005	02	CU	10187	16.4	207.6	-0.3	0.5	2.8	4.4	8	<b>15</b>	20.5	23.9	<b>25.5</b>	28	2095
0233601	lake	02070005	02	CU	311	23.5	4.3	2.1	7	17	18	22	<b>24</b>	26.3	28	<b>28</b>	29	31
0233603	stream	03150202	03	CU	4815	18.7	7.6	0.2	4.9	7	8.9	13	<b>19.4</b>	25	27	<b>28</b>	30	230
0233603	lake	03150202	03	CU	196	21.8	15.1	4	5.5	9	11.2	15.8	<b>22</b>	27	29.1	<b>30.2</b>	31.5	210
0234904	stream	02040104	02	CU	7075	15.9	7.4	-1.5	0	1.5	3.3	11	<b>18</b>	21.6	24	<b>25</b>	27	32
0234904	lake	02040104	02	CU	66	13.6	5.6	3.7	3.7	3.9	5.6	8.7	<b>14.4</b>	17.2	20	<b>22</b>	27.9	27.9
0235301	stream	05120204	05	CU	1049	13.1	8.2	0	0	1.5	3	6	<b>13</b>	19.6	23	<b>24</b>	28.2	80
0235301	lake	05120204	05	CU	44	14.6	9	1	1	2.5	3.5	6.2	<b>14.5</b>	22.8	24.8	<b>27</b>	38	38
0312301	stream	02070005	02	CU	10187	16.4	207.6	-0.3	0.5	2.8	4.4	8	<b>15</b>	20.5	23.9	<b>25.5</b>	28	2095
0312301	lake	02070005	02	CU	311	23.5	4.3	2.1	7	17	18	22	<b>24</b>	26.3	28	<b>28</b>	29	31
0314202	stream	02020006	02	CU	1900	13	8	-1.1	0	0.4	1.7	6	<b>13</b>	20	23.5	<b>25</b>	27	29.5
0314202	lake	02020006	02	CU	117	17.7	7.5	0	0	2	6	12	<b>20.5</b>	23.2	25.8	<b>27</b>	28.5	29
0321802	stream	17080001	17	CU	35809	8.2	3.8	-0.6	1.1	3	3.8	5	<b>7.8</b>	10.8	13.3	<b>15</b>	19.1	30
0321802	lake	17080001	17	CU	63	13.5	5.5	4.2	4.2	5	5.6	9	<b>12.7</b>	18.8	21	<b>21</b>	24	24
0331006	stream	08020304	08	CU	656	17.8	8	-1	0.5	4	7	11	<b>19</b>	25	27.6	<b>29</b>	31	34
0331006	lake	080203	08	AU	231	23.5	6.7	6	6	8	12.5	20.5	<b>25.5</b>	28.5	29.5	<b>30</b>	31.5	32
0331902	stream	11100301	11	CU	1556	17.1	8.5	-1	0.1	2	5.5	9.6	<b>18</b>	24.5	27.5	<b>29</b>	33	36
0331902	lake	11100301	11	CU	1895	16.9	7.8	0	2.7	5.2	6.5	9.4	<b>17.8</b>	24	26.6	<b>27.5</b>	28.5	34.5
0332104	stream	11090106	11	CU	989	17	9.2	0	0	1.1	3.9	9.4	<b>18.1</b>	24	29	<b>31.1</b>	35	37
0332104	lake	11090106	11	CU	50	13.1	9.3	0	0	2.8	2.8	3.5	<b>12.8</b>	21.1	26.4	<b>27.8</b>	31.1	31.1
0332707	stream	03100204	03	CU	3454	22.9	5.4	7.5	12	14.1	16	19.9	<b>24</b>	26.4	28	<b>29.1</b>	30	188.7
0332707	lake	03100204	03	CU	128	24.9	4.5	14	14	16	18	22.5	<b>25</b>	28	30	<b>31</b>	34	35
0332811	stream	05060001	05	CU	16587	15.5	7.9	-2.2	0	1.5	3	8.8	<b>17.6</b>	22	24.5	<b>25.7</b>	28	34.5
0332811	lake	05060001	05	CU	6791	19.2	6	2.1	4.5	7.6	10.9	14.7	<b>20.7</b>	23.9	26	<b>26.9</b>	28.4	78.5
0430108	stream	10240006	10	CU	1139	14.8	9.7	-2	0	0	0	6	<b>16</b>	22	27	<b>30</b>	35	36
0430108	lake	102400	10	AU	2532	19.7	5.4	0	5	10.5	13	16	<b>20</b>	23.5	26	<b>27.9</b>	29.5	64
0430412	stream	04110003	04	CU	1672	14.1	8.6	-15.1	-1	0	1	7	<b>16</b>	21	24.2	<b>26</b>	30	32
0430412	lake	04110003	04	CU	280	16	7.6	0	0	1	3.7	11.6	<b>16.6</b>	22.4	24.5	<b>25.4</b>	30.6	31.2
0431912	stream	10290102	10	CU	2181	15.6	8.4	-2	0	1	3	9	<b>17</b>	22.4	26	<b>27.9</b>	30	35
0431912	lake	10290102	10	CU	3234	21.4	5.2	5.7	6.8	11.3	13.6	18.1	<b>22.5</b>	25.5	27.4	<b>28</b>	29.5	32

## Temperature (degrees C)

siteid	Index	cu	reg	statbas	n	mean	stddev	min	p1	p5	p10	p25	p50	p75	p90	p95	p99	max
0432011	stream	06030002	06	CU	27168	22.5	7.4	0	4.4	7	11.7	18.5	<b>24</b>	28	29.9	<b>30.5</b>	32	320
0432011	lake	060300	06	AU	703	22.4	5.6	3	7.5	12	14.9	18.9	<b>23.1</b>	27.1	29	<b>29.5</b>	30.2	30.7
0432106	stream	02040105	02	CU	6637	14.4	8.2	-1	0	1	2.5	7	<b>15.5</b>	21	25	<b>26</b>	29.5	38
0432106	lake	02040105	02	CU	363	15.5	6.9	0	0.5	2.5	5	10.4	<b>17.2</b>	20.3	24	<b>25.4</b>	26.5	29
0432716	stream	07010101	07	CU	1834	12.6	7.9	-12.2	0	0	0.5	6	<b>13.6</b>	19.4	22.2	<b>24</b>	26	34
0432716	lake	07010101	07	CU	9025	14.8	5.8	-12.1	2.1	4.9	6.5	10.2	<b>15.3</b>	19.8	22	<b>23</b>	24.7	35
0433201	stream	07120001	07	CU	3659	14.8	9	-2	0	0.4	1.6	6.8	<b>15.9</b>	22.4	26	<b>28</b>	29	69.4
0433201	lake	07120001	07	CU	925	18.7	7.5	0	0.8	6.4	8.1	12.3	<b>21.8</b>	24.5	26	<b>26.9</b>	35	38.5
0433204	stream	03040207	03	CU	11980	19	7	0	5	8	10	13	<b>20</b>	25	28	<b>28.5</b>	30	72
0433204	lake	030402	03	AU	1536	23.5	6.6	0	6.4	11	13	20	<b>25</b>	28	30.8	<b>32.1</b>	35	39
0433404	stream	10180011	10	CU	424	12	7.3	0	0	0.5	1	5.3	<b>13</b>	18	21	<b>23</b>	25	27
0433404	lake	101800	10	AU	719	14.1	10.9	-5	0	0	3.8	9	<b>14.4</b>	19	22.6	<b>25</b>	29.5	235
0433408	stream	10100001	10	CU	1133	10.7	8.3	0	0	0	0	2	<b>11</b>	17.5	22	<b>24</b>	27.5	33.5
0433408	lake	101000	10	AU	90	12.7	6.3	2	2	2.1	4.1	5.4	<b>14.7</b>	16.8	17.6	<b>19.2</b>	32	32
0434505	stream	18100200	18	CU	4286	21.2	5.7	2.2	9	12.2	14	17	<b>21</b>	25.5	29	<b>30.3</b>	33.5	50
0434505	lake	18100200	18	CU	148	24.8	14.2	11.3	12	15	16	19	<b>24.2</b>	28.1	31	<b>32.9</b>	39.5	181
0434804	stream	03020201	03	CU	10077	17.2	7.4	-2	1.6	5	6.5	11	<b>18.2</b>	23.5	26	<b>27</b>	29	73
0434804	lake	03020201	03	CU	11278	19	7.1	0	3.2	5	9	14.5	<b>19.8</b>	25	27.8	<b>29</b>	30.3	33
0435510	stream	07130003	07	CU	2380	14.3	9.4	-10	0	0.4	1	5.6	<b>14.5</b>	23	26.5	<b>28</b>	30	32
0435510	lake	07130003	07	CU	1764	20.7	5.9	7.5	9.4	11.3	12.9	15.4	<b>21.6</b>	25.3	27.8	<b>29.5</b>	33.2	35.6
0436007	stream	03030004	03	CU	3475	18.1	6.9	0	3	6	8	13	<b>19</b>	24	27	<b>28</b>	30	34
0436007	lake	03030004	03	CU	540	25.2	4.3	8	13.8	17	18.3	23	<b>26</b>	28.9	30	<b>30.2</b>	30.7	31.6
0436108	stream	03050102	03	CU	2818	18	12.6	-1	2	5	7	11	<b>17</b>	22	25	<b>27</b>	75	88
0436108	lake	03050102	03	CU	2372	20.4	8.9	1	5	7	9	13.1	<b>21</b>	26.8	30	<b>32</b>	35	88
0530901	stream	04100012	04	CU	3563	12.4	8.4	-1	0	0.9	1.4	3.8	<b>12.5</b>	20.2	23.4	<b>24.5</b>	27	35.1
0530901	lake	04100012	04	CU	51	20.4	4.9	8.8	8.8	10	12.8	17.6	<b>21.7</b>	24	26.2	<b>26.4</b>	26.7	26.7
0531301	stream	07130006	07	CU	4739	14.9	8.9	-0.6	0	0.6	2	6.5	<b>16</b>	23	25.5	<b>26.6</b>	29	82.8
0531301	lake	07130006	07	CU	2856	19.4	7.1	0.2	1	3.1	9.6	14.5	<b>21.5</b>	25.2	26.6	<b>27.3</b>	29	31
0531502	stream	05060002	05	CU	9863	15.3	8.3	-2.2	0	1.5	3.3	7.8	<b>16.8</b>	22.3	25	<b>26.5</b>	28.3	32.7
0531502	lake	05060002	05	CU	3273	21.1	5.3	2.9	4.6	10.1	13.8	18.4	<b>22.3</b>	25	26.5	<b>27.7</b>	29	33.2
0531702	stream	11090106	11	CU	989	17	9.2	0	0	1.1	3.9	9.4	<b>18.1</b>	24	29	<b>31.1</b>	35	37
0531702	lake	11090106	11	CU	50	13.1	9.3	0	0	2.8	2.8	3.5	<b>12.8</b>	21.1	26.4	<b>27.8</b>	31.1	31.1
0531902	stream	12040104	12	CU	4097	22.6	9.2	0.1	7	11	13.5	18.5	<b>23.5</b>	27.5	29.1	<b>30.5</b>	32.9	460
0531902	lake	12040104	12	CU	339	21.4	4.7	5.5	6.5	9.5	14	21	<b>22.5</b>	24	25.5	<b>27</b>	28	30
0534504	stream	03130001	03	CU	147110	10	2.7	-1	5.1	6.8	7.4	8.4	<b>9.7</b>	11	12.6	<b>14.5</b>	21	35.8
0534504	lake	03130001	03	CU	3389	16.5	6.8	2.4	4.5	6.2	7.5	10.7	<b>16.1</b>	21.7	26.7	<b>28</b>	29.3	30.7
0613402	stream	07140101	07	CU	3332	14.5	10.2	0	0	0.6	2	6	<b>14.3</b>	22.1	26.1	<b>28</b>	31	187.8

## Temperature (degrees C)

<b>siteid</b>	<b>Index</b>	<b>cu</b>	<b>reg</b>	<b>statbas</b>	<b>n</b>	<b>mean</b>	<b>stddev</b>	<b>min</b>	<b>p1</b>	<b>p5</b>	<b>p10</b>	<b>p25</b>	<b>p50</b>	<b>p75</b>	<b>p90</b>	<b>p95</b>	<b>p99</b>	<b>max</b>
0613402	lake	07140101	07	CU	3807	18.9	7.1	0	4.2	8	9.4	12.7	<b>18.5</b>	25.6	28.4	<b>29.4</b>	31.1	33.6
0620401	stream	12040104	12	CU	4097	22.6	9.2	0.1	7	11	13.5	18.5	<b>23.5</b>	27.5	29.1	<b>30.5</b>	32.9	460
0620401	lake	12040104	12	CU	339	21.4	4.7	5.5	6.5	9.5	14	21	<b>22.5</b>	24	25.5	<b>27</b>	28	30
0620604	stream	16020204	16	CU	8059	9.4	6.3	-16.1	0	1	2	4.9	<b>8.5</b>	12.8	19	<b>21.5</b>	26.5	37
0620604	lake	16020204	16	CU	51	13.8	5.6	4.5	4.5	4.8	5.9	8.6	<b>14.7</b>	18.2	20.5	<b>22.4</b>	24	24
0621603	stream	12040104	12	CU	4097	22.6	9.2	0.1	7	11	13.5	18.5	<b>23.5</b>	27.5	29.1	<b>30.5</b>	32.9	460
0621603	lake	12040104	12	CU	339	21.4	4.7	5.5	6.5	9.5	14	21	<b>22.5</b>	24	25.5	<b>27</b>	28	30
0621902	stream	11030010	11	CU	1279	15.9	8.4	-1	0	2	4	9	<b>16.5</b>	23	26	<b>28</b>	31.5	34
0621902	lake	110300	11	AU	657	23.9	3.4	11	12.5	18.5	19	21	<b>25</b>	26.4	27	<b>28</b>	30	33
0622902	stream	15050301	15	CU	466	19.5	6.1	2	3.5	9	11	16	<b>20</b>	24	27	<b>29</b>	33	37
0622902	lake	15050301	15	CU	60	14.9	5.9	7.8	7.8	7.8	8	8.3	<b>13.3</b>	19.4	23.3	<b>25</b>	26	26
0625002	stream	03060109	03	CU	6262	19.9	6.8	-3	6	8.5	10	14	<b>20.5</b>	26	28.3	<b>29</b>	30	34.5
0625002	lake	030601	03	AU	31078	18	6.5	0	6.8	8.5	9.5	12	<b>18</b>	23.5	27	<b>28.5</b>	30.4	35
0625501	stream	12030203	12	CU	596	21.7	6.8	5.5	6	9.8	12.1	16.4	<b>23</b>	27.5	30	<b>31</b>	32	35
0625501	lake	12030203	12	CU	71	22.1	6.9	7.2	7.2	9.5	13.5	16.7	<b>22.8</b>	28.9	30.6	<b>32.2</b>	33.7	33.7
0631701	stream	12040104	12	CU	4097	22.6	9.2	0.1	7	11	13.5	18.5	<b>23.5</b>	27.5	29.1	<b>30.5</b>	32.9	460
0631701	lake	12040104	12	CU	339	21.4	4.7	5.5	6.5	9.5	14	21	<b>22.5</b>	24	25.5	<b>27</b>	28	30
0631903	stream	08080206	08	CU	16476	20.9	6.7	0	6.8	10	11.7	15.2	<b>21.9</b>	27.1	29	<b>29.6</b>	30.7	39.5
0631903	lake	08080206	08	CU	7762	23.5	6	3	8.3	12	14.8	19	<b>25.2</b>	28.6	29.8	<b>30.2</b>	31.4	33.2
0632003	stream	12010002	12	CU	3980	19.2	7.5	0	3.9	7	8.9	12.9	<b>20</b>	26	28	<b>29.4</b>	31.1	38
0632003	lake	12010002	12	CU	1252	19.9	7.2	4.4	7.2	8.5	10	13.9	<b>20</b>	26.6	28.7	<b>29.9</b>	32	36.7
0632606	stream	11120301	11	CU	127	15.5	9	0	0	0	1.5	9.5	<b>17</b>	22.5	26.8	<b>28.3</b>	31.5	33
0632606	lake	111203	11	AU	46	19.7	5.9	10	10	10.6	10.7	16.5	<b>23.5</b>	24.4	26	<b>27.2</b>	29	29
0632608	stream	17090012	17	CU	10884	19.6	220.4	0	4.5	6.7	8	11.7	<b>20.5</b>	22.6	23.4	<b>23.6</b>	24.2	2300
0632608	lake	17090012	17	CU	1232	17	5.8	2	5.5	6.6	9	12.2	<b>18.7</b>	21.8	23.5	<b>25</b>	26.8	30.5
0634001	stream	03150104	03	CU	50760	17.6	6.5	-9.7	3.2	7.5	8.6	13	<b>18.3</b>	23.1	25.4	<b>26.2</b>	27.1	336.1
0634001	lake	03150104	03	CU	1586	20.1	6.3	5	5.5	8.5	11	15.5	<b>21</b>	25.5	27.3	<b>28.3</b>	30.1	32.2
0635301	stream	15010015	15	CU	2422	20.3	6.3	0	5.5	9	11.8	16	<b>21</b>	24.5	27.5	<b>29.8</b>	35.6	47.2
0635301	lake	150100	15	AU	33257	17.9	5.6	3.5	10	10.6	11.4	12.7	<b>17.2</b>	22.5	26	<b>27.5</b>	29.2	31.5
0713618	stream	17100302	17	CU	37737	16.3	4.5	0.2	6.5	9.4	11	13.1	<b>16.1</b>	19.4	22.6	<b>24.4</b>	26.8	36.1
0713618	lake	171003	17	AU	4152	10.4	5.7	2.3	3.2	3.8	4.3	5.5	<b>8.8</b>	13.6	20	<b>22.2</b>	24	25.7
0713705	stream	15050303	15	CU	41	21.2	7.7	6	6	8	12	14.5	<b>23</b>	28	29	<b>29.5</b>	35.5	35.5
0713705	lake	150503	15	AU	71	14.6	6	3.9	3.9	7.2	7.8	8.3	<b>13.3</b>	19.4	22.2	<b>24.4</b>	26	26
0715007	stream	02040203	02	CU	5826	12.8	13.3	-2.7	0	1	3	6.1	<b>12</b>	19	23	<b>25</b>	28	850
0715007	lake	02040203	02	CU	277	19.2	5.3	2	6.5	9.2	10.7	16.2	<b>20.1</b>	23	25.7	<b>26.7</b>	28.8	29.5
0715216	stream	18070106	18	CU	3740	17.3	5.5	3.9	6.7	8.9	10	12.8	<b>17.2</b>	21.1	24.4	<b>26.7</b>	30.5	35
0715216	lake	18070106	18	CU	1608	21.1	5.3	9	10.5	12.2	13.6	17	<b>21.2</b>	25.3	28	<b>29</b>	31.3	34.5

## Temperature (degrees C)

siteid	Index	cu	reg	statbas	n	mean	stddev	min	p1	p5	p10	p25	p50	p75	p90	p95	p99	max
0716701	stream	05140201	05	CU	4153	16.7	9.2	0	0.9	2.2	3.8	8.4	<b>17.2</b>	25.2	28	<b>29</b>	31	79
0716701	lake	05140201	05	CU	326	24.5	6.8	2.2	3.3	9.4	14.1	20.5	<b>28.1</b>	29.5	29.6	<b>29.6</b>	30.6	33.9
0720506	stream	01050002	01	CU	469	9.6	8.3	0	0	0	0	0.5	<b>9</b>	17.5	21	<b>23</b>	25	29
0720506	lake	01050002	01	CU	618	14.2	7.2	0	0.1	1	2	10	<b>15.5</b>	20.3	23	<b>24</b>	25	26.5
0720803	stream	03100201	03	CU	3824	23.3	4.9	1.4	11	15	16.5	20	<b>24</b>	27	29	<b>30</b>	32	34.4
0720803	lake	03100201	03	CU	144	22.4	5.3	8	10	12	14.5	19	<b>23.3</b>	27	29	<b>29.5</b>	30.7	32
0721305	stream	04090004	04	CU	8930	14.9	7.4	-1	0	1	3	9	<b>16.5</b>	21	23	<b>24</b>	27	33
0721305	lake	04090004	04	CU	123	18.7	7.6	3	4	5.5	5.5	13.1	<b>21.7</b>	25	27	<b>28</b>	29	29
0722107	stream	03100103	03	CU	679	26.7	4.7	10	12	17.7	20.3	23.7	<b>27.9</b>	30	31.6	<b>32.5</b>	34.5	36
0722107	lake	031001	03	AU	4277	24.2	5.1	7.5	12	14.6	17	20.2	<b>25</b>	28.6	30	<b>30.8</b>	33	37
0722503	stream	10190004	10	CU	3715	10.9	6.9	-17.4	0	0.5	1.5	5.4	<b>10.5</b>	16.7	20	<b>22.5</b>	26	29.8
0722503	lake	10190004	10	CU	248	12.8	6.3	0	1	3	4.7	7	<b>13.3</b>	18.3	21.1	<b>22.1</b>	24.4	27
0722505	stream	03090202	03	CU	28001	26.2	145.2	-9.3	16	19	20.5	23	<b>25.7</b>	28	29.5	<b>30.2</b>	32	2430
0722505	lake	03090202	03	CU	2740	25.2	4.6	11.1	13.1	16.5	18.4	22.3	<b>26.2</b>	28.9	30.2	<b>30.8</b>	32.5	37
0722705	stream	02050102	02	CU	1740	12.4	8.2	-2	0	0	1	5.8	<b>12.5</b>	19	22.9	<b>24</b>	26	125
0722705	lake	020501	02	AU	316	15.5	6.9	3	3	5	6.7	8.9	<b>16.3</b>	22.5	23.6	<b>24</b>	26	27.2
0723607	stream	12090204	12	CU	697	22	6.6	4	7.8	10.6	12.3	16.5	<b>23.8</b>	27	29.6	<b>31.1</b>	33.3	34
0723607	lake	120902	12	AU	14890	19.4	16.4	5.4	8	10.5	12	14.8	<b>19.3</b>	23.6	27	<b>28.4</b>	29.8	190.5
0724206	stream	03040102	03	CU	1289	16.7	6.9	0	1	4	6	11	<b>19</b>	22	24.6	<b>26</b>	28	30
0724206	lake	03040102	03	CU	102	24.9	3.8	11	11	18	20	24	<b>26</b>	27	29	<b>29</b>	31	32
0724301	stream	08030204	08	CU	4401	17	8.4	-2	0	3	5.5	10	<b>17.3</b>	24	28	<b>29.4</b>	32	35.2
0724301	lake	08030204	08	CU	203	24.6	5.7	12.7	13.8	15.8	16	20.8	<b>24.5</b>	30.1	31.5	<b>32.5</b>	33.7	34.3
0724804	stream	02040203	02	CU	5826	12.8	13.3	-2.7	0	1	3	6.1	<b>12</b>	19	23	<b>25</b>	28	850
0724804	lake	02040203	02	CU	277	19.2	5.3	2	6.5	9.2	10.7	16.2	<b>20.1</b>	23	25.7	<b>26.7</b>	28.8	29.5
0724909	stream	10110102	10	CU	277	9.3	8.1	0	0	0	0	1	<b>8</b>	17	21	<b>22</b>	24	25
0724909	lake	101101	10	AU	7498	10.8	6.8	-0.6	0	0.6	1.2	4.2	<b>11</b>	16.1	19.8	<b>21</b>	23.5	29
0730407	stream	05020001	05	CU	4342	15.1	8.1	-0.2	0	1.1	3.4	8.2	<b>16.4</b>	22	25	<b>26</b>	28.1	55
0730407	lake	05020001	05	CU	7167	18.9	5.8	0	1.1	8.2	11.2	15	<b>19.9</b>	23.5	25.6	<b>26.5</b>	27.7	29.9
0730502	stream	05120111	05	CU	5905	15.7	9	-15.6	0	1.7	3.1	7.1	<b>16.5</b>	23.7	27	<b>28.5</b>	31	36
0730502	lake	05120111	05	CU	4060	18.6	6.7	0	4.3	8.3	9.6	13.2	<b>18.2</b>	24.6	27.5	<b>28.5</b>	30.3	32.9
0730914	stream	12090301	12	CU	863	21	6.4	4.5	7	10.5	12.2	15.9	<b>21.4</b>	26.6	29.2	<b>30</b>	32	33.9
0730914	lake	12090301	12	CU	56	26	4.7	16.9	16.9	17.9	20	23	<b>24.3</b>	30.5	33	<b>33.3</b>	33.6	33.6
0731111	stream	02050105	02	CU	2164	12.8	8.9	-0.4	0	0	1.1	5	<b>13</b>	20	23	<b>25</b>	28	179
0731111	lake	020501	02	AU	316	15.5	6.9	3	3	5	6.7	8.9	<b>16.3</b>	22.5	23.6	<b>24</b>	26	27.2
0731405	stream	02050306	02	CU	10223	18.2	9.7	-1	0	2	4.4	10	<b>20</b>	27.5	28.5	<b>29</b>	29.9	261
0731405	lake	02050306	02	CU	134	16.6	8.3	4	5.9	6.4	7.1	8.8	<b>14.5</b>	25.5	27.1	<b>28</b>	28.9	29.2
0731411	stream	18040001	18	CU	4106	17.7	4.8	0	6.5	9	11	15	<b>18</b>	21	23.5	<b>25.6</b>	28.7	35

## Temperature (degrees C)

siteid	Index	cu	reg	statbas	n	mean	stddev	min	p1	p5	p10	p25	p50	p75	p90	p95	p99	max
0731411	lake	18040001	18	CU	594	16.3	5.1	0	6	7.8	9	12	<b>16.9</b>	20.7	22.8	<b>24</b>	25.6	28.9
0731412	stream	01070002	01	CU	12029	15.4	7.3	-0.6	0	3	5.3	10	<b>15.5</b>	21.4	24.3	<b>25.9</b>	30.2	36.6
0731412	lake	01070002	01	CU	1021	13.9	5.9	0	4	6.3	7.5	9.3	<b>12.8</b>	18.5	21.7	<b>22.6</b>	23.8	90
0731501	stream	02030104	02	CU	8070	14.4	7.8	-1.3	0.4	2.2	4	7.4	<b>14.6</b>	21.3	24.2	<b>26</b>	28.3	31
0731501	lake	02030104	02	CU	449	14.9	7.2	0	0	2	5	9	<b>15</b>	20	24	<b>26</b>	30	31
0731507	stream	03040204	03	CU	3934	19.3	6.1	0	3	7.8	10	15	<b>21</b>	24	26	<b>27</b>	28.5	32
0731507	lake	030402	03	AU	1536	23.5	6.6	0	6.4	11	13	20	<b>25</b>	28	30.8	<b>32.1</b>	35	39
0731514	stream	07120004	07	CU	16851	13.5	8.9	-17.8	0	0.1	1.5	5.7	<b>14</b>	21.1	24.6	<b>26</b>	28.9	240
0731514	lake	07120004	07	CU	4062	20	5.8	1.6	3.7	9	11.8	15.7	<b>21.4</b>	24.3	26.2	<b>27.5</b>	29.3	30.5
0731703	stream	02040203	02	CU	5826	12.8	13.3	-2.7	0	1	3	6.1	<b>12</b>	19	23	<b>25</b>	28	850
0731703	lake	02040203	02	CU	277	19.2	5.3	2	6.5	9.2	10.7	16.2	<b>20.1</b>	23	25.7	<b>26.7</b>	28.8	29.5
0732110	stream	02050107	02	CU	3542	12.6	7.9	-1	0	1	2	5.3	<b>12</b>	19	23.9	<b>25</b>	28	31.5
0732110	lake	02050107	02	CU	99	15.7	7	5	5	6.6	6.8	7.8	<b>16.6</b>	22.5	24.2	<b>25.7</b>	27.2	27.2
0732405	stream	18040002	18	CU	6816	16.9	5.2	0	7.5	9	10	12.5	<b>16.7</b>	21.1	24	<b>25</b>	27.2	39
0732405	lake	180400	18	AU	2663	16.2	5.2	0	5.9	8	9	12.2	<b>16.3</b>	20.6	23.1	<b>24.2</b>	25.8	30.6
0732510	stream	07120004	07	CU	16851	13.5	8.9	-17.8	0	0.1	1.5	5.7	<b>14</b>	21.1	24.6	<b>26</b>	28.9	240
0732510	lake	07120004	07	CU	4062	20	5.8	1.6	3.7	9	11.8	15.7	<b>21.4</b>	24.3	26.2	<b>27.5</b>	29.3	30.5
0733203	stream	18040003	18	CU	19195	17.5	5.2	-13.6	7	9	10	13	<b>18</b>	22	24	<b>25</b>	26.7	33.3
0733203	lake	18040003	18	CU	1263	17.4	5.2	5.4	6.7	8.9	10	12.9	<b>17.8</b>	21.9	23.9	<b>24.7</b>	26.7	30.6
0733210	stream	05030101	05	CU	20842	16.4	9	-3	0.1	1.5	3	8.2	<b>18</b>	24.6	27.1	<b>27.9</b>	29.7	120
0733210	lake	05030101	05	CU	40	18	5.3	8.5	8.5	9.8	11.4	13.5	<b>17.1</b>	23.1	25	<b>25.2</b>	28.3	28.3
0733302	stream	05100205	05	CU	2720	15.6	11.1	-1	0.2	3	5	8.4	<b>15</b>	23	26	<b>27</b>	29	375
0733302	lake	05100205	05	CU	3965	16.2	6.6	0.6	4.4	7	8.2	10.5	<b>15.5</b>	20.5	26.4	<b>29.1</b>	29.9	32.4
0733404	stream	02050202	02	CU	1416	12	7.7	0	0	0.5	1.5	5.3	<b>12</b>	18.1	22	<b>24</b>	27	67.5
0733404	lake	020502	02	AU	203	18.5	5.4	0	1	9.4	11	15.5	<b>19</b>	22.5	25	<b>26</b>	26.1	26.5
0733501	stream	06010105	06	CU	5991	14.3	6.6	0	1	3.9	5	9	<b>15</b>	20	23	<b>24</b>	27	88
0733501	lake	06010105	06	CU	444	20.9	8.2	0.5	1.5	7.3	8.8	15.3	<b>21.5</b>	25	33.3	<b>35.5</b>	36.1	36.2
0733606	stream	02040203	02	CU	5826	12.8	13.3	-2.7	0	1	3	6.1	<b>12</b>	19	23	<b>25</b>	28	850
0733606	lake	02040203	02	CU	277	19.2	5.3	2	6.5	9.2	10.7	16.2	<b>20.1</b>	23	25.7	<b>26.7</b>	28.8	29.5
0734604	stream	02040302	02	CU	2075	14	6.6	0	0.8	2.5	4.5	9	<b>15</b>	19	22	<b>24</b>	26.8	32
0734604	lake	02040302	02	CU	121	16	7.6	3	3	4	6	9	<b>17</b>	22	25	<b>27</b>	30.1	31
0735309	stream	11070103	11	CU	1630	15.9	9.1	-2	0	2	3.3	8	<b>16.1</b>	23	27	<b>28.3</b>	32	81
0735309	lake	11070103	11	CU	1233	23	5.5	5	11	12.6	14.9	18.3	<b>25</b>	27	29.1	<b>30.1</b>	31.8	34.2
0826707	stream	03040101	03	CU	6001	16.7	6.9	0	2	4.8	6	11	<b>18</b>	22	25	<b>26</b>	28	50
0826707	lake	03040101	03	CU	2875	17.7	6.9	2.4	4.8	5.5	6.8	12.3	<b>19</b>	23	26	<b>27.2</b>	29.4	32.5
0830601	stream	03150107	03	CU	3841	23.2	7.1	1	6	9	13	20	<b>25</b>	27.8	29	<b>30</b>	31	235
0830601	lake	03150107	03	CU	80	25.3	3.5	20	20	20.2	20.6	21.3	<b>25.4</b>	29.3	29.7	<b>29.9</b>	30.2	30.2

## Temperature (degrees C)

siteid	Index	cu	reg	statbas	n	mean	stddev	min	p1	p5	p10	p25	p50	p75	p90	p95	p99	max
0830903	stream	04150302	04	CU	380	13.8	8.1	0	0	0	1	7.2	<b>15.3</b>	20	24	<b>25</b>	27	30.5
0830903	lake	041503	04	AU	333	12.5	7.1	0	0	0	1.5	9	<b>12.4</b>	17.7	22.5	<b>23.1</b>	24.8	25.6
0831102	stream	01030003	01	CU	1909	9.8	8.5	-5	0	0	0	1	<b>8</b>	18	22	<b>24</b>	26	32
0831102	lake	01030003	01	CU	3719	15.3	6.4	0	1	3.2	6.3	10.6	<b>15.8</b>	20.2	23.1	<b>24.9</b>	26.9	29.4
0831406	stream	03160201	03	CU	103378	22.3	7.7	-17.8	7.6	9.5	10.8	15.3	<b>24</b>	29.1	31	<b>31.6</b>	32.8	240
0831406	lake	031602	03	AU	1	23			23	23	23	23	<b>23</b>	23	23	<b>23</b>	23	23
0831904	stream	03110203	03	CU	3315	19.5	6	3	6	9	11	15	<b>20</b>	25	26.9	<b>27.5</b>	29.5	35.5
0831904	lake	031102	03	AU	1301	41.9	665	9.3	10.5	13.6	15.8	19	<b>24.1</b>	28.5	30	<b>30.8</b>	33	2401
0832304	stream	04030204	04	CU	2033	12.8	8.9	0	0	0.2	1	4.1	<b>13</b>	21	24.5	<b>25.7</b>	27.5	32
0832304	lake	04030204	04	CU	170	19.9	4.9	0	0	11.1	14.7	17.7	<b>21</b>	23.3	25	<b>26.5</b>	28	29
0832510	stream	02050106	02	CU	1983	11.8	8	-1	0	0.5	1.2	4.5	<b>11</b>	18.5	23	<b>24.9</b>	28	33
0832510	lake	02050106	02	CU	68	15.9	6.8	3.5	3.5	5.5	6.8	10	<b>15.3</b>	23	23.5	<b>23.7</b>	24	24
0832903	stream	08070201	08	CU	150	21	7.8	5.5	7	8.3	10.6	15.1	<b>21.6</b>	26.5	29	<b>32</b>	47	47
0832903	lake	080702	08	AU	4061	20.3	6.6	3.3	5.6	9	11	15	<b>21</b>	26.6	28.3	<b>28.9</b>	29.9	40.9
0832904	stream	03070101	03	CU	2212	16.2	7	0.1	2.5	5	7	10	<b>16.5</b>	22.5	25	<b>26</b>	28.2	33
0832904	lake	03070101	03	CU	1150	22.8	5.7	-0.6	8	12.3	14.8	19	<b>23.5</b>	27.2	29.4	<b>30.4</b>	31.9	35
0832909	stream	05080002	05	CU	7238	17.6	8.2	-1	0.6	2.9	4.8	11	<b>20</b>	24.2	26.9	<b>27.9</b>	30	82
0832909	lake	050800	05	AU	3335	18.8	5.5	0	4.6	9	11.2	15	<b>19.5</b>	23.2	25.3	<b>26.5</b>	28	32.4
0833001	stream	06010106	06	CU	2521	14.2	6.5	0	1	4	5	9	<b>14.5</b>	19	23	<b>24.8</b>	27	37.3
0833001	lake	06010106	06	CU	494	20.6	5.1	6.6	8.9	10.1	13	17.2	<b>21.6</b>	24.3	26.4	<b>27.7</b>	29.8	30.5
0833007	stream	04030105	04	CU	1115	13.7	7.7	0	0	0	1.1	8	<b>15</b>	20	23	<b>25</b>	27	29
0833007	lake	04030105	04	CU	1178	13.3	7.5	-0.5	0.5	2.5	3.7	6	<b>13.6</b>	20.1	23.1	<b>23.9</b>	25.4	28
0834009	stream	02040203	02	CU	5826	12.8	13.3	-2.7	0	1	3	6.1	<b>12</b>	19	23	<b>25</b>	28	850
0834009	lake	02040203	02	CU	277	19.2	5.3	2	6.5	9.2	10.7	16.2	<b>20.1</b>	23	25.7	<b>26.7</b>	28.8	29.5
0923004	stream	04050006	04	CU	1830	13.4	8.8	0	0	0	1	5	<b>14.5</b>	22	24	<b>25</b>	27	29
0923004	lake	04050006	04	CU	740	14.9	6.7	0.5	3	5	6	9	<b>16</b>	21	23	<b>24</b>	26	30
0930205	stream	03040103	03	CU	4130	18.5	7.5	0	2	6	8	13	<b>20</b>	24	27	<b>28</b>	30	162
0930205	lake	03040103	03	CU	4740	23.4	6.5	0	5	9	13	21	<b>26</b>	28	29.2	<b>30</b>	32	34
0930301	stream	17070101	17	CU	501	12.8	5.8	0	1.7	4	5	8.1	<b>12.9</b>	17.6	20.2	<b>21.5</b>	24	31.5
0930301	lake	17070101	17	CU	55	14.2	5.3	0.8	0.8	4.8	8.1	10.8	<b>14</b>	18.8	20.5	<b>20.9</b>	25.6	25.6
0930702	stream	12070102	12	CU	231	20.5	6.9	4	6	8	11	15	<b>22</b>	26.5	29	<b>30</b>	31	32
0930702	lake	12070102	12	CU	1333	21.6	7.8	3	5	8.5	9.5	14.5	<b>23.5</b>	28.5	30	<b>30.5</b>	31	32
0932103	stream	03050203	03	CU	2109	19.5	5.9	1	4	7.5	10	16	<b>21</b>	24	25.5	<b>26.5</b>	28	45
0932103	lake	030502	03	AU	6084	19.3	7.1	5	6.5	8	9.4	13	<b>19</b>	26.1	28	<b>29</b>	30	33
0932507	stream	02040203	02	CU	5826	12.8	13.3	-2.7	0	1	3	6.1	<b>12</b>	19	23	<b>25</b>	28	850
0932507	lake	02040203	02	CU	277	19.2	5.3	2	6.5	9.2	10.7	16.2	<b>20.1</b>	23	25.7	<b>26.7</b>	28.8	29.5
0932509	stream	17020003	17	CU	650	9.2	5.8	0	0	2	3	4.6	<b>7.7</b>	13.1	18.1	<b>20.2</b>	23.4	24.8

## Temperature (degrees C)

siteid	Index	cu	reg	statbas	n	mean	stddev	min	p1	p5	p10	p25	p50	p75	p90	p95	p99	max
0932509	lake	170200	17	AU	1888	13.7	6.5	0	1.2	4	5.4	7.5	<b>14.1</b>	19.2	22.3	<b>23.6</b>	24.9	29.5
0932903	stream	12100401	12	CU	843	21.3	6.7	5	8	9.5	10.5	16.5	<b>22</b>	27	29	<b>30</b>	32.5	37
0932903	lake	121004	12	AU	390	22	5.8	10.1	11.5	12.4	13.7	17	<b>23</b>	27.2	29.4	<b>30</b>	31.5	31.9
0933704	stream	06010101	06	CU	3279	15.1	7.9	0	0	2.2	4	8	<b>15.6</b>	22	25	<b>26.2</b>	28.2	43.3
0933704	lake	060101	06	AU	1432	20.2	6.3	0.5	3.5	9.2	11.3	16.2	<b>20.9</b>	24.3	27	<b>29.9</b>	35.6	36.2
1010805	stream	17070102	17	CU	2562	11	6.8	-0.8	0	2	3.2	5.6	<b>9.4</b>	15.7	21.1	<b>23.6</b>	28	33.3
1010805	lake	170701	17	AU	1716	13.2	5	0	4	8	8.2	9.1	<b>11.6</b>	17.4	20.9	<b>22</b>	24	31
1012203	stream	02030202	02	CU	2399	14.4	5.9	0	2	4	6	10	<b>15</b>	18.8	22	<b>24</b>	26.5	32
1012203	lake	02030202	02	CU	1780	18.5	7	1.9	3.2	4.4	6.7	15.1	<b>20.4</b>	23.4	26.3	<b>27.8</b>	29.3	30
1013209	stream	18030012	18	CU	1950	17.7	5	-1	6	9	11	15	<b>18</b>	21	23.9	<b>25.5</b>	29	34
1013209	lake	18030012	18	CU	1030	17.5	5.4	4.4	6.7	8.5	10	13	<b>17.8</b>	22	24.4	<b>25.6</b>	26.7	28.9
1014805	stream	03130008	03	CU	2039	20.4	6.7	5	7	9	11	15	<b>21</b>	26.5	28	<b>29</b>	30	31.5
1014805	lake	031300	03	AU	8419	20.3	7.7	0	4.9	7.3	9.2	15.2	<b>20.8</b>	27	29	<b>30</b>	32.2	254.4
1015510	stream	12060103	12	CU	85	18.3	8.7	2	2	3	6	10	<b>20</b>	25.5	29	<b>30</b>	32.3	32.3
1015510	lake	12060103	12	CU	62	20.8	5.7	5.5	5.5	12	14.3	15.9	<b>19.5</b>	25.5	27	<b>29</b>	31	31
1023705	stream	04140201	04	CU	3358	14.5	7	0	0	2	4	9.7	<b>15.5</b>	19	24	<b>25.2</b>	28	30
1023705	lake	04140201	04	CU	1551	13	7.2	0	1	2	3.4	7	<b>12.9</b>	19	23	<b>24.6</b>	27	29
1031503	stream	10260010	10	CU	1188	14.4	8.2	-3	-2	0	2	7.5	<b>15.3</b>	21	25	<b>26.5</b>	29	33
1031503	lake	10260010	10	CU	115	23.9	1.8	17	17	18.5	22	23.8	<b>24.3</b>	25	25.5	<b>25.5</b>	26	26
1031507	stream	18040001	18	CU	4106	17.7	4.8	0	6.5	9	11	15	<b>18</b>	21	23.5	<b>25.6</b>	28.7	35
1031507	lake	18040001	18	CU	594	16.3	5.1	0	6	7.8	9	12	<b>16.9</b>	20.7	22.8	<b>24</b>	25.6	28.9
1032715	stream	03150106	03	CU	11731	19.4	7.8	0.6	4	7.2	9.4	14	<b>19.4</b>	25.8	28.5	<b>30</b>	32	306.7
1032715	lake	03150106	03	CU	43	24.1	3.1	18.3	18.3	20	20	21.1	<b>25.6</b>	26.7	27.8	<b>27.8</b>	29.4	29.4
1032802	stream	03030002	03	CU	14962	17.3	7.5	-1	1	4	6.3	12	<b>19</b>	23	26	<b>27</b>	29.5	221
1032802	lake	03030002	03	CU	13670	19.5	7.3	-1	3.5	5.6	8.1	14	<b>21</b>	25.5	27.9	<b>28.8</b>	30.2	33.4
1033107	stream	04060105	04	CU	925	10.8	6.2	0	0	0.6	1.5	5.5	<b>11.7</b>	16	19	<b>20</b>	22	25
1033107	lake	04060105	04	CU	1436	14.6	6.6	0	0.3	2	5	9	<b>16</b>	20	22	<b>23</b>	25	28
1033114	stream	02040207	02	CU	6815	15.1	10.7	-4	0	2	4	8	<b>15.5</b>	22	25	<b>26.5</b>	29	600
1033114	lake	02040207	02	CU	857	17.6	8.1	0	2	3.5	5	11	<b>19</b>	25	27	<b>28</b>	30	32
1033202	stream	11110104	11	CU	2771	17.4	7.7	0	2	5	6.9	11.5	<b>17</b>	24	28	<b>29</b>	32	37
1033202	lake	11110104	11	CU	1365	18.7	7.8	0	3	7.5	10.5	13	<b>16.9</b>	25	30.4	<b>31.2</b>	32.3	100
1033602	stream	04050003	04	CU	3607	15.3	8.3	0	0	1	2	8	<b>18</b>	22	24.5	<b>26</b>	28.5	32
1033602	lake	04050003	04	CU	966	12	6.6	0	1.5	3	3.5	6.5	<b>11</b>	17	22	<b>23</b>	25.8	27.5
1034005	stream	03130001	03	CU	147110	10	2.7	-1	5.1	6.8	7.4	8.4	<b>9.7</b>	11	12.6	<b>14.5</b>	21	35.8
1034005	lake	03130001	03	CU	3389	16.5	6.8	2.4	4.5	6.2	7.5	10.7	<b>16.1</b>	21.7	26.7	<b>28</b>	29.3	30.7
1034210	stream	04140201	04	CU	3358	14.5	7	0	0	2	4	9.7	<b>15.5</b>	19	24	<b>25.2</b>	28	30
1034210	lake	04140201	04	CU	1551	13	7.2	0	1	2	3.4	7	<b>12.9</b>	19	23	<b>24.6</b>	27	29

## Temperature (degrees C)

siteid	Index	cu	reg	statbas	n	mean	stddev	min	p1	p5	p10	p25	p50	p75	p90	p95	p99	max
1034406	stream	08030209	08	CU	465	21.3	8	4	6	8.5	10	14.5	<b>22.3</b>	28.5	31	<b>32</b>	34	34.5
1034406	lake	080302	08	AU	1884	16.4	11.8	-1	0	0	0	0	<b>19.8</b>	26.9	30.1	<b>31.3</b>	33	34.4
1034805	stream	11010004	11	CU	3969	17.1	5.7	0	3	6.5	9	14	<b>17.5</b>	21.1	24.4	<b>25.6</b>	27.8	31.1
1034805	lake	110100	11	AU	15964	15.1	7	0	4	5.9	7	9.5	<b>13.5</b>	20.2	26	<b>28</b>	30	36
1035117	stream	10300101	10	CU	3380	15.7	16.2	-2	0	1	4	10	<b>15</b>	22	26	<b>28</b>	30	830
1035117	lake	10300101	10	CU	359	21.4	5.6	10.2	10.9	11.8	12.8	16.9	<b>21.4</b>	26	28.4	<b>28.8</b>	29.6	33
1035405	stream	17050114	17	CU	5400	12.9	5.6	-11	1	3.8	5.2	9	<b>13</b>	17	20	<b>21.5</b>	23.5	76
1035405	lake	170501	17	AU	753	12.8	5.9	0	1.3	3.5	4.7	7.5	<b>13.4</b>	17.9	20.5	<b>21.6</b>	23	24.2
1035508	stream	16010202	16	CU	2141	9.7	6.8	0	0	0.4	1.5	4	<b>8.8</b>	14.7	19.7	<b>21.9</b>	24	75
1035508	lake	16010202	16	CU	83	18.3	6.2	0.5	0.5	9.4	10.4	13.7	<b>19</b>	23.3	25.5	<b>26.6</b>	28.4	28.4
1120904	stream	02010003	02	CU	3497	12.8	8.7	0	0	0	0	4	<b>15</b>	20	23	<b>25</b>	28.2	32
1120904	lake	02010003	02	CU	2802	13.5	6.4	0	0.5	3.5	5	8.5	<b>13.5</b>	19	22	<b>23.2</b>	25	29.5
1122705	stream	05070202	05	CU	13581	14.6	6.4	-1	0.1	3.2	5.5	9.5	<b>15.3</b>	18.9	22.2	<b>24.9</b>	27.8	33.5
1122705	lake	05070202	05	CU	17142	16.3	7.3	-3	2	5	6.4	10.5	<b>16</b>	22.5	26.3	<b>27.6</b>	29.2	128
1131103	stream	08090203	08	CU	21559	20.4	7.1	0.5	5	8.1	10	14.6	<b>21.1</b>	27	29.2	<b>30</b>	31.2	42
1131103	lake	08090203	08	CU	11167	20.5	7	1.1	6	8.3	10	14.9	<b>21.4</b>	27	28.9	<b>29.4</b>	31.1	34.4
1131802	stream	18020129	18	CU	2755	14.1	5.7	0	2	6.5	7.5	9.5	<b>13</b>	18.7	22	<b>23.9</b>	26	28
1131802	lake	18020129	18	CU	158	17.2	6	4	5.6	7.8	8	13.2	<b>16.5</b>	22.7	25.5	<b>26</b>	27.3	27.3
1133902	stream	03050109	03	CU	30911	17.6	6.4	0	5	8	9	12.5	<b>17</b>	23	26.5	<b>28</b>	30	78
1133902	lake	03050109	03	CU	14175	15.8	11.3	1.9	5	6.5	7	8.7	<b>14</b>	22.5	27	<b>28.8</b>	31	101.8
1134405	stream	07110004	07	CU	1243	14.4	9.6	-0.5	0	0.5	1.5	5.8	<b>14.5</b>	22.5	26.7	<b>28</b>	30	115
1134405	lake	071100	07	AU	29	19.7	9.9	4	4	5	6	9	<b>22</b>	28.5	31.5	<b>31.5</b>	31.5	31.5
1212301	stream	01090001	01	CU	2863	12.2	8	-3.9	0	0	1	4.2	<b>13.5</b>	18	23	<b>24.5</b>	27.3	45
1212301	lake	010900	01	AU	571	16.3	7	0	3.9	6.1	7.2	10	<b>16.7</b>	22.7	25.6	<b>26.5</b>	28	33.3
1221704	stream	03100207	03	CU	3283	23.4	4.1	0	11.5	15.5	17.5	21	<b>24</b>	26	28	<b>29.5</b>	31.4	34
1221704	lake	03100207	03	CU	2622	24.2	5.1	3.1	13.6	15.7	17.3	19.6	<b>24.5</b>	28.9	30.4	<b>30.9</b>	32	35.5
1223404	stream	02040203	02	CU	5826	12.8	13.3	-2.7	0	1	3	6.1	<b>12</b>	19	23	<b>25</b>	28	850
1223404	lake	02040203	02	CU	277	19.2	5.3	2	6.5	9.2	10.7	16.2	<b>20.1</b>	23	25.7	<b>26.7</b>	28.8	29.5
1230111	stream	10070004	10	CU	236	9.2	6.8	0	0	0	0	1.8	<b>10</b>	14.5	18.1	<b>20</b>	22	22.2
1230111	lake	100700	10	AU	318	11.6	4.3	1.8	3	4	6.1	9.5	<b>11</b>	14	17.2	<b>18.9</b>	22.2	29.4
1230206	stream	08010209	08	CU	535	16.6	7.5	0	0.8	5	6.8	10	<b>17</b>	22.5	26	<b>28.3</b>	32	34.7
1230206	lake	080102	08	AU	192	18.5	9	1	1	2	4	11	<b>20.1</b>	26.6	29.1	<b>30.3</b>	33.1	33.2
1230517	stream	02060003	02	CU	8115	14.1	8	-2	0.2	1.5	3	7	<b>14.2</b>	21	24.7	<b>26.1</b>	28	50
1230517	lake	02060003	02	CU	128	15.2	7	5.8	5.8	6.1	7.1	9.7	<b>12.5</b>	21.3	26.8	<b>27.4</b>	27.9	27.9
1230919	stream	02020006	02	CU	1900	13	8	-1.1	0	0.4	1.7	6	<b>13</b>	20	23.5	<b>25</b>	27	29.5
1230919	lake	02020006	02	CU	117	17.7	7.5	0	0	2	6	12	<b>20.5</b>	23.2	25.8	<b>27</b>	28.5	29
1231101	stream	08010211	08	CU	532	17.2	8.3	0	0.5	3.5	5.5	10.5	<b>18</b>	24	28	<b>30</b>	33	35

## Temperature (degrees C)

siteid	Index	cu	reg	statbas	n	mean	stddev	min	p1	p5	p10	p25	p50	p75	p90	p95	p99	max
1231101	lake	080102	08	AU	192	18.5	9	1	1	2	4	11	<b>20.1</b>	26.6	29.1	<b>30.3</b>	33.1	33.2
1231705	stream	03050201	03	CU	8472	20.8	7.2	1.5	6	9	11	15	<b>21</b>	27	29	<b>30</b>	31	180
1231705	lake	03050201	03	CU	5703	19.1	7.1	5	6.2	8	9	12.8	<b>19</b>	26	28	<b>29</b>	30	32
1233101	stream	18070104	18	CU	5382	17.1	4.7	-14.4	6.1	10	11.1	13.9	<b>16.7</b>	20	23.3	<b>25.6</b>	28.1	31.1
1233101	lake	180701	18	AU	1701	20.7	5.4	9	10.5	12	13	16.5	<b>20.9</b>	25	27.9	<b>28.9</b>	31.1	34.5
1235205	stream	11090202	11	CU	1391	17.6	9.4	-0.5	0	2	4	10	<b>18.5</b>	25.5	29	<b>31</b>	35	37
1235205	lake	110902	11	AU	3780	19.5	7.7	0.3	5.5	7.2	8.8	11.5	<b>22</b>	26	28.5	<b>29.1</b>	31	76.8
1236637	stream	02030103	02	CU	6920	14.2	8	-1	0	1	2	7.5	<b>15</b>	21.2	24	<b>25</b>	27	110
1236637	lake	02030103	02	CU	1905	15.9	7.4	-1.5	0	1.5	4.9	11	<b>16.8</b>	22.2	24.4	<b>25.8</b>	28	33
1236652	stream	01100004	01	CU	1648	16.5	6.6	0	0.5	3	5.5	13	<b>18</b>	22	24	<b>25</b>	26.5	29
1236652	lake	011000	01	AU	4821	17.8	6.5	0	1.5	5.7	8.7	13	<b>18.7</b>	23	25.2	<b>26.3</b>	30	32.2
1236732	stream	05050004	05	CU	2684	15.6	7.2	-3	0.3	3	4.8	10	<b>16.9</b>	21	25	<b>26.5</b>	29	32
1236732	lake	050500	05	AU	17256	18.2	5.7	0	5	7.6	10	14.6	<b>18.5</b>	22.5	25.4	<b>26.7</b>	28.4	31.2
1236810	stream	18070106	18	CU	3740	17.3	5.5	3.9	6.7	8.9	10	12.8	<b>17.2</b>	21.1	24.4	<b>26.7</b>	30.5	35
1236810	lake	18070106	18	CU	1608	21.1	5.3	9	10.5	12.2	13.6	17	<b>21.2</b>	25.3	28	<b>29</b>	31.3	34.5
1236820	stream	02050106	02	CU	1983	11.8	8	-1	0	0.5	1.2	4.5	<b>11</b>	18.5	23	<b>24.9</b>	28	33
1236820	lake	02050106	02	CU	68	15.9	6.8	3.5	3.5	5.5	6.8	10	<b>15.3</b>	23	23.5	<b>23.7</b>	24	24
1331103	stream	03150106	03	CU	11731	19.4	7.8	0.6	4	7.2	9.4	14	<b>19.4</b>	25.8	28.5	<b>30</b>	32	306.7
1331103	lake	03150106	03	CU	43	24.1	3.1	18.3	18.3	20	20	21.1	<b>25.6</b>	26.7	27.8	<b>27.8</b>	29.4	29.4
1333001	stream	03040201	03	CU	10304	20.9	5.9	0.2	5	9	12	18	<b>22</b>	25	27	<b>28</b>	30	34
1333001	lake	03040201	03	CU	1048	23.2	6.9	5	7	11	13	17.5	<b>24.5</b>	28.5	31	<b>33</b>	35.5	39
1333701	stream	05030103	05	CU	4614	16.5	8.6	-3	0	1.9	3.9	9.5	<b>18</b>	23	27	<b>29.2</b>	33	37
1333701	lake	05030103	05	CU	6243	17.2	6.8	0	0	2.2	5.6	13.7	<b>19</b>	22.5	24.3	<b>25.1</b>	27.3	31.3
1415407	stream	15060106	15	CU	1006	20.3	4.8	4.4	8.5	11	13	17	<b>21.1</b>	23.3	26	<b>27.5</b>	29.1	31.6
1415407	lake	15060106	15	CU	6563	16.5	5.7	5	9	10	10.4	11.7	<b>15</b>	20.3	26	<b>27.5</b>	29.4	32.8
1421506	stream	17110012	17	CU	13222	10.9	4.6	0.1	1.7	4.2	5.4	7.5	<b>10.5</b>	14	17.3	<b>19.2</b>	21.8	77.2
1421506	lake	17110012	17	CU	6166	13.5	5.7	2	4.8	5.7	6.4	8	<b>13</b>	18.9	21.1	<b>22.2</b>	24.1	27.8
1430107	stream	11030013	11	CU	2927	15.8	8.8	-2	0	1	3	8	<b>17</b>	23.5	26	<b>28</b>	31	39
1430107	lake	11030013	11	CU	43	23.4	5.4	11	11	12	15.5	21	<b>25</b>	27	<b>29</b>	29	29	
1430404	stream	05120201	05	CU	5654	13.9	8.3	-1	0	1	2.5	6	<b>14</b>	21.5	25	<b>26</b>	28.4	32.2
1430404	lake	05120201	05	CU	162	18.5	5.6	6	6	7.4	9.9	15.5	<b>19</b>	22.5	26	<b>26.5</b>	28	28
1430602	stream	18050003	18	CU	2349	13.8	4	2	6	9	10	11	<b>12.6</b>	16	20	<b>21</b>	24	34
1430602	lake	18050003	18	CU	3159	16.1	4.7	0	7	9	10.8	12	<b>15.7</b>	20.2	22.6	<b>23.3</b>	25	29
1431515	stream	16020204	16	CU	8059	9.4	6.3	-16.1	0	1	2	4.9	<b>8.5</b>	12.8	19	<b>21.5</b>	26.5	37
1431515	lake	16020204	16	CU	51	13.8	5.6	4.5	4.5	4.8	5.9	8.6	<b>14.7</b>	18.2	20.5	<b>22.4</b>	24	24
1434022	stream	18070104	18	CU	5382	17.1	4.7	-14.4	6.1	10	11.1	13.9	<b>16.7</b>	20	23.3	<b>25.6</b>	28.1	31.1
1434022	lake	180701	18	AU	1701	20.7	5.4	9	10.5	12	13	16.5	<b>20.9</b>	25	27.9	<b>28.9</b>	31.1	34.5

## Temperature (degrees C)

siteid	Index	cu	reg	statbas	n	mean	stddev	min	p1	p5	p10	p25	p50	p75	p90	p95	p99	max	
1434802	stream	03050110	03	CU	22484	18.4	6.6	0	5	8	9.5	13	<b>19</b>	24	27	<b>28</b>	30	76	
1434802	lake	03050110	03	CU	1131	16.1	6.8	3	3	6	8	10.5	<b>15.5</b>	22	26	<b>27</b>	29	32	
1435317	stream	12020003	12	CU	2482	20.7	6.7	4	6.5	9.2	11	15	<b>22</b>	26.2	29	<b>30</b>	31.3	36	
1435317	lake	12020003	12	CU	337	22.7	8.1	-17.8	-17.8	10	11.7	17.4	<b>25</b>	28.3	30.3	<b>32.1</b>	33.3	35	
1522504	stream	02040205	02	CU	15211	13.5	8.5	-2	0	1	3	7	<b>13.3</b>	20	24	<b>25</b>	28	321	
1522504	lake	02040205	02	CU	386	14.9	8.6	0	0	2	3	8	<b>15</b>	22	26	<b>28</b>	30	31	
1530605	stream	12040201	12	CU	2373	23.8	6.8	1.5	6.5	11	13	19	<b>25.9</b>	29.9	30.5	<b>31</b>	32.5	35.6	
1530605	lake	12040201	12	CU	2373	23.8	6.8	1.5	6.5	11	13	19	<b>25.9</b>	29.9	30.5	<b>31</b>	32.5	35.6	
1530808	stream	04090004	04	CU	8930	14.9	7.4	-1	0	1	3	9	<b>16.5</b>	21	23	<b>24</b>	27	33	
1530808	lake	04090004	04	CU	123	18.7	7.6	3	4	5.5	5.5	13.1	<b>21.7</b>	25	27	<b>28</b>	29	29	
1532401	stream	02010002	02	CU	770	10.5	8.6	-1	0	0	0	0	1.9	<b>10</b>	19	21	<b>23</b>	26	48
1532401	lake	02010002	02	CU	857	11.6	6.7	0	0.5	2.7	5	6.2	<b>9.2</b>	17	22	<b>24.4</b>	26.5	29	
1621808	stream	03130005	03	CU	3062	16.6	6.8	0	2.5	5.5	7	11	<b>17</b>	23	25	<b>26</b>	28	35	
1621808	lake	031300	03	AU	8419	20.3	7.7	0	4.9	7.3	9.2	15.2	<b>20.8</b>	27	29	<b>30</b>	32.2	254.4	
1630106	stream	06010202	06	CU	15749	15.6	4.7	-1	5	7	9	12.2	<b>16.3</b>	19.3	20.5	<b>21.6</b>	26	36.3	
1630106	lake	06010202	06	CU	912	20.1	6.1	4.6	6.6	8	10.3	16.4	<b>21.3</b>	25	27	<b>27.7</b>	29	31	
1630401	stream	06010201	06	CU	111011	21.6	3	0	9.5	17.5	18.2	19.8	<b>22.3</b>	23.8	24.5	<b>24.9</b>	26.2	95	
1630401	lake	06010201	06	CU	154	20.4	3	9.8	10.7	16.4	16.8	17.8	<b>20.1</b>	23.6	24.1	<b>24.6</b>	25.6	25.8	
1631701	stream	03020104	03	CU	782	18	6.9	0	4	7	8.5	12	<b>18.5</b>	24	26.5	<b>28</b>	30.8	34.5	
1631701	lake	03020104	03	CU	603	19.5	7.4	2	3	6	10	13	<b>21</b>	26	28.1	<b>29</b>	30	37	
1632106	stream	13030102	13	CU	1705	17.1	6.8	0	2	5.5	8	12	<b>18</b>	23	25	<b>26.6</b>	29	59	
1632106	lake	130301	13	AU	26	22.8	2	19.4	19.4	19.5	19.8	20.9	<b>23.8</b>	24.4	24.6	<b>24.6</b>	25.4	25.4	
1632703	stream	03050108	03	CU	2320	19.3	4.8	1	5	9.5	13	17	<b>20</b>	22.5	24.5	<b>25.5</b>	27.5	31.5	
1632703	lake	030501	03	AU	71573	18.7	8.4	0.1	5	7	8	12	<b>19</b>	25.5	28	<b>29</b>	31	101.8	
1633404	stream	15070102	15	CU	626	17.3	8.9	-17.8	-17.7	3.5	7.8	12.5	<b>17.9</b>	23	26	<b>28</b>	33.7	114	
1633404	lake	15070102	15	CU	140	14.6	7.8	-17.8	1.1	3.5	6	9.6	<b>12.2</b>	22.2	26.3	<b>27</b>	28.9	28.9	
1633405	stream	01100005	01	CU	26635	16.6	7	-0.6	0.5	2.4	5.6	12.3	<b>17.8</b>	21.8	24.4	<b>25.8</b>	28.3	90	
1633405	lake	01100005	01	CU	2841	16.5	6.7	0	1	5	7	12	<b>16.7</b>	22.2	24.5	<b>26</b>	29.4	32.2	
1635404	stream	03060101	03	CU	4084	18.4	6.3	0	4	8	10	13.1	<b>19</b>	23	27	<b>28</b>	30	33	
1635404	lake	03060101	03	CU	21194	17.7	6.3	1	7.5	9	10	12	<b>17.5</b>	23	26.5	<b>28</b>	30	35	
1721603	stream	17090010	17	CU	28572	14.5	4.6	0.2	4	6.5	8	11.4	<b>15.2</b>	18	20	<b>21</b>	22.3	221	
1721603	lake	17090010	17	CU	275	11.2	7.1	0	0	1	2	4	<b>12</b>	16.7	20.3	<b>23</b>	24.2	27	