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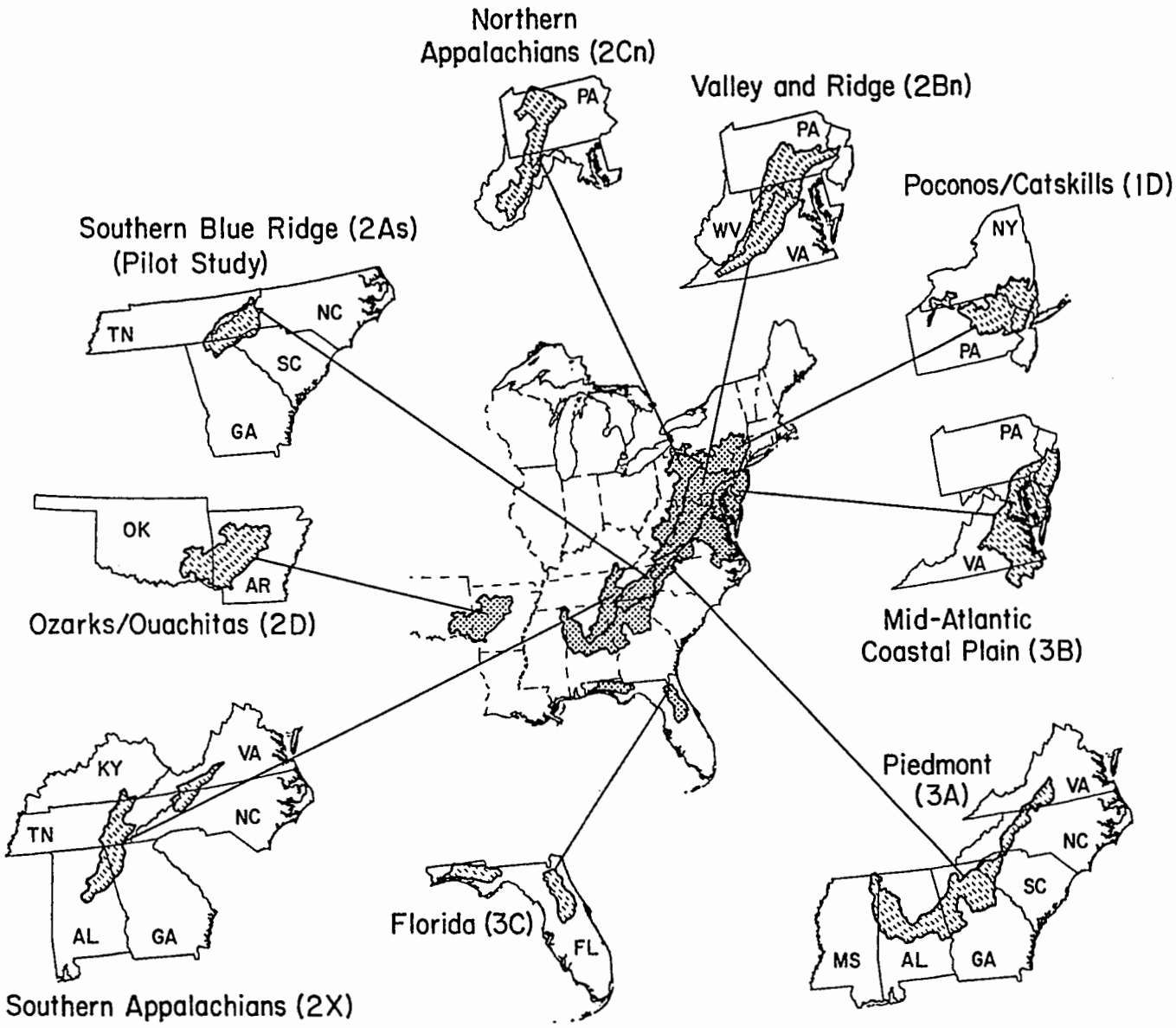
Chemical Characteristics of Streams in the Mid-Atlantic and Southeastern United States (National Stream Survey-Phase I)

Volume II: Streams Sampled, Descriptive Statistics, and Compendium of Physical and Chemical Data

Aquatic Effects Research Program

SUBREGIONS OF THE NATIONAL STREAM SURVEY - PHASE I



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Chemical Characteristics of Streams in the Mid-Atlantic and Southeastern United States

(Results of the National Stream Survey - Phase I)

Volume II: Streams Sampled, Descriptive Statistics, and Compendium of Physical and Chemical Data

A Contribution to the
National Acid Precipitation Assessment Program

U.S. Environmental Protection Agency
Office of Research and Development
Washington, DC 20460

Environmental Research Laboratory - Corvallis, OR 97333
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PREFACE

The National Surface Water Survey (NSWS) was begun in 1983 by the U.S. Environmental Protection Agency (EPA) under the National Acid Precipitation Assessment Program (NAPAP), a federal interagency task force mandated by Congress in 1980. The NSWS is a phased, systematic study designed to: (1) characterize the present chemistry of surface waters in the United States and classify them for more intensive study, (2) describe chemical temporal variability and biological resources in subsets of surface waters, and (3) provide a foundation for documenting trends in surface water chemistry through long-term monitoring. The NSWS is one of several major projects in the Acid Deposition Aquatic Effects Research Program (AERP). This program, one of many research programs investigating acidic deposition, is administered in the Acid Deposition and Atmospheric Research Division: Office of Acid Deposition, Environmental Monitoring and Quality Assurance, in the U.S. EPA Office of Research and Development.

The AERP addresses four primary assessment questions:

1. How extensive is the change in aquatic resources as a result of current levels of acidic deposition?
2. What is the anticipated extent and rate of change to these resources in the future?
3. What levels of change in sensitive surface waters are associated with various rates of acidic deposition?
4. What is the rate of change or recovery of affected systems, given decreases in acidic deposition rates?

Five major research projects within the AERP specifically address these assessment questions from a regional perspective. These projects and their goals are:

1. **National Surface Water Survey (NSWS):** To determine the present chemistry, characterize the chemical temporal variability, and determine the key biological resources of lakes and streams in potentially sensitive regions of the United States.

2. **Direct/Delayed Response Project (DDRP):** To predict changes in these aquatic resources at various levels of acidic deposition, considering the terrestrial and aquatic variables that influence these changes.

3. **Watershed Manipulation Project (WMP):** To verify that predictions of future change are reasonably sound by manipulating watershed catchments or system components.

4. **Episodic Response Project (ERP):** To evaluate the regional importance of short-term acidification resulting from episodic hydrologic events and its effect on the quality of the biological environment.

5. **Temporally Integrated Monitoring of Ecosystems Project (TIME):** To test the validity of predicted changes through long-term monitoring of regionally characteristic lakes and streams.

The NSWS, including surveys of lakes and streams, addresses the first goal of the AERP. Understanding the national-scale effects of acidic deposition on aquatic resources requires that

the present chemical status of surface waters be understood on large geographical scales. The National Stream Survey - Phase I (NSS-I), conducted in the mid-Atlantic and southeastern United States, was designed to describe, statistically, the present surface water chemistry on a regional scale. Although cause-and-effect relationships between acidic deposition and surface water response cannot be determined on the basis of NSS-I data alone, analysis of correlative relationships within the NSS-I data base and other information do further our understanding (and will continue to do so) of the extent to which mid-Atlantic and southeastern streams are at risk due to acidic deposition. Determining the relationship between acidic deposition and surface water chemistry is the goal of future activities within the AERP.

The National Stream Survey is funded and administered by the U.S. EPA, Office of Acid Deposition, Environmental Monitoring, and Quality Assurance (OADEMQA) in Washington, D.C. The Environmental Research Laboratory - Corvallis (ERL-C), with cooperating contracts with Utah State University, Oregon State University, and Northrop Environmental Services, is responsible for coordinating the activities of the Survey and for project design, data validation, geographic analysis, and data interpretation. The Environmental Monitoring Systems Laboratory - Las Vegas (EMSL-LV) is responsible for quality assurance and quality control, logistics, and analytical support. Oak Ridge National Laboratory (ORNL) is responsible for developing and maintaining the data base management system for the Survey. ORNL also participated in data interpretation, provided statistical programming to implement the target population characterizations, and did mapping and other geographic analysis.

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RELATED DOCUMENTS

Supplemental information on the National Stream Survey - Phase I (NSS-I) can be found in the series of ancillary manuals and reports. These publications include:

Draft Sampling Plan for Streams in the National Surface Water Survey. 1985. Technical Report 114 (July 1986). Overton, W.S. Department of Statistics, Oregon State University, Corvallis, Oregon, 97331.

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SECTION 1
INTRODUCTION

Field sampling for the National Stream Survey - Phase I (NSS-I) was conducted over a two-year period in 1985 and 1986 by the U.S. Environmental Protection Agency (EPA) as part of the National Acid Precipitation Assessment Program (NAPAP). In 1985, a Pilot Study was conducted in the Southern Blue Ridge mountains to demonstrate the feasibility of a synoptic stream survey (Messer et al., 1986, 1988). In 1986, Phase I sampling was conducted in subregions of the mid-Atlantic and southeastern United States. The results of these surveys are presented in the first volume of this report.

This second volume of the NSS-I report presents basic data and provides supplemental analyses of populations that are not included in Volume I. Section 2 of Volume II lists selected physical and chemical variables measured at each stream sampling location and visit. Section 3 presents a series of maps, one for each subregion of the survey, showing the lower node sampling location for each reach labeled by its NSS-I reach identification number (RCH_ID). The stream name, state, county, latitude, and longitude of each lower node sampling location are listed in Section 4 in two different formats: first sorted by RCH_ID and then by state and county names. The regular stream reaches identified in the survey's Stage II sampling design (see Section 2.4 of Volume I for more details on site selection procedures) are listed separately from the special interest sites that were sampled during the survey. In Section 5, descriptive statistics and population distribution functions are presented for selected physical and chemical variables stratified by region and by subregion. The statistics presented in Section 5 are for the index values derived separately at the upstream and the downstream nodes of the target reaches. Selected physical data describing individual reaches and their watershed characteristics, including watershed area, stream order, elevation, gradient, stream width and depth, and the overall sample weights used in calculating population estimates, are listed in Section 6. Selected chemical data from each reach are listed in a series of four tables in Section 7. Separate tables are presented for the following groups of variables: major cations and anions (Table 7-1); acid neutralizing capacity, pH, and related variables (Table 7-2); aluminum, other metals, and dissolved organic carbon (Table 7-3); and nutrients and other water quality variables (Table 7-4). Not all the variables contained in the NSS-I data base are presented in this volume. For additional details on the contents of the NSS-I data base, see Sale (1988).

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SECTION 2
DEFINITION OF VARIABLES

Physical and chemical variables were measured at each stream sampled in the survey (Table 2-1) using standardized protocols (see Volume I, Section 3). These variables were selected to satisfy the primary objectives of the survey: to construct a geographically extensive set of information from which the extent and chemical status of streams potentially affected by acidic deposition could be determined. The data were incorporated into a computerized data base using SAS software (Volume I, Section 3.8; Sale, 1988) and were subjected to exhaustive verification and validation analyses (Volume I, Section 3). Table 2-2 presents definitions of variables presented in this volume, including the units of measurement and a brief description of the methods of analysis. More extensive descriptions of water sampling and chemical analytical methods can be found in Hillman et al. (1987), Drouse et al. (1986), and Hagley et al. (1988).

Not all the variables contained in the NSS-I data base are presented in this volume because of space limitations. For example, secondary variables that were calculated from the original variables, such as sum of cations or sum of anions, are not presented. Certain other qualitative watershed characteristics observed during site visitation, such as local land use or stream habitat, are also not presented here. The intent of this data presentation is to provide enough information to permit replication of any of the analyses in the report. Only those variables reported in this volume are listed in Table 2-2.

Table 2-1. Physical and chemical variables measured in Phase I of the survey (See Table 2-2 for methods and units of measurement)

Site/In-situ Measurements	Processing Laboratory Measurements	Analytical Laboratory Measurements
Stage height[1]	Total monomeric (PCV) aluminum[2]	Acid neutralizing capacity
Stream width	Nonexchangeable monomeric (organic) aluminum (PCV)	Extractable aluminum (MIBK)
Stream depth	pH (closed headspace)	Total aluminum
Local land use[1]	Dissolved inorganic carbon	Ammonium
Local stream habitat[1]	True color	Base neutralizing capacity
Cloud cover[1]	Turbidity	Calcium
Weather conditions[1]		Chloride
Field pH (open headspace)[1]		Specific conductance
Field pH (closed headspace)[1,3]		Dissolved inorganic carbon (initial)
Dissolved oxygen[1]		Dissolved inorganic carbon (air equilibrated)
Specific conductance		Dissolved organic carbon
Water temperature[1]		Fluoride
Current velocity[1]		Iron
		Magnesium
		Manganese
		Nitrate
		Organic aluminum
		pH (air equilibrated)
		Phosphorus
		Potassium
		Silica
		Sodium
		Sulfate

[1] Not analyzed in this volume of the report.
[2] Not measured during the NSS-I Pilot Survey (subregion 2As).
[3] Measured only in the NSS-I Pilot Survey (subregion 2As).

Table 2-2. Definition of variables presented in this volume

Name in Data Base	Variable Definition	Units
A_WS	Total drainage area above the sampling site.	km^2
A1	Direct drainage area contributing to a reach (not converted to metric units for reasons of statistical protocol).	mi^2
ACCO11	Acidity, or base neutralizing capacity, a measure of the amount of base necessary to neutralize the carbonate species, hydronium, and other acids in a sample. Determined by the analytical laboratory using Gran analysis of base titration data.	$\mu eq\ L^{-1}$
ALDS16	Total monomeric aluminum measured by the processing laboratory using pyrocatechol violet (PCV) and automated flow injection analyzer (not measured in Pilot Survey).	μM
ALEX16	Extractable aluminum, an estimate of the monomeric aluminum complexes (Al^{3+}). A filtered, unacidified sample was complexed with 8-hydroxyquiniline and extracted with methyl-isobutyl-ketone (MIBK) at the processing laboratory. The extract was analyzed by the analytical laboratory using Graphite furnace (GF) atomic absorption spectroscopy (AAS).	μM
ALKA11	Alkalinity, or acid neutralizing capacity (ANC), a measure of the amount of acid necessary to neutralize the bicarbonate, carbonate, hydroxyl, and other bases in a sample. Determined by the analytical laboratory using Gran analysis of acid titration data.	$\mu eq\ L^{-1}$
ALOR16	Nonexchangeable monomeric (organic) aluminum as measured by the processing laboratory (measured in the Pilot Survey using MIBK method and in the Phase I Survey using PCV method, after passing the sample through a strong cation exchange column).	μM
ALTL16	Total aluminum as measured by the analytical laboratory in an unfiltered, acidified (HNO_3) aliquot after digestion by GFAAS.	$\mu g\ L^{-1}$

Table 2-2. Definition of variables presented in this volume (continued)

Name in Data Base	Variable Definition	Units
CA16	Dissolved calcium as measured by the analytical laboratory in an acidified, filtered aliquot using flame AAS.	μeq L^{-1}
CL16	Chloride ion as measured by the analytical laboratory using suppressed ion chromatography.	μeq L^{-1}
COLVAL	True color, as measured at the processing laboratory. A sample was centrifuged to remove suspended matter and analyzed using a Hach Model CO-1 Color Test Kit.	PCU
CO316	Carbonate calculated from dissolved inorganic carbon (DICI11), initial pH from the acidity titration, and carbonic acid dissociation constants.	μeq L^{-1}
COND11	Specific conductance as determined by the analytical laboratory.	μS cm^{-1}
DICE11	Air-equilibrated dissolved inorganic carbon as determined by the analytical laboratory. An unfiltered, unacidified aliquot was purged for 20 minutes with 300 ppm CO_2 in air, drawn, filtered, and analyzed using a carbon analyzer (see PHEQ11).	mg L^{-1}
DICI11	Dissolved inorganic carbon as determined by the analytical laboratory. A sample from the unfiltered, unacidified aliquot was drawn directly into a syringe, filtered, and analyzed using a carbon analyzer.	mg L^{-1}
DOC11	Dissolved organic carbon determined by the analytical laboratory on a filtered, acidified (H_2SO_4) aliquot using a carbon analyzer.	mg L^{-1}
DO_IS	Dissolved oxygen measured on site by the field crew.	mg L^{-1}
DRPCDE	This variable (drop code) identifies noninterest observations to be deleted from statistical analyses (1=unmatched node, 2=noninterest attribute (e.g., tidal influence, episode), 3=acid-mine drainage, 4=Pilot Survey nonspring index sample, and 5=Special interest site).	1-5

Table 2-2. Definition of variables presented in this volume (continued)

Name in Data Base	Variable Definition	Units
ELEV	Elevation of the sampling site taken from 1:24,000-scale USGS topographic maps.	m
FE16	Dissolved iron as determined by the analytical laboratory using flame AAS or inductively coupled plasma emission spectroscopy (ICPES).	μM
FTL16	Total dissolved fluoride as determined by the analytical laboratory. A filtered, unacidified aliquot was analyzed using an ion-sensitive electrode.	μM
GRADE	Stream gradient calculated from difference in elevation and distance between upper and lower sampling sites (note: distance used is between actual sampling sites, not between mapped confluences).	percent (%)
HCO316	Bicarbonate calculated from dissolved inorganic carbon (DICI11), initial pH from the acidity titration, and carbonic acid dissociation constants.	μeq L^{-1}
H16	Hydronium ion calculated from the initial acidity titration pH.	μeq L^{-1}
K16	Dissolved potassium as determined by the analytical laboratory using flame AAS or ICPES.	μeq L^{-1}
LAT_STD	Latitude of sampling location.	decimal degrees
LON_STD	Longitude of sampling location.	decimal degrees
MAP1	Name of USGS 1:24,000-scale map on which sampling site is located.	
MG16	Dissolved magnesium as determined by the analytical laboratory using flame AAS or ICPES.	μeq L^{-1}
MN16	Dissolved manganese as determined by the analytical laboratory using flame AAS or ICPES.	μeq L^{-1}
NA16	Dissolved sodium as determined by the analytical laboratory using flame AAS or ICPES.	μeq L^{-1}

Table 2-2. Definition of variables presented in this volume (continued)

Name in Data Base	Variable Definition	Units
NH416	Ammonium as determined by the analytical laboratory. A filtered, acidified (H_2SO_4) aliquot was analyzed using automated colorimetry (phenate).	μeq L^{-1}
NODE	Position of sampling site at upper (U) or lower (L) end of the reach.	U or L
NO316	Nitrate ion as determined by the analytical laboratory. A filtered, unacidified aliquot was analyzed using ion chromatography.	μeq L^{-1}
OH16	Hydroxide ion calculated from the initial acidity titration pH.	μeq L^{-1}
PH_R	Sample pH measured at the field site in an open container with portable meter (Beckman pHI-21) and glass combination electrode (Orion Ross Model 8104).	pH units
PHEQ11	Air-equilibrated pH as determined by the analytical laboratory in an unfiltered, unacidified aliquot aerated with 300 ppm CO_2 air for 20 minutes.	pH units
PHSTVL	Closed headspace pH as determined by the processing laboratory using pH meter (Orion Model 611) and glass combination electrode (Orion Model 8104) on a sealed syringe sample.	pH units
PTD16	Total dissolved phosphorus as determined by the analytical laboratory using automated colorimetric phospho-molybdate methods on a filtered acidified (H_2SO_4) aliquot. Not measured in the NSS-I Pilot Survey.	μM
PTL16	Total phosphorus as determined by the analytical laboratory using automated colorimetric phospho-molybdate methods on an unfiltered acidified (H_2SO_4) aliquot. Measured only in the NSS-I Pilot Survey.	μM
QUAD	Name of 1:250,000-scale USGS map on which stream reach appears.	

Table 2-2. Definition of variables presented in this volume (continued)

Name in Data Base	Variable Definition	Units
RCH_HW	Number of headwater reaches (Shreve order from 1:250,000-scale map).	
RCH_LN	Reach length between nodes.	km
RCH_ID	Reach identification number.	
REGION	NSS-I region name.	
SAMRN	Site visit or replicate number.	
SHRE75	Shreve stream order from 1:24,000-scale USGS maps.	
SIO216	Silica as determined by the analytical laboratory using automated colorimetry (molybdate blue).	μeq L^{-1}
SO416	Sulfate ion as determined by the analytical laboratory using ion chromatography.	μeq L^{-1}
SOBC	Sum of base cations (NA16 + K16 + MG16 + CA16)	μeq L^{-1}
STATE1	State identification code (2-character postal code).	
STRA75	Strahler stream order from 1:24,000-scale USGS maps.	
STRATUM	This variable and SUB_ID uniquely distinguish reaches from different statistical strata in the survey design	1=regular 2=low ANC
STRM_ID	Identification number for a stream sampling site consisting of RCH_ID and NODE together.	
STRMDP	Average stream depth at the sampling site.	m
STRMNAM	Stream name.	
STRMWD	Width of the stream at the sampling site.	m
SUB_ID	NSS subregion identifier code (Figure 3-1).	
TMPSTR	Stream temperature at time of sampling.	degrees C

Table 2-2. Definition of variables presented in this volume (continued)

Name in Data Base	Variable Definition	Units
TURVAL	Turbidity as determined by the processing laboratory using a nephelometer.	NTU
WC	Conditional stage II subsampling weight.	
W	Final sample weight to be used in extrapolating from sample to population: W=WC*64/A1. If A1 was < 0.2 mi^2, W was calculated assuming A1=0.2 mi^2.	reaches

SECTION 3
SUBREGION MAPS

This section provides maps showing the location of the general NSS-I study area and all the streams that were sampled. Figure 3-1 shows the major NSS-I subregions within which survey activities were confined. As described in Section 2.3 of Volume I, these areas were previously identified as being susceptible to acidic deposition. Figures 3-2 through 3-10 show the individual sampling locations within each subregion. Regular, special interest, and non-interest streams are shown in these figures with a substring of the stream identification number used as a label on each point for cross reference purposes. The partial identification number shown on the maps consists of the fourth through eighth digits of the full identification number for all Phase I sites except for the Pilot Survey (Figure 3-6). For the Southern Blue Ridge subregion, the fourth through seventh digits are shown because the Pilot Survey used identification numbers that were one digit shorter. Only the lower node of each stream reach is shown in these figures. The two strata of regular streams are related to the NSS-I sampling design as explained in Volume I, Section 2.4. The noninterest streams shown are those that were identified as influenced by acid mine drainage or other factors, including episodes of rainfall, tidal effects, etc. The reasons for noninterest classification are listed in Section 4 (Table 4-3). The regions and subregions studied in Phase I of the survey are the following:

Region (Area)	Subregion code	Subregion name
Mid-Atlantic (Interior)	1D	Poconos/Catskills
Mid-Atlantic (Interior)	2Cn	Northern Appalachians
Mid-Atlantic (Interior)	2Bn	Valley and Ridge
Mid-Atlantic (Coastal Plain)	3B	Mid-Atlantic Coastal Plain
Southeast (Interior)	2As (Pilot Survey)	Southern Blue Ridge
Southeast (Interior)	3A	Piedmont
Southeast (Interior)	2X	Southern Appalachians
Southeast (Interior)	2D	Ozarks/Ouachitas
Southeast (Florida)	3C	Florida

SUBREGIONS OF THE NATIONAL STREAM SURVEY - PHASE I

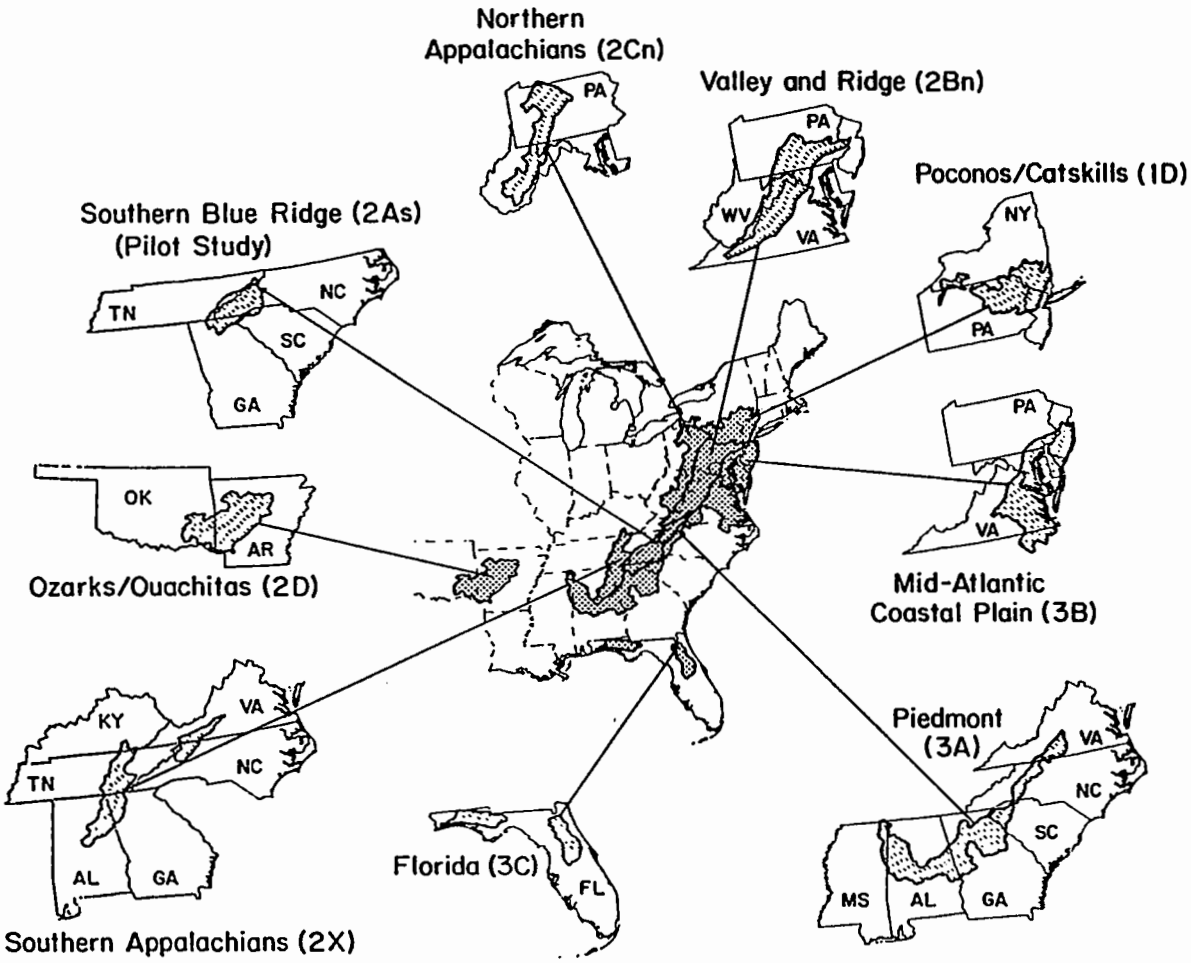


Figure 3-1. Subregions sampled in Phase I of the National Stream Survey.

POCONOS/CATSKILLS - 1 D

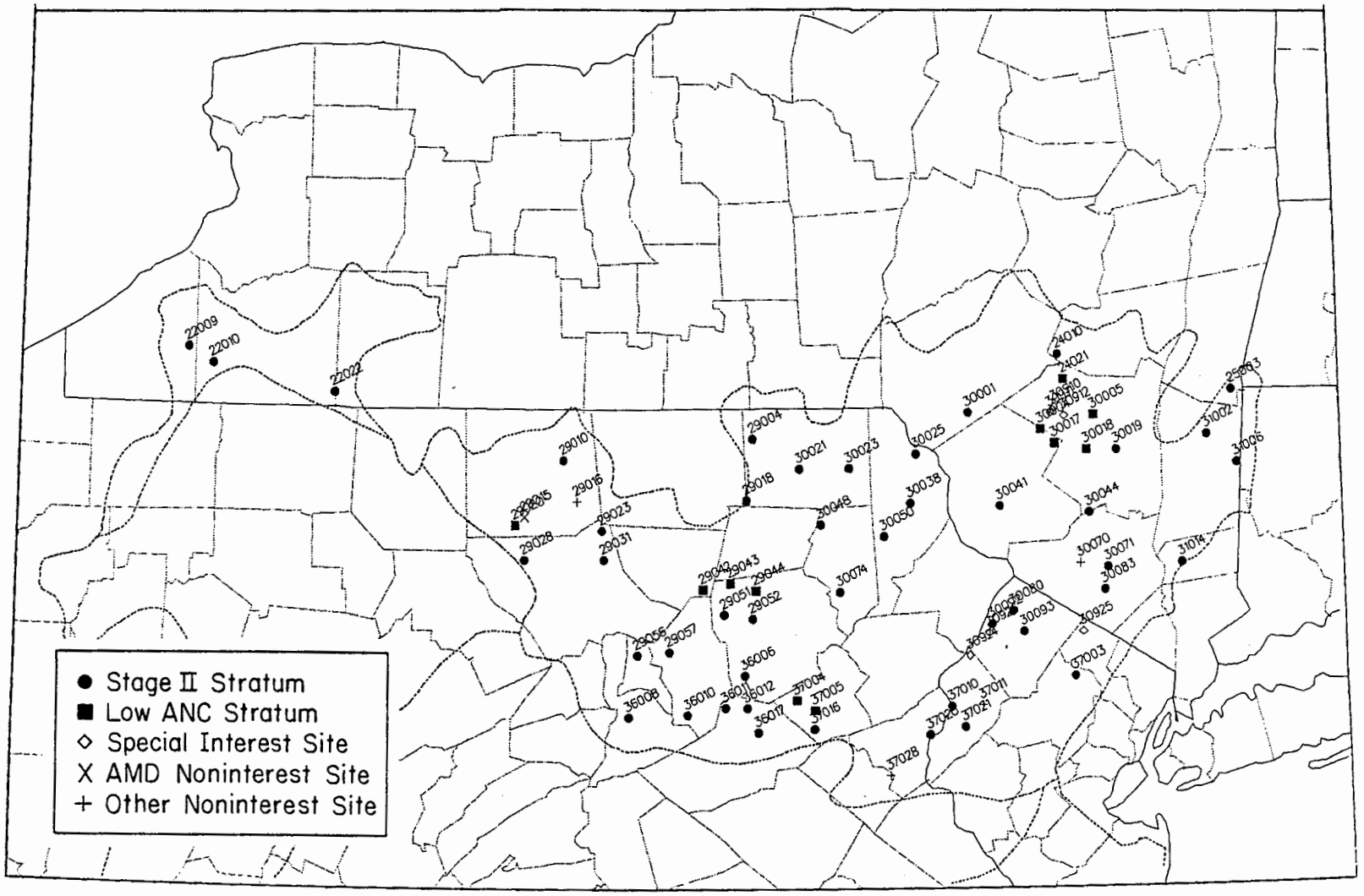


Figure 3-2. Lower node sampling locations of streams in the Poconos/Catskills subregion (1D), Mid-Atlantic Region.

NORTHERN APPALACHIANS - 2Cn

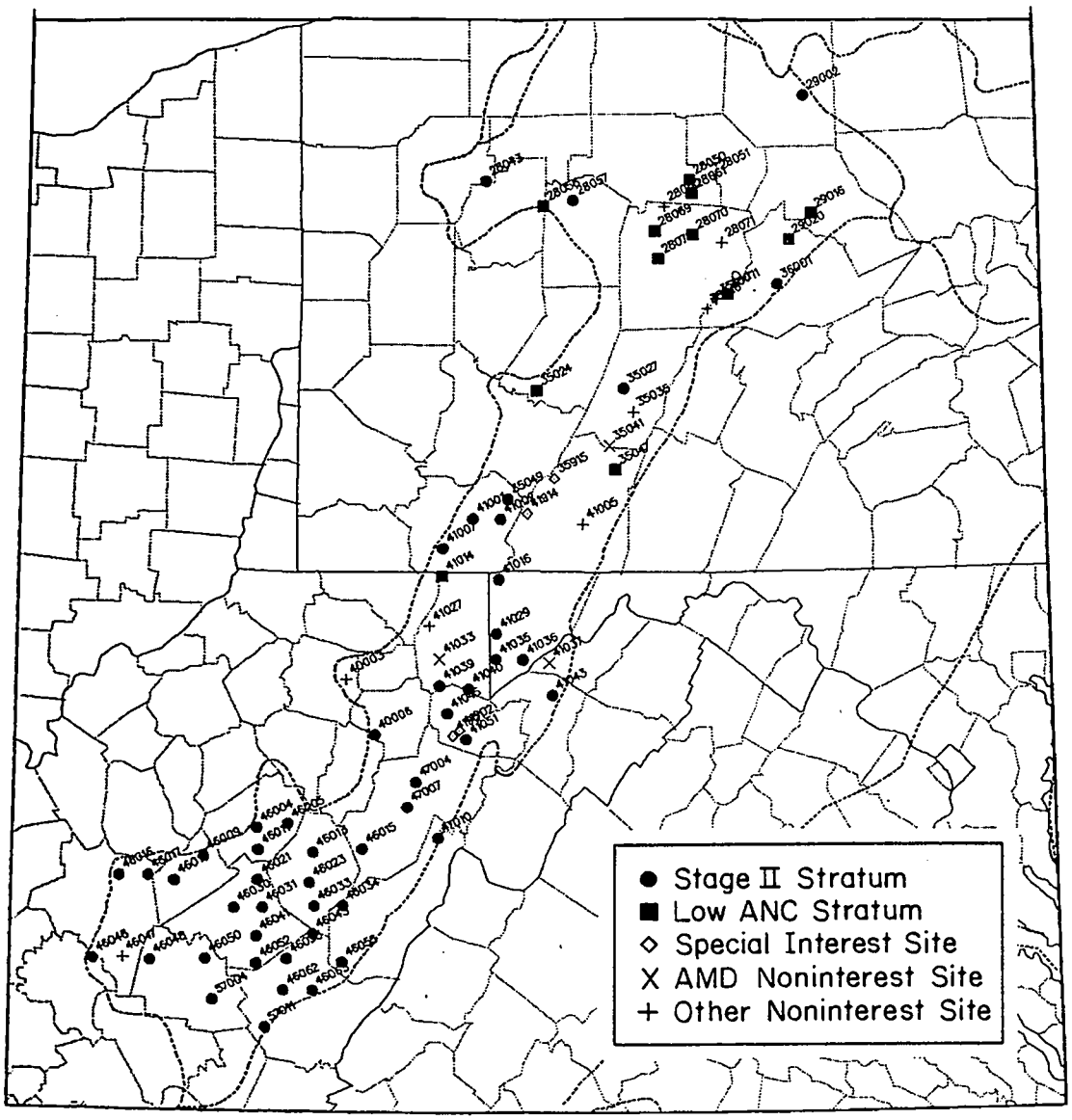


Figure 3-3. Lower node sampling locations of streams in the Northern Appalachians subregion (2Cn), Mid-Atlantic region.

VALLEY and RIDGE - 2Bn

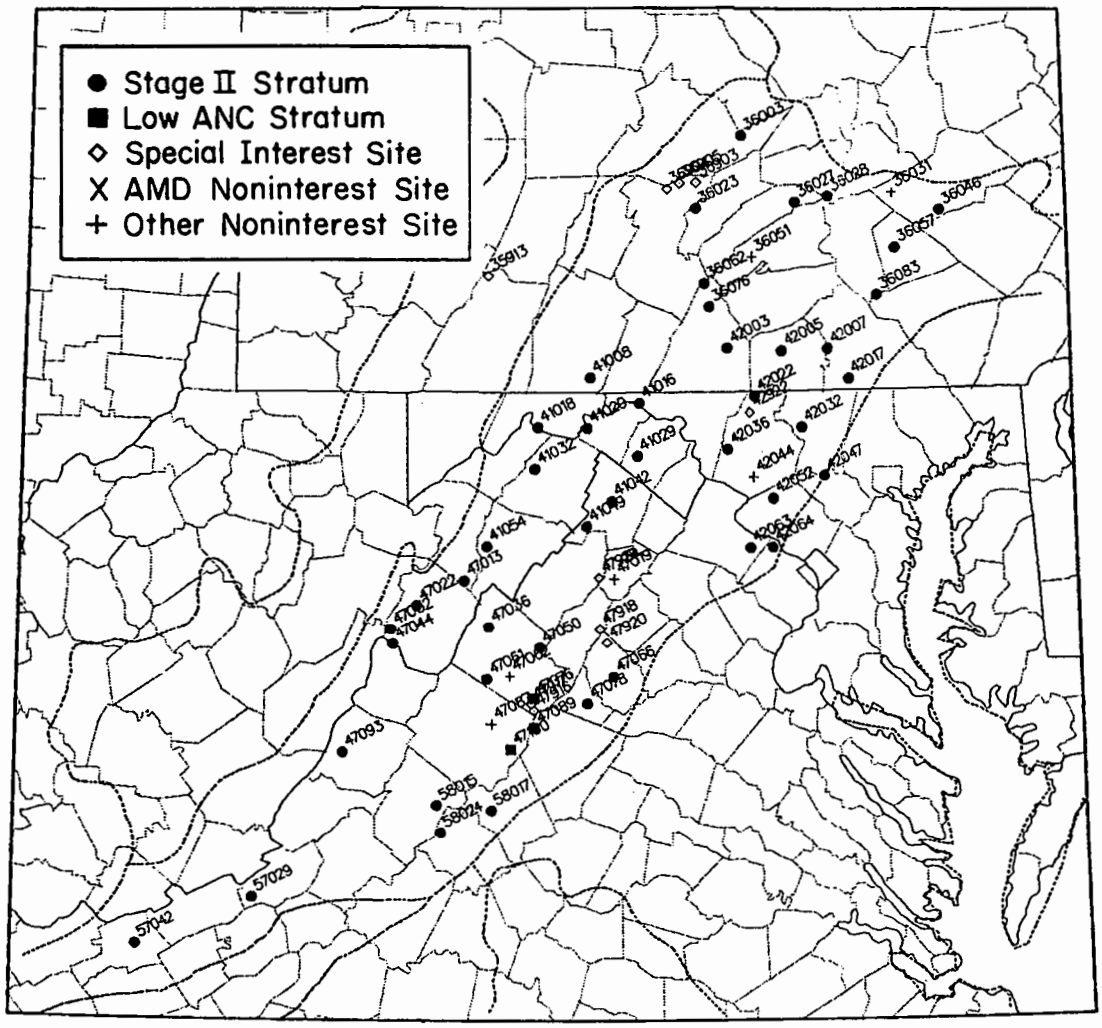


Figure 3-4. Lower node sampling locations of streams in the Valley and Ridge subregion (2Bn), Mid-Atlantic region.

MID-ATLANTIC COASTAL PLAIN - 3B

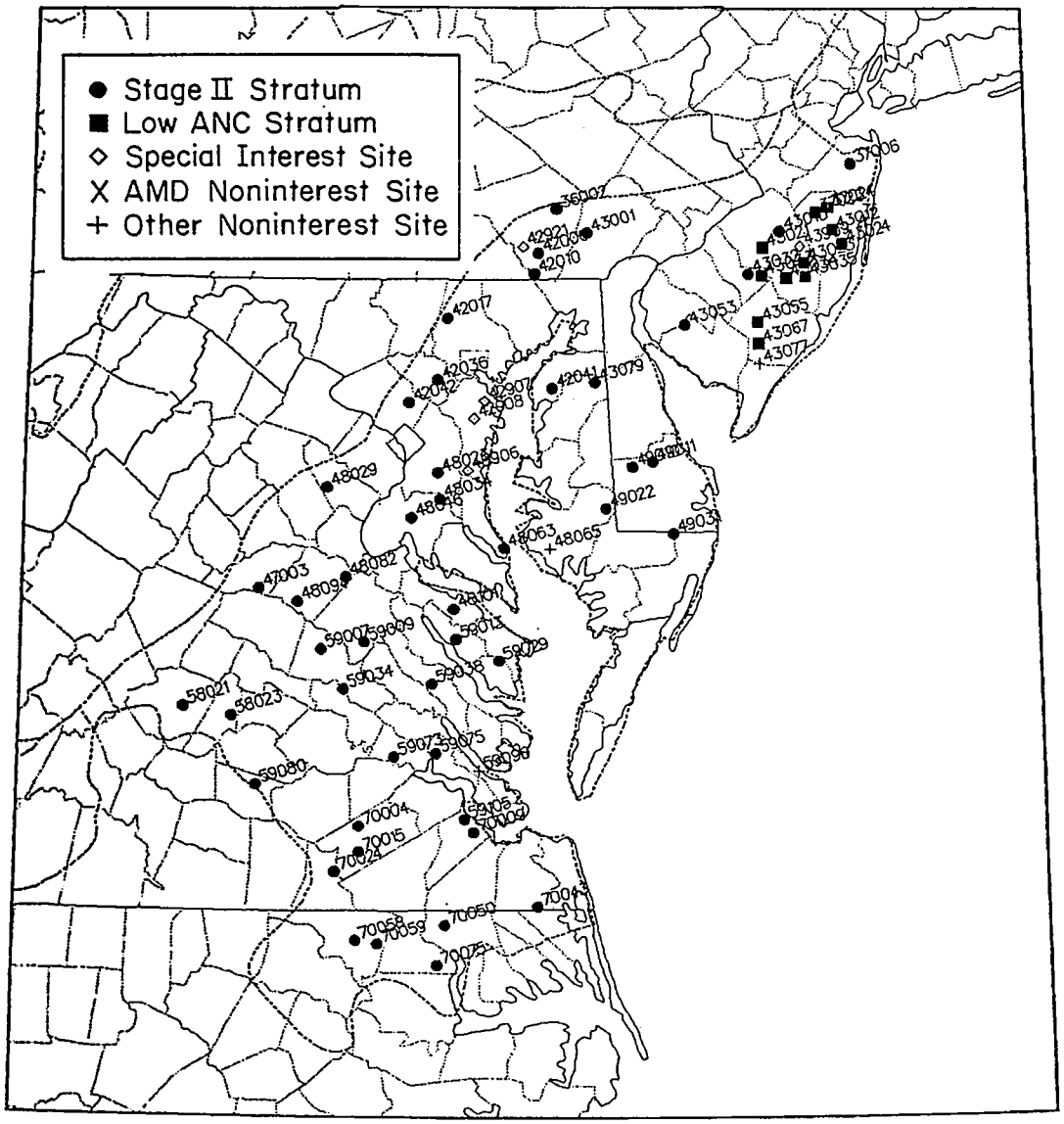


Figure 3-5. Lower node sampling locations of streams in the Mid-Atlantic Coastal Plain subregion (3B), Mid-Atlantic region.

SOUTHERN BLUE RIDGE - 2As

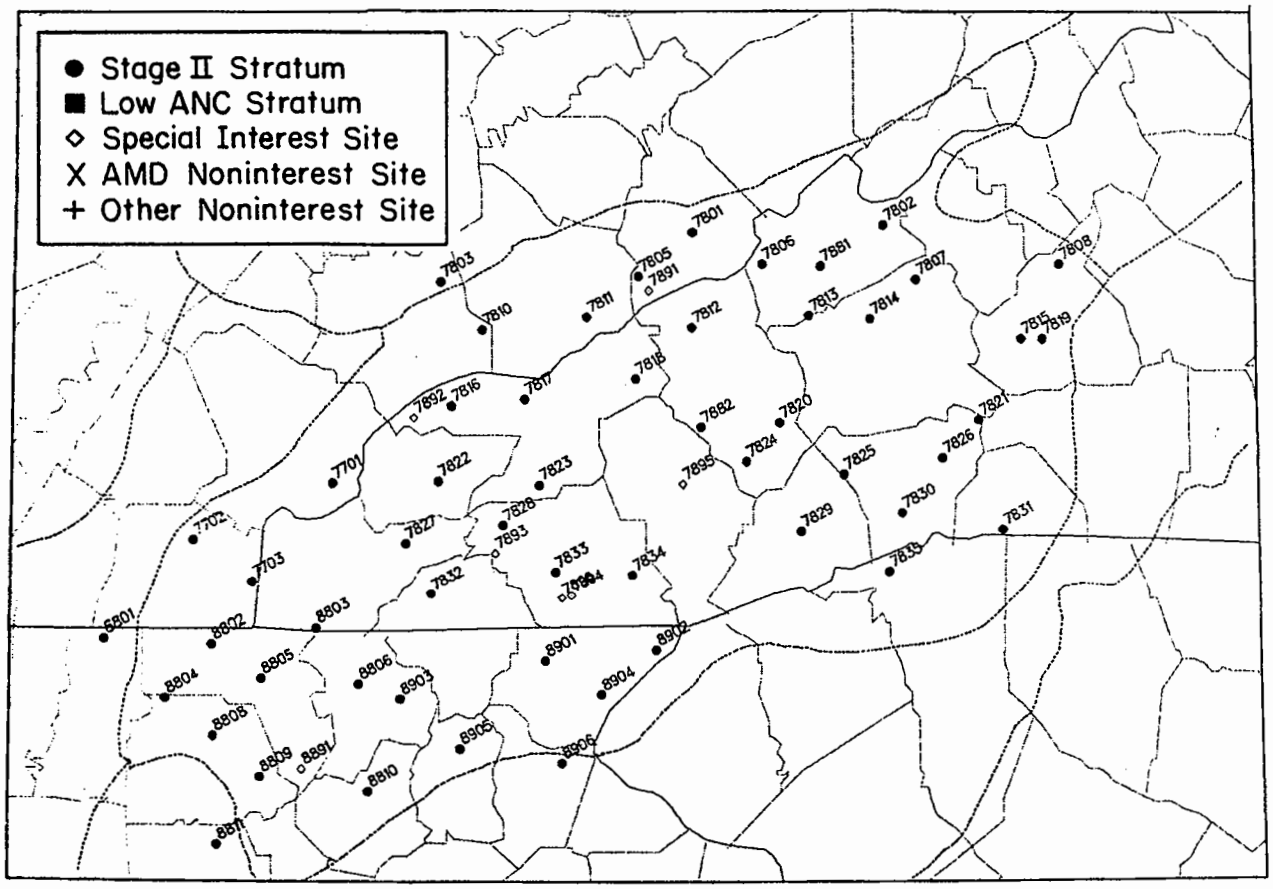


Figure 3-6. Lower node sampling locations of streams in the Southern Blue Ridge subregion (2As), Southeastern Region and Phase I Pilot Study.

PIEDMONT - 3A

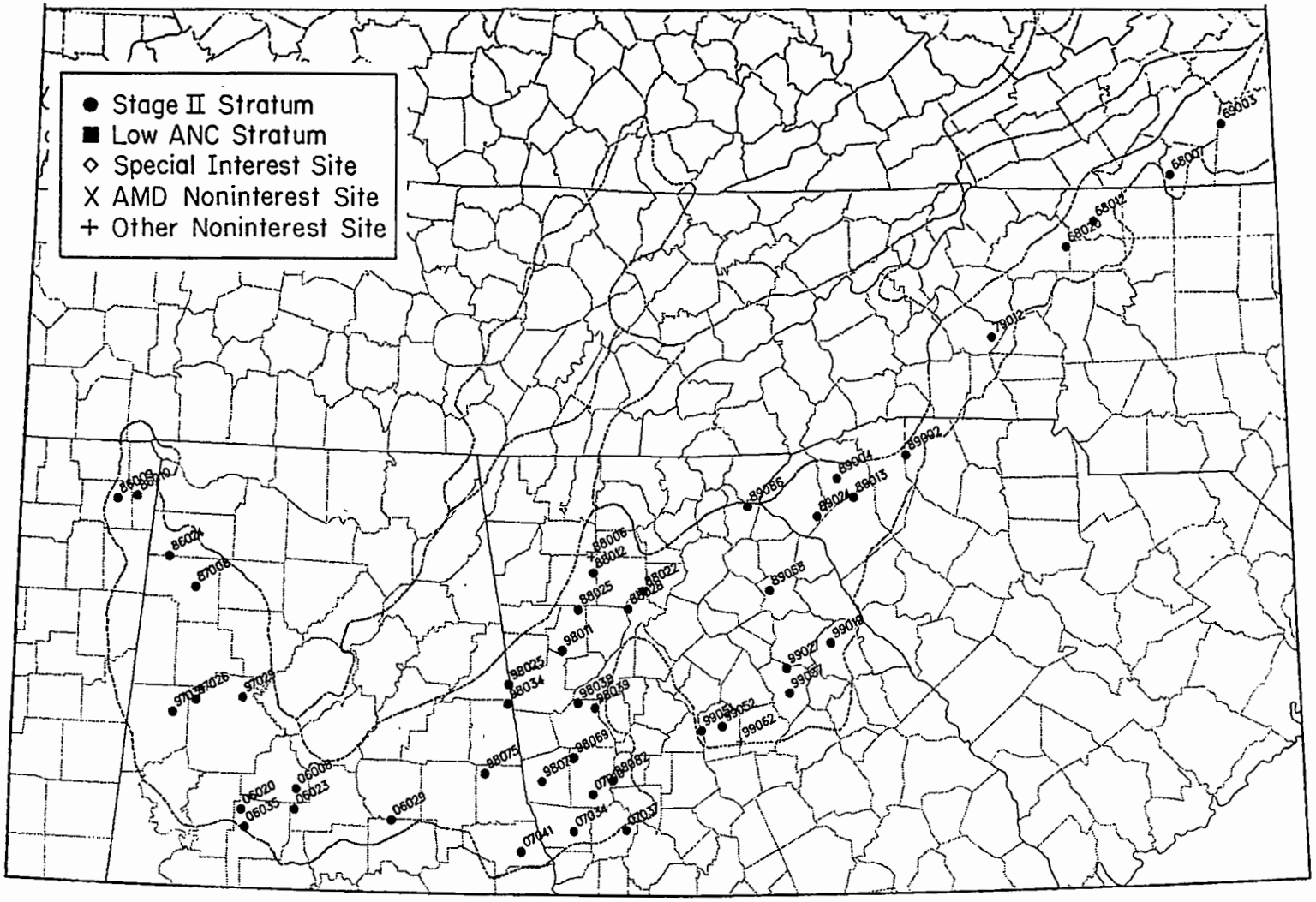


Figure 3-7. Lower node sampling locations of streams in the Piedmont subregion (3A), Southeastern region.

SOUTHERN APPALACHIANS - 2X

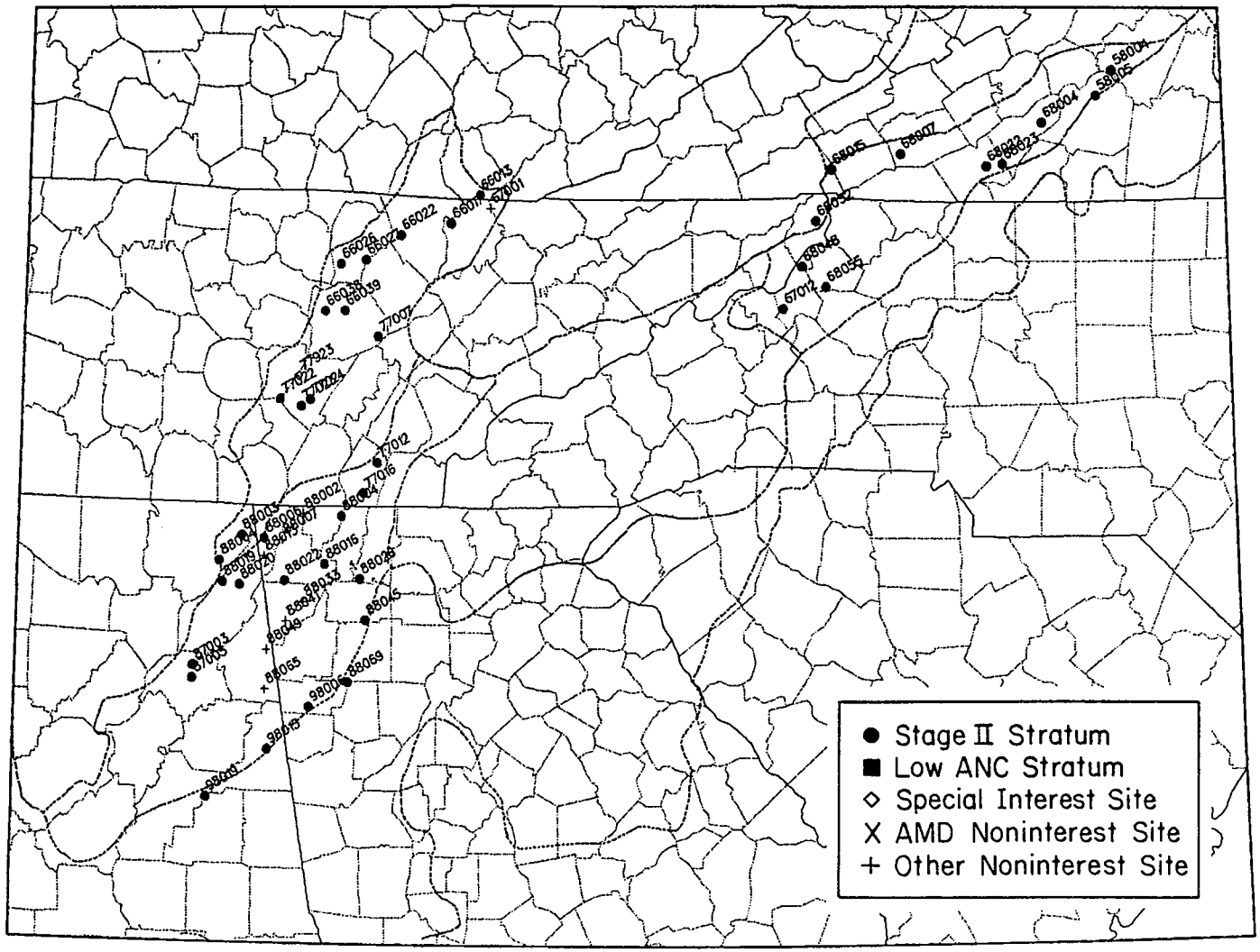


Figure 3-8. Lower node sampling locations of streams in the Southern Appalachians subregion (2X), Southeastern region.

OZARKS/OUACHITAS - 2D

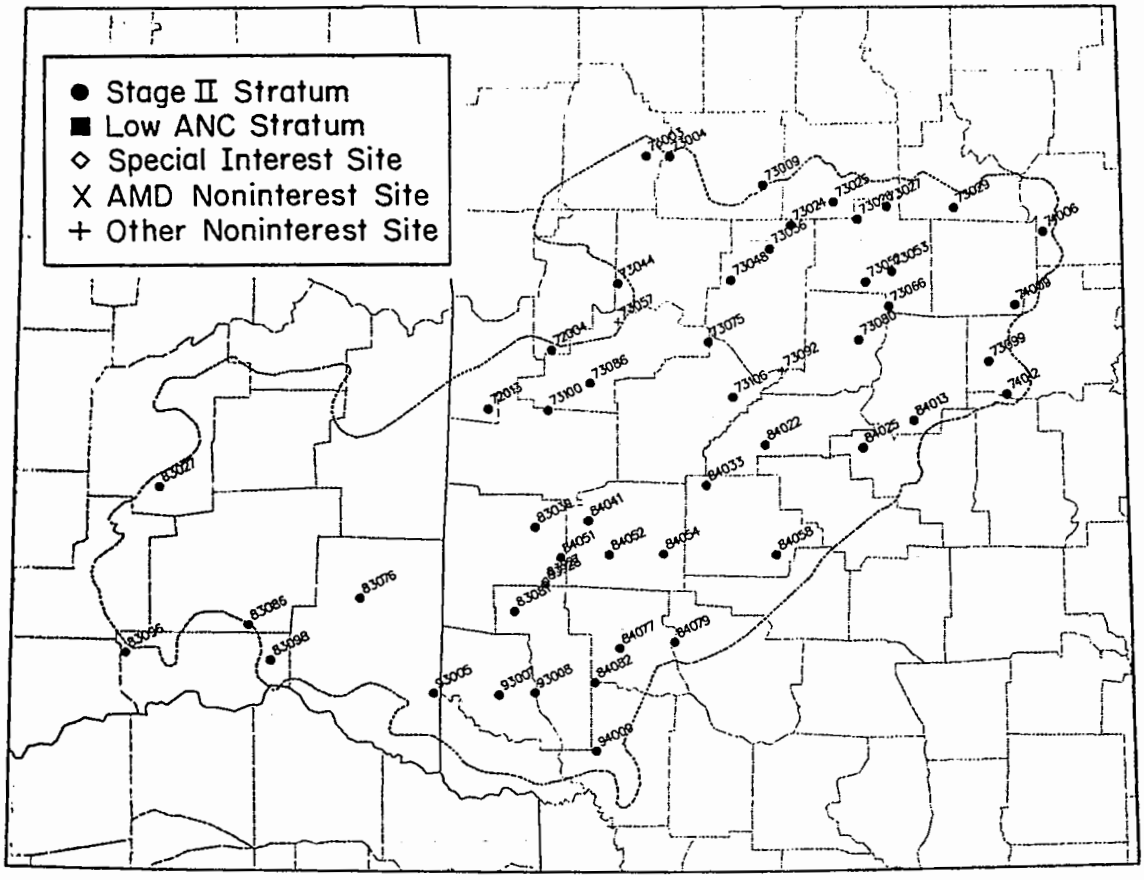


Figure 3-9. Lower node sampling locations of streams in the Ozarks/Ouachitas subregion (2D), Southeastern region.

FLORIDA - 3C

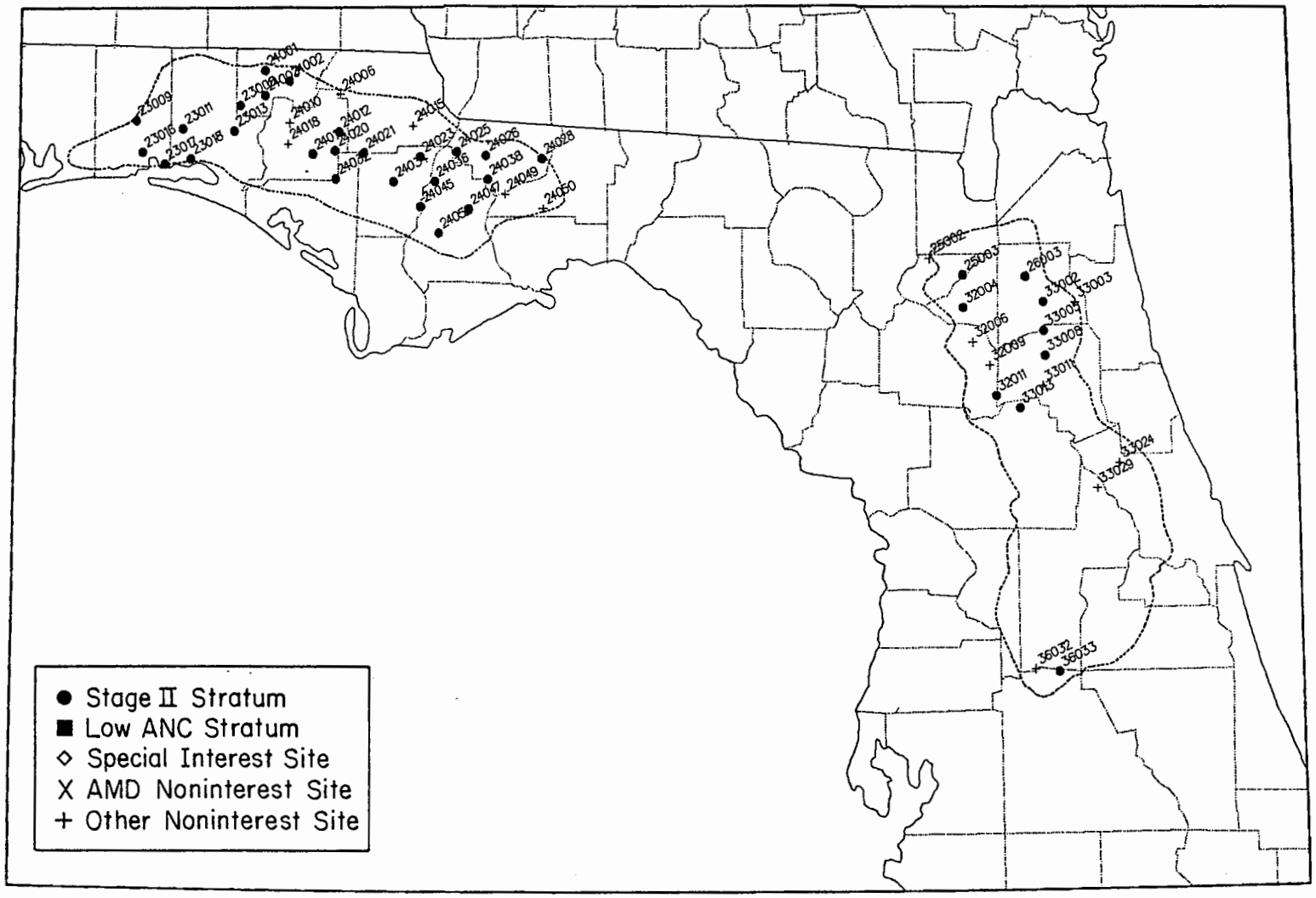


Figure 3-10. Lower node sampling locations of streams in the Florida subregion (3C), Southeastern region.

SECTION 4
STREAM NAMES AND LOCATIONS

This section lists the names and location data for all streams that were sampled in the NSS-I. Regular streams (those that were part of the stratified random probability sample described in Section 2, Volume I) are listed in Tables 4-1 and 4-2. For ease of use, two formats have been used in these listings: Table 4-1 presents regular streams ordered by their identification number, and Table 4-2 presents the same data organized by state and county names. The tables include the stream identification number (RCH_ID), the state and county name within which the lower node of each reach is located (STATE1 and COUNTY1), the stream name taken from USGS maps (STRMNAM), the latitude and longitude (in decimal degrees) of the lower node of each reach (LAT_STD and LON_STD), the name of the 1:250,000-scale USGS map from which the stream was originally identified (QUAD), and the NSS-I subregion to which each stream is assigned (SUB_ID; see Figure 3-1). In both Tables 4-1 and 4-2, sites that were determined to be noninterest are identified with an asterisk beside their RCH_ID. The reasons for designating sites as noninterest are listed in Table 4-3. The special interest sites visited during Phase I are listed in Table 4-4 sorted by their identification numbers and in Table 4-5 sorted by state and county.

Table 4-1 Names and locations of regular streams sorted by identification number

Reach number	Sub-region	State	County	Stream name	Latitude	Longitude
1D022009	1D	NY	CHAUTAUQUA	CLEAR CREEK	42°12'54"N	79°05'56"W
1D022010	1D	NY	CATTARAUGUS	ELM CREEK	42°09'21"N	78°57'55"W
1D022022	1D	NY	ALLEGANY	DODGE CREEK	42°03'29"N	78°18'52"W
1D024010	1D	NY	GREENE	VLY CREEK	42°11'36"N	74°28'40"W
1D024021	1D	NY	ULSTER	ESOPUS CREEK	42°06'04"N	74°27'00"W
1D025003	1D	NY	COLUMBIA	NO NAME	42°02'51"N	73°33'47"W
1D029004	1D	PA	SUSQUEHANNA	NORTH BRANCH WYALUSING CREEK	41°53'28"N	76°05'12"W
1D029010	1D	PA	TIOGA	COREY CREEK	41°48'38"N	77°05'03"W
1D029015*	1D	PA	TIOGA	BABB CREEK	41°35'49"N	77°17'22"W
1D029016*	1D	PA	TIOGA	FALL BROOK	41°39'26"N	77°00'15"W
1D029018	1D	PA	SUSQUEHANNA	TRANSUE CREEK	41°39'37"N	76°07'09"W
1D029020	1D	PA	TIOGA	DIXIE RUN	41°34'02"N	77°20'21"W
1D029023	1D	PA	LYCOMING	NORTH BRANCH ROCK RUN	41°32'47"N	76°52'15"W
1D029028	1D	PA	LYCOMING	ENGLISH RUN	41°26'09"N	77°17'24"W
1D029031	1D	PA	LYCOMING	EAST BRANCH WALLIS RUN	41°26'16"N	76°51'39"W
1D029042	1D	PA	SULLIVAN	HEBERLY RUN	41°19'34"N	76°20'48"W
1D029043	1D	PA	LUZERNE	SOUTH BRANCH BOWMAN CREEK	41°20'54"N	76°12'23"W
1D029044	1D	PA	LUZERNE	HARVEYS CREEK	41°19'13"N	76°04'26"W
1D029051	1D	PA	LUZERNE	KITCHEN CREEK	41°13'55"N	76°14'18"W
1D029052	1D	PA	LUZERNE	HUNLOCK CREEK	41°12'57"N	76°05'28"W
1D029056	1D	PA	MONTOUR	W.BRANCH CHILLISQUAQUE CREEK	41°04'46"N	76°41'07"W
1D029057	1D	PA	COLUMBIA	LITTLE FISHING CREEK	41°05'29"N	76°31'14"W
1D030001	1D	NY	DELAWARE	RUSSELL BROOK	41°58'53"N	74°57'21"W
1D030004	1D	NY	ULSTER	EAST BRANCH NEVERSINK RIVER	41°54'58"N	74°34'28"W
1D030005	1D	NY	ULSTER	NO NAME	41°57'57"N	74°17'42"W
1D030017	1D	NY	SULLIVAN	RONDOUT CREEK	41°51'48"N	74°30'07"W
1D030018	1D	NY	ULSTER	SAPBUSH CREEK	41°50'20"N	74°20'06"W
1D030019	1D	NY	ULSTER	KRIPPLEBUSH CREEK	41°50'07"N	74°10'44"W
1D030021	1D	PA	SUSQUEHANNA	NO NAME	41°46'39"N	75°50'47"W
1D030023	1D	PA	SUSQUEHANNA	ROCK CREEK	41°46'42"N	75°35'05"W
1D030025	1D	PA	WAYNE	SOUTH BRANCH EQUINUNK CREEK	41°49'47"N	75°13'58"W
1D030038	1D	PA	WAYNE	NO NAME	41°38'44"N	75°15'52"W
1D030041*	1D	NY	SULLIVAN	JUDSON BROOK	41°37'53"N	74°47'40"W
1D030044	1D	NY	ULSTER	VERKEERDER KILL	41°36'09"N	74°19'39"W
1D030048	1D	PA	LACKAWANNA	SOUTH BRANCH TUNKHANNOCK CREEK	41°34'04"N	75°44'09"W
1D030050	1D	PA	WAYNE	NO NAME	41°31'22"N	75°24'17"W
1D030070*	1D	NY	ORANGE	NO NAME	41°24'47"N	74°22'36"W
1D030071	1D	NY	ORANGE	NO NAME	41°23'50"N	74°14'08"W
1D030074	1D	PA	LACKAWANNA	RATTLESNAKE CREEK	41°18'53"N	75°38'12"W
1D030080	1D	NJ	SUSSEX	BIG FLAT BROOK	41°14'20"N	74°44'14"W
1D030083	1D	NY	ORANGE	TROUT BROOK	41°18'45"N	74°15'13"W
1D030092	1D	NJ	SUSSEX	BIG FLAT BROOK	41°11'23"N	74°50'43"W
1D030093	1D	NJ	SUSSEX	NO NAME	41°09'38"N	74°40'49"W
1D031002	1D	NY	DUTCHESS	COLD SPRING CREEK	41°53'05"N	73°42'00"W
1D031006	1D	NY	DUTCHESS	(SWIFT POND TRIBUTARY)	41°46'41"N	73°32'40"W
1D031014	1D	NY	PUTNAM	NO NAME	41°24'32"N	73°50'48"W
1D036006	1D	PA	LUZERNE	NO NAME	41°00'10"N	76°08'00"W
1D036008	1D	PA	NORTHUMBERLAND	NO NAME	40°50'50"N	76°43'51"W
1D036010	1D	PA	COLUMBIA	NO NAME	40°51'21"N	76°25'33"W
1D036011	1D	PA	SCHUYLKILL	STONY RUN	40°52'54"N	76°14'03"W
1D036012	1D	PA	SCHUYLKILL	NO NAME	40°52'49"N	76°07'10"W
1D036017	1D	PA	SCHUYLKILL	LOCUST CREEK	40°47'19"N	76°03'51"W
1D037003	1D	NJ	MORRIS	NO NAME	40°59'32"N	74°24'55"W
1D037004	1D	PA	CARBON	QUAKAKE CREEK	40°54'34"N	75°52'00"W
1D037005	1D	PA	CARBON	JEANS RUN	40°52'21"N	75°46'23"W
1D037010	1D	NJ	WARREN	NO NAME	40°53'00"N	75°03'38"W
1D037011*	1D	NJ	WARREN	NO NAME	40°53'16"N	74°53'55"W

*Non-interest reaches--see Table 4-3 for explanation.

Table 4-1 Names and locations of regular streams sorted by identification number (Continued)

Reach number	Sub-region	State	County	Stream name	Latitude	Longitude
1D037016	1D	PA	CARBON	MAHONING CREEK	40°48'04"N	75°46'39"W
1D037020	1D	PA	NORTHAMPTON	MARTINS CREEK	40°46'35"N	75°10'33"W
1D037021	1D	NJ	WARREN	OXFORD BROOK	40°48'20"N	74°59'37"W
1D037028*	1D	PA	NORTHAMPTON	MONOCACY CREEK	40°37'31"N	75°23'08"W
2A058004	2X	VA	BEDFORD	KATES CREEK	37°13'29"N	79°44'50"W
2A058005	2X	VA	FRANKLIN	MAGGODDEE CREEK	37°05'48"N	79°51'37"W
2A067012	2X	NC	AVERY	HENSON CREEK	36°01'23"N	82°01'25"W
2A068004	2X	VA	FLOYD	BEAVERDAM CREEK	36°57'50"N	80°14'22"W
2A068007	2X	VA	WYTHE	BIG BRANCH	36°49'02"N	81°13'05"W
2A068015	2X	VA	SMYTH	GRASSES CREEK-DRY BRANCH	36°44'33"N	81°41'15"W
2A068022	2X	VA	CARROLL	SNAKE CREEK	36°44'33"N	80°37'41"W
2A068023	2X	VA	CARROLL	LAUREL FORK	36°45'11"N	80°30'58"W
2A068032	2X	TN	JOHNSON	CHRISTIAN BRANCH	36°28'34"N	81°48'01"W
2A068048	2X	NC	AVERY	BUCKEYE CREEK	36°14'32"N	81°53'50"W
2A068055	2X	NC	WATAUGA	BOONE FORK	36°08'03"N	81°44'18"W
2A07701	2AS	TN	MONROE	SUGAR COVE BRANCH OF N. RIVER	35°19'19"N	84°06'00"W
2A07702	2AS	TN	POLK	CHILDERS CREEK	35°11'24"N	84°29'22"W
2A07703	2AS	TN	POLK	HALL CREEK	35°05'43"N	84°19'31"W
2A07801	2AS	TN	COCKE	GULF FORK BIG CREEK	35°53'42"N	83°05'11"W
2A07802	2AS	NC	MADISON	PUNCHEON FORK	35°54'35"N	82°32'55"W
2A07803	2AS	TN	BLOUNT	UNNAMED TRIB. OF ELLEJOY	35°46'47"N	83°47'46"W
2A07805	2AS	TN	COCKE	COSBY CREEK	35°47'36"N	83°14'21"W
2A07806	2AS	NC	MADISON	ROARING FORK	35°49'16"N	82°53'32"W
2A07807	2AS	NC	BUNCOMBE	NORTH FORK DILLINGHAM CREEK	35°47'02"N	82°27'29"W
2A07808	2AS	NC	MCDOWELL	ARMSTRONG CREEK	35°48'56"N	82°03'01"W
2A07810	2AS	TN	SEVIER	LITTLE RIVER	35°40'11"N	83°40'37"W
2A07811	2AS	TN	SEVIER	FALSE GAP PRONG	35°41'58"N	83°23'01"W
2A07812	2AS	NC	HAYWOOD	CORRELL BRANCH	35°40'33"N	83°05'18"W
2A07813	2AS	NC	MADISON	LITTLE SANDYMUSH CREEK	35°42'12"N	82°45'38"W
2A07814	2AS	NC	BUNCOMBE	REEMS CREEK	35°41'42"N	82°35'11"W
2A07815	2AS	NC	MCDOWELL	CURTIS CREEK	35°38'47"N	82°09'34"W
2A07816	2AS	NC	SWAIN	EAGLE CREEK	35°29'53"N	83°45'48"W
2A07817	2AS	NC	SWAIN	FORNEY CREEK	35°30'47"N	83°33'27"W
2A07818	2AS	NC	SWAIN	BUNCHES CREEK	35°33'35"N	83°14'49"W
2A07819	2AS	NC	MCDOWELL	CROOKED CREEK	35°38'43"N	82°06'00"W
2A07820	2AS	NC	HAYWOOD	EAST FORK PIGEON RIVER	35°27'35"N	82°50'37"W
2A07821	2AS	NC	HENDERSON	GRASSY CREEK	35°27'50"N	82°16'54"W
2A07822	2AS	NC	GRAHAM	SWEETWATER CREEK	35°19'37"N	83°48'04"W
2A07823	2AS	NC	SWAIN	BRUSH CREEK	35°19'07"N	83°31'00"W
2A07824	2AS	NC	HAYWOOD	MIDDLE PRONG WEST FORK	35°22'20"N	82°56'17"W
2A07825	2AS	NC	TRANSYLVANIA	SOUTH FORK MILLS RIVER	35°20'35"N	82°39'54"W
2A07826	2AS	NC	HENDERSON	HENDERSON CREEK	35°22'41"N	82°23'04"W
2A07827	2AS	NC	CHEROKEE	WELCH MILL CREEK	35°11'05"N	83°53'37"W
2A07828	2AS	NC	MACON	WHITEOAK CREEK	35°13'32"N	83°37'07"W
2A07829	2AS	NC	TRANSYLVANIA	CATHEYS CREEK	35°12'47"N	82°47'08"W
2A07830	2AS	NC	HENDERSON	MUD CREEK	35°15'16"N	82°30'01"W
2A07831	2AS	NC	POLK	NORTH POCOLET RIVER	35°12'55"N	82°13'05"W
2A07832	2AS	NC	CLAY	TUSQUITEE CREEK	35°04'02"N	83°49'20"W
2A07833	2AS	NC	MACON	ALLISON CREEK	35°07'16"N	83°28'27"W
2A07834	2AS	NC	MACON	BRUSH CREEK	35°06'49"N	83°15'27"W
2A07835	2AS	SC	GREENVILLE	MIDDLE SALUDA RIVER	35°07'13"N	82°32'18"W
2A07881	2AS	NC	MADISON	WALNUT CREEK	35°48'56"N	82°43'40"W
2A07882	2AS	NC	HAYWOOD	LITTLE BRANCH CREEK	35°26'58"N	83°03'49"W
2A08801	2AS	GA	MURRAY	UNNAMED TRIB. TO PERRY CREEK	34°57'36"N	84°44'12"W
2A08802	2AS	GA	FANNIN	DUNN MILL CREEK	34°56'56"N	84°26'17"W
2A08803	2AS	GA	CHEROKEE	OWENBY CREEK	34°59'12"N	84°08'46"W

*Non-interest reaches--see Table 4-3 for explanation.

Table 4-1 Names and locations of regular streams sorted by identification number (Continued)

Reach number	Sub-region	State	County	Stream name	Latitude	Longitude
2A08804	2AS	GA	GILMER	BEAR CREEK	34°49'27"N	84°33'57"W
2A08805	2AS	GA	FANNIN	WEAVER CREEK	34°52'15"N	84°18'00"W
2A08806	2AS	GA	UNION	UNNAMED TRIB.TO KIUTUESTIA CR.	34°51'31"N	84°01'24"W
2A08808	2AS	GA	GILMER	WHITE PATH CREEK	34°44'14"N	84°25'58"W
2A08809	2AS	GA	GILMER	TICKANETLEY CREEK	34°38'39"N	84°18'11"W
2A08810	2AS	GA	LUMPKIN	BRYANT CREEK	34°36'34"N	83°59'56"W
2A08811	2AS	GA	PICKENS	HINTON CREEK	34°29'06"N	84°25'16"W
2A08901	2AS	GA	RABUN	PERSIMMON CREEK	34°54'47"N	83°30'06"W
2A08902	2AS	GA	RABUN	WEST FORK CHATTOGA RIVER	34°56'18"N	83°11'31"W
2A08903	2AS	GA	UNION	NOTTELY RIVER	34°49'24"N	83°54'28"W
2A08904	2AS	GA	RABUN	SHE CREEK	34°50'05"N	83°20'41"W
2A08905	2AS	GA	WHITE	CHATTAHOOCHIE RIVER	34°42'31"N	83°44'28"W
2A08906	2AS	GA	HABERSHAM	DEEP CREEK	34°40'36"N	83°27'21"W
2B036003	2BN	PA	CENTRE	ELK CREEK	40°54'28"N	77°28'37"W
2B036023	2BN	PA	MIFFLIN	NO NAME	40°34'34"N	77°45'38"W
2B036027	2BN	PA	JUNIATA	COCOLAMUS CREEK	40°35'51"N	77°09'15"W
2B036028	2BN	PA	PERRY	NO NAME	40°37'26"N	76°57'07"W
2B036031*	2BN	PA	SCHUYLKILL	RAUSCH CREEK	40°38'15"N	76°33'25"W
2B036046	2BN	PA	SCHUYLKILL	LOWER LITTLE SWATARA CREEK	40°33'07"N	76°16'04"W
2B036051*	2BN	PA	PERRY	NO NAME	40°21'00"N	77°25'29"W
2B036057	2BN	PA	LEBANON	NO NAME	40°23'00"N	76°32'42"W
2B036062	2BN	PA	FRANKLIN	BURNS CREEK	40°13'39"N	77°42'54"W
2B036076	2BN	PA	FRANKLIN	CONODOQUINET CREEK	40°07'10"N	77°41'09"W
2B036083	2BN	PA	DAUPHIN	LYNCH RUN	40°09'57"N	76°39'39"W
2B041008	2BN	PA	BEDFORD	PINEY CREEK	39°47'36"N	78°24'17"W
2B041016	2BN	WV	MORGAN	NO NAME	39°40'33"N	78°06'42"W
2B041018	2BN	MD	ALLEGANY	NO NAME	39°33'54"N	78°43'01"W
2B041020	2BN	WV	MORGAN	SPRIGS HOLLOW	39°33'41"N	78°25'24"W
2B041029	2BN	WV	BERKELEY	NO NAME	39°26'00"N	78°07'33"W
2B041032	2BN	WV	HAMPSHIRE	NO NAME	39°22'21"N	78°44'10"W
2B041042	2BN	VA	FREDERICK	HOGUE CREEK	39°13'25"N	78°16'47"W
2B041049	2BN	VA	FREDERICK	NO NAME	39°06'33"N	78°25'46"W
2B041054	2BN	WV	HARDY	NO NAME	39°01'02"N	79°01'13"W
2B042003	2BN	PA	FRANKLIN	CONOCOCHEAGUE CREEK	39°55'41"N	77°34'44"W
2B042005	2BN	PA	ADAMS	NO NAME	39°54'42"N	77°14'50"W
2B042007	2BN	PA	ADAMS	BEAVER CREEK	39°55'10"N	76°58'02"W
2B042017	2BN	PA	YORK	CODORUS CREEK	39°46'50"N	76°50'28"W
2B042022	2BN	MD	FREDERICK	NO NAME	39°42'14"N	77°24'56"W
2B042032	2BN	MD	CARROLL	NO NAME	39°33'33"N	77°07'55"W
2B042036	2BN	MD	FREDERICK	CATOCTIN CREEK	39°27'39"N	77°34'56"W
2B042044*	2BN	MD	FREDERICK	NO NAME	39°19'55"N	77°25'37"W
2B042047	2BN	MD	HOWARD	NO NAME	39°20'03"N	76°59'56"W
2B042052	2BN	MD	MONTGOMERY	NO NAME	39°13'53"N	77°18'31"W
2B042063	2BN	VA	LOUDOUN	BROAD RUN	39°00'24"N	77°27'10"W
2B042064	2BN	VA	FAIRFAX	NO NAME	39°00'32"N	77°19'05"W
2B047013	2BN	WV	GRANT	NO NAME	38°51'27"N	79°09'24"W
2B047019*	2BN	VA	WARREN	NO NAME	38°51'58"N	78°16'13"W
2B047022	2BN	WV	PENDLETON	DICE RUN	38°44'33"N	79°26'11"W
2B047032	2BN	WV	PENDLETON	ELK RUN	38°37'54"N	79°35'08"W
2B047036	2BN	VA	ROCKINGHAM	BIBLE RUN	38°38'39"N	79°00'39"W
2B047044	2BN	VA	HIGHLAND	STRAIGHT FORK	38°33'39"N	79°34'25"W
2B047050	2BN	VA	ROCKINGHAM	NO NAME	38°32'37"N	78°42'39"W
2B047061	2BN	VA	ROCKINGHAM	BRIERY BRANCH	38°23'42"N	79°01'21"W
2B047062*	2BN	VA	ROCKINGHAM	NO NAME	38°24'32"N	78°53'20"W
2B047066	2BN	VA	MADISON	NO NAME	38°24'18"N	78°16'40"W
2B047076	2BN	VA	ROCKINGHAM	LOWER LEWIS RUN	38°18'17"N	78°44'44"W
2B047078	2BN	VA	GREENE	STANARDSVILLE RUN	38°16'51"N	78°26'03"W
2B047087*	2BN	VA	AUGUSTA	NO NAME	38°11'09"N	78°59'40"W

*Non-interest reaches--see Table 4-3 for explanation.

Table 4-1 Names and locations of regular streams sorted by identification number (Continued)

Reach number	Sub-region	State	County	Stream name	Latitude	Longitude
2B047089	2BN	VA	ALBEMARLE	NORTH FORK MOORMANS RIVER	38°09'54"N	78°44'40"W
2B047093	2BN	VA	BATH	NO NAME	38°03'03"N	79°52'01"W
2B047093*	2BN	VA	BATH	NO NAME	38°03'03"N	79°52'01"W
2B047100	2BN	VA	AUGUSTA	JONES HOLLOW	38°03'56"N	78°53'00"W
2B057029	2BN	VA	CRAIG	NO NAME	37°22'13"N	80°23'11"W
2B057042	2BN	VA	BLAND	KIMBERLING CREEK	37°08'42"N	81°04'02"W
2B058015	2BN	VA	ROCKBRIDGE	WHITES RUN	37°48'14"N	79°19'00"W
2B058017	2BN	VA	NELSON	MUDDY BRIDGE CREEK	37°46'50"N	78°59'50"W
2B058024	2BN	VA	AMHERST	LITTLE IRISH CREEK	37°40'38"N	79°17'33"W
2B077012	2X	TN	BRADLEY	CHATATA CREEK	35°12'48"N	84°46'08"W
2B077016	2X	TN	BRADLEY	BLACKBURN BRANCH	35°03'07"N	84°51'39"W
2B087003	2X	AL	ETOWAH	LITTLE SAND VALLEY CREEK	34°08'11"N	85°59'49"W
2B087005	2X	AL	ETOWAH	NO NAME	34°04'15"N	86°00'03"W
2B088002*	2X	GA	WALKER	NO NAME	34°56'13"N	85°15'57"W
2B088004	2X	GA	CATOOSA	CAT CREEK	34°55'52"N	85°00'31"W
2B088006	2X	GA	DADE	CRAWFISH CREEK	34°48'30"N	85°31'48"W
2B088007*	2X	GA	WALKER	NO NAME	34°48'09"N	85°24'33"W
2B088013*	2X	GA	DADE	NO NAME	34°42'58"N	85°31'49"W
2B088016	2X	GA	WALKER	EAST ARMUCHEE CREEK	34°40'40"N	85°07'08"W
2B088019	2X	AL	DE KALB	SOUTH SAUTY CREEK	34°34'38"N	85°48'34"W
2B088020	2X	AL	DE KALB	NO NAME	34°33'48"N	85°41'37"W
2B088021*	2X	AL	DE KALB	BLALOCK BRANCH		
2B088022	2X	GA	WALKER	SPRING CREEK	34°35'24"N	85°23'16"W
2B088026	2X	GA	GORDON	NO NAME	34°36'18"N	84°52'49"W
2B088033*	2X	GA	CHATTOOGA	NO NAME	34°28'46"N	85°15'38"W
2B088041*	2X	GA	CHATTOOGA	NO NAME	34°22'39"N	85°22'32"W
2B088045	2X	GA	BARTOW	CEDAR CREEK	34°23'22"N	84°50'20"W
2B088049*	2X	AL	CHEROKEE	NO NAME	34°13'32"N	85°30'19"W
2B088065*	2X	AL	CHEROKEE	NO NAME	34°01'12"N	85°30'44"W
2B088069	2X	GA	POLK	MACKEY BRANCH	34°03'45"N	84°57'16"W
2B098006	2X	GA	POLK	NO NAME	33°55'52"N	85°12'41"W
2B098015	2X	AL	CLEBURNE	NO NAME	33°42'25"N	85°29'21"W
2B098019	2X	AL	CLAY	CHEAHA CREEK	33°27'12"N	85°53'53"W
2C028043	2CN	PA	VENANGO	NO NAME	41°20'10"N	79°31'03"W
2C028050	2CN	PA	ELK	TROUT RUN	41°20'18"N	78°24'24"W
2C028051*	2CN	PA	ELK	DENTS RUN	41°21'20"N	78°15'48"W
2C028056	2CN	PA	JEFFERSON	MILL CREEK	41°14'03"N	79°12'17"W
2C028057	2CN	PA	JEFFERSON	NORTH FORK MILL CREEK	41°15'19"N	79°02'32"W
2C028060*	2CN	PA	CLEARFIELD	MILL RUN	41°13'47"N	78°32'55"W
2C028061	2CN	PA	ELK	MEDIX RUN	41°17'00"N	78°23'48"W
2C028069	2CN	PA	CLEARFIELD	WHITNEY RUN	41°07'41"N	78°35'54"W
2C028070	2CN	PA	CLEARFIELD	COLDSTREAM RUN	41°06'45"N	78°23'40"W
2C028071*	2CN	PA	CLEARFIELD	DEER CREEK	41°04'48"N	78°14'14"W
2C028075	2CN	PA	CLEARFIELD	BEAR RUN	41°00'53"N	78°34'57"W
2C029002	2CN	PA	POTTER	UPPER DRY HOLLOW	41°40'48"N	77°46'30"W
2C029016	2CN	PA	CLINTON	EAST BRANCH BIG RUN	41°11'45"N	77°44'42"W
2C029020	2CN	PA	CENTRE	WOLF RUN	41°05'22"N	77°52'07"W
2C035010*	2CN	PA	CLEARFIELD	MOSHANNON CREEK	40°50'47"N	78°16'13"W
2C035011	2CN	PA	CENTRE	COLD STREAM	40°52'01"N	78°12'27"W
2C035016*	2CN	PA	CLEARFIELD	MOSHANNON CREEK	40°48'22"N	78°19'18"W
2C035024	2CN	PA	INDIANA	MUDDY RUN	40°28'18"N	79°14'24"W
2C035027	2CN	PA	CAMBRIA	WILLIAMS RUN	40°28'50"N	78°46'17"W
2C035035*	2CN	PA	CAMBRIA	CONEMAUGH RIVER	40°23'00"N	78°43'13"W
2C035041*	2CN	PA	CAMBRIA	LITTLE PAINT CREEK	40°14'44"N	78°50'49"W
2C035047	2CN	PA	SOMERSET	CLEAR SHADE CREEK	40°08'53"N	78°49'04"W

*Non-interest reaches--see Table 4-3 for explanation.

Table 4-1 Names and locations of regular streams sorted by identification number (Continued)

Reach number	Sub-region	State	County	Stream name	Latitude	Longitude
2C035049	2CN	PA	FAYETTE	BACK CREEK	40°01'32"N	79°23'35"W
2C036001	2CN	PA	CENTRE	NO NAME	40°54'20"N	77°56'12"W
2C040003*	2CN	WV	HARRISON	SIMPSON CREEK	39°17'06"N	80°15'07"W
2C040006	2CN	WV	BARBOUR	SHOALS RUN	39°03'27"N	80°05'53"W
2C041001	2CN	PA	FAYETTE	DUNBAR CREEK	39°56'41"N	79°34'48"W
2C041002	2CN	PA	FAYETTE	FULTON RUN	39°56'34"N	79°25'56"W
2C041005*	2CN	PA	SOMERSET	NO NAME	39°55'21"N	78°59'24"W
2C041007	2CN	PA	FAYETTE	ASKON HOLLOW	39°49'27"N	79°44'25"W
2C041014	2CN	WV	PRESTON	PATTERSON RUN	39°42'40"N	79°44'33"W
2C041016	2CN	MD	GARRETT	NO NAME	39°41'50"N	79°26'31"W
2C041027*	2CN	WV	PRESTON	KANES CREEK	39°30'25"N	79°48'35"W
2C041029	2CN	MD	GARRETT	BULL GLADE RUN	39°28'34"N	79°27'17"W
2C041033*	2CN	WV	PRESTON	NO NAME	39°22'16"N	79°45'19"W
2C041035	2CN	MD	GARRETT	CHERRY CREEK	39°22'10"N	79°27'26"W
2C041036	2CN	MD	GARRETT	NO NAME	39°22'10"N	79°18'50"W
2C041037*	2CN	WV	MINERAL	EMORY CREEK	39°21'20"N	79°10'27"W
2C041039	2CN	WV	PRESTON	BUFFALO CREEK	39°15'38"N	79°45'17"W
2C041040	2CN	WV	PRESTON	THUNDERSTRUCK CREEK	39°14'54"N	79°36'02"W
2C041043	2CN	WV	GRANT	NO NAME	39°13'27"N	79°09'26"W
2C041045	2CN	WV	TUCKER	RIGHT FORK CLOVER RUN	39°08'50"N	79°42'54"W
2C041051	2CN	WV	TUCKER	COAL RUN	39°02'22"N	79°36'58"W
2C046004	2CN	WV	BRAXTON	GRANNY CREEK	38°40'04"N	80°43'04"W
2C046004*	2CN	WV	BRAXTON	GRANNY CREEK	38°40'04"N	80°43'04"W
2C046005	2CN	WV	BRAXTON	NO NAME	38°41'07"N	80°33'07"W
2C046009	2CN	WV	CLAY	LOGSHOAL RUN	38°33'00"N	80°59'44"W
2C046011	2CN	WV	BRAXTON	LITTLE BIRCH RIVER	38°34'42"N	80°42'33"W
2C046011*	2CN	WV	BRAXTON	LITTLE BIRCH RIVER	38°34'42"N	80°42'33"W
2C046013	2CN	WV	WEBSTER	RIGHT FORK HOLLY RIVER	38°34'06"N	80°25'02"W
2C046015	2CN	WV	RANDOLPH	HEWETT CREEK	38°35'05"N	80°09'30"W
2C046016	2CN	WV	KANAWHA	WALNUT CREEK	38°27'49"N	81°26'11"W
2C046017	2CN	WV	KANAWHA	QUEEN SHOALS CREEK	38°28'02"N	81°16'54"W
2C046018	2CN	WV	CLAY	BLUE KNOB CREEK	38°26'55"N	81°08'44"W
2C046021	2CN	WV	NICHOLAS	RICH FORK	38°27'12"N	80°42'35"W
2C046021*	2CN	WV	NICHOLAS	RICH FORK	38°27'12"N	80°42'35"W
2C046023	2CN	WV	WEBSTER	SANDY RUN	38°26'41"N	80°26'04"W
2C046030	2CN	WV	NICHOLAS	FOCKLER BRANCH	38°20'13"N	80°50'05"W
2C046031	2CN	WV	NICHOLAS	LITTLE BEAVER CREEK	38°20'18"N	80°40'57"W
2C046033	2CN	WV	WEBSTER	JOHNSON RUN	38°20'49"N	80°24'28"W
2C046034	2CN	WV	POCAHONTAS	HATEFUL RUN	38°21'03"N	80°15'30"W
2C046041	2CN	WV	NICHOLAS	NO NAME	38°13'15"N	80°42'54"W
2C046043	2CN	WV	GREENBRIER	NORTH FORK CHERRY RIVER	38°13'49"N	80°24'57"W
2C046046	2CN	WV	BOONE	NO NAME	38°07'08"N	81°34'04"W
2C046047*	2CN	WV	KANAWHA	FOURMILE FORK	38°07'38"N	81°24'44"W
2C046048	2CN	WV	FAYETTE	LITTLE RIGHTHAND FORK	38°07'00"N	81°16'06"W
2C046050	2CN	WV	FAYETTE	HEDRICKS CREEK	38°07'30"N	80°58'55"W
2C046052	2CN	WV	NICHOLAS	HOMINY CREEK	38°06'33"N	80°42'54"W
2C046053	2CN	WV	GREENBRIER	LAUREL CREEK	38°07'45"N	80°33'09"W
2C046055	2CN	WV	POCAHONTAS	NO NAME	38°07'05"N	80°15'47"W
2C046062	2CN	WV	GREENBRIER	LITTLE CLEAR CREEK	37°59'50"N	80°34'09"W
2C046063	2CN	WV	GREENBRIER	NO NAME	37°59'53"N	80°24'57"W
2C047004	2CN	WV	RANDOLPH	BEAVER CREEK	38°51'48"N	79°52'42"W
2C047007	2CN	WV	RANDOLPH	CRAWFORD RUN	38°45'31"N	79°55'23"W
2C047010	2CN	WV	POCAHONTAS	CLUBHOUSE RUN	38°37'55"N	79°45'36"W
2C057004	2CN	WV	FAYETTE	BUTLER BRANCH	37°57'21"N	80°56'34"W
2C057011	2CN	WV	GREENBRIER	NO NAME	37°50'43"N	80°39'58"W
2C066013	2X	KY	WHITLEY	CANE CREEK	36°36'51"N	84°04'52"W

*Non-interest reaches--see Table 4-3 for explanation.

Table 4-1 Names and locations of regular streams sorted by identification number (Continued)

Reach number	Sub-region	State	County	Stream name	Latitude	Longitude
2C066017	2X	TN	CAMPBELL	LICK FORK	36°27'48"N	84°16'49"W
2C066022	2X	TN	SCOTT	BLACK CREEK	36°24'03"N	84°37'31"W
2C066026	2X	TN	FENTRESS	JOHNSON MILL BRANCH	36°14'48"N	85°02'17"W
2C066027	2X	TN	MORGAN	NO NAME	36°16'12"N	84°51'54"W
2C066038	2X	TN	CUMBERLAND	BEAM CREEK	35°59'51"N	85°08'20"W
2C066039	2X	TN	CUMBERLAND	WALLACE BRANCH	36°00'05"N	85°00'16"W
2C067001*	2X	TN	CAMPBELL	CLEAR FORK	36°32'41"N	84°00'02"W
2C077007	2X	TN	CUMBERLAND	MAMMYS CREEK	35°52'07"N	84°46'23"W
2C077022	2X	TN	SEQUATCHIE	GLADY FORK	35°32'07"N	85°26'02"W
2C077023	2X	TN	BLEDSOE	CANNON CREEK	35°30'07"N	85°17'25"W
2C077024	2X	TN	BLEDSOE	CRYSTAL CREEK	35°32'09"N	85°13'48"W
2C088002*	2X	GA	DADE	FLATROCK CREEK		
2C088003	2X	AL	JACKSON	NO NAME	34°49'17"N	85°40'57"W
2C088004	2X	AL	JACKSON	LICK CREEK	34°41'19"N	85°50'00"W
2D072004	2D	AR	LOGAN	NO NAME	35°14'01"N	93°59'49"W
2D072013	2D	AR	SEBASTIAN	NO NAME	35°00'50"N	94°16'58"W
2D073003	2D	AR	MADISON	PINE CREEK	35°56'47"N	93°33'55"W
2D073004	2D	AR	NEWTON	NO NAME	35°56'46"N	93°27'27"W
2D073009	2D	AR	NEWTON	FALLS BRANCH CAVE CREEK	35°50'24"N	93°02'04"W
2D073024	2D	AR	POPE	MIDDLE FORK ILLINOIS BAYOU	35°41'20"N	92°54'33"W
2D073025	2D	AR	SEARCY	MIDDLE FORK LITTLE RED RIVER	35°46'20"N	92°42'46"W
2D073026	2D	AR	VAN BUREN	CASTLEBERRY CREEK	35°42'24"N	92°36'16"W
2D073027	2D	AR	VAN BUREN	LINN CREEK	35°45'03"N	92°28'13"W
2D073029	2D	AR	STONE	DRY FORK	35°44'32"N	92°09'49"W
2D073036	2D	AR	POPE	NORTH FORK ILLINOIS BAYOU	35°36'09"N	93°00'25"W
2D073044	2D	AR	FRANKLIN	NO NAME	35°28'47"N	93°41'46"W
2D073048	2D	AR	POPE	NO NAME	35°29'24"N	93°11'00"W
2D073052	2D	AR	VAN BUREN	NO NAME	35°28'36"N	92°34'08"W
2D073053	2D	AR	VAN BUREN	CHOCTAW CREEK	35°30'49"N	92°26'55"W
2D073057*	2D	AR	LOGAN	NO NAME	35°20'09"N	93°41'39"W
2D073066	2D	AR	VAN BUREN	PINE MOUNTAIN CREEK	35°22'58"N	92°27'46"W
2D073075	2D	AR	LOGAN	STINNETT CREEK	35°15'46"N	93°17'00"W
2D073080	2D	AR	CONWAY	CYPRESS CREEK	35°15'46"N	92°36'11"W
2D073086	2D	AR	LOGAN	LICK CREEK	35°06'40"N	93°49'12"W
2D073092*	2D	AR	YELL	NO NAME	35°09'15"N	92°57'16"W
2D073099	2D	AR	WHITE	NO NAME	35°10'25"N	92°00'52"W
2D073100	2D	AR	SCOTT	LITTLE PETIT JEAN RIVER	35°00'35"N	94°00'48"W
2D073106	2D	AR	YELL	MASON CREEK	35°03'27"N	93°10'33"W
2D074006	2D	AR	INDEPENDENCE	CANEY CREEK	35°38'44"N	91°45'35"W
2D074009	2D	AR	CLEBURNE	BIG CREEK	35°22'40"N	91°53'29"W
2D074012	2D	AR	WHITE	NO NAME	35°02'59"N	91°56'11"W
2D083027	2D	OK	PITTSBURG	MODISETTE CREEK	34°43'09"N	95°44'56"W
2D083039	2D	AR	POLK	LOFTIS CREEK	34°34'44"N	94°04'21"W
2D083076	2D	OK	MC CURTAIN	CANYON CREEK	34°18'37"N	94°51'10"W
2D083081	2D	AR	HOWARD	WHITE OAK CREEK	34°15'54"N	94°09'52"W
2D083086	2D	OK	PUSHMATAHA	FRAZIER CREEK	34°12'32"N	95°20'43"W
2D083096	2D	OK	CHOCTAW	ROSS BRANCH	34°06'06"N	95°53'11"W
2D083098	2D	OK	CHOCTAW	BULL CREEK	34°04'40"N	95°14'41"W
2D084013	2D	AR	FAULKNER	PIERCE CREEK	34°57'39"N	92°21'29"W
2D084022	2D	AR	SALINE	LITTLE CEDAR CREEK	34°52'55"N	93°01'58"W
2D084025	2D	AR	PULASKI	WORTHEN CREEK	34°51'52"N	92°35'24"W
2D084033	2D	AR	GARLAND	NORTH FORK OUACHITA RIVER	34°44'02"N	93°17'53"W
2D084041	2D	AR	MONTGOMERY	SHIRLEY CREEK	34°36'10"N	93°49'47"W
2D084051	2D	AR	POLK	NO NAME	34°28'00"N	93°57'18"W
2D084052	2D	AR	MONTGOMERY	LICK CREEK	34°28'36"N	93°44'10"W
2D084054	2D	AR	MONTGOMERY	MAZARN CREEK	34°28'47"N	93°29'31"W

*Non-interest reaches--see Table 4-3 for explanation.

Table 4-1 Names and locations of regular streams sorted by identification number (Continued)

Reach number	Sub-region	State	County	Stream name	Latitude	Longitude
2D084058	2D	AR	GARLAND	GULPHA CREEK	34°28'28"N	92°59'11"W
2D084077	2D	AR	PIKE	NO NAME	34°07'41"N	93°41'24"W
2D084079	2D	AR	CLARK	NO NAME	34°09'02"N	93°26'37"W
2D084082	2D	AR	PIKE	NO NAME	33°59'58"N	93°48'03"W
2D093005	2D	OK	MC CURTAIN	PONKA BOK CREEK	33°57'31"N	94°31'13"W
2D093007	2D	AR	SEVIER	DRY CREEK	33°57'10"N	94°14'00"W
2D093008	2D	AR	SEVIER	NO NAME	33°57'43"N	94°04'23"W
2D094009	2D	AR	HEMPSTEAD	GIBSON CREEK	33°44'48"N	93°47'46"W
3A058013	3A	VA	CAMPBELL	NO NAME	37°06'26"N	79°11'08"W
3A058014	3A	VA	CAMPBELL	NO NAME	37°06'10"N	79°01'46"W
3A068007	3A	VA	PATRICK	NORTH MAYO RIVER	36°37'26"N	80°02'30"W
3A068012	3A	NC	SURRY	BEAVER CREEK	36°21'40"N	80°40'29"W
3A068020	3A	NC	WILKES	WEST SWAN CREEK	36°12'38"N	80°53'51"W
3A069003	3A	VA	PITTSYLVANIA	TURKEYCOCK CREEK	36°55'02"N	79°36'39"W
3A079012	3A	NC	BURKE	CUB CREEK	35°40'40"N	81°30'30"W
3A086009	3A	MS	PRENTISS	BIG BROWN CREEK	34°38'50"N	88°26'26"W
3A086010	3A	MS	TISHOMINGO	HURRICANE CREEK	34°40'08"N	88°17'04"W
3A086015*	3A	MS	TISHOMINGO	NO NAME		
3A086024	3A	AL	FRANKLIN	DRY CREEK	34°18'33"N	88°01'04"W
3A087008	3A	AL	MARION	BARN CREEK	34°07'36"N	87°48'22"W
3A088006*	3A	GA	BARTOW	NO NAME	34°22'09"N	84°42'17"W
3A088012	3A	GA	BARTOW	GUTHRIE CREEK	34°16'09"N	84°41'16"W
3A088022	3A	GA	FULTON	NO NAME	34°09'36"N	84°17'30"W
3A088025	3A	GA	PAULDING	NO NAME	34°02'40"N	84°48'25"W
3A088028	3A	GA	FULTON	NO NAME	34°03'01"N	84°24'34"W
3A089002	3A	SC	GREENVILLE	NO NAME	34°58'27"N	82°12'43"W
3A089004	3A	SC	PICKENS	PRATERS CREEK	34°50'15"N	82°45'10"W
3A089013	3A	SC	ANDERSON	THREE AND TWENTY CREEK	34°43'18"N	82°37'28"W
3A089024	3A	SC	OCONEE	NO NAME	34°36'35"N	82°54'47"W
3A089068	3A	GA	MADISON	WOLF BRANCH	34°09'39"N	83°17'46"W
3A089086	3A	GA	HABERSHAM	DEEP CREEK	34°40'36"N	83°27'37"W
3A097026	3A	AL	TUSCALOOSA	BUCK CREEK	33°26'31"N	87°46'35"W
3A097029	3A	AL	TUSCALOOSA	NO NAME	33°27'57"N	87°24'32"W
3A097031	3A	AL	PICKENS	HOLLY CREEK	33°21'41"N	87°57'18"W
3A098011	3A	GA	PAULDING	SWEETWATER CREEK	33°47'43"N	84°55'50"W
3A098025	3A	AL	CLEBURNE	NO NAME	33°35'01"N	85°20'27"W
3A098034	3A	AL	RANDOLPH	KNIGHT BRANCH	33°27'54"N	85°20'50"W
3A098038	3A	GA	COWETA	CEDAR CREEK	33°28'32"N	84°48'14"W
3A098039	3A	GA	COWETA	NO NAME	33°26'47"N	84°40'10"W
3A098069	3A	GA	MERIWETHER	NO NAME	33°08'34"N	84°50'02"W
3A098075	3A	AL	CHAMBERS	SANDY CREEK	33°02'17"N	85°31'20"W
3A098078	3A	GA	TROUP	NO NAME	32°59'38"N	85°04'55"W
3A098082	3A	GA	PIKE	ROCKY FORD BRANCH	33°00'17"N	84°31'40"W
3A099019	3A	GA	WILKES	CLARK CREEK	33°50'16"N	82°49'14"W
3A099027	3A	GA	GREENE	NO NAME	33°41'13"N	83°10'17"W
3A099037	3A	GA	GREENE	BEAVERDAM CREEK	33°32'09"N	83°08'56"W
3A099051	3A	GA	JASPER	HERDS CREEK	33°18'38"N	83°50'07"W
3A099052	3A	GA	JASPER	POPES BRANCH	33°20'14"N	83°40'33"W
3A099062*	3A	GA	PUTNAM	NO NAME	33°14'25"N	83°31'55"W
3A106008	3A	AL	BIBB	NO NAME	32°55'10"N	86°58'23"W
3A106020	3A	AL	PERRY	BRUSH CREEK	32°46'53"N	87°24'09"W
3A106023	3A	AL	CHILTON	NO NAME	32°47'40"N	86°59'09"W
3A106029	3A	AL	COOSA	WEOKA CREEK	32°44'39"N	86°14'08"W
3A106035	3A	AL	PERRY	NO NAME	32°40'33"N	87°22'17"W
3A107010	3A	GA	MERIWETHER	ROCKY FORD BRANCH	32°55'05"N	84°41'06"W
3A107034	3A	GA	HARRIS	NO NAME	32°41'22"N	84°50'03"W

*Non-interest reaches--see Table 4-3 for explanation.

Table 4-1 Names and locations of regular streams sorted by identification number (Continued)

Reach number	Sub-region	State	County	Stream name	Latitude	Longitude
3A107037	3A	GA	TALBOT	MILL CREEK	32°42'01"N	84°25'21"W
3A107041	3A	AL	LEE	NO NAME	32°33'42"N	85°14'11"W
3B036002	3B	PA	LANCASTER	MILL CREEK	40°04'52"N	76°05'14"W
3B037006	3B	NJ	MONMOUTH	YELLOW BROOK	40°17'50"N	74°09'32"W
3B037023	3B	NJ	OCEAN	BORDENS MILL BRANCH	40°03'16"N	74°23'36"W
3B037024	3B	NJ	OCEAN	MAPLE ROOT BRANCH	40°04'40"N	74°18'53"W
3B042006	3B	PA	LANCASTER	NO NAME	39°51'34"N	76°12'12"W
3B042010	3B	PA	LANCASTER	PETERS CREEK	39°45'32"N	76°13'46"W
3B042017	3B	MD	BALTIMORE	MCGILL RUN	39°31'53"N	76°47'29"W
3B042036	3B	MD	HOWARD	NO NAME	39°13'15"N	76°51'00"W
3B042041	3B	MD	KENT	NO NAME	39°10'44"N	76°06'54"W
3B042042	3B	MD	MONTGOMERY	NORTHWEST BRANCH	39°06'17"N	77°02'00"W
3B043001	3B	PA	CHESTER	BUCK RUN	39°57'35"N	75°53'24"W
3B043010	3B	NJ	BURLINGTON	RANCOCAS CREEK	39°57'35"N	74°38'00"W
3B043012	3B	NJ	OCEAN	WRANGEL BROOK	39°57'50"N	74°17'26"W
3B043021	3B	NJ	BURLINGTON	COLD WATER RUN	39°52'46"N	74°44'47"W
3B043023	3B	NJ	BURLINGTON	SHOAL BRANCH	39°48'12"N	74°28'41"W
3B043024	3B	NJ	OCEAN	FACTORY BRANCH	39°53'36"N	74°13'37"W
3B043032	3B	NJ	CAMDEN	HAYS MILL CREEK	39°45'03"N	74°50'29"W
3B043033	3B	NJ	CAMDEN	MULLICA RIVER	39°44'32"N	74°45'25"W
3B043034	3B	NJ	BURLINGTON	TULPEHOCKEN CREEK	39°43'47"N	74°35'35"W
3B043035	3B	NJ	BURLINGTON	OSWEGO RIVER	39°44'00"N	74°28'06"W
3B043053	3B	NJ	CUMBERLAND	HARROW RUN	39°29'46"N	75°15'25"W
3B043055	3B	NJ	ATLANTIC	DEEP RUN	39°30'26"N	74°47'00"W
3B043061*	3B	DE	NEW CASTLE	APPOQUINIMINK RIVER		
3B043067	3B	NJ	ATLANTIC	JAMES BRANCH	39°23'58"N	74°46'41"W
3B043077*	3B	NJ	CAPE MAY	MILL CREEK	39°17'51"N	74°46'31"W
3B043079	3B	MD	QUEEN ANNES	NO NAME	39°12'32"N	75°50'19"W
3B047003	3B	VA	ORANGE	NO NAME	38°09'40"N	77°58'52"W
3B048023	3B	MD	PRINCE GEORGES	NO NAME	38°45'09"N	76°50'34"W
3B048029	3B	VA	PRINCE WILLIAM	NO NAME	38°40'26"N	77°33'19"W
3B048034	3B	MD	CHARLES	NO NAME	38°37'09"N	76°49'47"W
3B048046	3B	MD	CHARLES	NO NAME	38°31'28"N	77°00'38"W
3B048063	3B	MD	CALVERT	NO NAME	38°22'26"N	76°25'17"W
3B048065*	3B	MD	DORCHESTER	NO NAME	38°22'07"N	76°07'45"W
3B048082	3B	VA	SPOTSYLVANIA	NO NAME	38°13'23"N	77°25'49"W
3B048094	3B	VA	SPOTSYLVANIA	NORTHEAST CREEK	38°05'44"N	77°44'07"W
3B048101	3B	VA	WESTMORELAND	MARSHALL CREEK	38°03'51"N	76°44'15"W
3B049010	3B	DE	SUSSEX	GRUBBY NECK BRANCH	38°46'51"N	75°35'43"W
3B049011	3B	DE	SUSSEX	NO NAME	38°48'29"N	75°27'57"W
3B049022	3B	MD	DORCHESTER	BECKY TAYLOR BRANCH	38°34'17"N	75°46'04"W
3B049031	3B	DE	SUSSEX	GRAYS PRONG	38°26'46"N	75°20'18"W
3B058021	3B	VA	BUCKINGHAM	GOLD MINE BRANCH	37°33'41"N	78°27'31"W
3B058023	3B	VA	CUMBERLAND	NO NAME	37°31'10"N	78°08'50"W
3B059007	3B	VA	HANOVER	NO NAME	37°51'25"N	77°34'53"W
3B059009	3B	VA	CAROLINE	REEDY CREEK	37°53'43"N	77°18'30"W
3B059013	3B	VA	RICHMOND	NO NAME	37°54'42"N	76°43'24"W
3B059013*	3B	VA	RICHMOND	NO NAME	37°54'42"N	76°43'24"W
3B059029	3B	VA	LANCASTER	NO NAME	37°48'12"N	76°27'10"W
3B059034	3B	VA	HENRICO	TURNER RUN	37°39'22"N	77°26'23"W
3B059038	3B	VA	KING AND QUEEN	COURTHOUSE CREEK	37°41'04"N	76°52'27"W
3B059073	3B	VA	CHARLES CITY	BUCKLAND CREEK	37°19'07"N	77°06'42"W
3B059073*	3B	VA	CHARLES CITY	BUCKLAND CREEK	37°19'07"N	77°06'42"W
3B059075	3B	VA	JAMES CITY	LITTLE CREEK	37°20'14"N	76°50'48"W
3B059080	3B	VA	NOTTOWAY	LEES CREEK	37°10'29"N	77°59'05"W
3B059090*	3B	VA	YORK	FELGATES CREEK	37°15'10"N	76°34'31"W

*Non-interest reaches--see Table 4-3 for explanation.

Table 4-1 Names and locations of regular streams sorted by identification number (Continued)

Reach number	Sub-region	State	County	Stream name	Latitude	Longitude
3B059105	3B	VA	ISLE OF WIGHT	CANAL RUN	37°00'25"N	76°39'56"W
3B070004	3B	VA	SUSSEX	NO NAME	36°58'11"N	77°19'54"W
3B070009	3B	VA	ISLE OF WIGHT	CYPRESS CREEK	36°56'25"N	76°36'20"W
3B070015	3B	VA	SUSSEX	NO NAME	36°50'20"N	77°19'48"W
3B070024	3B	VA	SUSSEX	NO NAME	36°44'22"N	77°28'53"W
3B070043	3B	VA	CHESAPEAKE CITY	NORTHWEST RIVER	36°34'04"N	76°12'27"W
3B070050	3B	NC	GATES	HACKLEY CREEK	36°28'14"N	76°47'09"W
3B070058	3B	NC	NORTHAMPTON	RAMSEY CREEK	36°23'29"N	77°20'55"W
3B070059	3B	NC	NORTHAMPTON	NO NAME	36°22'29"N	77°12'38"W
3B070075	3B	NC	HERTFORD	FLAT SWAMP	36°16'06"N	76°49'57"W
3C123008	3C	FL	HOLMES	SANDY CREEK	30°45'47"N	86°01'12"W
3C123009	3C	FL	OKALOOSA	TURKEY HEN CREEK	30°41'24"N	86°34'35"W
3C123010*	3C	FL	OKALOOSA	BULL CREEK		
3C123011	3C	FL	WALTON	NO NAME	30°39'33"N	86°19'46"W
3C123013	3C	FL	WALTON	PANTHER CREEK	30°39'12"N	86°03'01"W
3C123016	3C	FL	OKALOOSA	ROGUE CREEK	30°33'25"N	86°32'26"W
3C123017	3C	FL	OKALOOSA	TURKEY CREEK	30°30'28"N	86°25'26"W
3C123018	3C	FL	WALTON	MIDDLE CREEK	30°31'56"N	86°17'13"W
3C124001	3C	FL	HOLMES	NO NAME	30°54'53"N	85°53'17"W
3C124002	3C	FL	HOLMES	LIMESTONE BRANCH	30°52'13"N	85°45'33"W
3C124003	3C	FL	HOLMES	NO NAME	30°48'27"N	85°53'17"W
3C124006*	3C	FL	WASHINGTON	NO NAME	30°49'05"N	85°29'18"W
3C124010*	3C	FL	WASHINGTON	NO NAME	30°41'31"N	85°45'27"W
3C124012	3C	FL	WASHINGTON	LITTLE HARD LABOR CREEK	30°39'23"N	85°29'40"W
3C124015*	3C	FL	JACKSON	NO NAME	30°41'11"N	85°06'02"W
3C124018*	3C	FL	WASHINGTON	NO NAME	30°36'13"N	85°45'58"W
3C124019	3C	FL	WASHINGTON	PINE LOG CREEK	30°33'42"N	85°38'00"W
3C124020	3C	FL	WASHINGTON	WHITE OAK CREEK	30°34'36"N	85°30'55"W
3C124021	3C	FL	JACKSON	ECONFINA CREEK	30°34'07"N	85°21'48"W
3C124023	3C	FL	CALHOUN	GRAVES CREEK	30°33'15"N	85°03'46"W
3C124025	3C	FL	GADSDEN	BILLY BRANCH	30°34'31"N	84°52'15"W
3C124026	3C	FL	GADSDEN	LITTLE TELOGIA CREEK	30°33'41"N	84°43'07"W
3C124028	3C	FL	GADSDEN	DOUBLE BRANCH	30°32'56"N	84°25'13"W
3C124032	3C	FL	WASHINGTON	JONES HEAD	30°27'19"N	85°30'42"W
3C124034	3C	FL	CALHOUN	BIG BROOK	30°26'46"N	85°12'16"W
3C124036	3C	FL	LIBERTY	KELLY BRANCH	30°26'55"N	84°59'20"W
3C124038	3C	FL	GADSDEN	OCKLAWAHA CREEK	30°27'31"N	84°42'27"W
3C124045	3C	FL	CALHOUN	NO NAME	30°20'24"N	85°03'41"W
3C124047	3C	FL	LIBERTY	BIG CYPRESS BRANCH	30°19'49"N	84°48'25"W
3C124049*	3C	FL	LEON	NO NAME	30°23'43"N	84°36'52"W
3C124050*	3C	FL	LEON	NO NAME	30°20'02"N	84°24'57"W
3C124052	3C	FL	LIBERTY	SOUTH CREEK	30°13'40"N	84°58'02"W
3C125002*	3C	FL	UNION	NO NAME	30°06'48"N	82°23'44"W
3C125003	3C	FL	UNION	TURKEY CREEK	30°02'25"N	82°13'13"W
3C126003	3C	FL	CLAY	NO NAME	30°01'46"N	81°53'42"W
3C132004	3C	FL	BRADFORD	SAMPSON RIVER	29°54'00"N	82°13'06"W
3C132006*	3C	FL	ALACHUA	NO NAME	29°45'02"N	82°10'15"W
3C132009*	3C	FL	ALACHUA	LITTLE ORANGE CREEK	29°39'03"N	82°04'57"W
3C132011	3C	FL	PUTNAM	NO NAME	29°31'13"N	82°03'01"W
3C133001*	3C	FL	CLAY	NO NAME		
3C133002	3C	FL	CLAY	NO NAME	29°55'10"N	81°48'10"W
3C133003*	3C	FL	CLAY	NO NAME	29°54'56"N	81°38'10"W
3C133005	3C	FL	PUTNAM	NO NAME	29°47'40"N	81°48'03"W
3C133008	3C	FL	PUTNAM	OLDTOWN BRANCH	29°41'20"N	81°47'40"W
3C133011*	3C	FL	PUTNAM	SWEETWATER CREEK	29°33'38"N	81°48'31"W
3C133013	3C	FL	MARION	NO NAME	29°27'57"N	81°55'45"W

*Non-interest reaches--see Table 4-3 for explanation.

Table 4-1 Names and locations of regular streams sorted by identification number (Continued)

Reach number	Sub-region	State	County	Stream name	Latitude	Longitude
3C133024*	3C	FL	VOLUSIA	NO NAME	29°13'27"N	81°25'13"W
3C133029*	3C	FL	LAKE	NO NAME	29°06'58"N	81°32'10"W
3C136032*	3C	FL	POLK	NO NAME	28°20'25"N	81°52'13"W
3C136033	3C	FL	POLK	NO NAME	28°19'46"N	81°44'52"W

*Non-interest reaches--see Table 4-3 for explanation.

TABLE 4-2. Name and Location of Regular Streams, Listed by State and County

State - county	Stream name	Reach number	Sub-region	1:250,000-scale map name	1:24,000-scale map name
AL BIBB	NO NAME	3A106008	3A	MONTGOMERY 1969	RANDOLPH, AL 1983
CHAMBERS	SANDY CREEK	3A098075	3A	ATLANTA 1970	WADLEY SOUTH, AL 1969
CHEROKEE	NO NAME	2B088049*	2X	ROME 1972	CEDAR BLUFF, AL 1967
	NO NAME	2B088065*	2X	ROME 1972	ELLISVILLE, AL 1967
CHILTON	NO NAME	3A106023	3A	MONTGOMERY 1969	MAPLESVILLE WEST, AL 1983
CLAY	CHEAHA CREEK	2B098019	2X	ATLANTA 1970	IRONATON, AL 1983
CLEBURNE	NO NAME	2B098015	2X	ATLANTA 1970	FRUITHURST, AL 1980
	NO NAME	3A098025	3A	ATLANTA 1970	BOWDON WEST, GA-AL 1980
COOSA	WEOKA CREEK	3A106029	3A	MONTGOMERY 1969	ROCKFORD SW, AL 1971
DE KALB	SOUTH SAUTY CREEK	2B088019	2X	ROME 1972	SYVANIA, AL 1983
	NO NAME	2B088020	2X	ROME 1972	DUGOUT VALLEY, AL 1975
	BLALOCK BRANCH	2B088021*	2X	ROME 1972	VALLEY HEAD, AL-GA 1983
ETOWAH	LITTLE SAND VALLEY CREEK	2B087003	2X	GADSDEN 1977	RODENTOWN, AL 1983
	NO NAME	2B087005	2X	GADSDEN 1977	GADSDEN EAST, AL 1967
FRANKLIN	DRY CREEK	3A086024	3A	TUPELO 1970	VINA, AL 1976
JACKSON	NO NAME	2C088003	2X	ROME 1972	FLAT ROCK, AL 1983
	LICK CREEK	2C088004	2X	ROME 1972	HENEGAR, AL 1983
LEE	NO NAME	3A107041	3A	PHENIX CITY 1972	BLEECKER, GA 1973
MARION	BARN CREEK	3A087008	3A	GADSDEN 1977	HAMILTON NE, AL 1982
PERRY	BRUSH CREEK	3A106020	3A	MONTGOMERY 1969	HOGGLESVILLE, AL 1983
	NO NAME	3A106035	3A	MONTGOMERY 1969	MARION NORTH, AL 1983
PICKENS	HOLLY CREEK	3A097031	3A	BIRMINGHAM 1969	GORDO, AL 1983
RANDOLPH	KNIGHT BRANCH	3A098034	3A	ATLANTA 1970	GRAHAM, AL-GA 1969
TUSCALOOSA	BUCK CREEK	3A097026	3A	BIRMINGHAM 1969	BROWNVILLE, AL 1967
	NO NAME	3A097029	3A	BIRMINGHAM 1969	WINDHAM SPRINGS, AL 1974
AR CLARK	NO NAME	2D084079	2D	LITTLE ROCK 1977	CHALYBEATE MTN. WEST, AR 1975
CLEBURNE	BIG CREEK	2D074009	2D	MEMPHIS 1978	WEST PANGBURN, AR 1975
CONWAY	CYPRESS CREEK	2D073080	2D	RUSSELLVILLE 1954	SPRINGFIELD, AR 1962
FAULKNER	PIERCE CREEK	2D084013	2D	LITTLE ROCK 1977	CATO, AR 1970
FRANKLIN	NO NAME	2D073044	2D	RUSSELLVILLE 1954	COAL HILL, AR 1961
GARLAND	NORTH FORK OUACHITA RIVER	2D084033	2D	LITTLE ROCK 1977	AVANT, AR 1975
	GULPHA CREEK	2D084058	2D	LITTLE ROCK 1977	LAKE CATHERINE, AR 1978
HEMPSTEAD	GIBSON CREEK	2D094009	2D	EL DORADO 1977	MCNAB, AR 1975
HOWARD	WHITE OAK CREEK	2D083081	2D	MCALESTER 1948	UMPIRE (15'), AR 1959
INDEPENDENCE	CANEY CREEK	2D074006	2D	MEMPHIS 1978	CONCORD, AR 1973
LOGAN	NO NAME	2D072004	2D	FORT SMITH 1978	BOONEVILLE, AR 1983
	NO NAME	2D073057*	2D	RUSSELLVILLE 1954	PARIS, AR 1961
	STINNETT CREEK	2D073075	2D	RUSSELLVILLE 1954	DELAWARE, AR 1962
	LICK CREEK	2D073086	2D	RUSSELLVILLE 1954	SUGAR GROVE, AR 1983
MADISON	PINE CREEK	2D073003	2D	RUSSELLVILLE 1954	WEATHERS, AR 1973
MONTGOMERY	SHIRLEY CREEK	2D084041	2D	LITTLE ROCK 1977	ODEN, AR 1985
	LICK CREEK	2D084052	2D	LITTLE ROCK 1977	GLENWOOD (15'), AR 1949
	MAZARN CREEK	2D084054	2D	LITTLE ROCK 1977	BONNERDALE, AR 1966

*Non-interest samples/reaches--see Table 4-3 for explanation.

TABLE 4-2. Name and Location of Regular Streams, Listed by State and County (Continued)

State - county	Stream name	Reach number	Sub-region	1:250,000-scale map name	1:24,000-scale map name
AR NEWTON	NO NAME	2D073004	2D	RUSSELLVILLE 1954	BOXLEY, AR 1976
	FALLS BRANCH CAVE CREEK	2D073009	2D	RUSSELLVILLE 1954	MT. JUDEA SE, AR 1974
PIKE	NO NAME	2D084077	2D	LITTLE ROCK 1977	NARROWS DAM, AR 1969
	NO NAME	2D084082	2D	LITTLE ROCK 1977/EL DORADO 197	NATHAN, AR 1970
POLK	LOFTIS CREEK	2D083039	2D	MCALESTER 1948	BOARD CAMP, AR 1975
	NO NAME	2D084051	2D	LITTLE ROCK 1977/MCALESTER 194	ATHENS (15'), AR 1936
POPE	MIDDLE FORK ILLINOIS BAYOU	2D073024	2D	RUSSELLVILLE 1954	SMYRNA, AR 1980
	NORTH FORK ILLINOIS BAYOU	2D073036	2D	RUSSELLVILLE 1954	SMYRNA (15'), AR 1940
	NO NAME	2D073048	2D	RUSSELLVILLE 1954	LEE MOUNTAIN, AR 1963
PULASKI	WORTHEN CREEK	2D084025	2D	LITTLE ROCK 1977	FERNDALE, AR 1984
SALINE	LITTLE CEDAR CREEK	2D084022	2D	LITTLE ROCK 1977	NIMROD, AR 1968
SCOTT	LITTLE PETIT JEAN RIVER	2D073100	2D	RUSSELLVILLE 1954	IONE, AR 1979
SEARCY	MIDDLE FORK LITTLE RED RIVER	2D073025	2D	RUSSELLVILLE 1954	CANNAN, AR 1980
SEBASTIAN	NO NAME	2D072013	2D	FORT SMITH 1978	HUNTINGTON, AR 1978
SEVIER	DRY CREEK	2D093007	2D	TEXARKANA 1972	LOCKESBURG, AR 1978
	NO NAME	2D093008	2D	TEXARKANA 1972	SILVER RIDGE, AR 1978
STONE	DRY FORK	2D073029	2D	RUSSELLVILLE 1954	PARMA, AR 1973
VAN BUREN	CASTLEBERRY CREEK	2D073026	2D	RUSSELLVILLE 1954	BOTKINBURG, AR 1965
	LINN CREEK	2D073027	2D	RUSSELLVILLE 1954	BOTKINBURG, AR 1965
	NO NAME	2D073052	2D	RUSSELLVILLE 1954	FORMOSA, AR 1962
	CHOCTAW CREEK	2D073053	2D	RUSSELLVILLE 1954	CLINTON, AR 1981
	PINE MOUNTAIN CREEK	2D073066	2D	RUSSELLVILLE 1954	BEE BRANCH, AR 1975
WHITE	NO NAME	2D073099	2D	RUSSELLVILLE 1954	MOUNT VERNON, AR 1983
	NO NAME	2D074012	2D	MEMPHIS 1978	BEEBE, AR 1981
YELL	NO NAME	2D073092*	2D	RUSSELLVILLE 1954	ATKINS, AR 1979
	MASON CREEK	2D073106	2D	RUSSELLVILLE 1954	OLA, AR 1972
DE NEW CASTLE	APPOQUINIMINK RIVER	3B043061*	3B	WILMINGTON 1972	MIDDLETOWN, DE 1953
SUSSEX	GRUBBY NECK BRANCH	3B049010	3B	SALISBURY 1969	GREENWOOD, DE 1981
	NO NAME	3B049011	3B	SALISBURY 1969	ELLENDALE, DE 1981
	GRAYS PRONG	3B049031	3B	SALISBURY 1969	WHALEYSVILLE, MD-DE 1983
FL ALACHUA	NO NAME	3C132006*	3C	GAINESVILLE 1978	WALDO, FL 1970
	LITTLE ORANGE CREEK	3C132009*	3C	GAINESVILLE 1978	MELROSE, FL 1981
BRADFORD	SAMPSON RIVER	3C132004	3C	GAINESVILLE 1978	SAMPSON, FL 1970
CALHOUN	GRAVES CREEK	3C124023	3C	TALLAHASSEE 1966	ALTHA EAST, FL 1982
	BIG BROOK	3C124034	3C	TALLAHASSEE 1966	CLARKSVILLE, FL 1945
	NO NAME	3C124045	3C	TALLAHASSEE 1966	ESTIFFANULGA, FL 1945
CLAY	NO NAME	3C126003	3C	JACKSONVILLE 1966	MIDDLEBURG, FL 1978
	NO NAME	3C133001*	3C	DAYTONA BEACH 1972	KINGSLEY, FL 1978
	NO NAME	3C133002	3C	DAYTONA BEACH 1972	PENNY FARMS, FL 1978
	NO NAME	3C133003*	3C	DAYTONA BEACH 1972	GREEN COVE SPRINGS, FL 1980

*Non-interest samples/reaches--see Table 4-3 for explanation.

TABLE 4-2. Name and Location of Regular Streams, Listed by State and County (Continued)

State - county	Stream name	Reach number	Sub-region	1:250,000-scale map name	1:24,000-scale map name
FL GADSDEN	BILLY BRANCH	3C124025	3C	TALLAHASSEE 1966	SYCAMORE, FL 1982
	LITTLE TELOGIA CREEK	3C124026	3C	TALLAHASSEE 1966	GRETHA, FL 1982
	DOUBLE BRANCH	3C124028	3C	TALLAHASSEE 1966	HAVANA SOUTH, FL 1982
	OCKLAWAHA CREEK	3C124038	3C	TALLAHASSEE 1966	HOSFORD, FL 1945
HOLMES	SANDY CREEK	3C123008	3C	PENSACOLA 1970	GLENDALE, FL 1973
	NO NAME	3C124001	3C	TALLAHASSEE 1966	HOBBS CROSSROADS, FL 1982
	LIMESTONE BRANCH	3C124002	3C	TALLAHASSEE 1966	IZAGORA, FL-AL 1982
	NO NAME	3C124003	3C	TALLAHASSEE 1966	PROSPERITY, FL 1982
JACKSON	NO NAME	3C124015*	3C	TALLAHASSEE 1966	CYPRESS, FL 1982
	ECONFINA CREEK	3C124021	3C	TALLAHASSEE 1966	ALFORD SE, FL 1982
LAKE	NO NAME	3C133029*	3C	DAYTONA BEACH 1972	ALEXANDER SPRINGS, FL 1972
LEON	NO NAME	3C124049*	3C	TALLAHASSEE 1966	LAKE TALQUIN, FL 1972
	NO NAME	3C124050*	3C	TALLAHASSEE 1966	HILLIARDVILLE, FL 1976
LIBERTY	KELLY BRANCH	3C124036	3C	TALLAHASSEE 1966	BRISTOL, FL 1945
	BIG CYPRESS BRANCH	3C124047	3C	TALLAHASSEE 1966	TELOGIA, FL 1945
	SOUTH CREEK	3C124052	3C	TALLAHASSEE 1966	WILMA, FL 1946
MARION	NO NAME	3C133013	3C	DAYTONA BEACH 1972	EUREKA DAM, FL 1981
OKALOOSA	TURKEY HEN CREEK	3C123009	3C	PENSACOLA 1970	CRESTVIEW, FL 1973
	BULL CREEK	3C123010*	3C	PENSACOLA 1970	SPENCER FLATS, FL 1973
	ROGUE CREEK	3C123016	3C	PENSACOLA 1970	VALPARAISO, FL 1976
	TURKEY CREEK	3C123017	3C	PENSACOLA 1970	NICEVILLE, FL 1976
POLK	NO NAME	3C136032*	3C	ORLANDO 1972	POYNER, FL 1980
	NO NAME	3C136033	3C	ORLANDO 1972	LAKE LOUISA SW, FL 1980
PUTNAM	NO NAME	3C132011	3C	GAINESVILLE 1978	HAWTHORNE, FL 1981
	NO NAME	3C133005	3C	DAYTONA BEACH 1972	RICE CREEK, FL 1978
	OLDTOWN BRANCH	3C133008	3C	DAYTONA BEACH 1972	BAYWOOD, FL 1978
	SWEETWATER CREEK	3C133011*	3C	DAYTONA BEACH 1972	RODMAN, FL 1970
UNION	NO NAME	3C125002*	3C	VALDOSTA 1965	LULU, FL 1966
	TURKEY CREEK	3C125003	3C	VALDOSTA 1965	RAIFORD, FL 1970
VOLUSIA	NO NAME	3C133024*	3C	DAYTONA BEACH 1972	PIERSON, FL 1977
WALTON	NO NAME	3C123011	3C	PENSACOLA 1970	MOSSY HEAD, FL 1973
	PANTHER CREEK	3C123013	3C	PENSACOLA 1970	DE FUNIAK SPRINGS EAST, FL 19
	MIDDLE CREEK	3C123018	3C	PENSACOLA 1970	NICEVILLE SE, FL 1976
WASHINGTON	NO NAME	3C124006*	3C	TALLAHASSEE 1966	CHIPLEY, FL 1982
	NO NAME	3C124010*	3C	TALLAHASSEE 1966	HINSONS CROSSROADS, FL 1982
	LITTLE HARD LABOR CREEK	3C124012	3C	TALLAHASSEE 1966	ALFORD, FL 1982
	NO NAME	3C124018*	3C	TALLAHASSEE 1966	MILLERS FERRY, FL 1949
	PINE LOG CREEK	3C124019	3C	TALLAHASSEE 1966	VERNON, FL 1982

*Non-interest samples/reaches--see Table 4-3 for explanation.

TABLE 4-2. Name and Location of Regular Streams, Listed by State and County (Continued)

State - county	Stream name	Reach number	Sub-region	1:250,000-scale map name	1:24,000-scale map name
FL	WHITE OAK CREEK	3C124020	3C	TALLAHASSEE 1966	GAP LAKE, FL 1982
	JONES HEAD	3C124032	3C	TALLAHASSEE 1966	BENNET, FL 1982
GA BARTOW	CEDAR CREEK	2B088045	2X	ROME 1972	WHITE WEST, GA 1972
	NO NAME	3A088006*	3A	ROME 1972	FAIRMOUNT, GA 1972
	GUTHRIE CREEK	3A088012	3A	ROME 1972	WHITE EAST, GA 1972
CATOOSA	CAT CREEK	2B088004	2X	ROME 1972	RINGGOLD, GA-TN 1983
CHATTOOGA	NO NAME	2B088033*	2X	ROME 1972	SUMMERVILLE, GA 1967
	NO NAME	2B088041*	2X	ROME 1972	LYERLY, GA-AL 1966
CHEROKEE	OWENBY CREEK	2A08803	2AS	ROME	CULBERSON (GA-NC)
	OWENBY CREEK	2A08803*	2AS	ROME	CULBERSON (GA-NC)
COWETA	CEDAR CREEK	3A098038	3A	ATLANTA 1970	PALMETTO, GA 1982
	NO NAME	3A098039	3A	ATLANTA 1970	MADRAS, GA 1983
DADE	CRAWFISH CREEK	2B088006	2X	ROME 1972	TRENTON, GA-AL 1982
	NO NAME	2B088013*	2X	ROME 1972	SULPHER SPRINGS, AL-GA 1982
	FLATROCK CREEK	2C088002*	2X	ROME 1972	NEW HOME, GA-AL-TN 1982
FANNIN	DUNN MILL CREEK	2A08802	2AS	ROME	EPWORTH (GA-TN)
	DUNN MILL CREEK	2A08802*	2AS	ROME	EPWORTH (GA-TN)
	WEAVER CREEK	2A08805	2AS	ROME	MINERAL BLUFF (GA-NC)
	WEAVER CREEK	2A08805*	2AS	ROME	MINERAL BLUFF (GA-NC)
FULTON	NO NAME	3A088022	3A	ROME 1972	BIRMINGHAM, GA 1972
	NO NAME	3A088028	3A	ROME 1972	MOUNTAIN PARK, GA 1973
GILMER	BEAR CREEK	2A08804	2AS	ROME, GA	DYER GAY (GA)
	BEAR CREEK	2A08804*	2AS	ROME, GA	DYER GAY (GA)
	WHITE PATH CREEK	2A08808	2AS	ROME	ELLIJAY (GA)
	WHITE PATH CREEK	2A08808*	2AS	ROME	ELLIJAY (GA)
	TICKANETLEY CREEK	2A08809	2AS	ROME	TICKANETLEY (GA)
	TICKANETLEY CREEK	2A08809*	2AS	ROME	TICKANETLEY (GA)
	TICKANETLEY CREEK	2A08809*	2AS	ROME	TICKANETLEY (GA)
	TICKANETLEY CREEK	2A08809*	2AS	ROME	TICKANETLEY (GA)
GORDON	NO NAME	2B088026	2X	ROME 1972	CALHOUN NORTH, GA 1972
GREENE	NO NAME	3A099027	3A	ATHENS 1965	PENFIELD, GA 1972
	BEAVERDAM CREEK	3A099037	3A	ATHENS 1965	GREENSBORO, GA 1972
HABERSHAM	DEEP CREEK	2A08906	2AS	GREENVILLE, SC	TALLULAH FALLS (GA)
	DEEP CREEK	2A08906*	2AS	GREENVILLE, SC	TALLULAH FALLS (GA)
	DEEP CREEK	2A08906*	2AS	GREENVILLE, SC	TALLULAH FALLS (GA)
	DEEP CREEK	2A08906*	2AS	GREENVILLE, SC	TALLULAH FALLS (GA)
	DEEP CREEK	3A089086	3A	GREENVILLE 1954	TALLULAH FALLS, GA 1953
HARRIS	NO NAME	3A107034	3A	PHENIX CITY 1972	CATAULA, GA 1955
JASPER	HERDS CREEK	3A099051	3A	ATHENS 1965	STEWART, GA 1964
	POPES BRANCH	3A099052	3A	ATHENS 1965	MONTICELLO, GA 1972

*Non-interest samples/reaches--see Table 4-3 for explanation.

TABLE 4-2. Name and Location of Regular Streams, Listed by State and County (Continued)

State - county	Stream name	Reach number	Sub-region	1:250,000-scale map name	1:24,000-scale map name
GA LUMPKIN	BRYANT CREEK	2A08810	2AS	GREENVILLE	DAHLONEGA (GA)
	BRYANT CREEK	2A08810*	2AS	GREENVILLE	DAHLONEGA (GA)
MADISON	WOLF BRANCH	3A089068	3A	GREENVILLE 1954	ILA, GA 1964
MERIWETHER	NO NAME	3A098069	3A	ATLANTA 1970	GRANTVILLE, GA 1982
	ROCKY FORD BRANCH	3A107010	3A	PHENIX CITY 1972	WARM SPRINGS, GA 1971
MURRAY	UNNAMED TRIB. TO PERRY CREEK	2A08801	2AS	ROME	TENNGA (GA-TN)
	UNNAMED TRIB. TO PERRY CREEK	2A08801*	2AS	ROME	TENNGA (GA-TN)
PAULDING	NO NAME	3A088025	3A	ROME 1972	BURNT HICKORY RIDGE, GA 1972
	SWEETWATER CREEK	3A098011	3A	ATLANTA 1970	NEW GEORGIA, GA 1982
PICKENS	HINTON CREEK	2A08811	2AS	ROME	DYKE (GA)
	HINTON CREEK	2A08811*	2AS	ROME	DYKE (GA)
PIKE	ROCKY FORD BRANCH	3A098082	3A	ATLANTA 1970	GAY, GA 1971
POLK	MACKEY BRANCH	2B088069	2X	ROME 1972	TAYLORSVILLE, GA 1972
	NO NAME	2B098006	2X	ATLANTA 1970	FELTON, GA 1973
PUTNAM	NO NAME	3A099062*	3A	ATHENS 1965	STANFORDVILLE, GA 1964
RABUN	PERSIMMON CREEK	2A08901	2AS	GREENVILLE, SC	DILLARD (GA-NC)
	PERSIMMON CREEK	2A08901*	2AS	GREENVILLE, SC	DILLARD (GA-NC)
	WEST FORK CHATTOGA RIVER	2A08902	2AS	GREENVILLE, SC	RABUN BALD (GA)
	WEST FORK CHATTOGA RIVER	2A08902*	2AS	GREENVILLE, SC	RABUN BALD (GA)
	WEST FORK CHATTOGA RIVER	2A08902*	2AS	GREENVILLE, SC	RABUN BALD (GA)
	WEST FORK CHATTOGA RIVER	2A08902*	2AS	GREENVILLE, SC	RABUN BALD (GA)
	SHE CREEK	2A08904	2AS	GREENVILLE, SC	RABUN BALD (GA)
	SHE CREEK	2A08904*	2AS	GREENVILLE, SC	RABUN BALD (GA)
	SHE CREEK	2A08904*	2AS	GREENVILLE, SC	RABUN BALD (GA)
	SHE CREEK	2A08904*	2AS	GREENVILLE, SC	RABUN BALD (GA)
TALBOT	MILL CREEK	3A107037	3A	PHENIX CITY 1972	BALDWINVILLE, GA 1985
TROUP	NO NAME	3A098078	3A	ATLANTA 1970	LA GRANGE, GA 1982
UNION	UNNAMED TRIB.TO KIUTUESTIA CR.	2A08806	2AS	ROME, GA	MULKEY GAP (GA)
	UNNAMED TRIB.TO KIUTUESTIA CR.	2A08806*	2AS	ROME, GA	MULKEY GAP (GA)
	NOTTELY RIVER	2A08903	2AS	GREENVILLE, SC	COOSA BALD (GA)
	NOTTELY RIVER	2A08903*	2AS	GREENVILLE, SC	COOSA BALD (GA)
WALKER	NO NAME	2B088002*	2X	ROME 1972	FORT OGLETHORPE, GA-TN 1982
	NO NAME	2B088007*	2X	ROME 1972	DURHAM, GA 1983
	EAST ARMUCHEE CREEK	2B088016	2X	ROME 1972	CATLETT, GA 1982
	SPRING CREEK	2B088022	2X	ROME 1972	DOUGHERTY GAP, GA 1983
WHITE	CHATTAHOOCHIE RIVER	2A08905	2AS	GREENVILLE, GA	COWROCK (GA)
	CHATTAHOOCHIE RIVER	2A08905*	2AS	GREENVILLE, GA	COWROCK (GA)
WILKES	CLARK CREEK	3A099019	3A	ATHENS 1965	CELESTE, GA 1971
KY WHITLEY	CANE CREEK	2C066013	2X	CORBIN 1965	SAXTON, KY 1982
MD ALLEGANY	NO NAME	2B041018	2BN	CUMBERLAND 1969	PATTERSON CREEK, MD-WV 1974
BALTIMORE	MCGILL RUN	3B042017	3B	BALTIMORE 1969	HAMPSTEAD, MD 1974
CALVERT	NO NAME	3B048063	3B	WASHINGTON,D.C. 1969	SOLOMONS ISLAND, MD 1974

*Non-interest samples/reaches--see Table 4-3 for explanation.

TABLE 4-2. Name and Location of Regular Streams, Listed by State and County (Continued)

State - county	Stream name	Reach number	Sub-region	1:250,000-scale map name	1:24,000-scale map name
MD CARROLL	NO NAME	2B042032	2BN	BALTIMORE 1969	UNION BRIDGE, MD 1971
CHARLES	NO NAME	3B048034	3B	WASHINGTON,D.C. 1969	BRANDYWINE, MD 1979
	NO NAME	3B048046	3B	WASHINGTON,D.C. 1969	PORT TOBACCO, MD 1978
DORCHESTER	NO NAME	3B048065*	3B	WASHINGTON,D.C. 1969	WINGATE, MD 1982
	BECKY TAYLOR BRANCH	3B049022	3B	SALISBURY 1969	RHODESDALE, MD 1974
FREDERICK	NO NAME	2B042022	2BN	BALTIMORE 1969	BLUE RIDGE, MD-PA 1971
	CATOCTIN CREEK	2B042036	2BN	BALTIMORE 1969	MYERSVILLE, MD 1971
	NO NAME	2B042044*	2BN	BALTIMORE 1969	BUCKEYSTOWN, MD-VA 1984
GARRETT	NO NAME	2C041016	2CN	CUMBERLAND 1969	FRIENDSVILLE, MD-PA-WV 1981
	BULL GLADE RUN	2C041029	2CN	CUMBERLAND 1969	OAKLAND, MD-WV 1974
	CHERRY CREEK	2C041035	2CN	CUMBERLAND 1969	TABLE ROCK, MD-WV 1981
	NO NAME	2C041036	2CN	CUMBERLAND 1969	GORMAN, MD-WV 1981
HOWARD	NO NAME	2B042047	2BN	BALTIMORE 1969	WOODBINE, MD 1979
	NO NAME	3B042036	3B	BALTIMORE 1969	SAVAGE, MD 1974
KENT	NO NAME	3B042041	3B	BALTIMORE 1969	CHESTERTOWN, MD 1973
MONTGOMERY	NO NAME	2B042052	2BN	BALTIMORE 1969	GERMANTOWN, MD 1979
	NORTHWEST BRANCH	3B042042	3B	BALTIMORE 1969	KENSINGTON, MD 1979
PRINCE GEORGES	NO NAME	3B048023	3B	WASHINGTON,D.C. 1969	UPPER MARLBORO, MD 1978
QUEEN ANNES	NO NAME	3B043079	3B	WILMINGTON 1972	SUDLERSVILLE, MD-DE 1973
MS PRENTISS	BIG BROWN CREEK	3A086009	3A	TUPELO 1970	ALTITUDE, MS 1969
TISHOMINGO	HURRICANE CREEK	3A086010	3A	TUPELO 1970	PADEN, MS 1969
	NO NAME	3A086015*	3A	TUPELO 1970	PADEN SE, MS 1965
NC AVERY	HENSON CREEK	2A067012	2X	JOHNSON CITY 1966	CARVERS GAP, NC-TN 1960
	BUCKEYE CREEK	2A068048	2X	WINSTON-SALEM 1962	ELK PARK, NC-TN 1978
BUNCOMBE	NORTH FORK DILLINGHAM CREEK	2A07807	2AS	KNOXVILLE	BARNARDSVILLE (NC)
	NORTH FORK DILLINGHAM CREEK	2A07807*	2AS	KNOXVILLE	BARNARDSVILLE (NC)
	REEMS CREEK	2A07814	2AS	KNOXVILLE	WEAVERVILLE (NC)
	REEMS CREEK	2A07814*	2AS	KNOXVILLE	WEAVERVILLE (NC)
BURKE	CUB CREEK	3A079012	3A	CHARLOTTE 1974	VALDESE, NC 1956
CHEROKEE	WELCH MILL CREEK	2A07827	2AS	KNOXVILLE, TN	MARBLE (NC)
	WELCH MILL CREEK	2A07827*	2AS	KNOXVILLE, TN	MARBLE (NC)
CLAY	TUSQUITEE CREEK	2A07832	2AS	KNOXVILLE	ANDREWS (NC)
	TUSQUITEE CREEK	2A07832*	2AS	KNOXVILLE	ANDREWS (NC)
GATES	HACKLEY CREEK	3B070050	3B	NORFOLK 1969	GATESVILLE, NC 1981
GRAHAM	SWEETWATER CREEK	2A07822	2AS	KNOXVILLE	HEWITT (NC)
	SWEETWATER CREEK	2A07822*	2AS	KNOXVILLE	HEWITT (NC)
HAYWOOD	CORRELL BRANCH	2A07812	2AS	KNOXVILLE	LUFTEE KNOB (NC-TN)
	CORRELL BRANCH	2A07812*	2AS	KNOXVILLE	LUFTEE KNOB (NC-TN)
	EAST FORK PIGEON RIVER	2A07820	2AS	KNOXVILLE, TN	DUNSMORE MTN (NC)
	EAST FORK PIGEON RIVER	2A07820*	2AS	KNOXVILLE, TN	DUNSMORE MTN (NC)
	MIDDLE PRONG WEST FORK	2A07824	2AS	KNOXVILLE, TN	WAYNESVILLE (NC)

*Non-interest samples/reaches--see Table 4-3 for explanation.

TABLE 4-2. Name and Location of Regular Streams, Listed by State and County (Continued)

State - county	Stream name	Reach number	Sub-region	1:250,000-scale map name	1:24,000-scale map name
NC HAYWOOD	MIDDLE PRONG WEST FORK	2A07824*	2AS	KNOXVILLE, TN	WAYNESVILLE (NC)
	LITTLE BRANCH CREEK	2A07882	2AS	KNOXVILLE	HAZELWOOD (NC)
	LITTLE BRANCH CREEK	2A07882*	2AS	KNOXVILLE	HAZELWOOD (NC)
HENDERSON	GRASSY CREEK	2A07821	2AS	KNOXVILLE, TN	LAKE LURE (15'-NC)
	GRASSY CREEK	2A07821*	2AS	KNOXVILLE, TN	LAKE LURE (15'-NC)
	HENDERSON CREEK	2A07826	2AS	KNOXVILLE, TN	CLIFFIELD MTN (NC)
	HENDERSON CREEK	2A07826*	2AS	KNOXVILLE, TN	CLIFFIELD MTN (NC)
	MUD CREEK	2A07830	2AS	KNOXVILLE, TN	ZIRCONIA (NC)
	MUD CREEK	2A07830*	2AS	KNOXVILLE, TN	ZIRCONIA (NC)
HERTFORD	FLAT SWAMP	3B070075	3B	NORFOLK 1969	HARRELLSVILLE, NC 1982
MACON	WHITEOAK CREEK	2A07828	2AS	KNOXVILLE, TN	TOPTON (NC)
	WHITEOAK CREEK	2A07828*	2AS	KNOXVILLE, TN	TOPTON (NC)
	ALLISON CREEK	2A07833	2AS	KNOXVILLE, TN	RAINBOW SPRINGS (NC)
	ALLISON CREEK	2A07833*	2AS	KNOXVILLE, TN	RAINBOW SPRINGS (NC)
	BRUSH CREEK	2A07834	2AS		HIGHLANDS (NC-GA)
	BRUSH CREEK	2A07834*	2AS		HIGHLANDS (NC-GA)
MADISON	PUNCHEON FORK	2A07802	2AS	KNOXVILLE	BALD CREEK (NC-TN)
	PUNCHEON FORK	2A07802*	2AS	KNOXVILLE	BALD CREEK (NC-TN)
	ROARING FORK	2A07806	2AS	KNOXVILLE	LEMON GAP (NC-TN)
	ROARING FORK	2A07806*	2AS	KNOXVILLE	LEMON GAP (NC-TN)
	LITTLE SANDYMUSH CREEK	2A07813	2AS	KNOXVILLE	SANDYMUSH (NC)
	LITTLE SANDYMUSH CREEK	2A07813*	2AS	KNOXVILLE	SANDYMUSH (NC)
	WALNUT CREEK	2A07881	2AS	KNOXVILLE	WHITE ROCK (NC)
	WALNUT CREEK	2A07881*	2AS	KNOXVILLE	WHITE ROCK (NC)
MCDOWELL	ARMSTRONG CREEK	2A07808	2AS	KNOXVILLE	CELO (NC)
	ARMSTRONG CREEK	2A07808*	2AS	KNOXVILLE	CELO (NC)
	CURTIS CREEK	2A07815	2AS	KNOXVILLE	MONTREAT (NC)
	CURTIS CREEK	2A07815*	2AS	KNOXVILLE	MONTREAT (NC)
	CROOKED CREEK	2A07819	2AS	KNOXVILLE	BLACK MTN (NC)
	CROOKED CREEK	2A07819*	2AS	KNOXVILLE	BLACK MTN (NC)
	CROOKED CREEK	2A07819*	2AS	KNOXVILLE	BLACK MTN (NC)
NORTHAMPTON	RAMSEY CREEK	3B070058	3B	NORFOLK 1969	JACKSON, NC 1974
	NO NAME	3B070059	3B	NORFOLK 1969	CONWAY, NC 1973
POLK	NORTH POCOLET RIVER	2A07831	2AS	KNOXVILLE, TN	CLIFFIELD MTN (NC)
	NORTH POCOLET RIVER	2A07831*	2AS	KNOXVILLE, TN	CLIFFIELD MTN (NC)
	NORTH POCOLET RIVER	2A07831*	2AS	KNOXVILLE, TN	CLIFFIELD MTN (NC)
	NORTH POCOLET RIVER	2A07831*	2AS	KNOXVILLE, TN	CLIFFIELD MTN (NC)
SURRY	BEAVER CREEK	3A068012	3A	WINSTON-SALEM 1962	COPELAND, NC 1970
SWAIN	EAGLE CREEK	2A07816	2AS	KNOXVILLE	CADES COVE (NC-TN)
	EAGLE CREEK	2A07816*	2AS	KNOXVILLE	CADES COVE (NC-TN)
	FORNEY CREEK	2A07817	2AS	KNOXVILLE	CLINGMANS DOME (TN-NC)

*Non-interest samples/reaches--see Table 4-3 for explanation.

TABLE 4-2. Name and Location of Regular Streams, Listed by State and County (Continued)

State - county	Stream name	Reach number	Sub-region	1:250,000-scale map name	1:24,000-scale map name
NC SWAIN	FORNEY CREEK	2A07817*	2AS	KNOXVILLE	CLINGMANS DOME (TN-NC)
	BUNCHES CREEK	2A07818	2AS	KNOXVILLE	BUNCHES BALD (NC)
	BUNCHES CREEK	2A07818*	2AS	KNOXVILLE	BUNCHES BALD (NC)
	BRUSH CREEK	2A07823	2AS	KNOXVILLE, TN	WESSER (NC)
	BRUSH CREEK	2A07823*	2AS	KNOXVILLE, TN	WESSER (NC)
TRANSYLVANIA	SOUTH FORK MILLS RIVER	2A07825	2AS	KNOXVILLE, TN	SHINING ROCK (NC)
	SOUTH FORK MILLS RIVER	2A07825*	2AS	KNOXVILLE, TN	SHINING ROCK (NC)
	CATHEYS CREEK	2A07829	2AS	KNOXVILLE	ROSMAN (NC)
	CATHEYS CREEK	2A07829*	2AS	KNOXVILLE	ROSMAN (NC)
WATAUGA	BOONE FORK	2A068055	2X	WINSTON-SALEM 1962	GLOBE, NC 1959
WILKES	WEST SWAN CREEK	3A068020	3A	WINSTON-SALEM 1962	RONDA, NC 1971
NJ ATLANTIC	DEEP RUN	3B043055	3B	WILMINGTON 1972	NEWTONVILLE, NJ 1972
	JAMES BRANCH	3B043067	3B	WILMINGTON 1972	DOROTHY, NJ 1972
BURLINGTON	RANCOCAS CREEK	3B043010	3B	WILMINGTON 1972	NEW EGYPT, NJ 1971
	COLD WATER RUN	3B043021	3B	WILMINGTON 1972	INDIAN MILLS, NJ 1972
	SHOAL BRANCH	3B043023	3B	WILMINGTON 1972	WOODMANSIE, NJ 1957
	TULPEHOCKEN CREEK	3B043034	3B	WILMINGTON 1972	CHATSWORTH, NJ 1957
	OSWEGO RIVER	3B043035	3B	WILMINGTON 1972	OSWEGO LAKE, NJ 1955
CAMDEN	HAYS MILL CREEK	3B043032	3B	WILMINGTON 1972	CLEMENTON, NJ 1981
	MULLICA RIVER	3B043033	3B	WILMINGTON 1972	ATSION, NJ 1953
CAPE MAY	MILL CREEK	3B043077*	3B	WILMINGTON 1972	TUCKAHOE, NJ 1977
CUMBERLAND	HARROW RUN	3B043053	3B	WILMINGTON 1972	ELMER, NJ 1972
MONMOUTH	YELLOW BROOK	3B037006	3B	NEWARK 1969	MARLBORO, NJ 1981
MORRIS	NO NAME	1D037003	1D	NEWARK 1969	BOONTON, NJ 1981
OCEAN	BORDENS MILL BRANCH	3B037023	3B	NEWARK 1969	CASSVILLE, NJ 1971
	MAPLE ROOT BRANCH	3B037024	3B	NEWARK 1969	LAKEHURST, NJ 1971
	WRANGEL BROOK	3B043012	3B	WILMINGTON 1972	KESWICK GROVE, NJ 1971
	FACTORY BRANCH	3B043024	3B	WILMINGTON 1972	TOMS RIVER, NJ 1970
SUSSEX	BIG FLAT BROOK	1D030080	1D	SCRANTON 1976	PORT JERVIS SOUTH, NY-NJ-PA 1
	BIG FLAT BROOK	1D030092	1D	SCRANTON 1976	CULVERS GAP, NJ-PA 1971
	NO NAME	1D030093	1D	SCRANTON 1976	BRANCHVILLE, NJ 1971
WARREN	NO NAME	1D037010	1D	NEWARK 1969	PORTLAND, PA-NJ 1984
	NO NAME	1D037011*	1D	NEWARK 1969	BLAIRSTOWN, NJ 1971
	OXFORD BROOK	1D037021	1D	NEWARK 1969	WASHINGTON, NJ-PA 1971
NY ALLEGANY	DODGE CREEK	1D022022	1D	BUFFALO 1962	PORTVILLE, NY 1961
CATTARAUGUS	ELM CREEK	1D022010	1D	BUFFALO 1962	RANDOLPH, NY 1979
CHAUTAUQUA	CLEAR CREEK	1D022009	1D	BUFFALO 1962	KENNEDY, NY 1979
COLUMBIA	NO NAME	1D025003	1D	ALBANY 1974	COPAKE, NY-MA 1953
DELAWARE	RUSSELL BROOK	1D030001	1D	SCRANTON 1976	ROSCOE, NY 1982
DUTCHESS	COLD SPRING CREEK	1D031002	1D	HARTFORD 1975	PINE PLAINS, NY 1960
	(SWIFT POND TRIBUTARY)	1D031006	1D	HARTFORD 1975	AMENIA, NY-CT 1984
GREENE	VLY CREEK	1D024010	1D	BINGHAMTON 1948	WEST KILL, NY 1960

*Non-interest samples/reaches--see Table 4-3 for explanation.

TABLE 4-2. Name and Location of Regular Streams, Listed by State and County (Continued)

State - county	Stream name	Reach number	Sub-region	1:250,000-scale map name	1:24,000-scale map name
NY ORANGE	NO NAME	1D030070*	1D	SCRANTON 1976	MIDDLETOWN, NY 1969
	NO NAME	1D030071	1D	SCRANTON 1976	MAYBROOK, NY 1981
	TROUT BROOK	1D030083	1D	SCRANTON 1976	MONROE, NY 1981
PUTNAM	NO NAME	1D031014	1D	HARTFORD 1975	OSCAWANA LAKE, NY 1956
SULLIVAN	ROUNDOUT CREEK	1D030017	1D	SCRANTON 1976	PEEKAMOOSE MTN, NY 1969
	JUDSON BROOK	1D030041	1D	SCRANTON 1976	LIBERTY WEST, NY 1965
ULSTER	ESOPUS CREEK	1D024021	1D	BINGHAMTON 1948	SHANDAKEN, NY 1960
	EAST BRANCH NEVERSINK RIVER	1D030004	1D	SCRANTON 1976	CLARYVILLE, NY 1966
	NO NAME	1D030005	1D	SCRANTON 1976	WEST SHOKAN, NY 1969
	SAPBUSH CREEK	1D030018	1D	SCRANTON 1976	WEST SHOKAN, NY 1969
	KRIPPLEBUSH CREEK	1D030019	1D	SCRANTON 1976	MOHONK LAKE, NY 1964
	VERKEERDER KILL	1D030044	1D	SCRANTON 1976	PINE BUSH, NY 1956
OK CHOCTAW	ROSS BRANCH	2D083096	2D	MCALESTER 1948	BOSWELL NW, OK 1969
	BULL CREEK	2D083098	2D	MCALESTER 1948	SWINK, OK 1962
MC CURTAIN	CANYON CREEK	2D083076	2D	MCALESTER 1948	BETHEL, OK 1982
	PONKA BOK CREEK	2D093005	2D	TEXARKANA 1972/MCALESTER 1948	GOODWATER, OK 1975
PITTSBURG	MODISETTE CREEK	2D083027	2D	MCALESTER 1948	TI, OK 1973
PUSHMATAHA	FRAZIER CREEK	2D083086	2D	MCALESTER 1948	SPENCERVILLE, OK 1971
PA ADAMS	NO NAME	2B042005	2BN	BALTIMORE 1969	ARENDTSVILLE, PA 1973
	BEAVER CREEK	2B042007	2BN	BALTIMORE 1969	ABBOTTSTOWN, PA 1973
BEDFORD	PINEY CREEK	2B041008	2BN	CUMBERLAND 1969	CHANEYSVILLE, PA 1977
CAMBRIA	WILLIAMS RUN	2C035027	2CN	PITTSBURGH 1969	NANTY GLO, PA 1981
	CONEMAUGH RIVER	2C035035*	2CN	PITTSBURGH 1969	BEAVERDALE, PA 1981
	LITTLE PAINT CREEK	2C035041*	2CN	PITTSBURGH 1969	GEISTOWN, PA 1981
CARBON	QUAKAKE CREEK	1D037004	1D	NEWARK 1969	WEATHERLY, PA 1976
	JEANS RUN	1D037005	1D	NEWARK 1969	WEATHERLY, PA 1976
	MAHONING CREEK	1D037016	1D	NEWARK 1969	NESQUEHONING, PA 1976
CENTRE	ELK CREEK	2B036003	2BN	HARRISBURG 1969	MADISONBURG, PA 1973
	WOLF RUN	2C029020	2CN	WILLIAMSPORT 1974	SNOW SHOE NW, PA 1971
	COLD STREAM	2C035011	2CN	PITTSBURGH 1969	SANDY RIDGE, PA 1981
	NO NAME	2C036001	2CN	HARRISBURG 1969	BEAR KNOB, PA 1971
CHESTER	BUCK RUN	3B043001	3B	WILMINGTON 1972	HONEY BROOK, PA 1982
CLEARFIELD	MILL RUN	2C028060*	2CN	WARREN 1969	KERSEY, PA 1977
	WHITNEY RUN	2C028069	2CN	WARREN 1969	PENFIELD, PA 1977
	COLDSTREAM RUN	2C028070	2CN	WARREN 1969	HUNTLEY, PA 1971
	DEER CREEK	2C028071*	2CN	WARREN 1969	LECONTES MILLS, PA 1981
	BEAR RUN	2C028075	2CN	WARREN 1969	ELLIOTT PARK, PA 1977
	MOSHANNON CREEK	2C035010*	2CN	PITTSBURGH 1969	HOUTZDALE, PA 1981
	MOSHANNON CREEK	2C035016*	2CN	PITTSBURGH 1969	HOUTZDALE, PA 1981
CLINTON	EAST BRANCH BIG RUN	2C029016	2CN	WILLIAMSPORT 1974	SNOW SHOE NE, PA 1971
COLUMBIA	LITTLE FISHING CREEK	1D029057	1D	WILLIAMSPORT 1974	LAIRDSVILLE, PA 1975
	NO NAME	1D036010	1D	HARRISBURG 1969	MOUNT CARMEL, PA 1974

*Non-interest samples/reaches--see Table 4-3 for explanation.

TABLE 4-2. Name and Location of Regular Streams, Listed by State and County (Continued)

State - county	Stream name	Reach number	Sub-region	1:250,000-scale map name	1:24,000-scale map name
PA DAUPHIN	LYNCH RUN	2B036083	2BN	HARRISBURG 1969	MIDDLETOWN, PA 1972
ELK	TROUT RUN	2C028050	2CN	WARREN 1969	WEEDVILLE, PA 1981
	DENTS RUN	2C028051*	2CN	WARREN 1969	DENTS RUN, PA 1981
	MEDIX RUN	2C028061	2CN	WARREN 1969	WEEDVILLE, PA 1981
FAYETTE	BACK CREEK	2C035049	2CN	PITTSBURGH 1969	DONEGAL, PA 1979
	DUNBAR CREEK	2C041001	2CN	CUMBERLAND 1969	FORT NECESSITY, PA 1973
	FULTON RUN	2C041002	2CN	CUMBERLAND 1969	MILLRUN, PA 1980
	ASKON HOLLOW	2C041007	2CN	CUMBERLAND 1969	BROWNFIELD, PA 1973
FRANKLIN	BURNS CREEK	2B036062	2BN	HARRISBURG 1969	DOYLESBURG, PA 1973
	CONODOGUINET CREEK	2B036076	2BN	HARRISBURG 1969	ST.THOMAS, PA 1973
	CONOCOCHEAGUE CREEK	2B042003	2BN	BALTIMORE 1969	SCOTLAND, PA 1973
INDIANA	MUDDY RUN	2C035024	2CN	PITTSBURGH 1969	INDIANA, PA 1981
JEFFERSON	MILL CREEK	2C028056	2CN	WARREN 1969	CORSICA, PA 1981
	NORTH FORK MILL CREEK	2C028057	2CN	WARREN 1969	SIGEL, PA 1977
JUNIATA	COCOLAMUS CREEK	2B036027	2BN	HARRISBURG 1969	MCCLURE, PA 1978
LACKAWANNA	SOUTH BRANCH TUNKHANNOCK CREEK	1D030048	1D	SCRANTON 1976	DALTON, PA 1969
	RATTLESNAKE CREEK	1D030074	1D	SCRANTON 1976	AVOCA, PA 1976
LANCASTER	MILL CREEK	3B036002	3B	HARRISBURG 1969	NEW HOLLAND, PA 1975
	NO NAME	3B042006	3B	BALTIMORE 1969	QUARRYVILLE, PA 1976
	PETERS CREEK	3B042010	3B	BALTIMORE 1969	WAKEFIELD, PA 1976
LEBANON	NO NAME	2B036057	2BN	HARRISBURG 1969	INDIANTOWN GAP, PA 1977
LUZERNE	SOUTH BRANCH BOWMAN CREEK	1D029043	1D	WILLIAMSPORT 1974	RED ROCK, PA 1969
	HARVEYS CREEK	1D029044	1D	WILLIAMSPORT 1974	HARVEYS LAKE, PA 1969
	KITCHEN CREEK	1D029051	1D	WILLIAMSPORT 1974	RED ROCK, PA 1969
	HUNLOCK CREEK	1D029052	1D	WILLIAMSPORT 1974	NANTICOKE, PA 1976
	NO NAME	1D036006	1D	HARRISBURG 1969	CONYNGHAM, PA 1976
LYCOMING	NORTH BRANCH ROCK RUN	1D029023	1D	WILLIAMSPORT 1974	GROVER, PA 1969
	ENGLISH RUN	1D029028	1D	WILLIAMSPORT 1974	ENGLISH CENTER, PA 1973
	EAST BRANCH WALLIS RUN	1D029031	1D	WILLIAMSPORT 1974	BARBOURS, PA 1973
MIFFLIN	NO NAME	2B036023	2BN	HARRISBURG 1969	ALLENVILLE, PA 1972
MONTOUR	W.BRANCH CHILLISQUAQUE CREEK	1D029056	1D	WILLIAMSPORT 1974	WASHINGTON, PA 1977
NORTHAMPTON	MARTINS CREEK	1D037020	1D	NEWARK 1969	BANGOR, PA-NJ 1973
	MONOCACY CREEK	1D037028*	1D	NEWARK 1969	KUNKLETOWN, PA 1970
NORTHUMBERLAND	NO NAME	1D036008	1D	HARRISBURG 1969	TREVORTON, PA 1977
PERRY	NO NAME	2B036028	2BN	HARRISBURG 1969	MILLERSBURG, PA 1969
	NO NAME	2B036051*	2BN	HARRISBURG 1969	ANDERSONBURG, PA 1977
POTTER	UPPER DRY HOLLOW	2C029002	2CN	WILLIAMSPORT 1974	CHERRY SPRINGS, PA 1971
SCHUYLKILL	STONY RUN	1D036011	1D	HARRISBURG 1969	ASHLAND, PA 1976
	NO NAME	1D036012	1D	HARRISBURG 1969	CONYNGHAM, PA 1976
	LOCUST CREEK	1D036017	1D	HARRISBURG 1969	DELANO, PA 1976
	RAUSCH CREEK	2B036031*	2BN	HARRISBURG 1969	VALLEY VIEW, PA 1977
	LOWER LITTLE SWATARA CREEK	2B036046	2BN	HARRISBURG 1969	FRIEDENSBURG, PA 1976

*Non-interest samples/reaches--see Table 4-3 for explanation.

TABLE 4-2. Name and Location of Regular Streams, Listed by State and County (Continued)

State - county	Stream name	Reach number	Sub-region	1:250,000-scale map name	1:24,000-scale map name
PA SOMERSET	CLEAR SHADE CREEK	2C035047	2CN	PITTSBURGH 1969	WINDBER, PA 1981
	NO NAME	2C041005*	2CN	CUMBERLAND 1969	BERLIN, PA 1981
SULLIVAN	HEBERLY RUN	1D029042	1D	WILLIAMSPORT 1974	ELK GROVE, PA 1969
SUSQUEHANNA	NORTH BRANCH WYALUSING CREEK	1D029004	1D	WILLIAMSPORT 1974	FRIENDSHIP, PA 1978
	TRANSUE CREEK	1D029018	1D	WILLIAMSPORT 1974	AUBURN CENTER, PA 1969
	NO NAME	1D030021	1D	SCRANTON 1976	MONTROSE EAST, PA 1978
	ROCK CREEK	1D030023	1D	SCRANTON 1976	THOMPSON, PA 1978
TIOGA	COREY CREEK	1D029010	1D	WILLIAMSPORT 1974	MANSFIELD, PA 1969
	BABB CREEK	1D029015*	1D	WILLIAMSPORT 1974	BLOSSBURG, PA 1970
	FALL BROOK	1D029016*	1D	WILLIAMSPORT 1974	BLOSSBURG, PA 1970
	DIXIE RUN	1D029020	1D	WILLIAMSPORT 1974	MORRIS, PA 1971
VENANGO	NO NAME	2C028043	2CN	WARREN 1969	KOSSUTH, PA 1972
WAYNE	SOUTH BRANCH EQUINUNK CREEK	1D030025	1D	SCRANTON 1976	LONG EDDY, NY-PA 1983
	NO NAME	1D030038	1D	SCRANTON 1976	ALDENVILLE, PA 1969
	NO NAME	1D030050	1D	SCRANTON 1976	WAYMART, PA 1969
YORK	CODORUS CREEK	2B042017	2BN	BALTIMORE 1969	SEVEN VALLEYS, PA 1973
SC ANDERSON	THREE AND TWENTY CREEK	3A089013	3A	GREENVILLE 1954	EASLEY, SC 1983
GREENVILLE	MIDDLE SALUDA RIVER	2A07835	2AS	KNOXVILLE	BREVARD (NC-SC)
	MIDDLE SALUDA RIVER	2A07835*	2AS	KNOXVILLE	BREVARD (NC-SC)
	NO NAME	3A089002	3A	GREENVILLE 1954	GREER, SC 1983
OCONEE	NO NAME	3A089024	3A	GREENVILLE 1954	FAIR PLAY, SC 1979
PICKENS	PRATERS CREEK	3A089004	3A	GREENVILLE 1954	SIX MILE, SC 1980
TN BLEDSOE	CANNON CREEK	2C077023	2X	CHATTANOOGA 1972	BROCKDELL, TN 1966
	CRYSTAL CREEK	2C077024	2X	CHATTANOOGA 1972	PIKEVILLE, TN 1977
BLOUNT	UNNAMED TRIB. OF ELLEJOY	2A07803	2AS	KNOXVILLE	WILDWOOD (TN)
	UNNAMED TRIB. OF ELLEJOY	2A07803*	2AS	KNOXVILLE	WILDWOOD (TN)
BRADLEY	CHATATA CREEK	2B077012	2X	CHATTANOOGA 1972	EAST CLEVELAND, TN 1976
	BLACKBURN BRANCH	2B077016	2X	CHATTANOOGA 1972	MCDONALD, TN 1976
CAMPBELL	LICK FORK	2C066017	2X	CORBIN 1965	PIONEER, TN 1979
	CLEAR FORK	2C067001*	2X	JOHNSON CITY 1966	EAGAN, TN-KY 1953
COCKE	GULF FORK BIG CREEK	2A07801	2AS	KNOXVILLE	LEMON GAP (NC-TN)
	GULF FORK BIG CREEK	2A07801*	2AS	KNOXVILLE	LEMON GAP (NC-TN)
	COSBY CREEK	2A07805	2AS	KNOXVILLE	LUFTEE KNOB (TN-NC)
	COSBY CREEK	2A07805*	2AS	KNOXVILLE	LUFTEE KNOB (TN-NC)
CUMBERLAND	BEAM CREEK	2C066038	2X	CORBIN 1965	CAMPBELL JUNCTION, TN 1974
	WALLACE BRANCH	2C066039	2X	CORBIN 1965	FOX CREEK, TN 1974
	MAMMYS CREEK	2C077007	2X	CHATTANOOGA 1972	OZONE, TN 1967
FENTRESS	JOHNSON MILL BRANCH	2C066026	2X	CORBIN 1965	CLARKRANGE, TN 1974
JOHNSON	CHRISTIAN BRANCH	2A068032	2X	WINSTON-SALEM 1962	MOUNTAIN CITY, TN 1978
MONROE	SUGAR COVE BRANCH OF N. RIVER	2A07701	2AS	CHATTANOOGA, TN-NC	BIG JUNCTION (TN-NC)
	SUGAR COVE BRANCH OF N. RIVER	2A07701*	2AS	CHATTANOOGA, TN-NC	BIG JUNCTION (TN-NC)

*Non-interest samples/reaches--see Table 4-3 for explanation.

TABLE 4-2. Name and Location of Regular Streams, Listed by State and County (Continued)

State - county	Stream name	Reach number	Sub-region	1:250,000-scale map name	1:24,000-scale map name
TN MORGAN	NO NAME	2C066027	2X	CORBIN 1965	TWIN BRIDGES, TN 1980
POLK	CHILDERS CREEK	2A07702	2AS	MCFARLAND, TN	MCFARLAND (TN)
	CHILDERS CREEK	2A07702*	2AS	MCFARLAND, TN	MCFARLAND (TN)
	CHILDERS CREEK	2A07702*	2AS	MCFARLAND, TN	MCFARLAND (TN)
	CHILDERS CREEK	2A07702*	2AS	MCFARLAND, TN	MCFARLAND (TN)
	HALL CREEK	2A07703	2AS	CHATTANOOGA	ISABELLA (TN-NC)
	HALL CREEK	2A07703*	2AS	CHATTANOOGA	ISABELLA (TN-NC)
SCOTT	BLACK CREEK	2C066022	2X	CORBIN 1965	HONEY CREEK, TN 1979
SEQUATCHIE	GLADY FORK	2C077022	2X	CHATTANOOGA 1972	SMARTT MOUNTAIN, TN 1974
SEVIER	LITTLE RIVER	2A07810	2AS	KNOXVILLE	CLINGMAN DOME (TN-NC)
	LITTLE RIVER	2A07810*	2AS	KNOXVILLE	CLINGMAN DOME (TN-NC)
	FALSE GAP PRONG	2A07811	2AS	KNOXVILLE	MT LE CONTE (TN-NC)
	FALSE GAP PRONG	2A07811*	2AS	KNOXVILLE	MT LE CONTE (TN-NC)
VA ALBEMARLE	NORTH FORK MOORMANS RIVER	2B047089	2BN	CHARLOTTESVILLE 1965	BROWNS COVE, VA 1972
AMHERST	LITTLE IRISH CREEK	2B058024	2BN	ROANOKE 1971	BUENA VISTA, VA 1984
AUGUSTA	NO NAME	2B047087*	2BN	CHARLOTTESVILLE 1965	STAUNTON, VA 1978
	JONES HOLLOW	2B047100	2BN	CHARLOTTESVILLE 1965	WAYNESBORO EAST, VA 1978
BATH	NO NAME	2B047093	2BN	CHARLOTTESVILLE 1965	WARM SPRINGS, VA 1968
	NO NAME	2B047093*	2BN	CHARLOTTESVILLE 1965	WARM SPRINGS, VA 1968
BEDFORD	KATES CREEK	2A058004	2X	ROANOKE 1971	GOODVIEW, VA 1967
BLAND	KIMBERLING CREEK	2B057042	2BN	BLUEFIELD 1966	ROCKY GAP, VA 1977
BUCKINGHAM	GOLD MINE BRANCH	3B058021	3B	ROANOKE 1971	DILLWYN, VA 1979
CAMPBELL	NO NAME	3A058013	3A	ROANOKE 1971	STRAIGHTSTONE, VA 1982
	NO NAME	3A058014	3A	ROANOKE 1971	LONG ISLAND, VA 1966
CAROLINE	REEDY CREEK	3B059009	3B	RICHMOND 1973	PENOLA, VA 1969
CARROLL	SNAKE CREEK	2A068022	2X	WINSTON-SALEM 1962	FANCY GAP, VA 1977
	LAUREL FORK	2A068023	2X	WINSTON-SALEM 1962	DUGSPUR, VA 1968
CHARLES CITY	BUCKLAND CREEK	3B059073	3B	RICHMOND 1973	CHARLES CITY, VA 1979
	BUCKLAND CREEK	3B059073*	3B	RICHMOND 1973	CHARLES CITY, VA 1979
CHESAPEAKE CITY	NORTHWEST RIVER	3B070043	3B	NORFOLK 1969	MOYOCK, VA-NC 1971
CRAIG	NO NAME	2B057029	2BN	BLUEFIELD 1966	WAITEVILLE, VA-WV 1965
CUMBERLAND	NO NAME	3B058023	3B	ROANOKE 1971	WHITEVILLE, VA 1981
FAIRFAX	NO NAME	2B042064	2BN	BALTIMORE 1969/WASHINGTON,D.C.	SENECA, MD-VA 1984
FLOYD	BEAVERDAM CREEK	2A068004	2X	WINSTON-SALEM 1962	ENDICOTT, VA 1967
FRANKLIN	MAGGODDEE CREEK	2A058005	2X	ROANOKE 1971	REDWOOD, VA 1982
FREDERICK	HOGUE CREEK	2B041042	2BN	CUMBERLAND 1969	HAYFIELD, VA 1972
	NO NAME	2B041049	2BN	CUMBERLAND 1969	MOUNTAIN FALLS, VA 1972
GREENE	STANARDSVILLE RUN	2B047078	2BN	CHARLOTTESVILLE 1965	STANARDSVILLE, VA 1979
HANOVER	NO NAME	3B059007	3B	RICHMOND 1973	HEWLETT, VA 1974
HENRICO	TURNER RUN	3B059034	3B	RICHMOND 1973	YELLOW TAVERN, VA 1981
HIGHLAND	STRAIGHT FORK	2B047044	2BN	CHARLOTTESVILLE 1965	SNOWY MOUNTAIN, WV-VA 1969

*Non-interest samples/reaches--see Table 4-3 for explanation.

TABLE 4-2. Name and Location of Regular Streams, Listed by State and County (Continued)

State - county	Stream name	Reach number	Sub-region	1:250,000-scale map name	1:24,000-scale map name
VA ISLE OF WIGHT	CANAL RUN	3B059105	3B	RICHMOND 1973	BACONS CASTLE, VA 1969
	CYPRESS CREEK	3B070009	3B	NORFOLK 1969	BENNS CHURCH, VA 1979
JAMES CITY	LITTLE CREEK	3B059075	3B	RICHMOND 1973	NORGE, VA 1984
KING AND QUEEN	COURTHOUSE CREEK	3B059038	3B	RICHMOND 1973	TRUHART, VA 1978
LANCASTER	NO NAME	3B059029	3B	RICHMOND 1973	LANCASTER, VA 1978
LOUDOUN	BROAD RUN	2B042063	2BN	BALTIMORE 1969/WASHINGTON,D.C.	STERLING, VA-MD 1984
MADISON	NO NAME	2B047066	2BN	CHARLOTTESVILLE 1965	MADISON, VA 1972
NELSON	MUDDY BRIDGE CREEK	2B058017	2BN	ROANOKE 1971	MASSIES MILL, VA 1984
NOTTOWAY	LEES CREEK	3B059080	3B	RICHMOND 1973	WELLVILLE, VA 1981
ORANGE	NO NAME	3B047003	3B	CHARLOTTESVILLE 1965/WASHINGTO	LAHORE, VA 1981
PATRICK	NORTH MAYO RIVER	3A068007	3A	WINSTON-SALEM 1962	SANVILLE, VA 1983
PITTSYLVANIA	TURKEYCOCK CREEK	3A069003	3A	GREENSBORO 1980	SANDY LEVEL, VA 1982
PRINCE WILLIAM	NO NAME	3B048029	3B	WASHINGTON,D.C. 1969	NOKESVILLE, VA 1983
RICHMOND	NO NAME	3B059013	3B	RICHMOND 1973	HAYNESVILLE, VA 1979
	NO NAME	3B059013*	3B	RICHMOND 1973	HAYNESVILLE, VA 1979
ROCKBRIDGE	WHITES RUN	2B058015	2BN	ROANOKE 1971	CORNWALL, VA 1977
ROCKINGHAM	BIBLE RUN	2B047036	2BN	CHARLOTTESVILLE 1965	COW KNOB, VA-WV 1967
	NO NAME	2B047050	2BN	CHARLOTTESVILLE 1965	TENTH LEGION, VA 1967
	BRIERY BRANCH	2B047061	2BN	CHARLOTTESVILLE 1965	BRIERY BRANCH, VA 1984
	NO NAME	2B047062*	2BN	CHARLOTTESVILLE 1965	BRIDGEWATER, VA 1978
	LOWER LEWIS RUN	2B047076	2BN	CHARLOTTESVILLE 1965	MCGAHEYSVILLE, VA 1972
SMYTH	GRASSES CREEK-DRY BRANCH	2A068015	2X	WINSTON-SALEM 1962	KONNAROCK, VA 1978
SPOTSYLVANIA	NO NAME	3B048082	3B	WASHINGTON,D.C. 1969	GUINEA, VA 1984
	NORTHEAST CREEK	3B048094	3B	WASHINGTON,D.C. 1969	LAKE ANNA EAST, VA 1982
SUSSEX	NO NAME	3B070004	3B	NORFOLK 1969	SUSSEX, VA 1967
	NO NAME	3B070015	3B	NORFOLK 1969	YALE, VA 1978
	NO NAME	3B070024	3B	NORFOLK 1969	ADAMS GROVE, VA 1966
WARREN	NO NAME	2B047019*	2BN	CHARLOTTESVILLE 1965	BENTONVILLE, VA 1972
WESTMORELAND	MARSHALL CREEK	3B048101	3B	WASHINGTON,D.C. 1969	MACHODOC, VA 1982
WYTHE	BIG BRANCH	2A068007	2X	WINSTON-SALEM 1962	SPEEDWELL, VA 1979
YORK	FELGATES CREEK	3B059090*	3B	RICHMOND 1973	CLAY BANK, VA 1984
WV BARBOUR	SHOALS RUN	2C040006	2CN	CLARKSBURG 1965	AUDRA, WV 1977
BERKELEY	NO NAME	2B041029	2BN	CUMBERLAND 1969	GLENGARY, WV-VA 1965
BOONE	NO NAME	2C046046	2CN	CHARLESTON 1965	SYLVESTER, WV 1976
BRAXTON	GRANNY CREEK	2C046004	2CN	CHARLESTON 1965	SUTTON, WV 1976
	GRANNY CREEK	2C046004*	2CN	CHARLESTON 1965	SUTTON, WV 1976
	NO NAME	2C046005	2CN	CHARLESTON 1965	NEWVILLE, WV 1976
	LITTLE BIRCH RIVER	2C046011	2CN	CHARLESTON 1965	LITTLE BIRCH, WV 1976
	LITTLE BIRCH RIVER	2C046011*	2CN	CHARLESTON 1965	LITTLE BIRCH, WV 1976
CLAY	LOGSHOAL RUN	2C046009	2CN	CHARLESTON 1965	IVYDALE, WV 1975
	BLUE KNOB CREEK	2C046018	2CN	CHARLESTON 1965	ELKHURST, WV 1976

*Non-interest samples/reaches--see Table 4-3 for explanation.

TABLE 4-2. Name and Location of Regular Streams, Listed by State and County (Continued)

State - county	Stream name	Reach number	Sub-region	1:250,000-scale map name	1:24,000-scale map name
WV FAYETTE	LITTLE RIGHTHAND FORK	2C046048	2CN	CHARLESTON 1965	POWELLTON, WV 1976
	HEDRICKS CREEK	2C046050	2CN	CHARLESTON 1965	WINONA, WV 1976
	BUTLER BRANCH	2C057004	2CN	BLUEFIELD 1966	DANESE, WV 1976
GRANT	NO NAME	2B047013	2BN	CHARLOTTESVILLE 1965	MOZER, WV 1981
	NO NAME	2C041043	2CN	CUMBERLAND 1969	GREENLAND GAP, WV 1981
GREENBRIER	NORTH FORK CHERRY RIVER	2C046043	2CN	CHARLESTON 1965	FORK MOUNTAIN, WV 1981
	LAUREL CREEK	2C046053	2CN	CHARLESTON 1965	RICHWOOD, WV 1981
	LITTLE CLEAR CREEK	2C046062	2CN	CHARLESTON 1965/BLUEFIELD 1966	DUO, WV 1981
	NO NAME	2C046063	2CN	CHARLESTON 1965/BLUEFIELD 1966	TROUT, WV 1981
	NO NAME	2C057011	2CN	BLUEFIELD 1966	DAWSON, WV 1971
HAMPSHIRE	NO NAME	2B041032	2BN	CUMBERLAND 1969	AUGUSTA, WV 1973
HARDY	NO NAME	2B041054	2BN	CUMBERLAND 1969	RIG, WV 1981
HARRISON	SIMPSON CREEK	2C040003*	2CN	CLARKSBURG 1965	ROSEMONT, WV 1976
KANAWHA	WALNUT CREEK	2C046016	2CN	CHARLESTON 1965	BLUE CREEK, WV 1977
	QUEEN SHOALS CREEK	2C046017	2CN	CHARLESTON 1965	CLENDENIN, WV 1976
	FOURMILE FORK	2C046047*	2CN	CHARLESTON 1965	ESKDALE, WV 1976
MINERAL	EMORY CREEK	2C041037*	2CN	CUMBERLAND 1969	MOUNT STORM, WV-MD 1981
MORGAN	NO NAME	2B041016	2BN	CUMBERLAND 1969	CHERRY RUN, MD-WV-PA 1971
	SPRIGS HOLLOW	2B041020	2BN	CUMBERLAND 1969	PAW PAW, WV-MD 1974
NICHOLAS	RICH FORK	2C046021	2CN	CHARLESTON 1965	TIOGA, WV 1981
	RICH FORK	2C046021*	2CN	CHARLESTON 1965	TIOGA, WV 1981
	FOCKLER BRANCH	2C046030	2CN	CHARLESTON 1965	SUMMERSVILLE, WV 1976
	LITTLE BEAVER CREEK	2C046031	2CN	CHARLESTON 1965	CRAIGVILLE, WV 1981
	NO NAME	2C046041	2CN	CHARLESTON 1965	NETTIE, WV 1972
	HOMINY CREEK	2C046052	2CN	CHARLESTON 1965	QUINWOOD, WV 1981
PENDLETON	DICE RUN	2B047022	2BN	CHARLOTTESVILLE 1965	ONEGA, WV 1981
	ELK RUN	2B047032	2BN	CHARLOTTESVILLE 1965	SPRUCE KNOB, WV 1970
POCAHONTAS	HATEFUL RUN	2C046034	2CN	CHARLESTON 1965	WEBSTER SPRINGS SE, WV 1982
	NO NAME	2C046055	2CN	CHARLESTON 1965	LOBELIA, WV 1973
	CLUBHOUSE RUN	2C047010	2CN	CHARLOTTESVILLE 1965	WILDELL, WV 1977
PRESTON	PATTERSON RUN	2C041014	2CN	CUMBERLAND 1969	LAKE LYNN, PA-WV 1976
	KANES CREEK	2C041027*	2CN	CUMBERLAND 1969	MASONTOWN, WV 1976
	NO NAME	2C041033*	2CN	CUMBERLAND 1969	FELLOWSVILLE, WV 1976
	BUFFALO CREEK	2C041039	2CN	CUMBERLAND 1969	FELLOWSVILLE, WV 1976
	THUNDERSTRUCK CREEK	2C041040	2CN	CUMBERLAND 1969	AURORA, WV 1976
RANDOLPH	HEWETT CREEK	2C046015	2CN	CHARLESTON 1965	VALLEY HEAD, WV 1977
	BEAVER CREEK	2C047004	2CN	CHARLOTTESVILLE 1965	BEVERLY WEST, WV 1976
	CRAWFORD RUN	2C047007	2CN	CHARLOTTESVILLE 1965	BEVERLY WEST, WV 1976
TUCKER	RIGHT FORK CLOVER RUN	2C041045	2CN	CUMBERLAND 1969	SAINT GEORGE, WV 1959
	COAL RUN	2C041051	2CN	CUMBERLAND 1969	MOZARK MOUNTAIN, WV 1968
WEBSTER	RIGHT FORK HOLLY RIVER	2C046013	2CN	CHARLESTON 1965	DIANA, WV 1982
	SANDY RUN	2C046023	2CN	CHARLESTON 1965	WEBSTER SPRINGS, WV 1982
	JOHNSON RUN	2C046033	2CN	CHARLESTON 1965	WEBSTER SPRINGS SW, WV 1982

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 4-3. Drop codes for streams and stream visits designated as non-interest

Stream identification number	Sample visit (SAMRN)	Date sampled	Reason for non-interest designation
1D029015L	1	25APR86	Acid mine drainage influence
1D029015L	2	09MAY86	Acid mine drainage influence
1D029016L	1	23APR86	Acid mine drainage influence
1D029016L	2	09MAY86	Acid mine drainage influence
1D030070L	1	24MAR86	High conductivity
1D030070L	2	08APR86	High conductivity
1D030070U	1	24MAR86	High conductivity
1D030070U	2	08APR86	High conductivity
1D037011L	1	25MAR86	High conductivity
1D037011L	2	09APR86	High conductivity
1D037011U	1	25MAR86	High conductivity
1D037011U	2	09APR86	High conductivity
1D037028L	1	25MAR86	High conductivity
1D037028L	2	09APR86	High conductivity
1D037028U	1	25MAR86	High conductivity
1D037028U	2	09APR86	High conductivity
2A07701L	4	03JUL85	Non-spring index sample
2A07701U	4	03JUL85	Non-spring index sample
2A07702L	0	18MAR85	Non-spring index sample
2A07702L	2	15APR85	Episodic influence
2A07702L	4	01JUL85	Non-spring index sample
2A07702U	4	01JUL85	Non-spring index sample
2A07703L	4	09JUL85	Non-spring index sample
2A07703U	4	09JUL85	Non-spring index sample
2A07801L	4	07JUL85	Non-spring index sample
2A07801U	4	07JUL85	Non-spring index sample
2A07802L	4	14JUL85	Non-spring index sample
2A07802U	4	14JUL85	Non-spring index sample
2A07803L	4	10JUL85	Non-spring index sample
2A07803U	4	10JUL85	Non-spring index sample
2A07805L	4	07JUL85	Non-spring index sample
2A07805U	4	07JUL85	Non-spring index sample
2A07806L	0	17MAR85	Non-spring index sample
2A07806L	4	30JUN85	Non-spring index sample
2A07806U	4	30JUN85	Non-spring index sample
2A07807L	0	19MAR85	Non-spring index sample
2A07807L	4	02JUL85	Non-spring index sample
2A07807U	4	02JUL85	Non-spring index sample
2A07808L	4	10JUL85	Non-spring index sample
2A07808U	4	10JUL85	Non-spring index sample
2A07810L	4	10JUL85	Non-spring index sample
2A07810U	4	10JUL85	Non-spring index sample

Table 4-3. Drop codes for streams and stream visits designated as non-interest (continued)

Stream identification number	Sample visit (SAMRN)	Date sampled	Reason for non-interest designation
2A07811L	4	16JUL85	Non-spring index sample
2A07811U	4	16JUL85	Non-spring index sample
2A07812L	4	08JUL85	Non-spring index sample
2A07812U	4	08JUL85	Non-spring index sample
2A07813L	0	17MAR85	Non-spring index sample
2A07813L	4	30JUN85	Non-spring index sample
2A07813U	3	28APR85	Episodic influence
2A07813U	4	30JUN85	Non-spring index sample
2A07814L	0	19MAR85	Non-spring index sample
2A07814L	4	02JUL85	Non-spring index sample
2A07814U	4	02JUL85	Non-spring index sample
2A07815L	4	16JUL85	Non-spring index sample
2A07815U	4	16JUL85	Non-spring index sample
2A07816L	4	08JUL85	Non-spring index sample
2A07816U	4	08JUL85	Non-spring index sample
2A07817L	4	03JUL85	Non-spring index sample
2A07817U	4	03JUL85	Non-spring index sample
2A07818L	4	16JUL85	Non-spring index sample
2A07818U	4	16JUL85	Non-spring index sample
2A07819L	3	17APR85	Episodic influence
2A07819L	4	10JUL85	Non-spring index sample
2A07819U	4	10JUL85	Non-spring index sample
2A07820L	0	17MAR85	Non-spring index sample
2A07820L	4	30JUN85	Non-spring index sample
2A07820U	4	30JUN85	Non-spring index sample
2A07821L	4	04JUL85	Non-spring index sample
2A07821U	4	04JUL85	Non-spring index sample
2A07822L	4	16JUL85	Non-spring index sample
2A07822U	4	16JUL85	Non-spring index sample
2A07823L	4	15JUL85	Non-spring index sample
2A07823U	4	15JUL85	Non-spring index sample
2A07824L	4	15JUL85	Non-spring index sample
2A07824U	4	15JUL85	Non-spring index sample
2A07825L	0	17MAR85	Non-spring index sample
2A07825L	4	30JUN85	Non-spring index sample
2A07825U	4	30JUN85	Non-spring index sample
2A07826L	4	04JUL85	Non-spring index sample
2A07826U	4	04JUL85	Non-spring index sample
2A07827L	4	03JUL85	Non-spring index sample
2A07827U	4	03JUL85	Non-spring index sample
2A07828L	0	17MAR85	Non-spring index sample

Table 4-3. Drop codes for streams and stream visits designated as non-interest (continued)

Stream identification number	Sample visit (SAMRN)	Date sampled	Reason for non-interest designation
2A07828L	4	30JUN85	Non-spring index sample
2A07828U	4	30JUN85	Non-spring index sample
2A07829L	4	07JUL85	Non-spring index sample
2A07829U	4	07JUL85	Non-spring index sample
2A07830L	0	19MAR85	Non-spring index sample
2A07830L	4	02JUL85	Non-spring index sample
2A07830U	4	02JUL85	Non-spring index sample
2A07831L	0	19MAR85	Non-spring index sample
2A07831L	2	16APR85	Episodic influence
2A07831L	4	02JUL85	Non-spring index sample
2A07831U	4	02JUL85	Non-spring index sample
2A07832L	4	14JUL85	Non-spring index sample
2A07832U	4	14JUL85	Non-spring index sample
2A07833L	4	14JUL85	Non-spring index sample
2A07833U	4	14JUL85	Non-spring index sample
2A07834L	0	19MAR85	Non-spring index sample
2A07834L	4	02JUL85	Non-spring index sample
2A07834U	4	02JUL85	Non-spring index sample
2A07835L	4	14JUL85	Non-spring index sample
2A07835U	4	14JUL85	Non-spring index sample
2A07881L	4	14JUL85	Non-spring index sample
2A07881U	4	14JUL85	Non-spring index sample
2A07882L	4	09JUL85	Non-spring index sample
2A07882U	4	09JUL85	Non-spring index sample
2A08801L	0	18MAR85	Non-spring index sample
2A08801L	4	01JUL85	Non-spring index sample
2A08801U	4	01JUL85	Non-spring index sample
2A08802L	4	09JUL85	Non-spring index sample
2A08802U	4	09JUL85	Non-spring index sample
2A08803L	4	04JUL85	Non-spring index sample
2A08803U	4	04JUL85	Non-spring index sample
2A08804L	4	08JUL85	Non-spring index sample
2A08804U	4	08JUL85	Non-spring index sample
2A08805L	4	04JUL85	Non-spring index sample
2A08805U	4	04JUL85	Non-spring index sample
2A08806L	4	04JUL85	Non-spring index sample
2A08806U	4	04JUL85	Non-spring index sample
2A08808L	4	11JUL85	Non-spring index sample
2A08808U	4	11JUL85	Non-spring index sample
2A08809L	0	18MAR85	Non-spring index sample
2A08809L	2	15APR85	Episodic influence

Table 4-3. Drop codes for streams and stream visits designated as non-interest (continued)

Stream identification number	Sample visit (SAMRN)	Date sampled	Reason for non-interest designation
2A08809L	4	01JUL85	Non-spring index sample
2A08809U	4	01JUL85	Non-spring index sample
2A08810L	4	15JUL85	Non-spring index sample
2A08810U	4	15JUL85	Non-spring index sample
2A08811L	0	18MAR85	Non-spring index sample
2A08811L	4	01JUL85	Non-spring index sample
2A08811U	4	01JUL85	Non-spring index sample
2A08901L	4	07JUL85	Non-spring index sample
2A08901U	4	07JUL85	Non-spring index sample
2A08902L	0	19MAR85	Non-spring index sample
2A08902L	2	16APR85	Episodic influence
2A08902L	4	15JUL85	Non-spring index sample
2A08902U	4	15JUL85	Non-spring index sample
2A08903L	4	04JUL85	Non-spring index sample
2A08903U	4	04JUL85	Non-spring index sample
2A08904L	0	18MAR85	Non-spring index sample
2A08904L	2	15APR85	Episodic influence
2A08904L	4	01JUL85	Non-spring index sample
2A08904U	4	01JUL85	Non-spring index sample
2A08905L	4	11JUL85	Non-spring index sample
2A08905U	4	11JUL85	Non-spring index sample
2A08906L	0	18MAR85	Non-spring index sample
2A08906L	2	15APR85	Episodic influence
2A08906L	4	01JUL85	Non-spring index sample
2A08906U	4	01JUL85	Non-spring index sample
2B036031L	1	26MAR86	High conductivity
2B036031L	2	10APR86	High conductivity
2B036031U	1	26MAR86	Acid mine drainage influence
2B036031U	2	10APR86	Acid mine drainage influence
2B036051L	1	27MAR86	High conductivity
2B036051L	2	14APR86	High conductivity
2B036051U	1	27MAR86	High conductivity
2B036051U	2	14APR86	High conductivity
2B042044L	1	27MAR86	Intermittent flow
2B042044U	1	27MAR86	Intermittent flow
2B042052U	1	25MAR86	High conductivity
2B042052U	2	10APR86	High conductivity
2B047019L	1	27MAR86	Intermittent flow
2B047019U	1	27MAR86	Intermittent flow
2B047062L	1	28MAR86	High conductivity
2B047062L	2	11APR86	High conductivity

Table 4-3. Drop codes for streams and stream visits designated as non-interest (continued)

Stream identification number	Sample visit (SAMRN)	Date sampled	Reason for non-interest designation
2B047062U	1	28MAR86	High conductivity
2B047062U	2	11APR86	High conductivity
2B047066U	1	24MAR86	Access denied
2B047087L	1	01APR86	High conductivity
2B047087L	2	17APR86	High conductivity
2B047087U	1	01APR86	High conductivity
2B047087U	2	17APR86	High conductivity
2B047093L	2	06MAY86	Access denied
2B047093U	1	22APR86	Intermittent flow
2B057042U	1	22APR86	High conductivity
2B057042U	2	05MAY86	High conductivity
2B088002L	1	23APR86	Intermittent flow
2B088002U	1	23APR86	Intermittent flow
2B088007L	1	23APR86	Intermittent flow
2B088007U	1	23APR86	Intermittent flow
2B088013L	1	21APR86	Intermittent flow
2B088013U	1	21APR86	Intermittent flow
2B088021L	1	21APR86	Random miss (site inaccessible)
2B088021U	1	21APR86	Random miss (site inaccessible)
2B088033L	1	18APR86	Intermittent flow
2B088033U	1	18APR86	Intermittent flow
2B088041L	1	16APR86	Intermittent flow
2B088041U	1	16APR86	Intermittent flow
2B088049L	1	15APR86	Intermittent flow
2B088049U	1	15APR86	Intermittent flow
2B088065L	1	16APR86	Intermittent flow
2B088065U	1	16APR86	Intermittent flow
2C028051L	1	18APR86	Acid mine drainage influence
2C028051L	2	06MAY86	Acid mine drainage influence
2C028060L	1	18APR86	Acid mine drainage influence
2C028060L	2	07MAY86	Acid mine drainage influence
2C028060U	1	18APR86	Acid mine drainage influence
2C028060U	2	07MAY86	Acid mine drainage influence
2C028071L	1	17APR86	Acid mine drainage influence
2C028071L	2	06MAY86	Acid mine drainage influence
2C028071U	1	17APR86	Acid mine drainage influence
2C028071U	2	06MAY86	Acid mine drainage influence
2C035010L	1	22APR86	Acid mine drainage influence
2C035010L	2	05MAY86	Acid mine drainage influence
2C035010U	1	22APR86	Acid mine drainage influence
2C035010U	2	05MAY86	Acid mine drainage influence

Table 4-3. Drop codes for streams and stream visits designated as non-interest (continued)

Stream identification number	Sample visit (SAMRN)	Date sampled	Reason for non-interest designation
2C035016L	1	22APR86	Acid mine drainage influence
2C035016L	2	05MAY86	Acid mine drainage influence
2C035035L	1	14APR86	Acid mine drainage influence
2C035035L	2	04MAY86	Acid mine drainage influence
2C035041L	1	14APR86	Acid mine drainage influence
2C035041L	2	04MAY86	Acid mine drainage influence
2C040003L	1	25APR86	Acid mine drainage influence
2C040003U	1	25APR86	Acid mine drainage influence
2C041005L	1	01MAY86	Acid mine drainage influence
2C041005U	1	01MAY86	Acid mine drainage influence
2C041027L	1	01MAY86	Acid mine drainage influence
2C041033L	1	01MAY86	Acid mine drainage influence
2C041033L	2	13MAY86	Acid mine drainage influence
2C041037L	1	30APR86	Acid mine drainage influence
2C041037L	2	13MAY86	Acid mine drainage influence
2C041037U	1	30APR86	Acid mine drainage influence
2C041037U	2	13MAY86	Acid mine drainage influence
2C046004L	1	22APR86	Episodic influence
2C046004U	1	22APR86	Episodic influence
2C046011L	1	22APR86	Episodic influence
2C046011U	1	22APR86	Episodic influence
2C046021L	1	22APR86	Episodic influence
2C046023U	1	23APR86	Episodic influence
2C046047L	1	18APR86	Acid mine drainage influence
2C046047U	1	18APR86	Acid mine drainage influence
2C066022U	1	30APR86	Acid mine drainage influence
2C067001L	1	27APR86	High conductivity
2C067001U	1	27APR86	High conductivity
2C088002L	1	25APR86	Random miss (site inaccessible)
2C088002U	1	25APR86	Random miss (site inaccessible)
2D073057L	1	15APR86	High conductivity
2D073092L	1	28MAR86	Intermittent flow
2D073092U	1	28MAR86	Intermittent flow
3A086015L	1	17MAR86	No defined stream channel
3A086015U	1	17MAR86	No defined stream channel
3A088006L	1	10APR86	Intermittent flow
3A088006U	1	10APR86	Intermittent flow
3A099062L	1	31MAR86	Intrmittent flow
3A099062U	1	31MAR86	Intermittent flow
3B043055U	1	24MAR86	High conductivity
3B043055U	2	02APR86	High conductivity

Table 4-3. Drop codes for streams and stream visits designated as non-interest (continued)

Stream identification number	Sample visit (SAMRN)	Date sampled	Reason for non-interest designation
3B043061L	1	17MAR86	Tidal influence
3B043061U	1	18MAR86	Tidal influence
3B043077L	1	17MAR86	Tidal influence
3B043077U	1	18MAR86	Tidal influence
3B048065L	1	16MAR86	Tidal influence
3B048065U	1	16MAR86	Tidal inflluence
3B059013L	1	21MAR86	Tidal influence
3B059073L	1	19MAR86	Episodic influence
3B059073U	1	19MAR86	Episodic influence
3B059090L	1	19MAR86	Tidal influence
3B059090U	1	19MAR86	Tidal influence
3C123010L	1	07MAY86	Random miss (site inaccessible)
3C123010U	1	07MAY86	Random miss (site inaccessible)
3C124002U	1	05MAY86	Intermittent flow
3C124003U	1	06MAY86	Intermittent flow
3C124006L	1	01MAY86	Intermittent flow
3C124006U	1	01MAY86	Intermittent flow
3C124010L	1	05MAY86	Intermittent flow
3C124012U	1	29APR86	Intermittent flow
3C124015L	1	01MAY86	Intermittent flow
3C124015U	1	01MAY86	Intermittent flow
3C124018L	1	05MAY86	Intermittent flow
3C124018U	1	05MAY86	Intermittent flow
3C124034U	1	30APR86	Intermittent flow
3C124045U	1	01MAY86	Intermittent flow
3C124047U	1	29APR86	Intermittent flow
3C124049L	1	28APR86	Intermittent flow
3C124050L	1	28APR86	Intermittent flow
3C124050U	1	28APR86	Intermittent flow
3C124052U	1	30APR86	Intermittent flow
3C125002L	1	23APR86	No defined stream channel
3C125002U	1	23APR86	No defined stream channel
3C132006L	1	27APR86	Intermittent flow
3C132009L	1	25APR86	Intermittent flow
3C132009U	1	25APR86	Intermittent flow
3C133001L	1	23APR86	Random miss (site inaccessible)
3C133001U	1	23APR86	Random miss (site inaccessible)
3C133003L	1	23APR86	Intermittent flow
3C133003U	1	23APR86	Intermittent flow
3C133011L	1	27APR86	No defined stream channel
3C133011U	1	27APR86	No defined stream channel

Table 4-3. Drop codes for streams and stream visits designated as non-interest (continued)

Stream identification number	Sample visit (SAMRN)	Date sampled	Reason for non-interest designation
3C133024L	1	22APR86	Intermittent flow
3C133029L	1	22APR86	No defined stream channel
3C133029U	1	22APR86	No defined stream channel
3C136032L	1	21APR86	Intermittent flow
3C136032U	1	21APR86	Intermittent flow

Table 4-4. Names and locations of special interest sites sorted by identification number

Reach number	County	State	Stream name	Latitude	Longitude
1D030910L	ULSTER	NY	BISCUIT BROOK	41°59′48"N	74°29′56"W
1D030911L	ULSTER	NY	HIGH FALLS BROOK	41°58′33"N	74°31′18"W
1D030912L	ULSTER	NY	EAST BRANCH NEVERSINK RIVER	41°57′54"N	74°27′00"W
1D030924L	SUSSEX	NJ	VANCAMPENS BROOK	41°04′23"N	74°57′50"W
1D030925L	PASSAIC	NJ	GREEN BROOK	41°09′28"N	74°22′13"W
1D030926L	SUSSEX	NJ	TILLMAN BROOK	41°09′26"N	74°51′35"W
2A07891L	COCKE	TN	COSBY CREEK	35°45′39"N	83°12′36"W
2A07892L	SWAIN	NC	TWENTYMILE CREEK	35°28′15"N	83°52′10"W
2A07893L	MACON	NC	JARRETT CREEK	35°09′44"N	83°38′27"W
2A07894L	MACON	NC	SHOPE FORK/GAUGE 8	35°03′45"N	83°25′43"W
2A07895L	JACKSON	NC	MOSES CREEK	35°19′19"N	83°06′57"W
2A07895U	JACKSON	NC	MOSES CREEK	35°20′25"N	83°05′43"W
2A07896L	MACON	NC	PINNACLE BRANCH	35°03′25"N	83°27′18"W
2A08891L	FANNIN	GA	CHESTER CREEK	34°39′45"N	84°11′03"W
2A08891U	FANNIN	GA	CHESTER CREEK	34°38′25"N	84°10′08"W
2C035913L	SOMERSET	PA	NORTH FORK BENS CREEK	40°15′57"N	79°01′02"W
2B036903L	CENTRE	PA	DETWEILER RUN	40°41′44"N	77°45′31"W
2B036904L	HUNTINGDON	PA	LEADING RIDGE 1	40°40′02"N	77°56′04"W
2B036905L	HUNTINGDON	PA	LAUREL RUN	40°41′38"N	77°51′26"W
2B042922L	FREDERICK	MD	HUNTING CREEK	39°37′46"N	77°26′48"W
2B047916L	ROCKINGHAM	VA	WHITE OAK RUN	38°14′57"N	78°44′52"W
2B047917L	ROCKINGHAM	VA	DEEP RUN	38°16′44"N	78°45′49"W
2B047918L	PAGE	VA	NORTH FORK DRY RUN	38°38′00"N	78°21′28"W
2B047919L	SHENANDOAH	VA	MILL RUN	38°52′14"N	78°21′34"W
2B047920L	MADISON	VA	OLD RAG RUN	38°33′58"N	78°19′04"W
2B047929L	SHENANDOAH	VA	MILL RUN TRIBUTARY	38°52′13"N	78°21′36"W
2C035915L	SOMERSET	PA	NORTH BRANCH QUEMAHONING CREEK	40°06′36"N	79°08′39"W
2C041901L	TUCKER	WV	FERROW CONTROL	39°03′13"N	79°41′11"W
2C041902L	TUCKER	WV	ELK LICK RUN	39°04′42"N	79°38′58"W
2C041914L	SOMERSET	PA	COLE RUN	39°58′00"N	79°17′23"W
2C077923L	BLEDSOE	TN	CAMP BRANCH	35°39′30"N	85°18′44"W
2D083927L	POLK	AR	NORTH FORK SALINE CREEK	34°22′35"N	94°01′32"W
2D083928L	POLK	AR	EAST FORK SALINE CREEK	34°21′52"N	94°01′39"W
3B042907L	ANNE ARUNDEL	MD	MAGOTHY RIVER	39°06′53"N	76°33′01"W
3B042908L	ANNE ARUNDEL	MD	BACON RIDGE	39°01′36"N	76°36′52"W
3B042921L	LANCASTER	PA	PEQUEA CREEK	39°53′27"N	76°18′12"W
3B043909L	BURLINGTON	NJ	MCDONALDS BRANCH	39°53′04"N	74°30′20"W
3B048906L	ANNE ARUNDEL	MD	LYONS CREEK	38°45′52"N	76°39′13"W

Table 4-5. Names and locations of special interest sites sorted by state and county

ARKANSAS:				
POLK	NORTH FORK SALINE CREEK	2D083927L	MCALESTER/LITTLE ROCK	UMPIRE 15 MIN.,AR 1959
	EAST FORK SALINE CREEK	2D083928L	MCALESTER/LITTLE ROCK	UMPIRE 15 MIN.,AR 1969
GEORGIA:				
FANNIN	CHESTER CREEK	2A08891L	GREENVILLE	NOONTOOTLA (GA)
	CHESTER CREEK	2A08891U	GREENVILLE, SC	NOONTOOTLA (GA)
MARYLAND:				
ANNE ARUNDEL	MAGOTHY RIVER	3B042907L	BALTIMORE	ROUND BAY,MD 1979
	BACON RIDGE	3B042908L	BALTIMORE	ROUND BAY,MD 1979
	LYONS CREEK	3B048906L	WASHINGTON	DEALE,MD 1979
FREDERICK 1971	HUNTING CREEK	2B042922L	BALTIMORE	BLUE RIDGE SUMMIT,MD-PA
NORTH CAROLINA:				
JACKSON	MOSES CREEK	2A07895L	KNOXVILLE, TN	TUCKASEEGEE (NC)
	MOSES CREEK	2A07895U	KNOXVILLE, TN	SYLVA SOUTH (NC)
MACON	JARRETT CREEK	2A07893L	KNOXVILLE, TN-NC	TOPTON (NC)
	SHOPE FORK/GAUGE 8	2A07894L	KNOXVILLE	PRENTISS (NC)
	PINNACLE BRANCH	2A07896L	KNOXVILLE	PRENTISS (NC)
SWAIN	TWENTYMILE CREEK	2A07892L	KNOXVILLE	FONTANA DAM (NC)
NEW JERSY:				
BURLINGTON	MCDONALDS BRANCH	3B043909L	WILMINGTON	BROWNS MILLS,NJ 1971
PASSAIC	GREEN BROOK	1D030925L	SCRANTON	GREENWOOD LAKE,NY-NJ 1954
SUSSEX	VANCAMPENS BROOK	1D030924L	SCRANTON	BUSHKILL,PA-NJ 1983
	TILLMAN BROOK	1D030926L	SCRANTON	CULVERS GAP,NJ-PA 1971
NEW YORK:				
ULSTER	BISCUIT BROOK	1D030910L	SCRANTON	SHANDAKEN,NY 1960
	HIGH FALLS BROOK	1D030911L	SCRANTON	CLARYVILLE,NY 1966
	EAST BRANCH NEVERSINK RIVER	1D030912L	SCRANTON	PEEKAMOOSE MTN.,NY 1969
PENNSYLVANIA:				
CENTRE	DETWEILER RUN	2B036903L	HARRISBURG	MCALEVYS FORT,PA 1972
HUNTINGDON	LEADING RIDGE 1	2B036904L	HARRISBURG	PINE GROVE MILLS,PA 1972
	LAUREL RUN	2B036905L	HARRISBURG	MCALEVYS FORT,PA 1972
LANCASTER	PEQUEA CREEK	3B042921L	BALTIMORE	CONESTOGA,PA 1976
SOMERSET	NORTH FORK BENS CREEK	2C035913L	PITTSBURGH	RACHELWOOD,PA 1973
	NORTH BRANCH QUEMAHONING CREEK	2C035915L	PITTSBURGH	BAKERSVILLE,PA 1973
	COLE RUN	2C041914L	CUMBERLAND	KINGWOOD,PA 1973
TENNESSEE:				
BLEDSOE	CAMP BRANCH	2C077923L	CHATTANOOGA	SAMPSON, TN 1974
COCKE	COSBY CREEK	2A07891L	KNOXVILLE, TN	LUFTEE KNOB (NC-TN)

Table 4-5. Names and locations of special interest sites sorted by state and county (continued)

VIRGINIA:				
MADISON	OLD RAG RUN	2B047920L	CHARLOTTESVILLE	OLD RAG MTN.,VA 1972
PAGE	NORTH FORK DRY RUN	2B047918L	CHARLOTTESVILLE	THORTON GAP,VA 1965
ROCKINGHAM	WHITE OAK RUN	2B047916L	CHARLOTTESVILLE	BROWNS COVE,VA 1972
	DEEP RUN	2B047917L	CHARLOTTESVILLE	GROTTOES,VA 1978
SHENANDOAH	MILL RUN	2B047919L	CHARLOTTESVILLE	STRASBURG, VA 1986
	MILL RUN TRIBUTARY	2B047929L	CHARLOTTESVILLE	TOMS BROOK,VA 1978
WEST VIRGINIA:				
TUCKER	FERROW CONTROL	2C041901L	CUMBERLAND	PARSONS,WV 1968
	ELK LICK RUN	2C041902L	CUMBERLAND	PARSONS,WV 1968

SECTION 5
POPULATION ESTIMATES OF SELECTED PHYSICAL AND CHEMICAL VARIABLES

The major product of the NSS-I is the set of cumulative distribution functions that describe physical and chemical attributes of various populations of stream reaches. These population distribution functions can be produced for different types of stream resources, such as the number, length, and combined watershed area of stream reaches. They are designed to satisfy the major objective of the survey: to describe the percentage, extent (e.g., number, length, and drainage area), and geographic location of streams that either are presently acidic or that could become acidic in the near future. The population distributions presented in this section are derived from upstream and downstream chemical index values of samples in the refined target population. When more than one sample was taken at a site, index values are the mean of multiple samples (Section 2.5, Volume I). The population of interest consists of those streams that were not affected by complicating factors that could mask the potential influence of acidic deposition, such as acid mine drainage, tidal influences, or insufficient stream flow. Full details of the statistical design of the survey can be found in Volume I, Section 2.4, and in Overton (1987). A brief discussion of the survey design and its implications for statistical analyses is presented here. Not all the variables sampled or calculated during the survey are presented. The selected attributes that are described in the distribution functions presented are listed in Table 5-1.

5.1 APPLICATION OF THE SURVEY DESIGN

The use of NSS-I data to make population estimates must be consistent with the survey sampling design (see also Volume I, Section 2; Overton, 1986, 1987; Sale, 1988). The basic NSS-I sampling unit is the stream reach, delimited by upper and lower nodes (the upstream end or a confluence of blue-line streams on 1:250,000-scale USGS maps). At each reach, water chemistry samples were taken at both lower and upper nodes, and one or more visits were made to each node. In the Mid-Atlantic Region (subregions 1D, 2Cn, 2Bn, and 3B) each node of each reach was visited on two occasions. Only one visit was made to reaches in the Southeast Region (subregions 2D, 2X, 3A, and 3C). In the Southern Blue Ridge subregion (2As), all nodes were sampled once in the summer, but during the spring, lower nodes were sampled as many as four times and upper nodes were sampled from zero to two times (Messer et al., 1986, 1988). In the final NSS-I data set, each sample is identified by a unique combination of three variables: (1) the reach identification number, RCH_ID, (2) the visit or sample replicate number, SAMRN, and (3) the sampling node, NODE (upper=U or lower=L). The stream identification number, STRM_ID, consists of RCH_ID and NODE concatenated together.

5.1.1 Sample Weights

The NSS-I sampling locations were identified from the population of stream reaches by means of a systematic random sampling procedure. Because sample reaches were not selected with equal probability, each reach has a sample weight that indicates how many other reaches in the population it represents. This weight is inversely proportional to the reach's probability of being selected in the sample. It represents the product of sample weights for two stages of sampling. In the first stage, reaches were selected in association with an 8-mile square grid of dots overlaying a 1:250,000-scale USGS map. The probability of including a reach this sample is directly proportional to its direct watershed area, a_1. Thus the first stage weight is equal to

Table 5-1. Chemical and physical variables for which descriptive statistics and distribution functions are presented

Variable name in data base	Description and units of measurement
A_WS	Watershed area above the sampling node (km^2)
ALDS16	Total monomeric aluminum (μM)
ALEX16	Extractable aluminum (μM)
ALKA11	Acid neutralizing capacity (μeq L^{-1})
ALOR16	Nonexchangeable monomeric (organic) aluminum (μM)
ALTL16	Total aluminum (μM)
CA16	Calcium (μeq L^{-1})
CL16	Chloride (μeq L^{-1})
COLVAL	Color value (PCU)
COND11	Specific Conductance (μS cm^{-1})
DICI11	Initial dissolved inorganic carbon (mg L^{-1})
DOC11	Dissolved organic carbon (mg L^{-1})
ELEV	Site elevation (m)
FE16	Iron (μM)
FTL16	Fluoride (μeq L^{-1})
GRADE	Stream gradient (%)
HCO316	Bicarbonate (μeq L^{-1})
K16	Potassium (μeq L^{-1})
MG16	Magnesium (μeq L^{-1})
MN16	Manganese (μM)
NA16	Sodium (μeq L^{-1})
NH416	Ammonium (μeq L^{-1})
NO316	Nitrate (μeq L^{-1})
PHSTVL	Closed headspace, processing lab pH
PTD16	Total dissolved phosphorus (μM)
SIO216	Dissolved silica (μM)
SO416	Sulfate (μeq L^{-1})
STRMDP	Average stream depth (m)
STRMWD	Stream width (m)
SOBC	Sum of base cations (μeq L^{-1})

the area per grid point (64 mi^2) divided by a_1. If a_1 is less than 0.2 mi^2, the area per grid point is divided by 0.2. Direct watershed area is thus "scored" to 0.2 to reduce the variance of the estimator (Overton, 1987). The second stage of selection has a more complicated weight calculation (Volume I, Section 2.4.5), and the result is found in the variable WC in the data base. The final sample weight for each reach, W, is calculated as follows:

$$W = WC \times 64/a_1$$
$$(\text{if } a_1 < 0.2 \text{ mi}^2,\ a_1 \text{ is scored to } 0.2 \text{ mi}^2)$$

Reaches that were located in areas classified as low ANC areas based on geology (Omernik and Kinney, 1985; Omernik and Powers, 1983) are separated into a second stratum (STRATUM=2) and explicitly overrepresented in the NSS-I sample. The final sample weight for this second stratum reflects the true frequency of these low ANC reaches in the target population (see Volume I, subsection 2.4.5).

Whenever statistical descriptions of NSS-I stream populations are made, the sample weights must be used. In general, weights should be used in calculating frequency distributions and other univariate analyses of chemistry data, including calculations of means. However, NSS-I data users are discouraged from using the weights in bivariate or multivariate explorations of the data.

5.1.2 Sample Stratification.

NSS-I reaches from different strata are assumed to be independent, while reaches within a stratum are not. In the survey design, each subregion is a different stratum, with the Mid-Atlantic subregions further stratified prior to site selection into a routine stratum and a low ANC stratum (expected to have ANC < 50 $\mu eq\ L^{-1}$ based on Omernik and Powers, 1983). In the data base, two variables are required to identify samples from the same strata: the subregion of the reach, SUB_ID, and the stratum variable, STRATUM. It is possible to construct a variance estimate for the sample from the joint inclusion probabilities, W_{ij} (see pages 8-10 in Overton, 1987; subsection 5.1.5). If reaches i and j are from different strata, then their joint inclusion probability is calculated as $W_{ij} = W_i W_j$. If they are in the same stratum, then

$$W_{ij} = [(W_i + W_j)/2 - W_i W_j]/(n-1)$$

where n is the effective sample size (ESS). The concept and application of Stage I and Stage II ESS are detailed in Sale (1988) and Overton (1987).

5.1.3 Subpopulations

The population of stream reaches targeted by the NSS-I is described in Volume I, Section 2.4, and elsewhere (Messer et al., 1986, 1988). Basically, the NSS-I samples represent the population of blue-line streams shown on USGS 1:250,000-scale maps that have watershed areas less than 155 km^2 (60 mi^2). The subset of samples in the NSS-I population of interest is not excessively influenced by point-sources of disturbance such as acid-mine drainage, nor were observations during precipitation episodes included. In the data base, the drop code variable, DRPCDE, is set to values ≥2 for noninterest samples (e.g., for samples influenced by acid mine drainage). It is important to recognize that one observation at a particular reach may be designated noninterest (e.g., because of stream episode influence), whereas a different sample, or

SAMRN value, may be used for calculating index values for the population of interest. When only one node of a particular reach is excluded from the population of interest, the alternate node remains in the target population but with a DRPCDE = 1. The results presented in Section 5.2 include all samples with DRPCDE $\leq$ 1. A sample subset with DRPCDE < 1 designates a subpopulation in which both nodes are in the target population. Data from special interest sites are also excluded from analyses of the target populations.

Using the NSS-I statistical procedures, it is possible to describe any meaningful subpopulation of target stream reaches that can be distinguished within the sample (Overton, 1987). A few examples are upper and lower node subpopulations, headwater and higher order stream subpopulations, and populations within geographic areas based on political or ecological boundaries.

5.1.4 Calculation of Distribution Functions

The cumulative distribution functions (CDF) and other distribution functions weighted by stream length and by watershed area are generated as the primary survey output. The CDF format is preferable over histograms for several reasons. First, observations of water chemistry do not tend to follow normal or even symmetrical distributions, so that the mean concentrations cannot be easily compared. Second, quantiles (e.g., median) allow statements to be made about the proportion of resources with concentrations above or below some threshold value. These quantiles cannot be observed on a histogram. Finally, construction of a histogram requires the selection of partition widths, often a difficult and arbitrary task when dealing with strongly tailed distributions. In the CDF, there is no need for artificial partitions of the sample data values. The data are presented without any modifications or reduction in detail.

After sample weights have been calculated and the drop list applied (excluding observations with a DRPCDE $\leq$ 1), the first step in calculating a CDF is to subset the data into a subpopulation of interest. The second step is to ensure that there is one and only one observation (index value) per reach, since the weights indicate the number of reaches represented. A single index value for each reach can be derived by averaging observations from multiple visits or by analyzing reach visits (SAMRN = 1 and 2) as separate populations of interest (e.g., in the Mid-Atlantic region). Similarly, data from the upper and lower nodes can be averaged or analyzed separately (NODE = L and U). Population distributions can be calculated for separate visits or nodes using the same population expansion procedure (Overton, 1986, 1987; Sale, 1988).

The distribution functions can be calculated for any resource size attribute of interest to the investigator. In this volume, numbers of reaches, areas of total watershed, and lengths of reach are all presented. For example, if length of stream is the resource size attribute of interest, a determination can be made of the combined length of stream ($\hat{L}$) in Pennsylvania having pH less than 5.0 at reach lower nodes. This is calculated as the sum of the product of sample weight and reach length over all reaches that are in Pennsylvania and that have a measured pH $\leq$ 5.0 at their lower nodes. This produces one point on the length distribution function at pH = 5.0. The complete distribution function ($\hat{L}(x)$) is constructed by sorting samples in ascending order of pH. For each pH value occurring in the sample, the cumulative sum of the sample weight·length products over samples with pH $\leq$ x constitutes $\hat{L}(x)$, interpreted as the combined reach length in the population with pH less than or equal to the current value of x. Note that for multiple samples having the same pH value, the last $\hat{L}(x)$ of the group is the correct estimate for that pH.

5.1.5 Calculation of Variance and Confidence Bounds

The calculation of a variance estimate for any population estimate $\hat{T}(x)$ is described in Volume I, Section 2.4. The formula for the variance estimate is

$$V(\hat{T}(x)) = \sum_{i} y_i^2 W_i(W_i-1) + \sum_{i} \sum_{j \neq i} y_i y_j (W_i W_j - W_{ij}).$$

where y is the reach attribute of interest, W_{ij} is the joint inclusion probability (section 5.1.2), and W is the reach weighting factor. The variance in the population estimates for the different reach attributes (reach numbers, length, watershed area, etc.) is calculated by assigning different definitions to y (y=1 for number estimates, $y=a_1+a_2$ for total watershed area estimates, and y=length for length estimates).

The first term in the variance calculation can be calculated at the same time that $\hat{T}(x)$ is calculated for each unique value in the sample. The second term requires pairwise comparisons of each sample with all of the other samples in the subpopulation that are in the same stratum. Samples in different strata are independent of the current sample reach (i.e., $W_{ij}=W_iW_j$), and in these cases the second term of the variance equation equals zero. The standard error of the estimate is calculated as the square root of the variance. Upper one-sided 95% confidence bounds were then calculated by multiplying the standard error by 1.645 and adding that value to the population estimate ($\hat{T}(x)$).

5.2 POPULATION DISTRIBUTION FUNCTIONS

The figures in this section present descriptive statistics and population distribution functions for selected physical and chemical characteristics (Table 5-1) of two populations of interest: the population of NSS-I target reaches described by their upper node attributes and the population of NSS-I target reaches described by their lower node attributes. Figures are shown for all subregions included in the Phase I survey. In addition, resource estimates are presented for the Interior Mid-Atlantic Region (subregions 1D, 2Bn, and 2Cn) and the Interior Southeast Region (2X, 2D, 3A, and 2As). The index values used in these population descriptions are averages of multiple samples from a node where multiple visits were made. Three types of distribution functions are presented. Two CDFs are presented to describe the number of reaches with specified characteristics for both upper and lower nodes. Stream length and total watershed area distributions are presented for the lower nodes only. The length distribution functions in this volume should not be confused with those presented in Volume I, which used an interpolation algorithm to combine upper and lower node index values. The length distribution functions presented here assign the lower node chemistry to the entire length of the stream reach. All distributions and statistics are appropriately weighted to represent the population of interest (i.e., acid mine drainage streams and streams affected by other complicating factors have been excluded).

To read these figures, start by choosing a specific value of a reach attribute, x (e.g., pH=6.0), and read the function values of the two curves: F(x), the solid line, and $F_u(x)$, the dotted line. In an ascending curve, the value of F(x) is the estimated proportion of reaches in the target subpopulation having values of the attribute less than or equal to x. It is estimated with 95% confidence that the true proportion does not exceed the value of $F_u(x)$. Some distributions are plotted as a decreasing function of x if higher values are of greater interest. For

these descending curves, the function values are read as the estimated proportion of reaches having values of the attribute greater than or equal to x. If desired, a one-sided lower confidence bound can be generated for the population distributions by projecting an identical distance below F(x). This lower confidence interval is not presented in the figures because of possible confusion with two-sided confidence bounds which would have different widths.

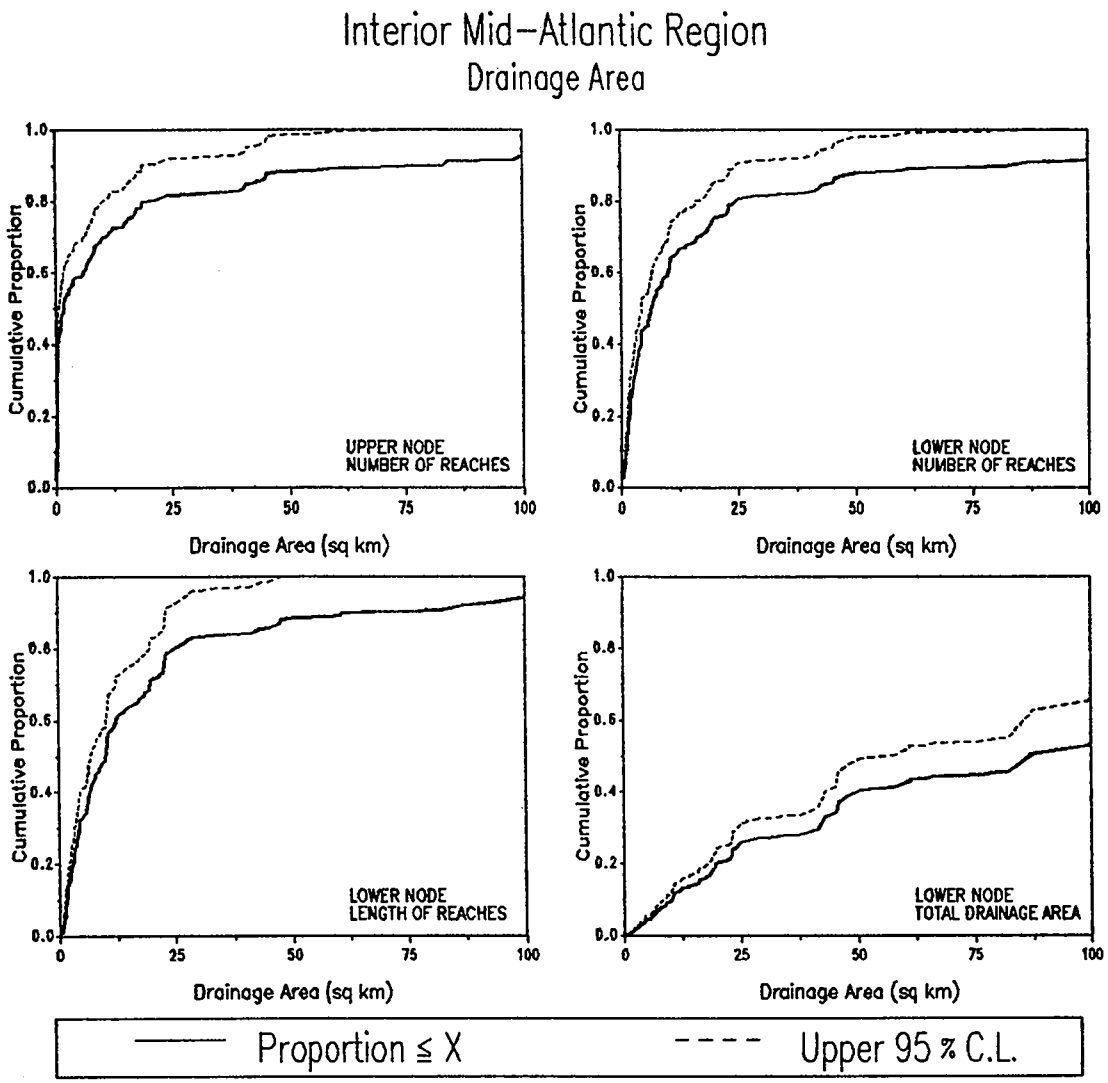
A tabular presentation of population estimates is given at the bottom of each page. Total resource estimates and their standard errors are shown in the first row of each table. These resource estimates should be interpreted as the number of reaches, length of reaches, or total nested watershed area in the total population of interest for the specified region or subregion. In the second section of the table, percentiles of the population distribution functions are listed. From this part of the table, it is possible to extract specified percentages of the population of interest having physicochemical attributes less than or equal to the tabulated percentile values. Below the section of the table labeled Population Estimates, sample and population summary statistics are presented, including the number of reaches sampled from the population of interest and the minimum and maximum values in the sample. The population mean and standard deviation shown at the right are extrapolated from the sample data using appropriate sample weights.

5.3 INTERPRETATION OF NSS-I DISTRIBUTION FUNCTIONS

Frequency distribution curves, the top two graphs in each of the distribution function figures (Figures 5-1 to 5-329), indicate the proportion of the total number of reaches that were above or below some reference value. Frequency distributions are provided based on index chemistry at the upstream (top left) and downstream (top right) reach nodes. These distributions are fairly easy to understand, but they treat reaches of different length and discharge equally. Thus they may present, for example, a misleading picture of low ANC waters if ANC is correlated with reach length, drainage area, discharge, or position in the drainage network.

Expressing the estimates as length distributions--lower left graph in the distribution function figures (Figures 5-1 to 5-329)--gives a better picture of the total resource, but still treats large and small streams of the same length equally. Furthermore, this type of length distribution estimate assumes that the value of the chemical variable is uniform throughout the length of the reach, and equal to the value of the lower node (in these figures). An alternative is to interpolate the reach chemistry between upper and lower reach ends. Results from this type of analysis for ANC and pH are presented in Volume I, subsection 6.2.5. This approach, however, assumes a linear change in chemistry between the upper and lower reach ends.

The lower right graph in the distribution function figures (Figures 5-1 to 5-329) displays the population estimates based on total watershed area (A_WS) of the target reach lower nodes. When multiplied by an appropriate net precipitation index value, watershed area can be used to estimate discharge. Total watershed area (discharge index) distribution curves indicate, on the basis of watershed area, the proportion of target reaches above or below a given reference value of a chemical variable. The total population of refined target reach lower nodes within the NSS-I area include drainages ranging from 0.5 to 149 km^2, with smaller drainages nested within larger ones. The estimated total watershed area of 1,188,064 km^2 for the NSS-I target area therefore includes drainage areas counted more than once and should not be construed to represent the total land area drained by the network of target reaches. The best interpretation of the curves as they are presently shown is that they estimate the instantaneous, discharge-weighted distribution of the chemical variables over the downstream nodes of all target reaches in the population, assuming that discharge is proportional to drainage area only.

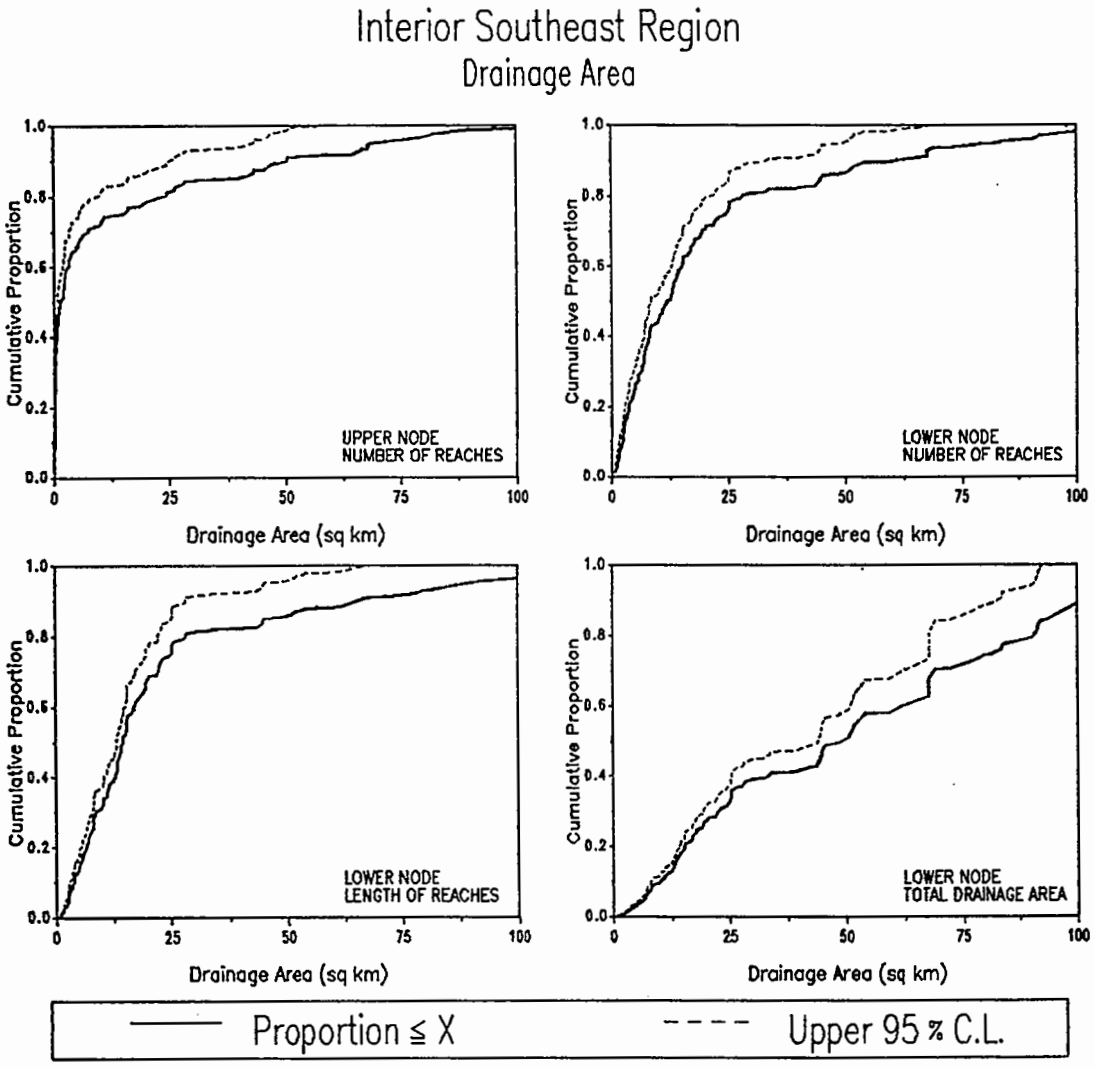


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (sq km)	0.14	1.74	2.91	19.85
40 % (sq km)	0.43	4.28	6.54	49.63
MEDIAN (sq km)	1.68	6.37	10.08	86.84
60 % (sq km)	5.72	10.15	12.26	103.61
80 % (sq km)	19.56	24.60	25.19	121.37

SUMMARY STATISTICS (sq km)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	0.03	131.71	18.52	34.66
LOWER	164	0.52	132.78	21.61	34.40

Figure 5-1. Population estimates for total watershed area (A_WS) for the Mid-Atlantic Region.



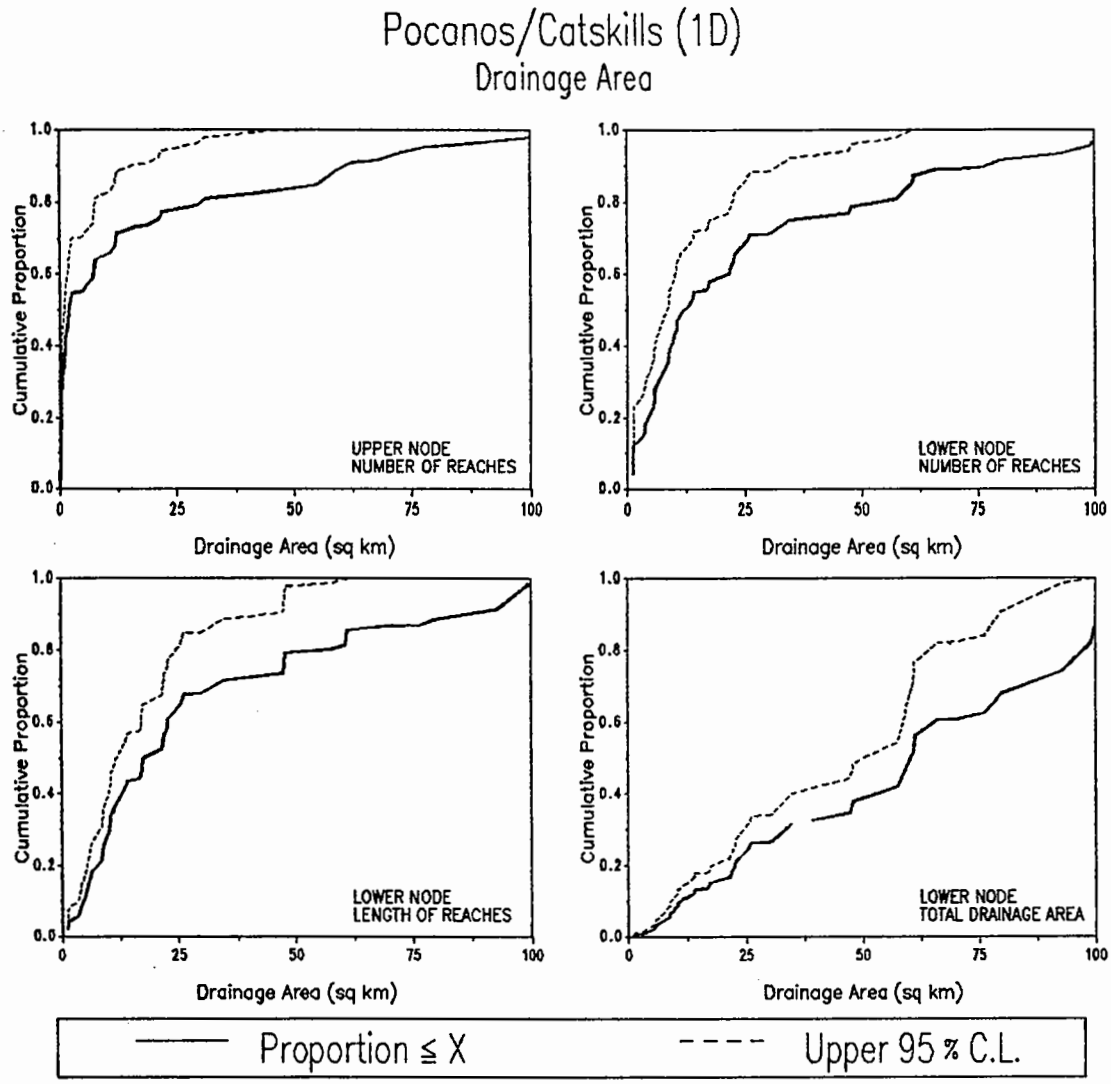
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (sq km)	0.17	3.74	6.43	15.25
40 % (sq km)	0.76	8.01	12.75	33.10
MEDIAN (sq km)	1.42	11.89	14.40	48.85
60 % (sq km)	2.88	15.12	16.88	61.97
80 % (sq km)	23.49	28.19	28.18	90.75

SUMMARY STATISTICS (sq km)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	0.00	142.85	13.79	24.87
LOWER	189	0.73	148.73	21.46	26.22

Figure 5-2. Population estimates for total watershed area (A_WS) for the Southeastern Region.

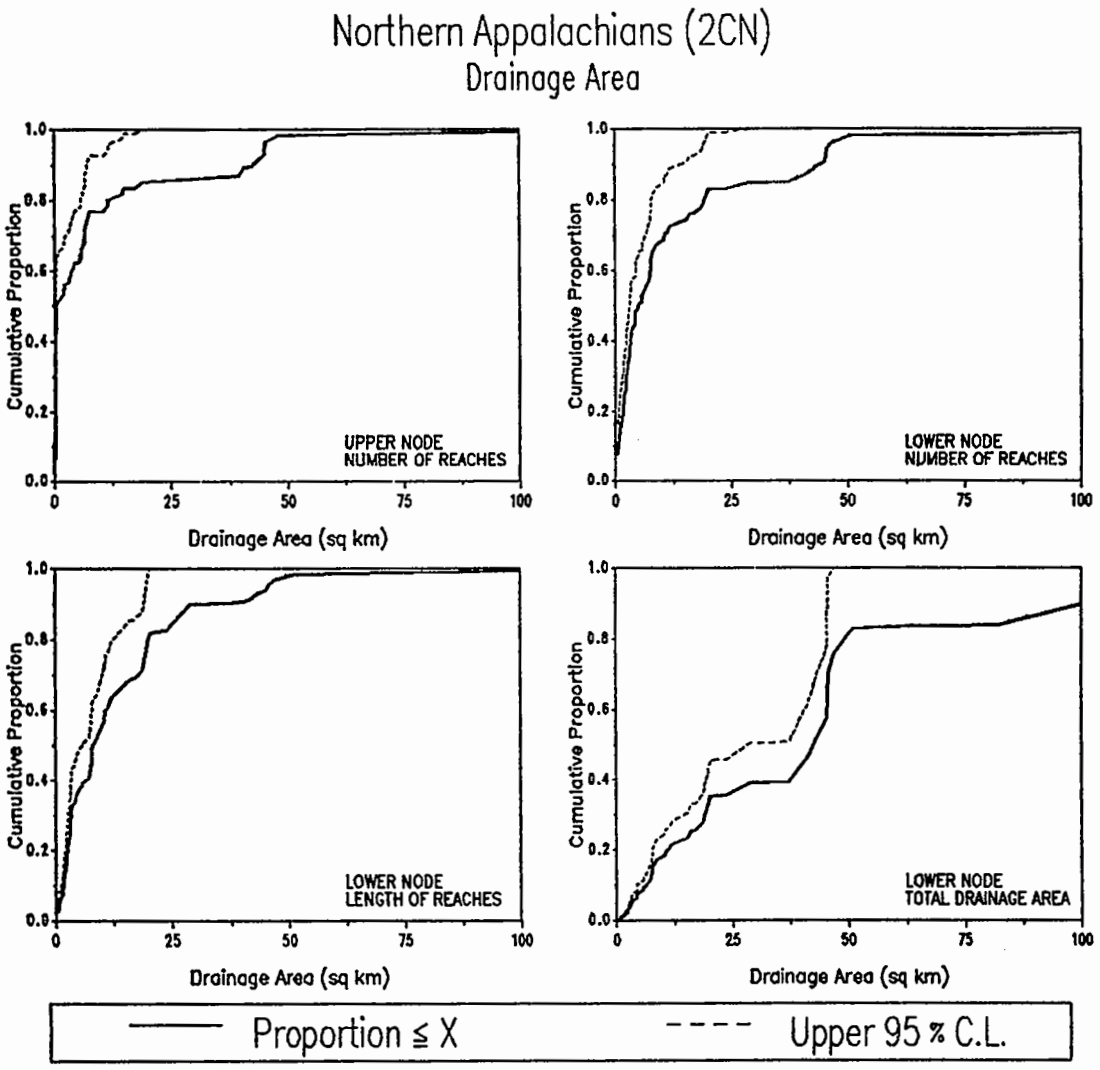


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (sq km)	0.31	4.54	7.76	22.61
40 % (sq km)	1.14	9.18	13.07	52.87
MEDIAN(sq km)	1.93	11.96	17.58	60.21
60 % (sq km)	7.31	21.48	22.70	65.50
80 % (sq km)	30.34	53.78	56.74	97.57

SUMMARY STATISTICS (sq km)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	0.03	115.71	18.21	29.12
LOWER	56	1.24	117.83	27.40	30.87

Figure 5-3. Population estimates for total watershed area (A_WS) for the Poconos/Catskills subregion (1D).



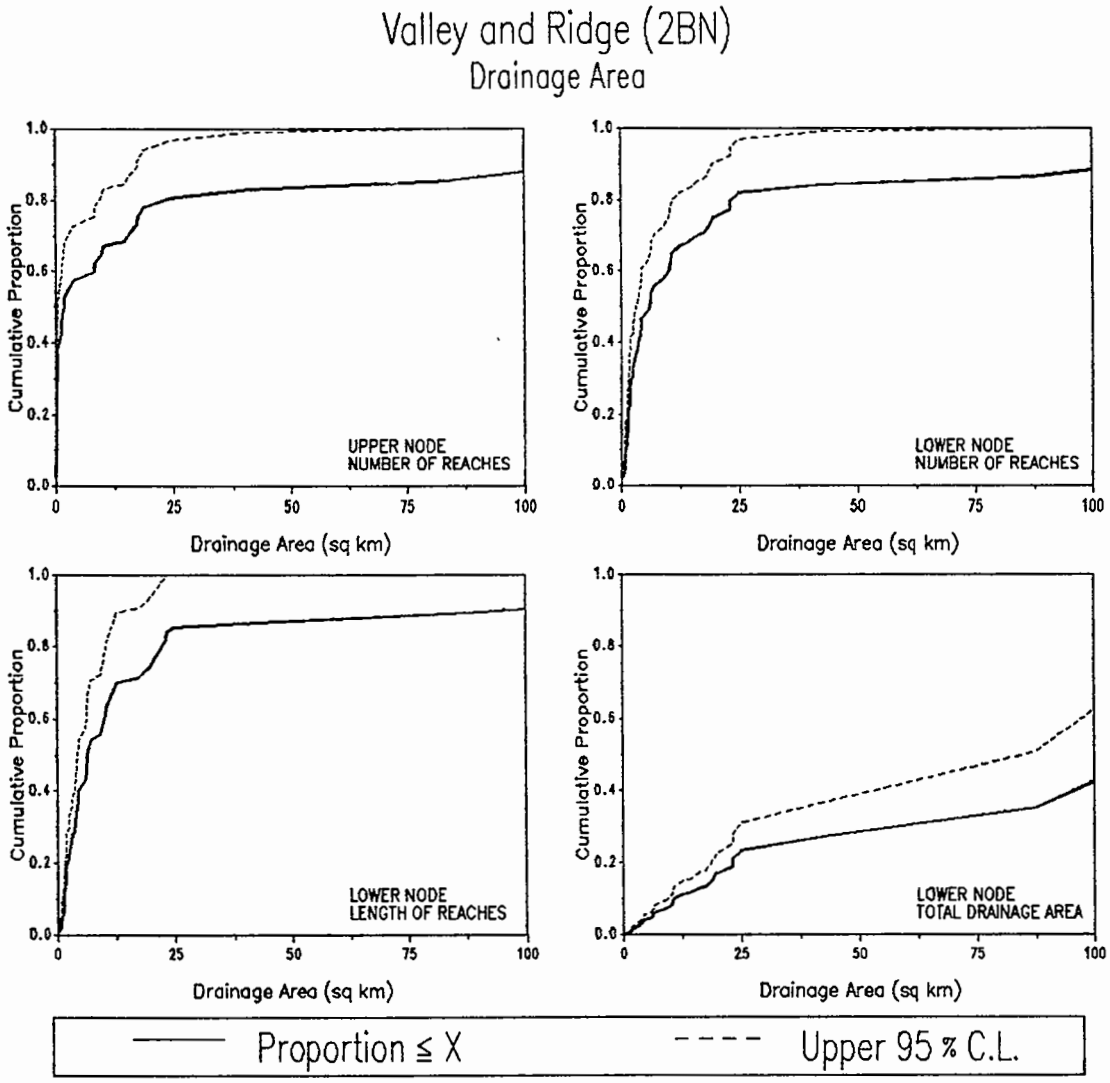
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (sq km)	0.10	1.63	2.52	11.16
40 % (sq km)	0.20	3.24	6.57	37.57
MEDIAN (sq km)	0.44	4.96	8.05	42.48
60 % (sq km)	3.76	7.62	10.68	45.29
80 % (sq km)	11.50	19.40	19.74	49.21

SUMMARY STATISTICS (sq km)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	0.03	129.67	10.50	21.19
LOWER	61	0.52	131.27	13.80	21.37

Figure 5-4. Population estimates for total watershed area (A_WS) for the Northern Appalachians subregion (2Cn).



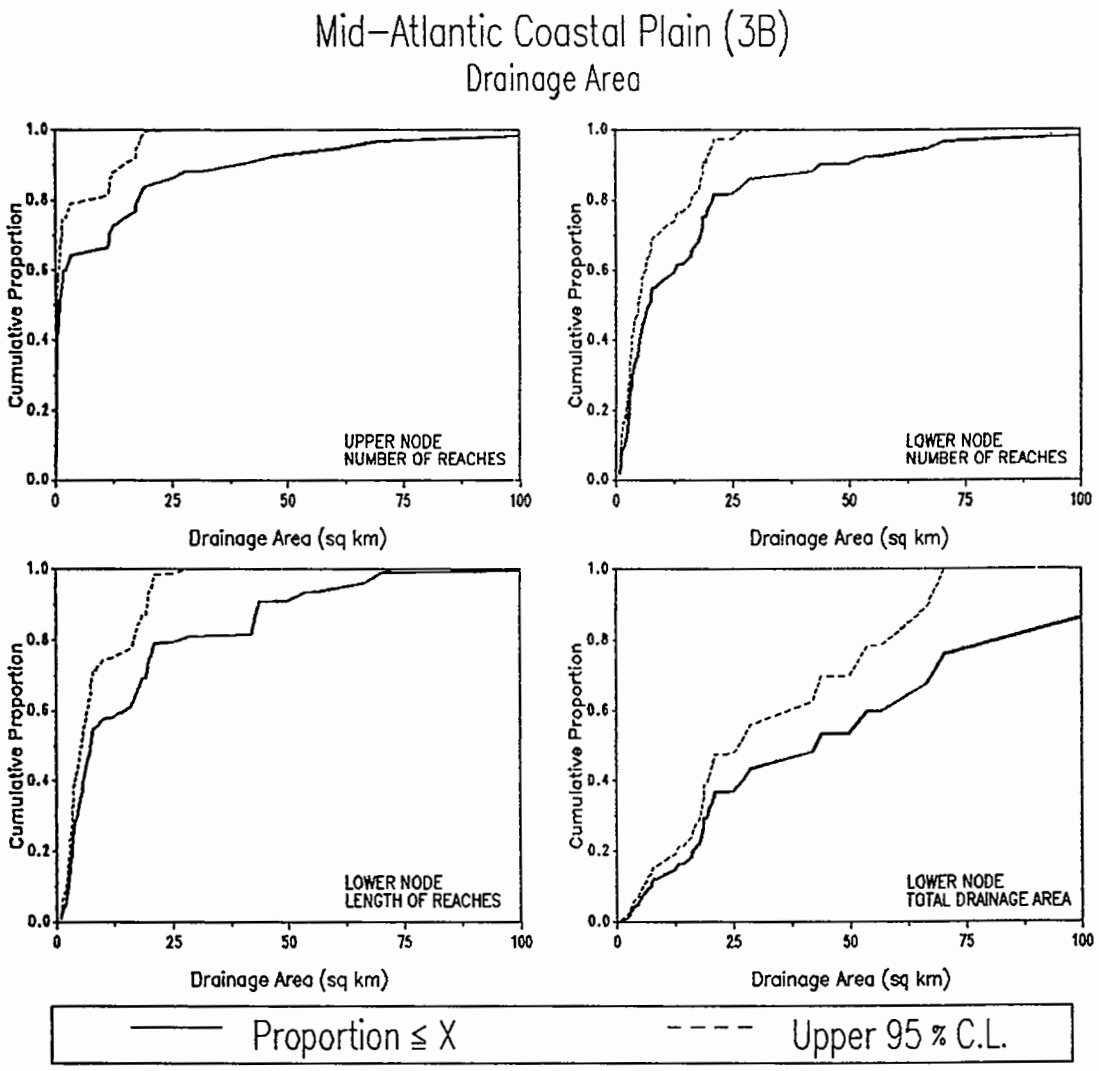
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (sq km)	0.16	1.51	2.11	23.19
40 % (sq km)	0.66	3.76	4.35	95.89
MEDIAN (sq km)	1.68	6.08	6.40	109.02
60 % (sq km)	8.24	10.08	10.02	116.20
80 % (sq km)	23.14	23.55	22.30	122.88

SUMMARY STATISTICS (sq km)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	0.03	131.71	23.91	41.44
LOWER	47	0.54	132.78	25.01	40.26

Figure 5-5. Population estimates for total watershed area (A_WS) for the Valley and Ridge subregion (2Bn).

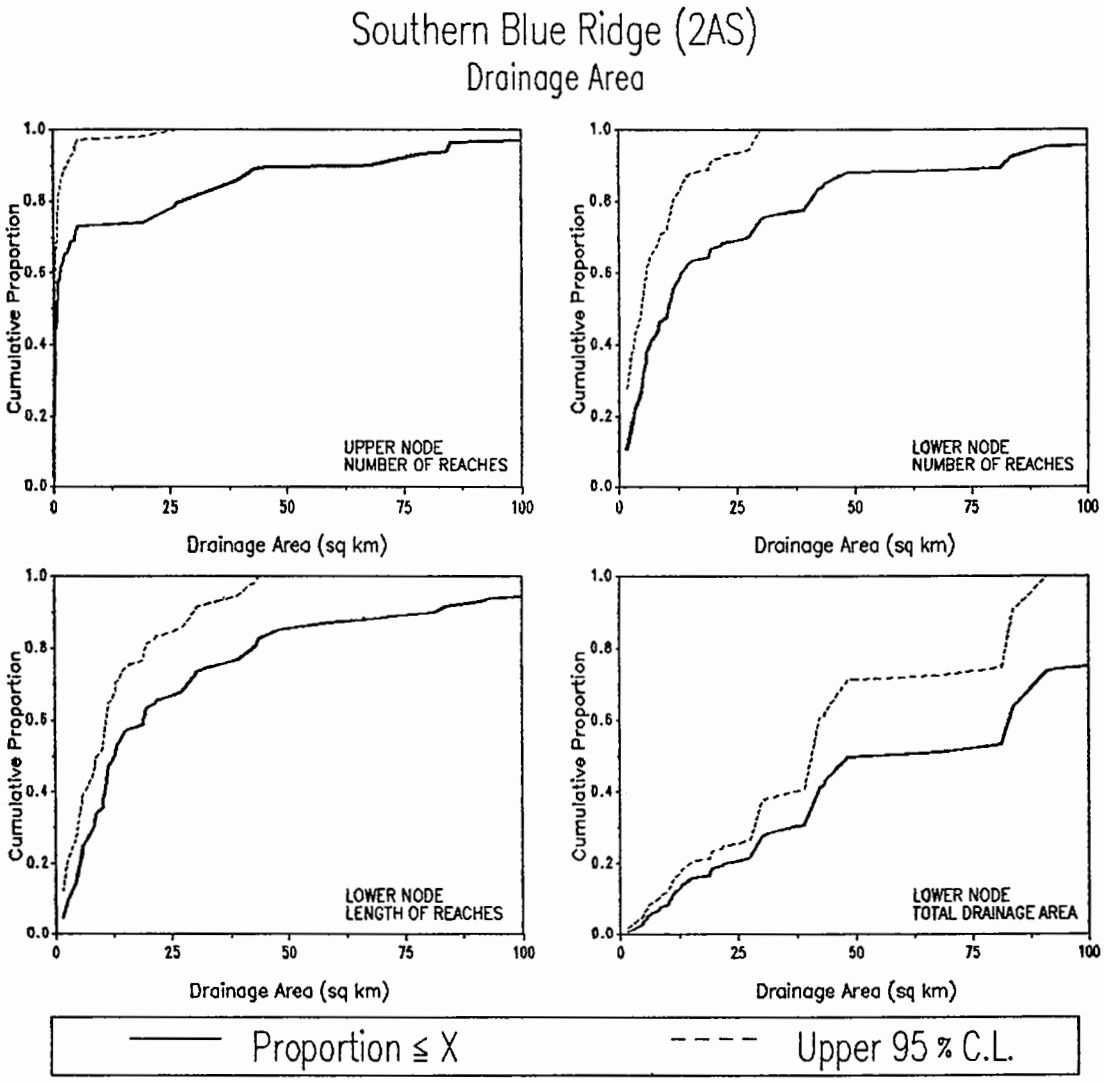


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (sq km)	0.16	2.87	3.39	16.38
40 % (sq km)	0.43	5.14	5.71	26.88
MEDIAN (sq km)	0.93	7.13	7.47	42.58
60 % (sq km)	2.12	12.70	14.77	56.94
80 % (sq km)	17.72	20.66	26.43	82.21

SUMMARY STATISTICS (sq km)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	0.03	129.46	13.46	26.65
LOWER	58	0.91	131.97	18.10	26.33

Figure 5-6. Population estimates for total watershed area (A_WS) for the Mid-Atlantic Coastal Plain subregion (3B).

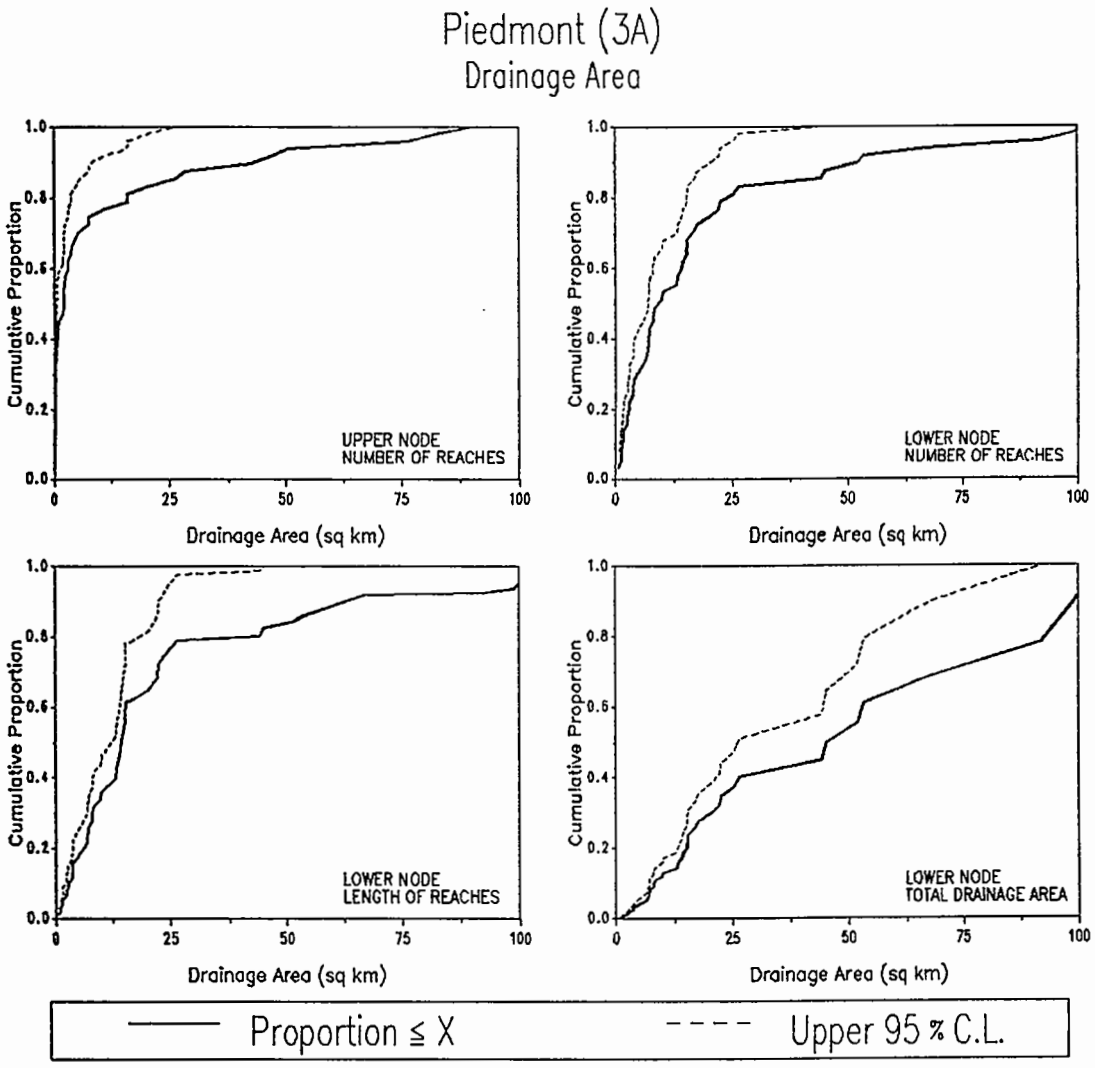


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (sq km)	0.04	3.06	5.17	22.06
40 % (sq km)	0.37	6.50	10.60	41.80
MEDIAN (sq km)	0.82	10.37	12.84	53.01
60 % (sq km)	1.44	13.13	19.05	82.91
80 % (sq km)	27.62	40.40	42.58	123.85

SUMMARY STATISTICS (sq km)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	0.00	142.85	16.84	32.36
LOWER	54	1.55	148.73	25.11	33.99

Figure 5-7. Population estimates for total watershed area (A_WS) for the Southern Blue Ridge subregion (2As).

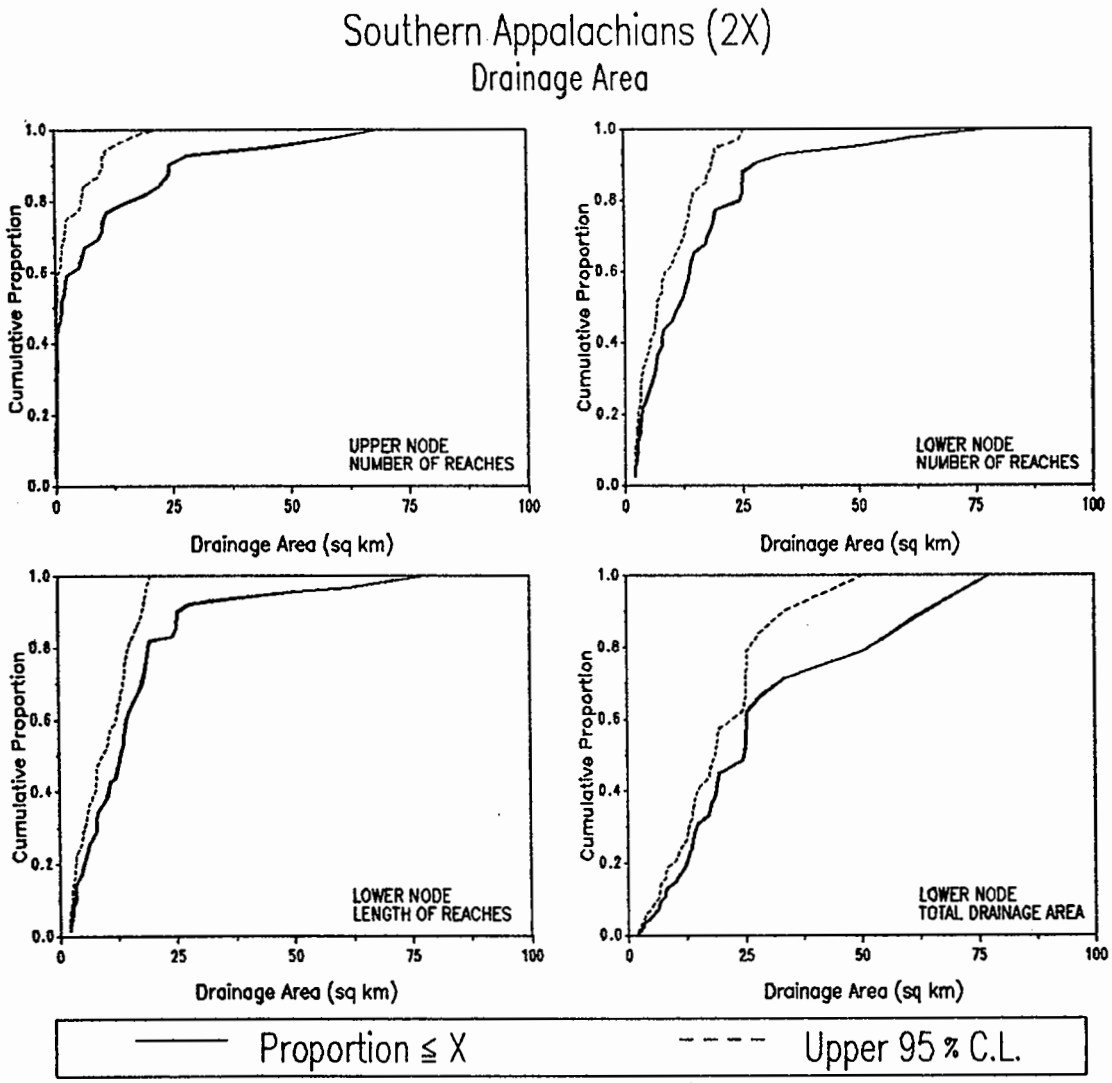


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (sq km)	0.24	2.88	6.26	15.02
40 % (sq km)	0.83	7.11	13.18	26.40
MEDIAN (sq km)	2.15	8.92	14.38	45.40
60 % (sq km)	3.16	14.07	15.32	53.09
80 % (sq km)	16.00	23.86	43.97	93.28

SUMMARY STATISTICS (sq km)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	0.03	90.07	11.98	22.15
LOWER	47	0.73	103.98	19.57	25.32

Figure 5-8. Population estimates for total watershed area (A_WS) for the Piedmont subregion (3A).



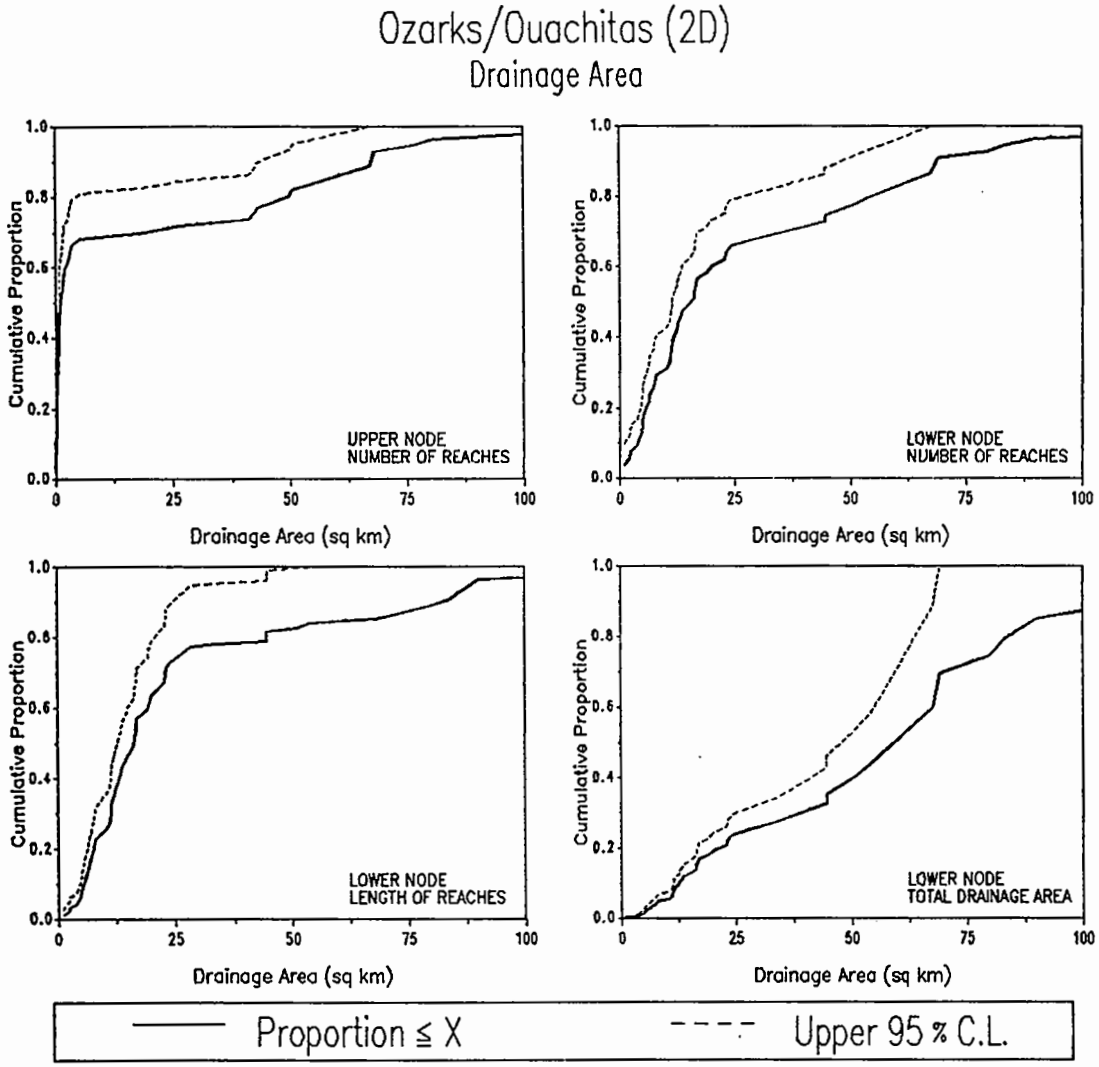
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (sq km)	0.13	3.55	5.28	12.71
40 % (sq km)	0.35	7.95	10.55	18.85
MEDIAN (sq km)	1.33	11.56	13.09	24.79
60 % (sq km)	3.54	13.88	14.44	25.38
80 % (sq km)	16.30	24.60	19.32	51.92

SUMMARY STATISTICS (sq km)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	0.00	68.55	9.67	16.07
LOWER	40	2.07	77.69	15.84	15.83

Figure 5-9. Population estimates for total watershed area (A_WS) for the Southern Appalachians subregion (2X).

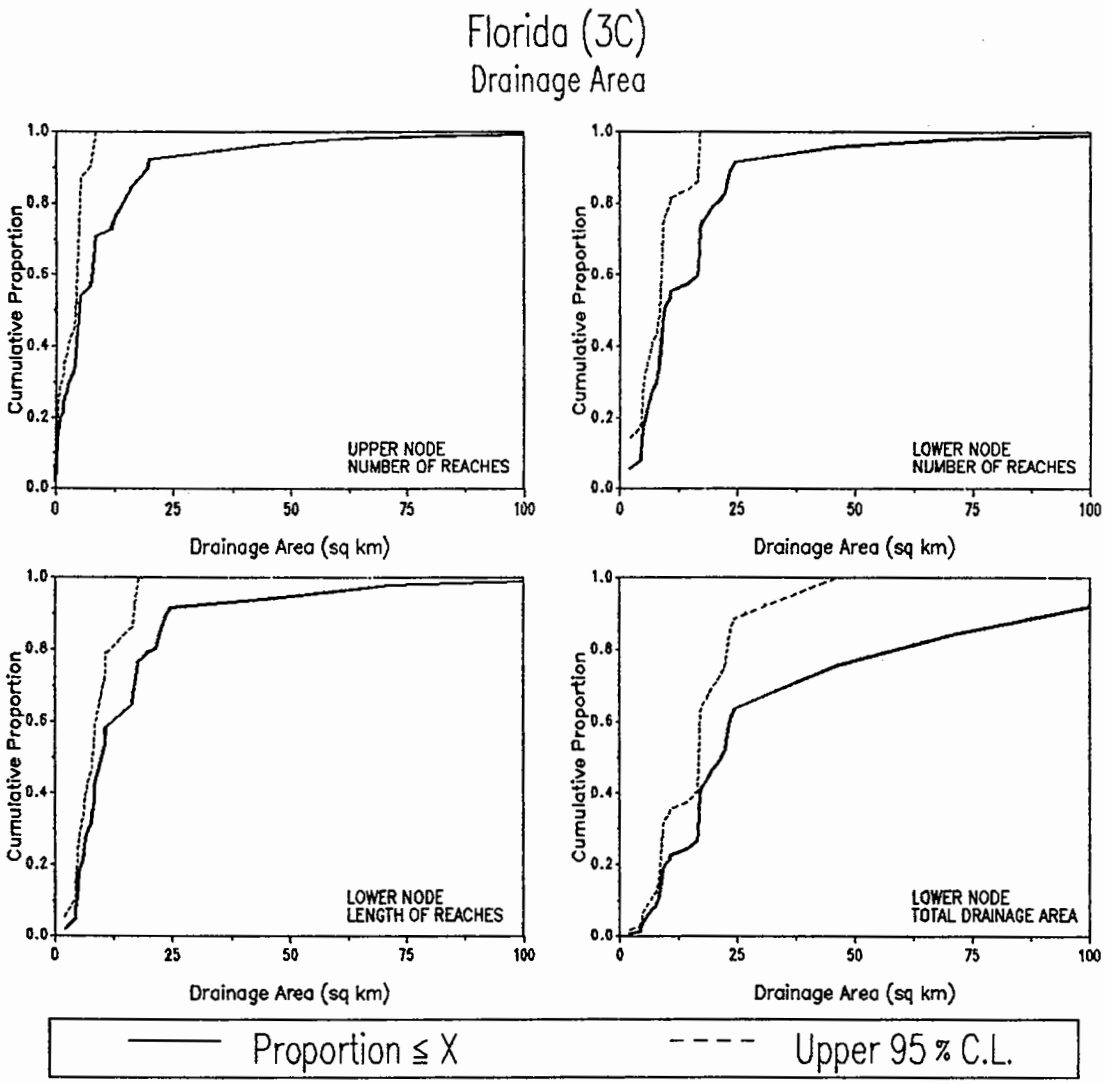


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (sq km)	0.15	5.86	7.57	21.42
40 % (sq km)	0.77	11.78	13.20	50.30
MEDIAN (sq km)	1.16	15.62	16.32	59.27
60 % (sq km)	2.21	19.99	19.30	67.84
80 % (sq km)	49.72	54.77	44.61	84.11

SUMMARY STATISTICS (sq km)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	0.00	116.20	20.38	31.44
LOWER	48	1.09	124.75	30.00	30.87

Figure 5-10. Population estimates for total watershed area (A_WS) for the Ozarks/Ouachitas subregion (2D).



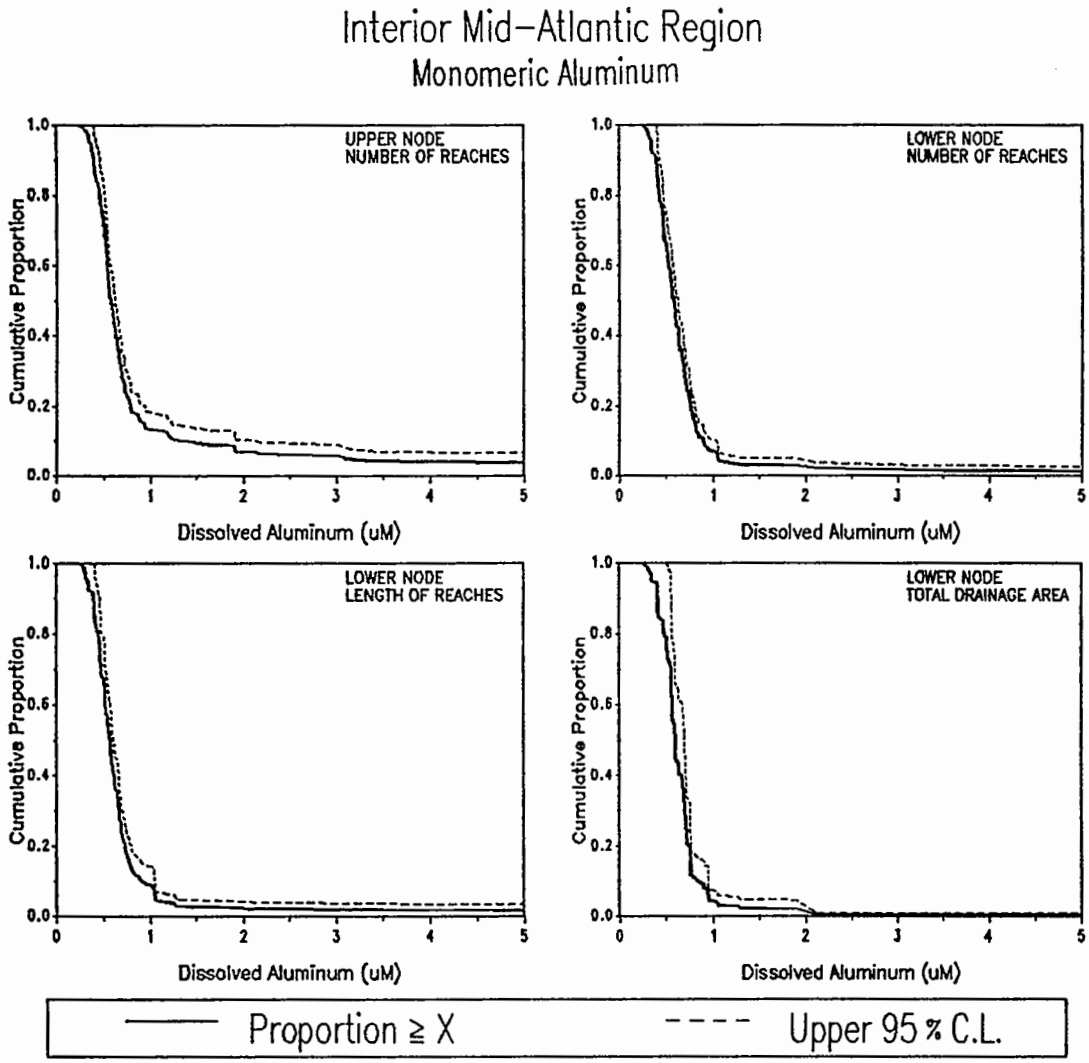
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (sq km)	1.08	5.36	5.65	9.78
40 % (sq km)	4.33	8.67	8.35	17.19
MEDIAN (sq km)	4.99	9.48	9.93	21.77
60 % (sq km)	7.69	16.53	12.23	23.54
80 % (sq km)	14.15	20.66	21.00	58.94

SUMMARY STATISTICS (sq km)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	0.03	122.39	11.54	19.21
LOWER	34	2.07	129.69	16.96	20.61

Figure 5-11. Population estimates for total watershed area (A_WS) for Florida subregion (3C).



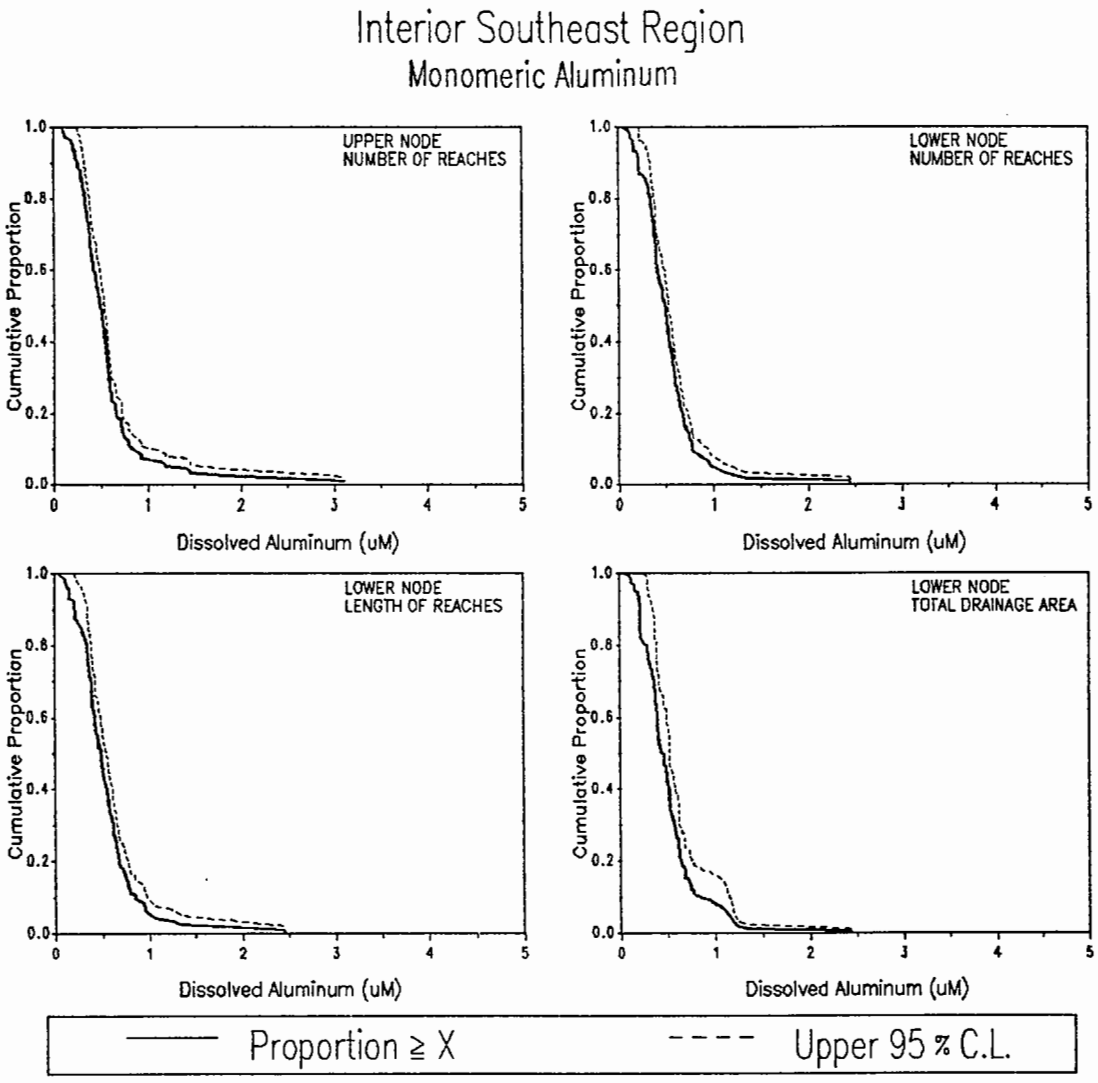
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (uM)	0.78	0.75	0.74	0.74
40 % (uM)	0.62	0.63	0.62	0.65
MEDIAN (uM)	0.57	0.57	0.56	0.58
60 % (uM)	0.54	0.52	0.52	0.55
80 % (uM)	0.46	0.42	0.43	0.47

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	0.22	15.82	1.10	2.22
LOWER	164	0.24	16.01	0.74	1.31

Figure 5-12. Population estimates for total monomeric aluminum (ALDS16) for the Mid-Atlantic Region.



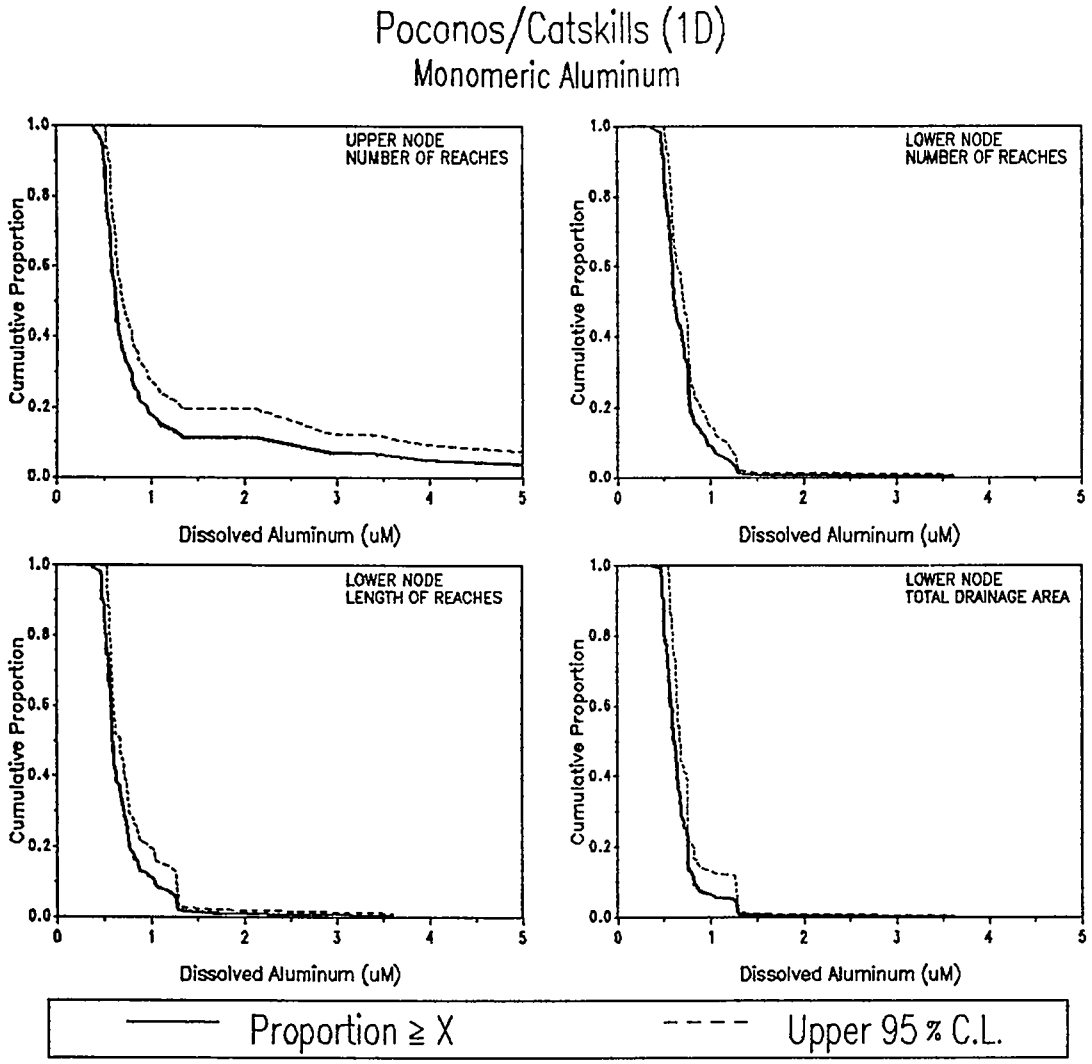
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	16655	16688	79026	350708
STD ERROR	931	931	5814	43631
20 % (uM)	0.65	0.65	0.66	0.62
40 % (uM)	0.53	0.52	0.53	0.51
MEDIAN (uM)	0.48	0.48	0.48	0.43
60 % (uM)	0.40	0.40	0.41	0.38
80 % (uM)	0.32	0.33	0.33	0.26

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	135	0.09	3.10	0.55	0.40
LOWER	135	0.04	2.44	0.51	0.29

Figure 5-13. Population estimates for total monomeric aluminum (ALDS16) for the Southeastern Region.



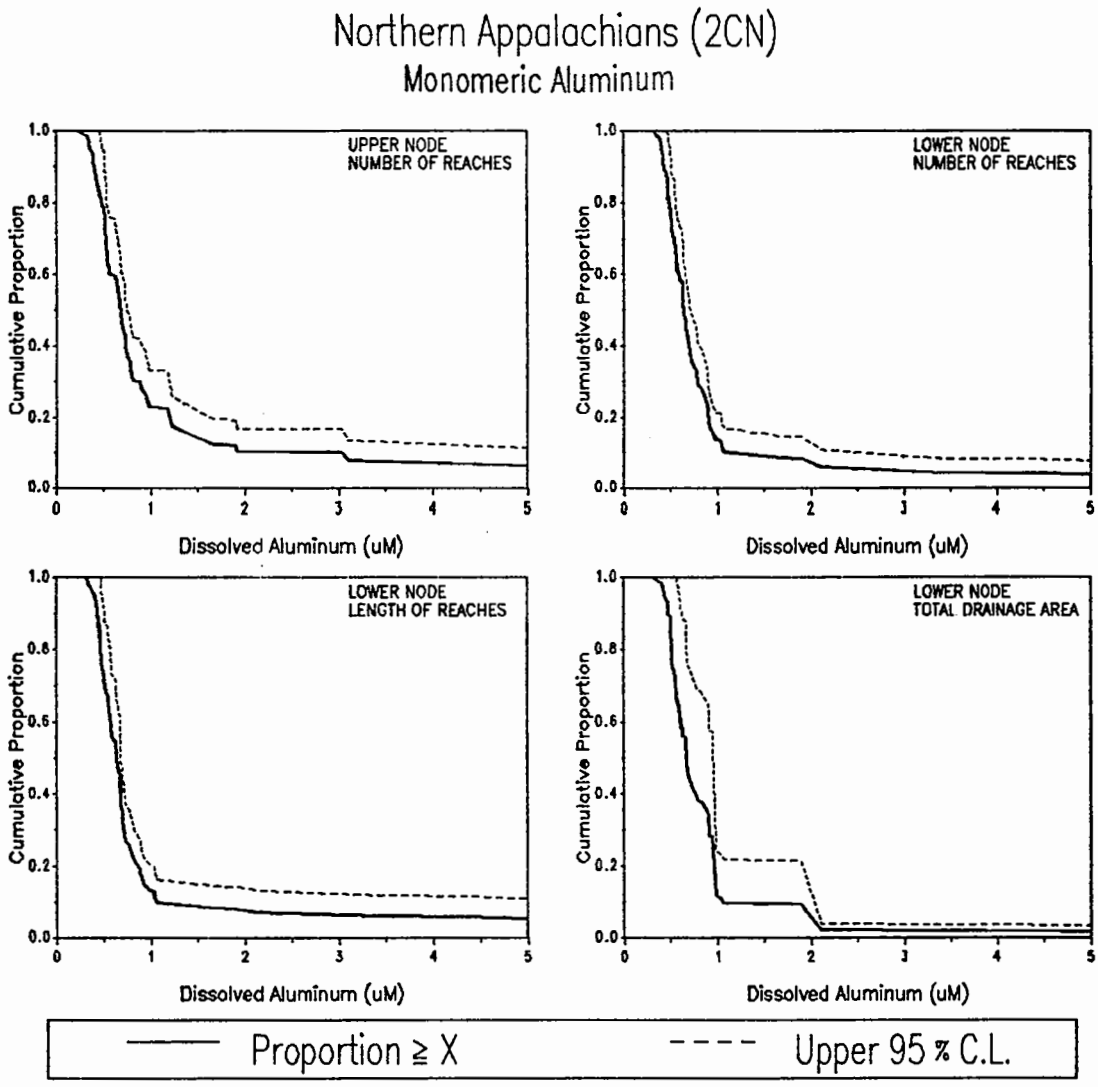
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (uM)	0.89	0.76	0.76	0.74
40 % (uM)	0.65	0.67	0.62	0.63
MEDIAN (uM)	0.61	0.60	0.59	0.60
60 % (uM)	0.57	0.58	0.57	0.57
80 % (uM)	0.52	0.51	0.51	0.50

SUMMARY STATISTICS (uM)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	0.38	12.53	1.10	1.73
LOWER	56	0.34	3.61	0.68	0.26

Figure 5-14. Population estimates for total monomeric aluminum (ALDS16) for the Poconos/Catskills subregion (1D).

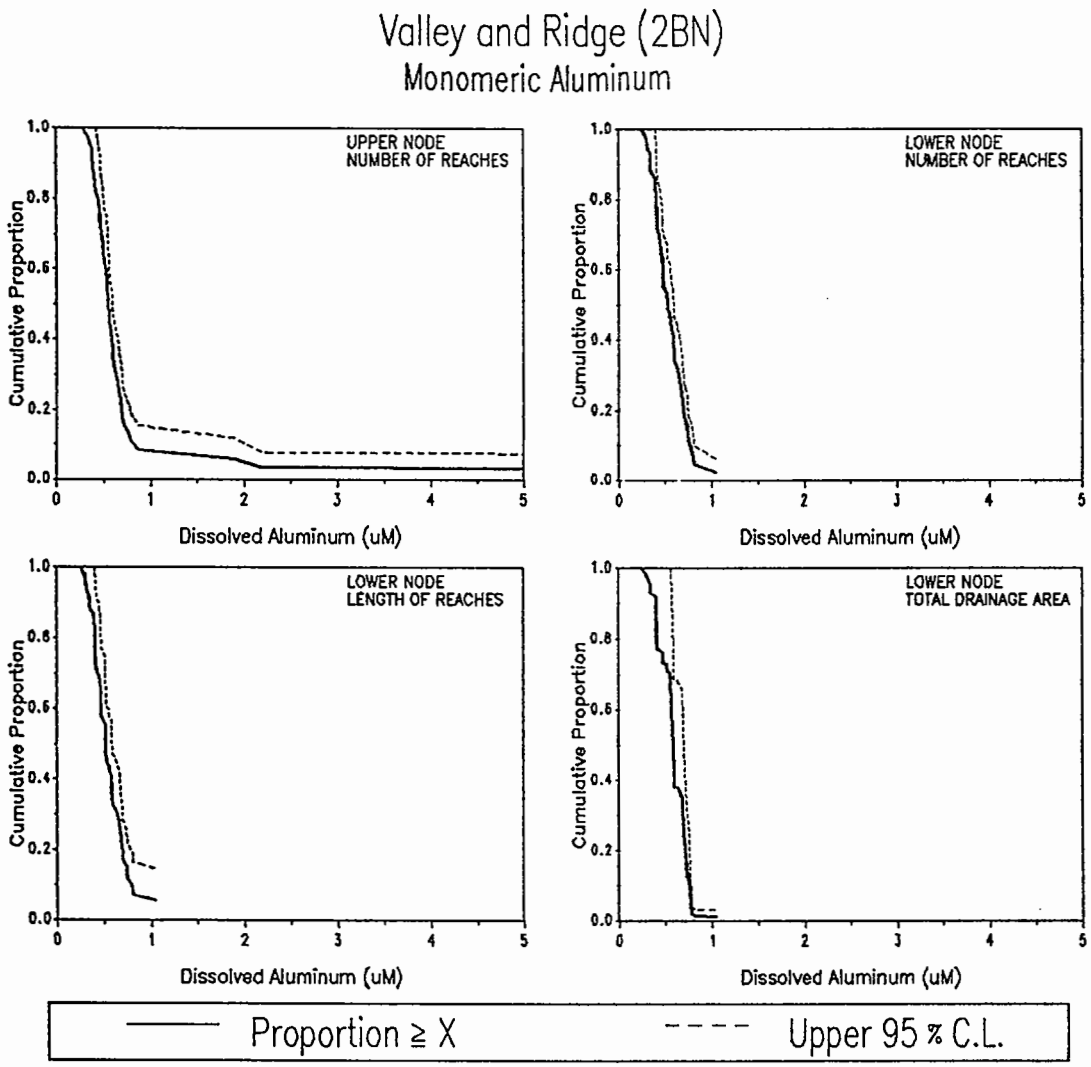


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (uM)	1.11	0.89	0.81	0.93
40 % (uM)	0.72	0.68	0.67	0.73
MEDIAN (uM)	0.66	0.63	0.63	0.66
60 % (uM)	0.56	0.56	0.56	0.58
80 % (uM)	0.47	0.47	0.47	0.50

SUMMARY STATISTICS (uM)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	0.22	15.82	1.37	2.53
LOWER	61	0.31	16.01	1.11	2.21

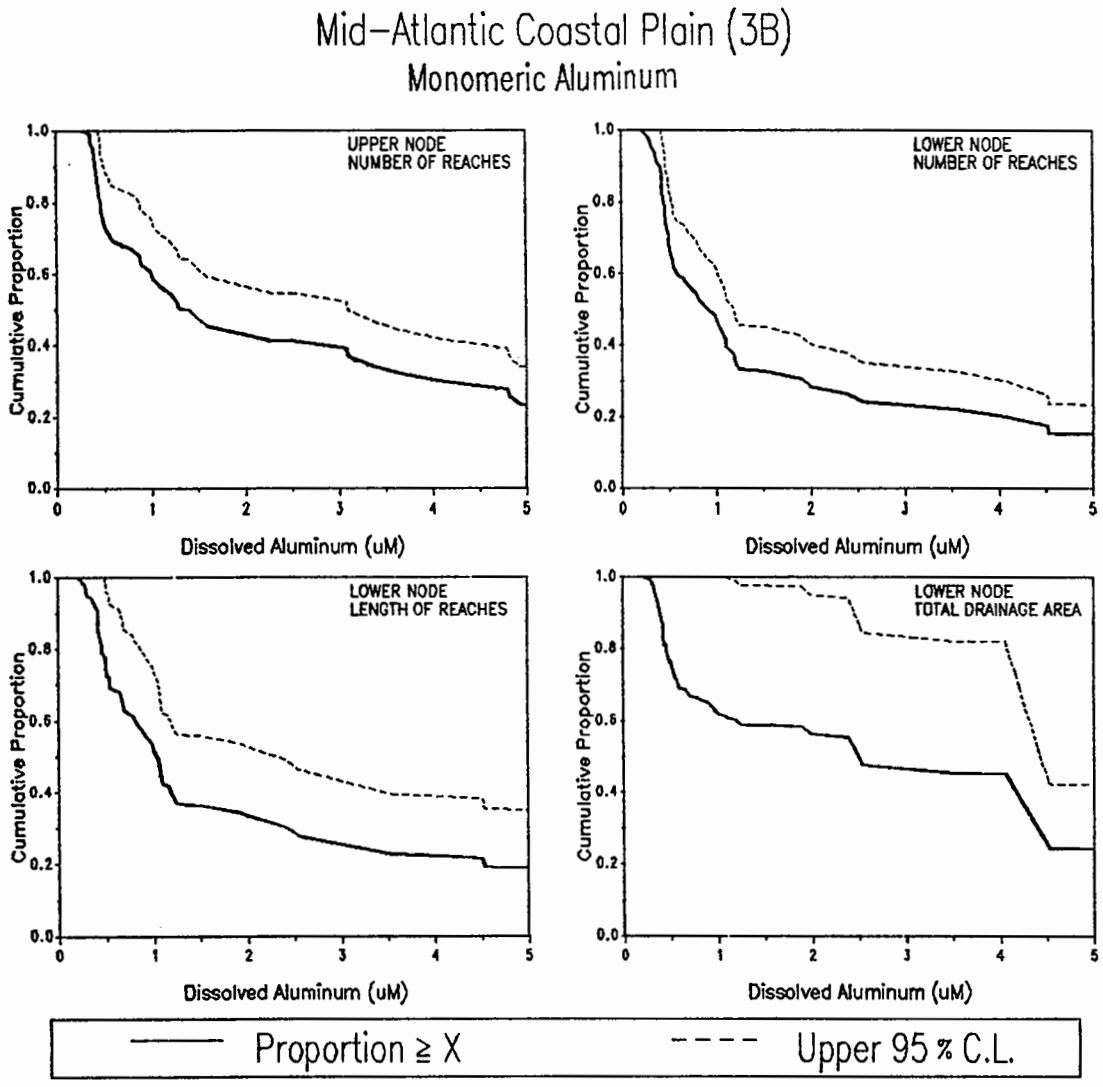
Figure 5-15. Population estimates for total monomeric aluminum (ALDS16) for the Northern Appalachians subregion (2Cn).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (uM)	0.68	0.68	0.68	0.70
40 % (uM)	0.57	0.57	0.56	0.58
MEDIAN (uM)	0.54	0.52	0.50	0.57
60 % (uM)	0.50	0.46	0.46	0.55
80 % (uM)	0.41	0.40	0.40	0.40

SUMMARY STATISTICS (uM)					
		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	0.29	14.04	0.92	2.09
LOWER	47	0.24	1.05	0.54	0.17

Figure 5-16. Population estimates for total monomeric aluminum (ALDS16) for the Valley and Ridge subregion (2Bn).

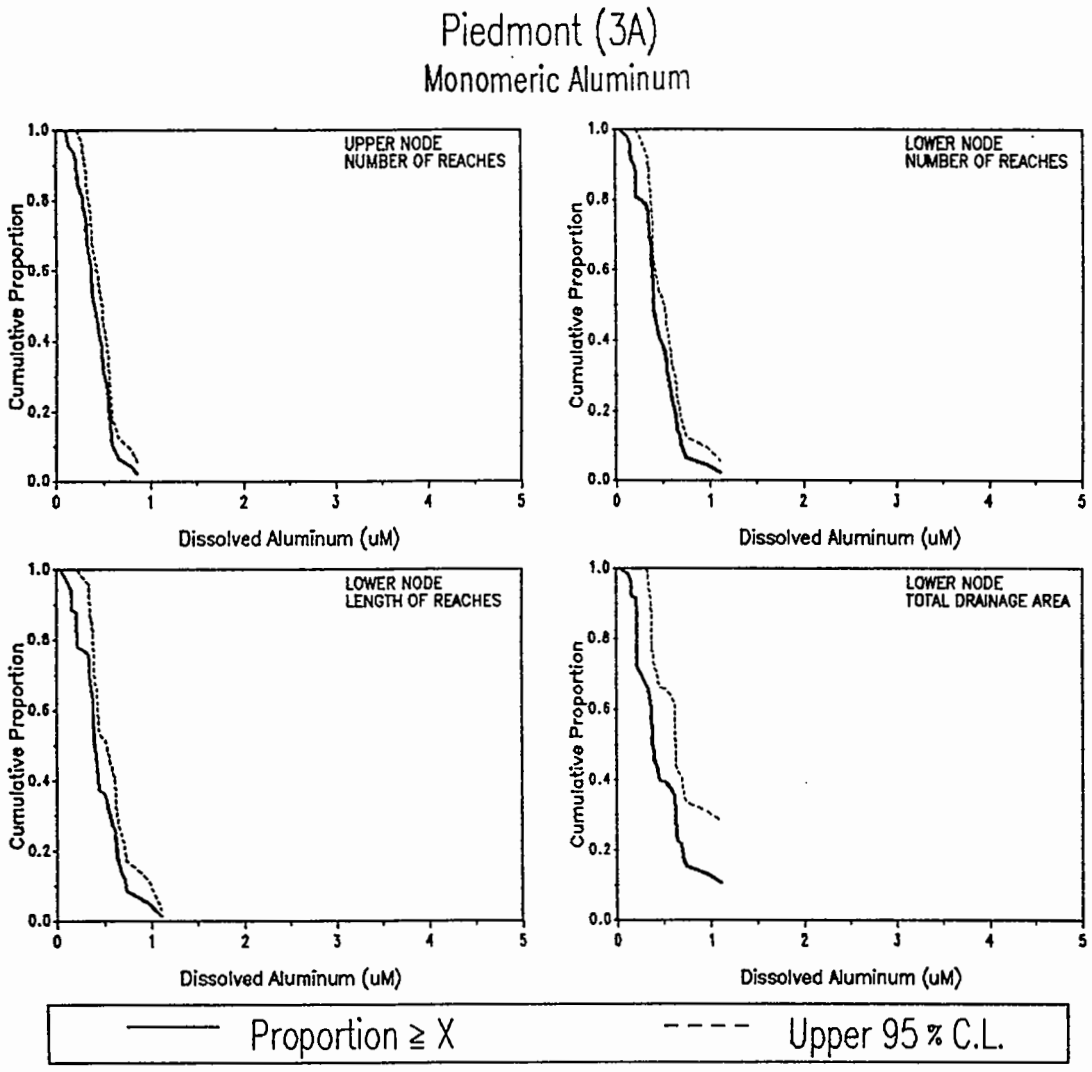


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (uM)	5.53	3.55	4.36	6.27
40 % (uM)	2.39	1.08	1.15	3.67
MEDIAN (uM)	1.30	0.83	1.00	2.26
60 % (uM)	0.92	0.54	0.75	1.17
80 % (uM)	0.44	0.42	0.45	0.44

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	0.25	29.96	3.28	4.19
LOWER	58	0.20	15.05	2.13	2.82

Figure 5-17. Population estimates for total monomeric aluminum (ALDS16) for the Mid-Atlantic Coastal Plain subregion (3B).

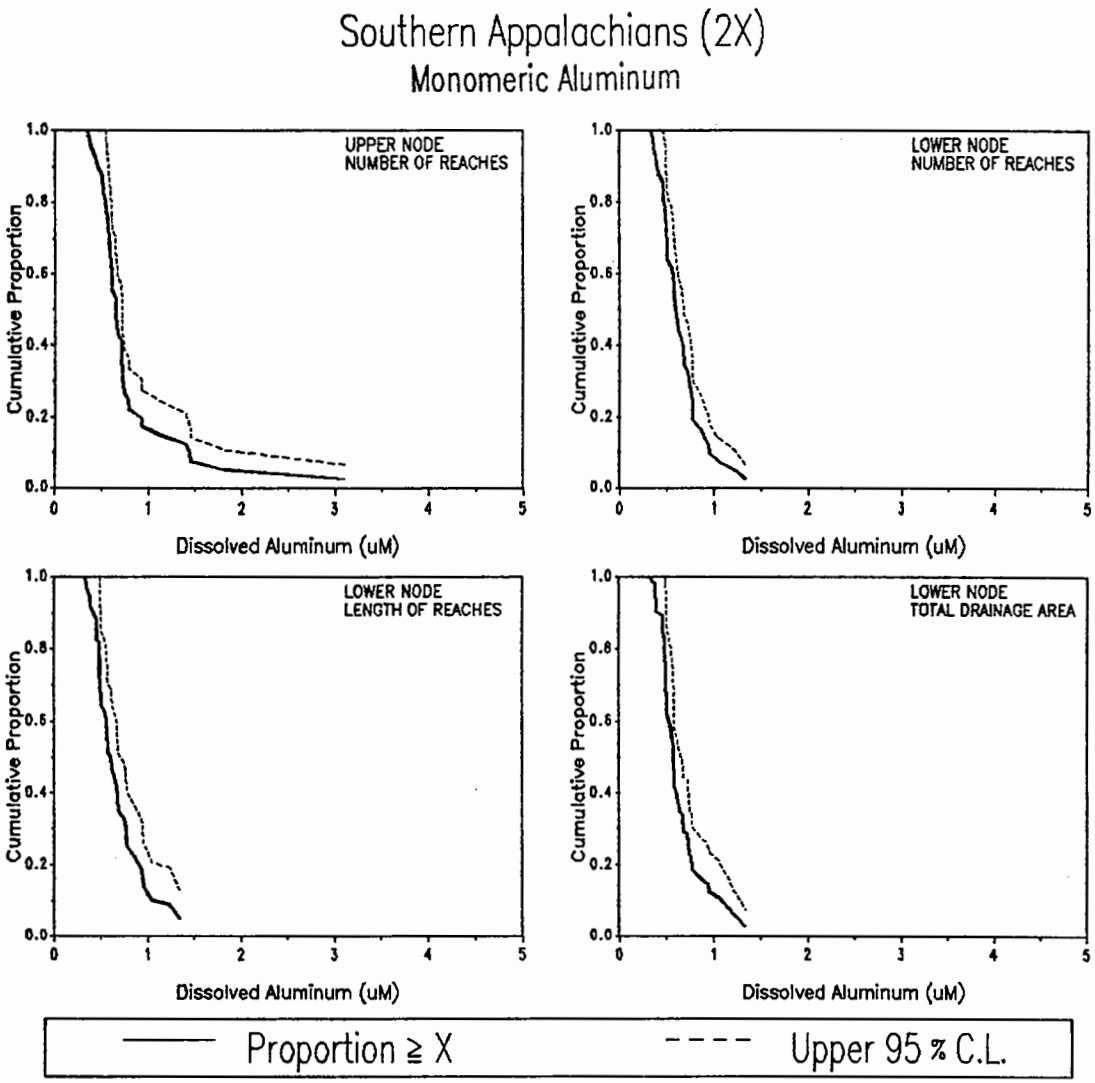


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (uM)	0.54	0.60	0.61	0.67
40 % (uM)	0.45	0.43	0.42	0.42
MEDIAN (uM)	0.37	0.39	0.39	0.37
60 % (uM)	0.35	0.37	0.38	0.35
80 % (uM)	0.26	0.21	0.20	0.20

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	0.10	0.86	0.41	0.16
LOWER	47	0.04	1.10	0.44	0.21

Figure 5-18. Population estimates for total monomeric aluminum (ALDS16) for the Piedmont subregion (3A).



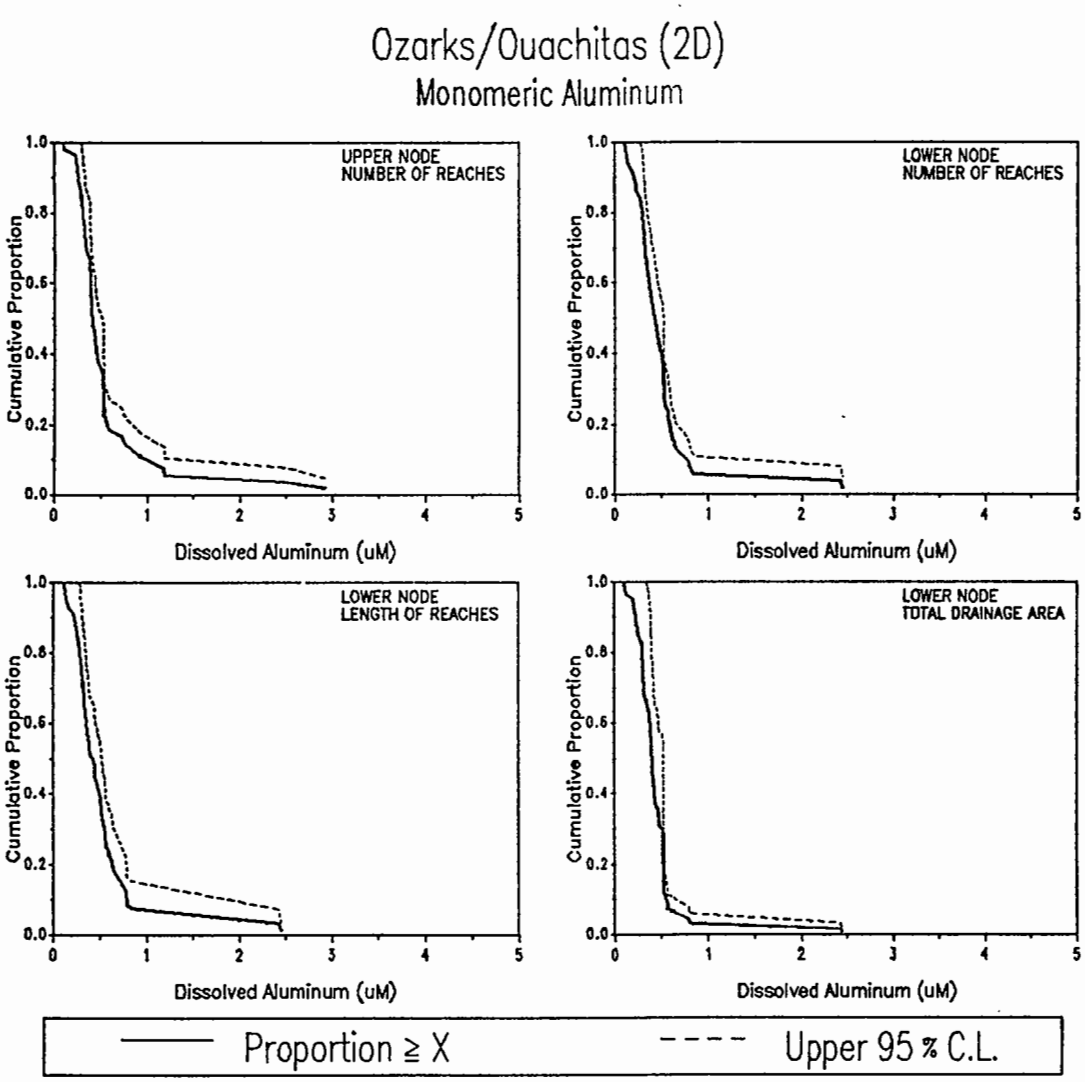
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (uM)	0.78	0.77	0.82	0.76
40 % (uM)	0.68	0.65	0.66	0.58
MEDIAN (uM)	0.64	0.57	0.58	0.57
60 % (uM)	0.59	0.53	0.54	0.50
80 % (uM)	0.52	0.46	0.46	0.46

SUMMARY STATISTICS (uM)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	0.34	3.10	0.78	0.48
LOWER	40	0.33	1.34	0.64	0.22

Figure 5-19. Population estimates for total monomeric aluminum (ALDS16) for the Southern Appalachians subregion (2X).



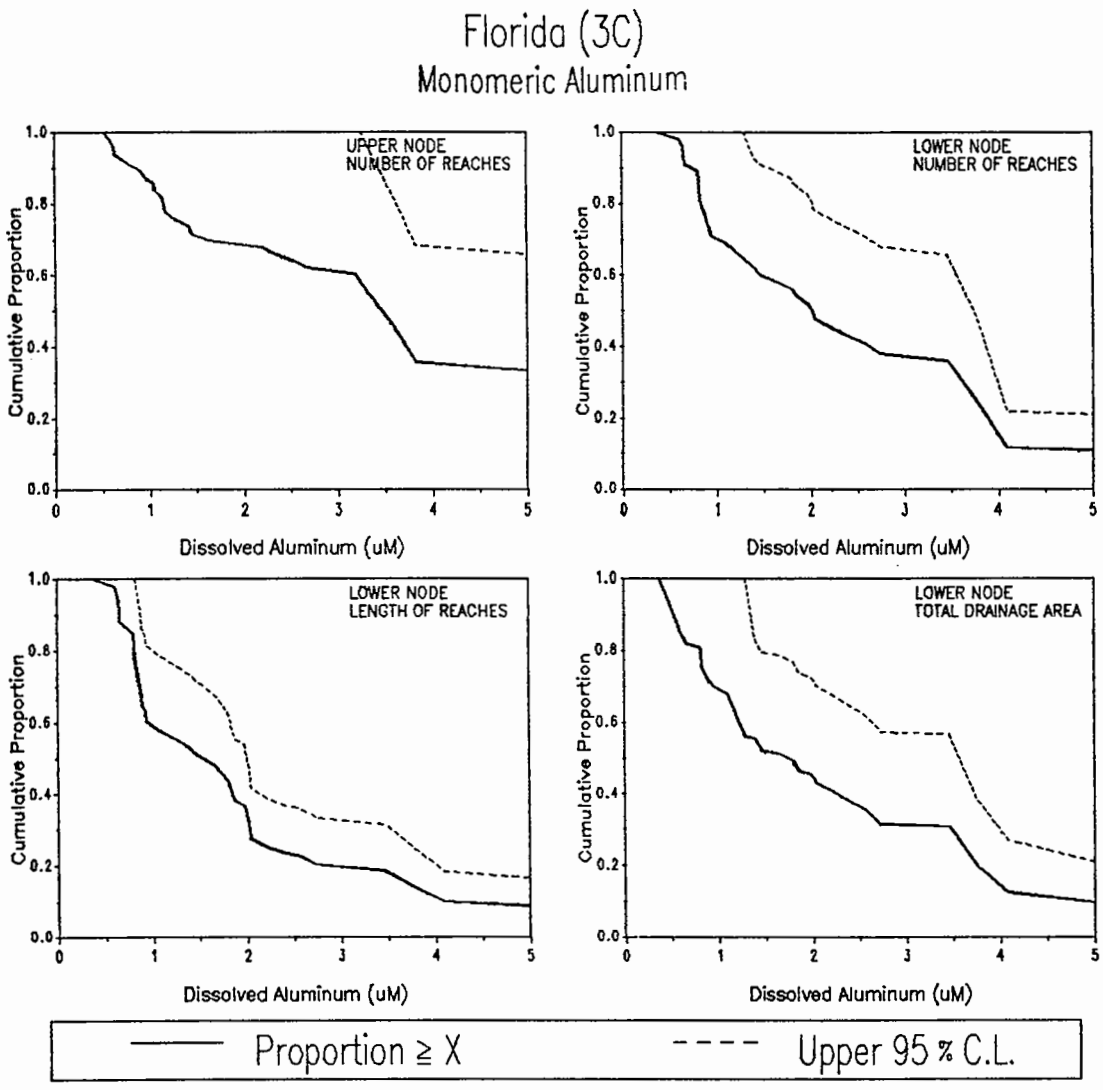
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (uM)	0.54	0.56	0.62	0.51
40 % (uM)	0.44	0.47	0.48	0.40
MEDIAN (uM)	0.40	0.40	0.40	0.38
60 % (uM)	0.38	0.34	0.34	0.36
80 % (uM)	0.30	0.27	0.27	0.29

SUMMARY STATISTICS (uM)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	0.09	2.92	0.54	0.47
LOWER	48	0.10	2.44	0.49	0.42

Figure 5-20. Population estimates for total monomeric aluminum (ALDS16) for the Ozarks/Ouachitas subregion (2D).

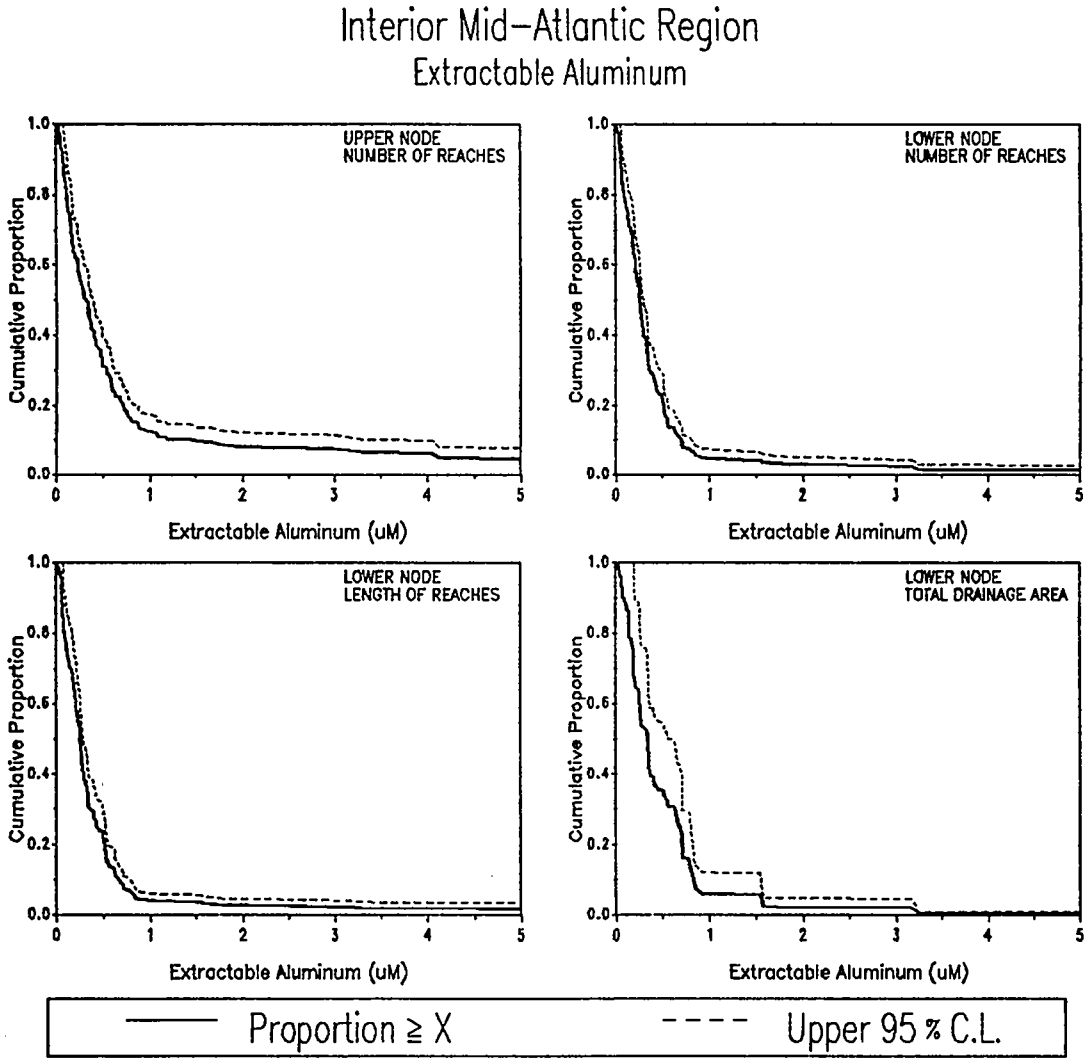


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (uM)	9.26	3.57	2.59	3.44
40 % (uM)	3.44	2.44	1.75	2.08
MEDIAN (uM)	3.23	1.95	1.41	1.56
60 % (uM)	2.70	1.39	0.92	1.04
80 % (uM)	1.09	0.82	0.80	0.80

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	0.52	10.22	4.44	3.52
LOWER	34	0.37	11.79	2.76	2.70

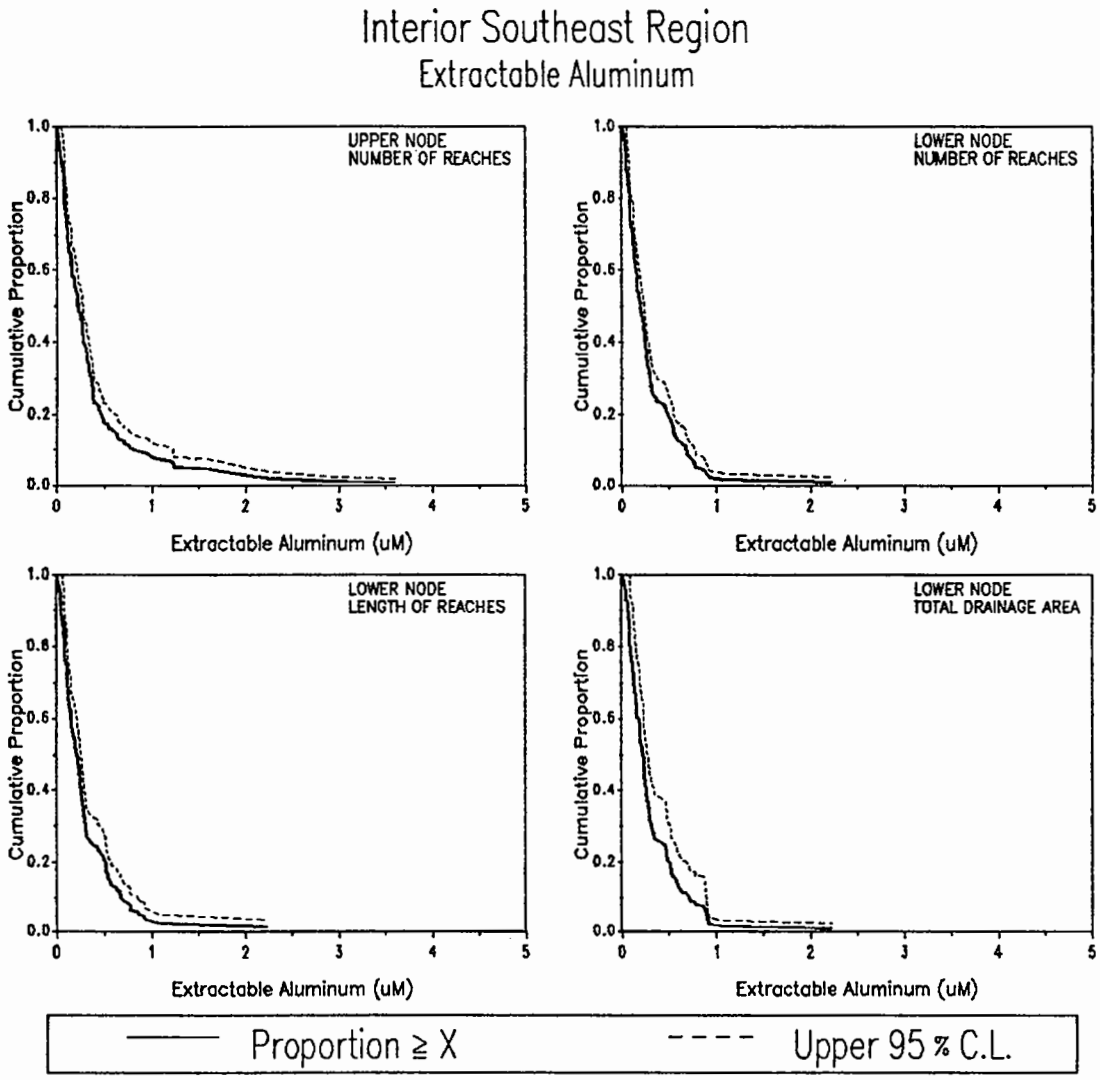
Figure 5-21. Population estimates for total monomeric aluminum (ALDS16) for the Florida subregion (3C).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (uM)	0.69	0.50	0.51	0.69
40 % (uM)	0.38	0.29	0.29	0.35
MEDIAN (uM)	0.31	0.25	0.25	0.34
60 % (uM)	0.22	0.20	0.20	0.25
80 % (uM)	0.10	0.08	0.08	0.14

SUMMARY STATISTICS (uM)					
	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	0.02	16.86	0.93	2.44
LOWER	164	0.00	17.05	0.48	1.45

Figure 5-22. Population estimates for extractable aluminum (ALEX16) for the Mid-Atlantic Region.



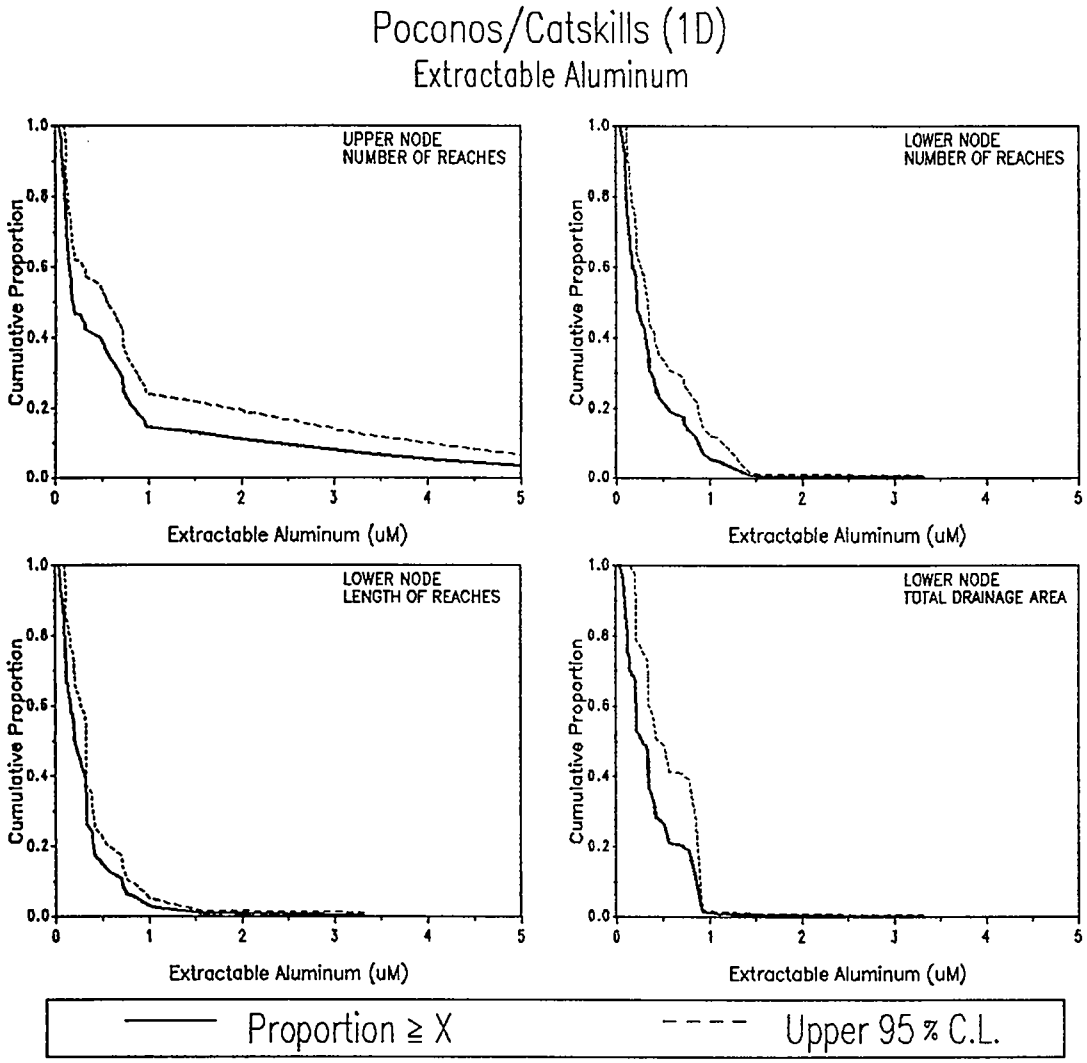
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (uM)	0.44	0.46	0.50	0.48
40 % (uM)	0.27	0.23	0.25	0.24
MEDIAN (uM)	0.22	0.18	0.21	0.22
60 % (uM)	0.15	0.13	0.14	0.16
80 % (uM)	0.07	0.07	0.08	0.08

SUMMARY STATISTICS (uM)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	0.00	3.59	0.36	0.50
LOWER	189	0.00	2.22	0.27	0.30

Figure 5-23. Population estimates for extractable aluminum (ALEX16) for the Southeastern Region.



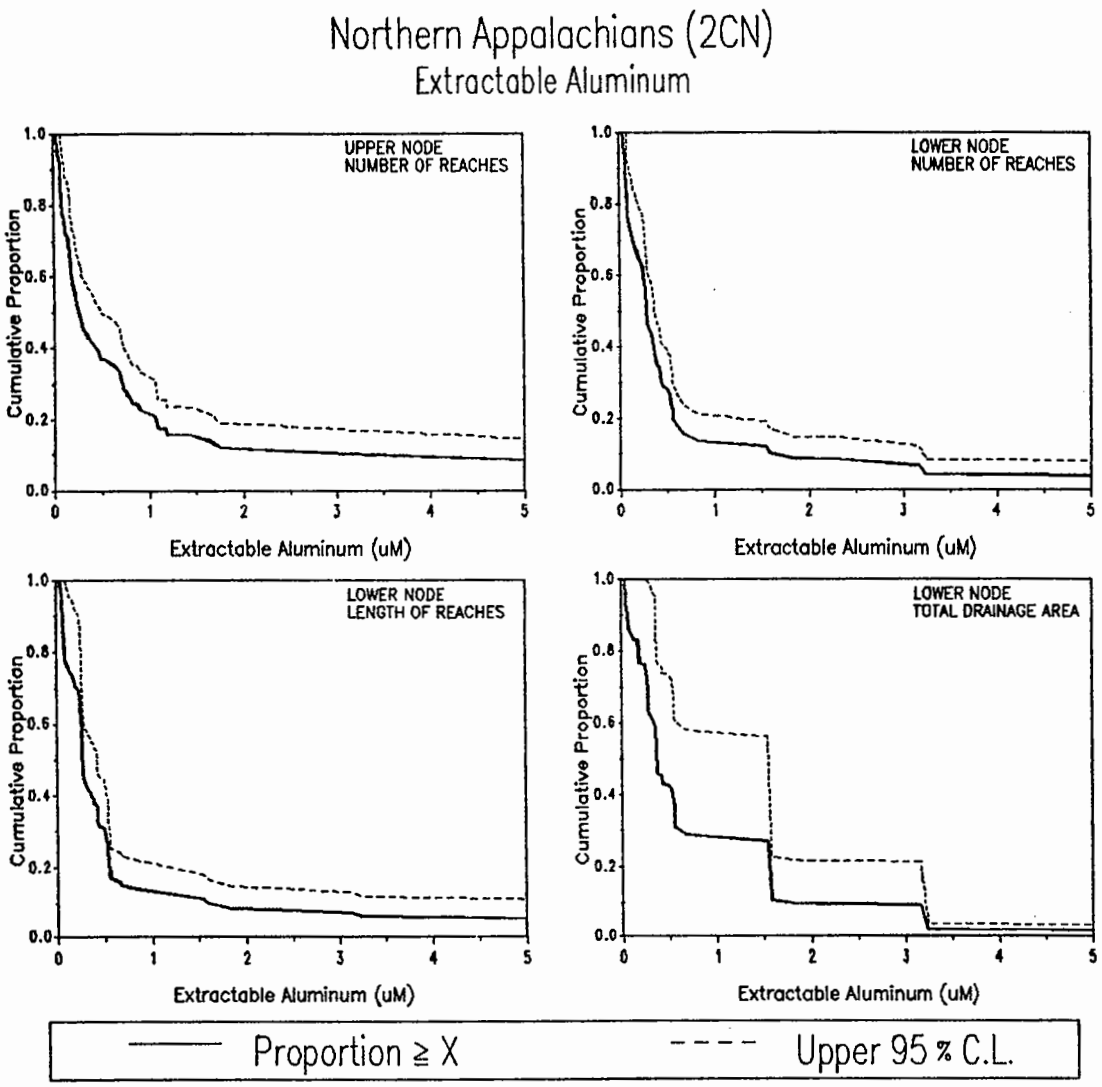
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (uM)	0.77	0.48	0.39	0.64
40 % (uM)	0.35	0.28	0.31	0.33
MEDIAN (uM)	0.17	0.20	0.20	0.25
60 % (uM)	0.14	0.16	0.16	0.19
80 % (uM)	0.09	0.10	0.09	0.11

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	0.03	14.38	0.83	1.89
LOWER	56	0.03	3.32	0.33	0.33

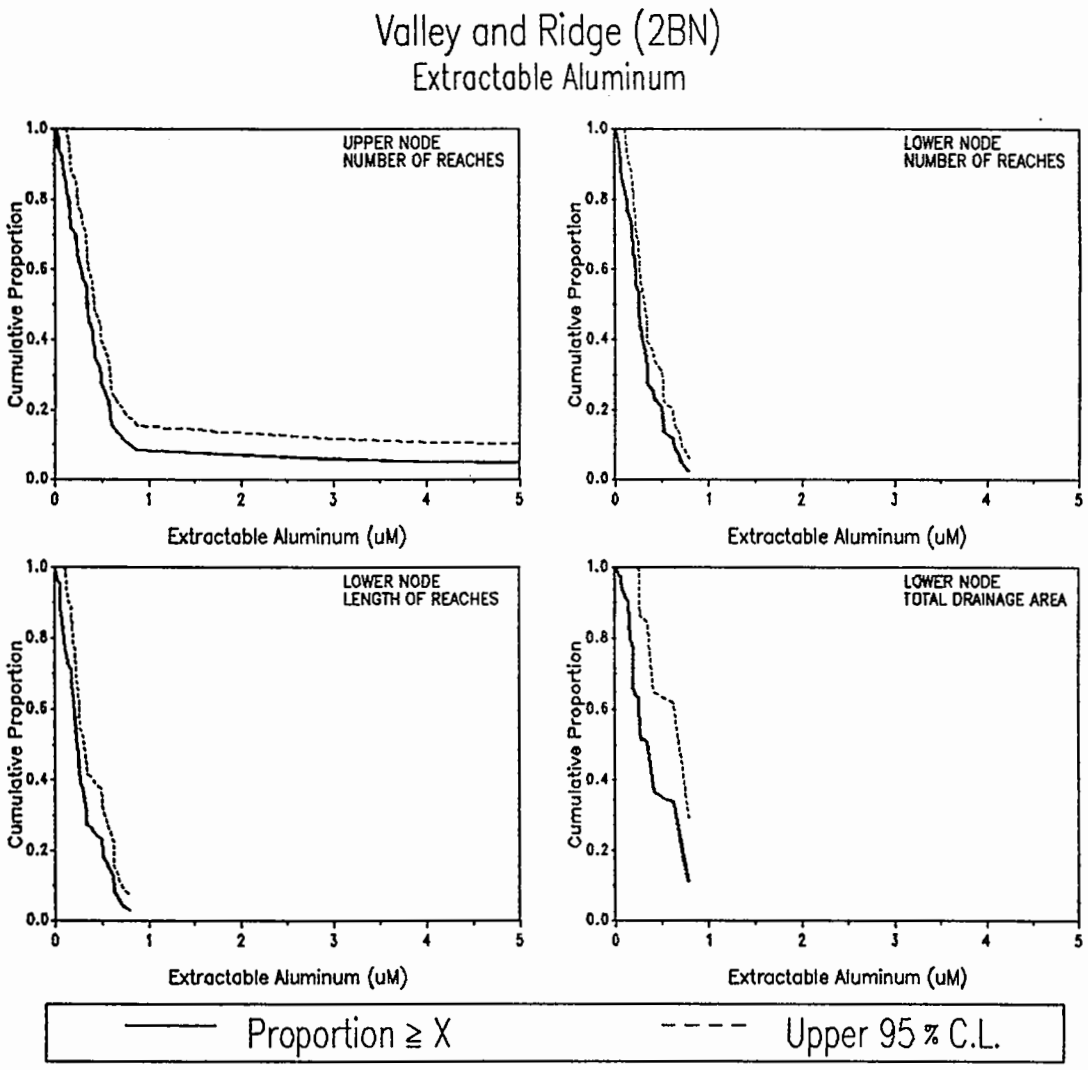
Figure 5-24. Population estimates for extractable aluminum (ALEX16) for the Poconos/Catskills subregion (1D).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (uM)	0.94	0.55	0.54	1.14
40 % (uM)	0.36	0.32	0.34	0.52
MEDIAN (uM)	0.23	0.27	0.27	0.34
60 % (uM)	0.18	0.23	0.25	0.30
80 % (uM)	0.07	0.07	0.08	0.15

	SUMMARY STATISTICS (uM)				
	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	0.02	16.86	1.15	2.69
LOWER	61	0.03	17.05	0.87	2.45

Figure 5-25. Population estimates for extractable aluminum (ALEX16) for the Northern Appalachians subregion (2Cn).



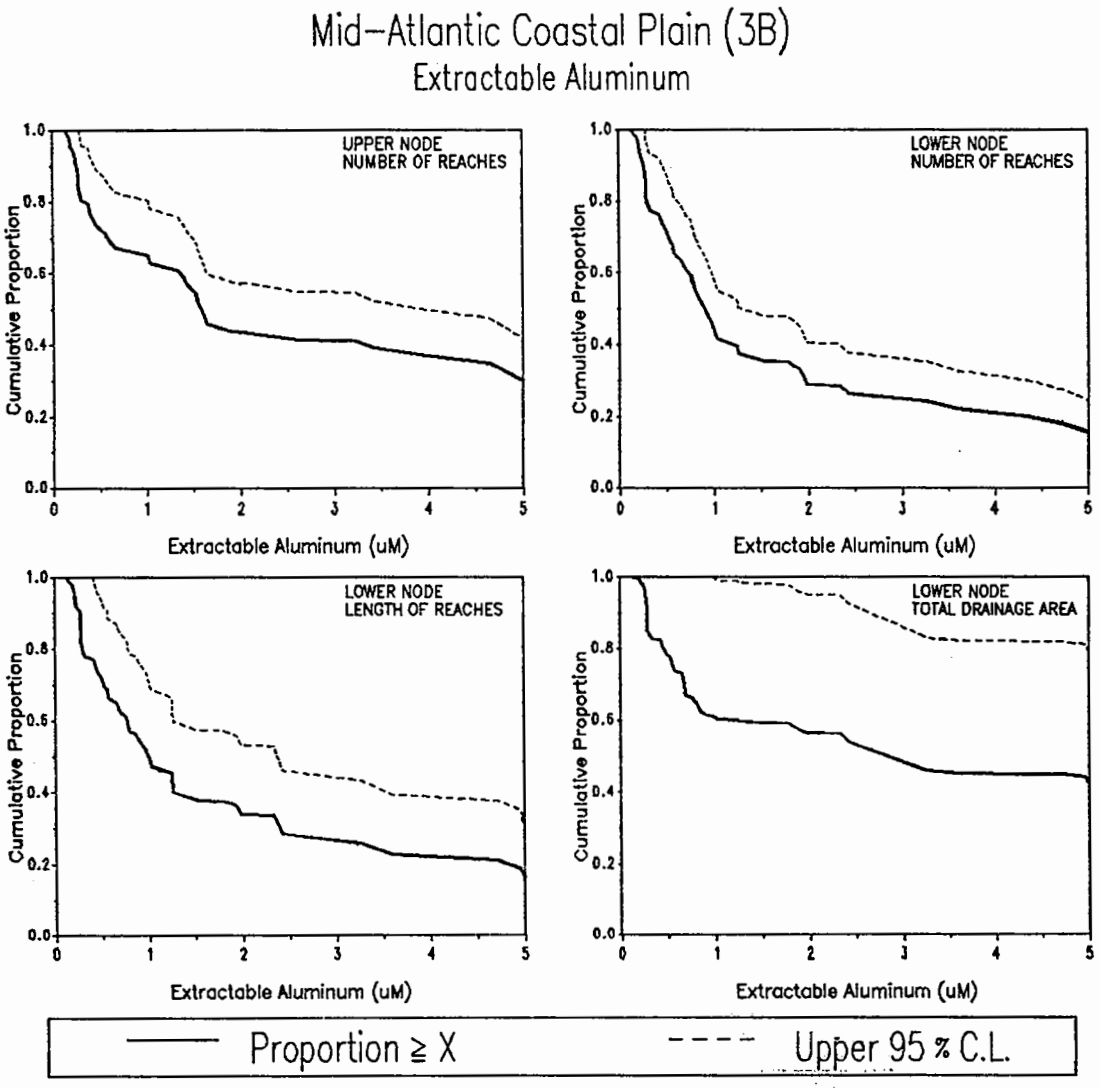
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (uM)	0.56	0.44	0.48	0.68
40 % (uM)	0.39	0.27	0.25	0.34
MEDIAN (uM)	0.33	0.25	0.22	0.34
60 % (uM)	0.24	0.20	0.19	0.25
80 % (uM)	0.12	0.10	0.06	0.14

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	0.02	15.21	0.81	2.37
LOWER	47	0.00	0.78	0.28	0.20

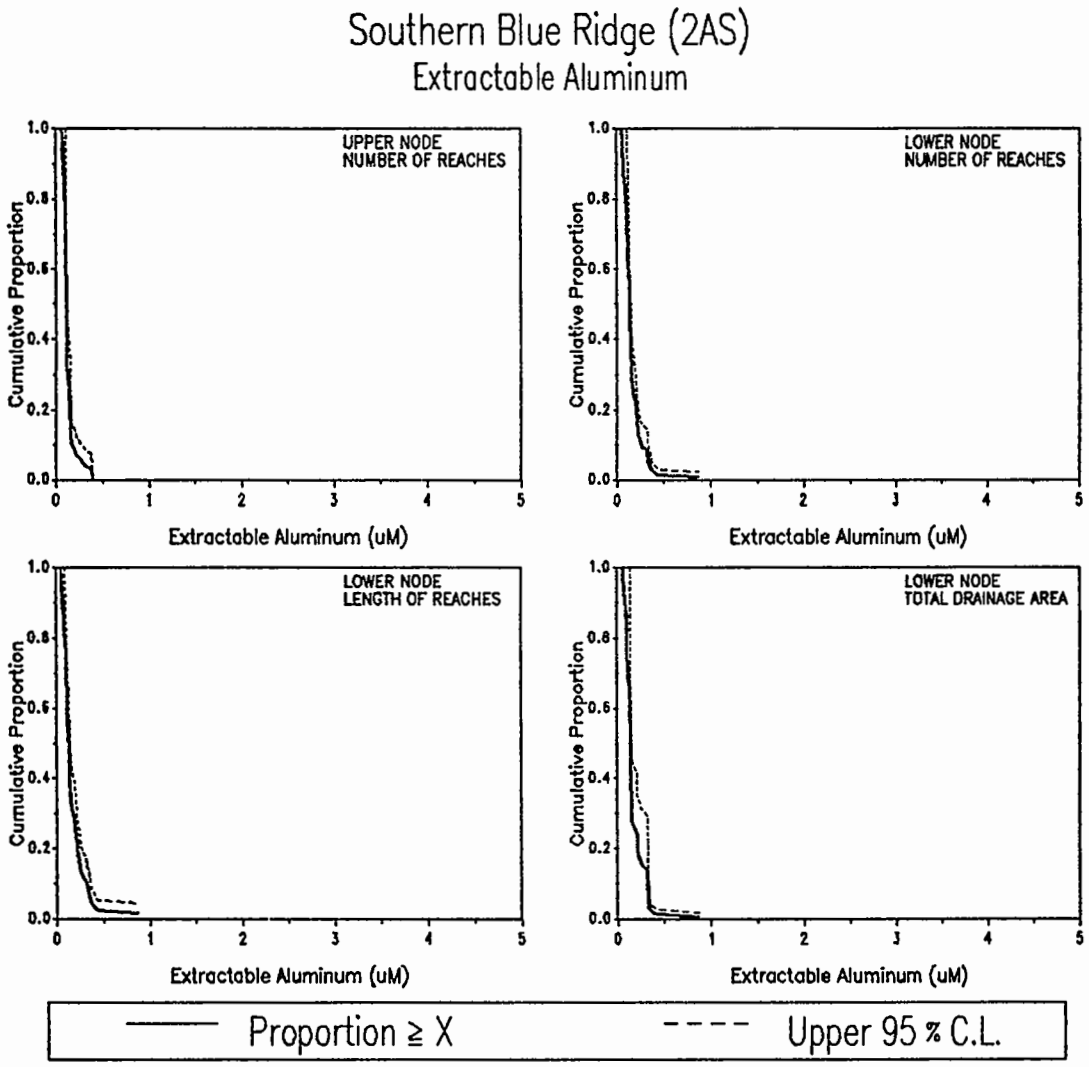
Figure 5-26. Population estimates for extractable aluminum (ALEX16) for the Valley and Ridge subregion (2Bn).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (uM)	6.29	3.63	4.51	6.07
40 % (uM)	3.14	1.02	1.24	4.91
MEDIAN (uM)	1.54	0.86	0.95	2.37
60 % (uM)	1.14	0.68	0.72	1.03
80 % (uM)	0.30	0.28	0.28	0.42

SUMMARY STATISTICS (uM)					
		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	0.13	44.39	3.68	4.58
LOWER	58	0.11	16.06	2.20	2.98

Figure 5-27. Population estimates for extractable aluminum (ALEX16) for the Mid-Atlantic Coastal Plain subregion (3B).



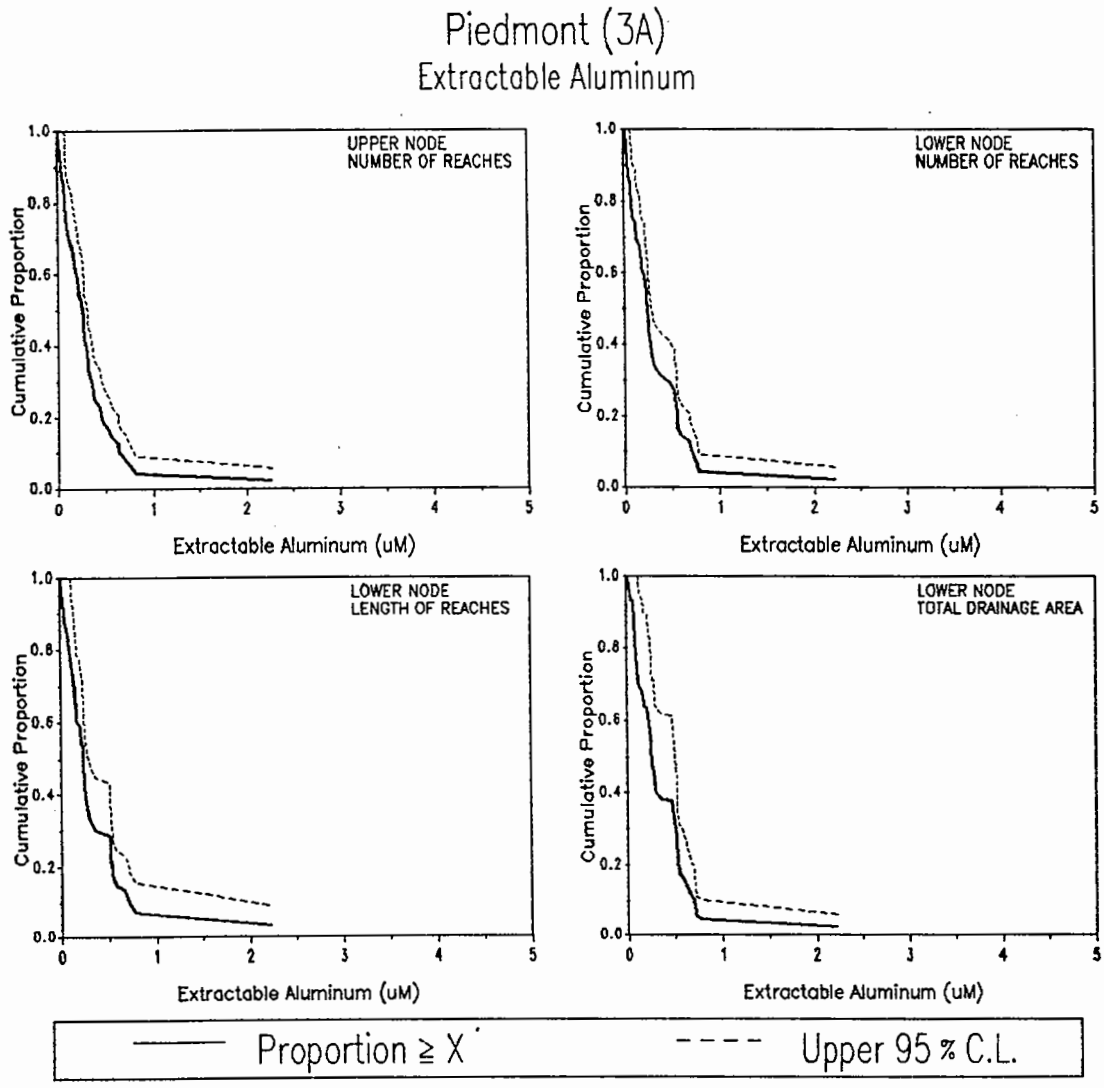
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (uM)	0.14	0.18	0.21	0.20
40 % (uM)	0.10	0.13	0.14	0.14
MEDIAN (uM)	0.10	0.12	0.12	0.13
60 % (uM)	0.10	0.11	0.11	0.13
80 % (uM)	0.08	0.08	0.08	0.10

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	0.04	0.39	0.12	0.06
LOWER	54	0.04	0.86	0.15	0.10

Figure 5-28. Population estimates for extractable aluminum (ALEX16) for the Southern Blue Ridge subregion (2As).

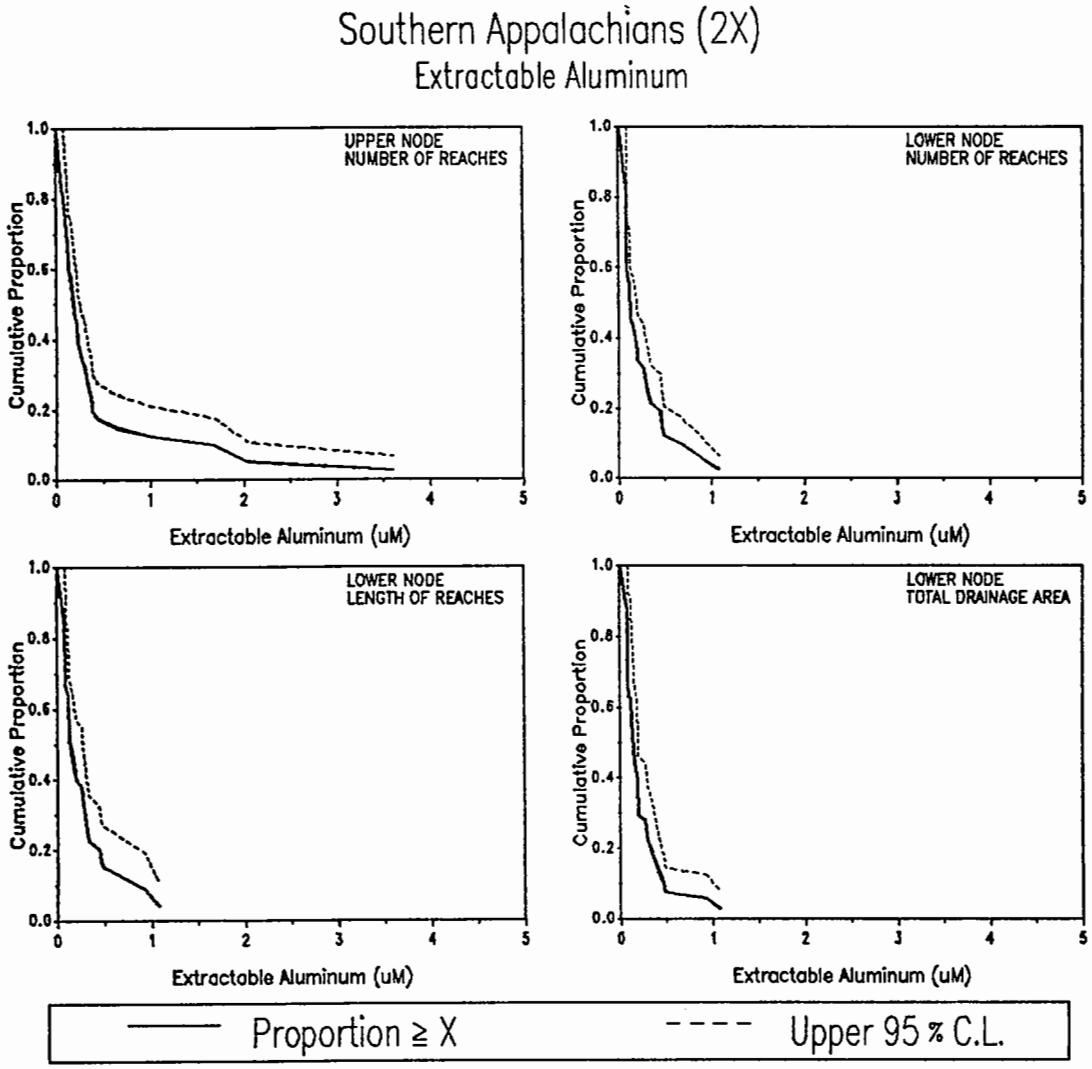


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (uM)	0.44	0.53	0.52	0.51
40 % (uM)	0.27	0.24	0.24	0.28
MEDIAN (uM)	0.24	0.22	0.23	0.24
60 % (uM)	0.18	0.17	0.17	0.21
80 % (uM)	0.06	0.06	0.07	0.06

SUMMARY STATISTICS (uM)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	0.00	2.26	0.31	0.35
LOWER	47	0.00	2.22	0.32	0.36

Figure 5-29. Population estimates for extractable aluminum (ALEX16) for the Piedmont subregion (3A).

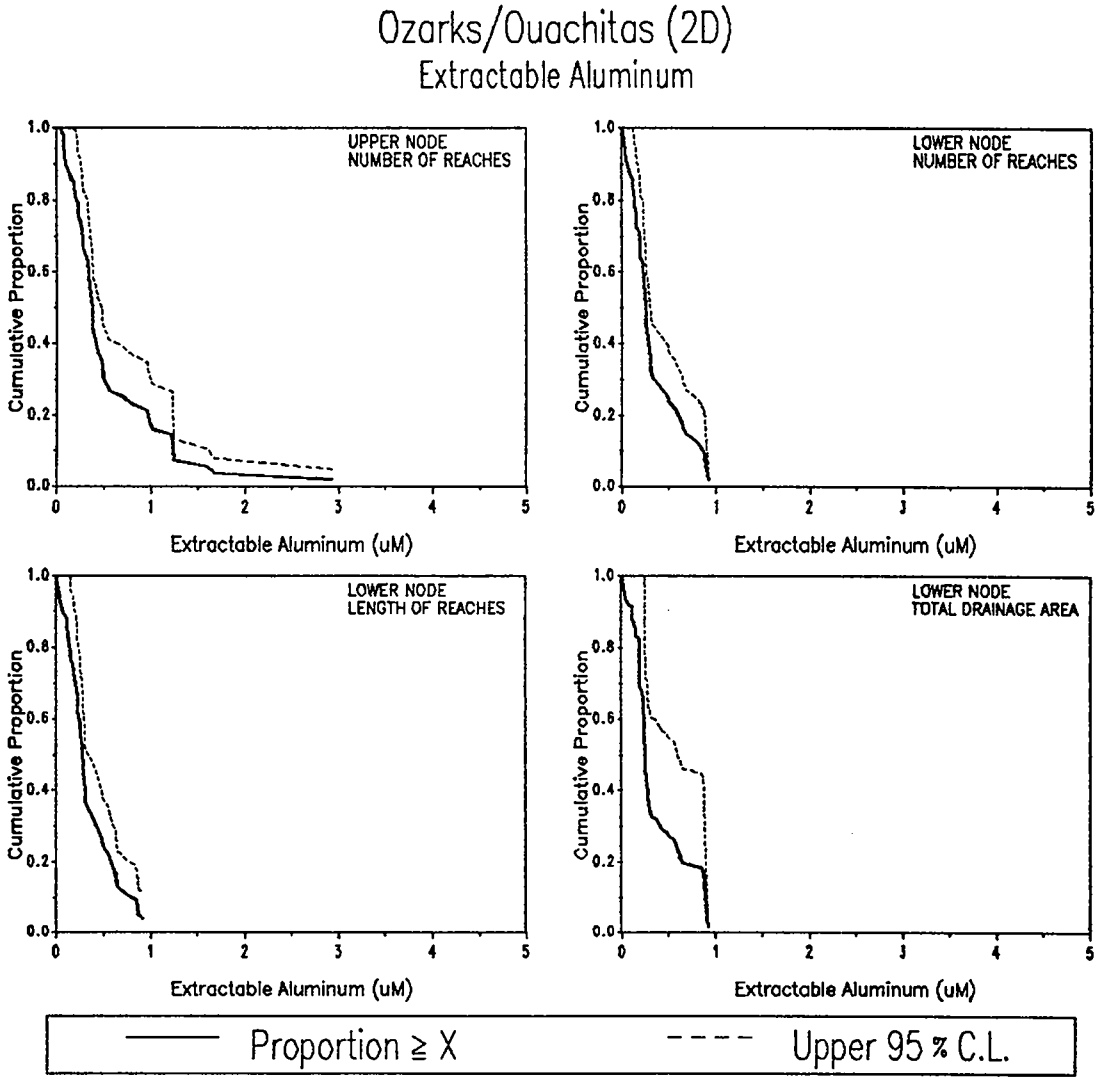


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (uM)	0.37	0.33	0.34	0.30
40 % (uM)	0.21	0.14	0.19	0.14
MEDIAN(uM)	0.14	0.10	0.11	0.11
60 % (uM)	0.12	0.07	0.10	0.10
80 % (uM)	0.06	0.06	0.06	0.06

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	0.00	3.59	0.40	0.68
LOWER	40	0.00	1.07	0.22	0.24

Figure 5-30. Population estimates for extractable aluminum (ALEX16) for the Southern Appalachians subregion (2X).

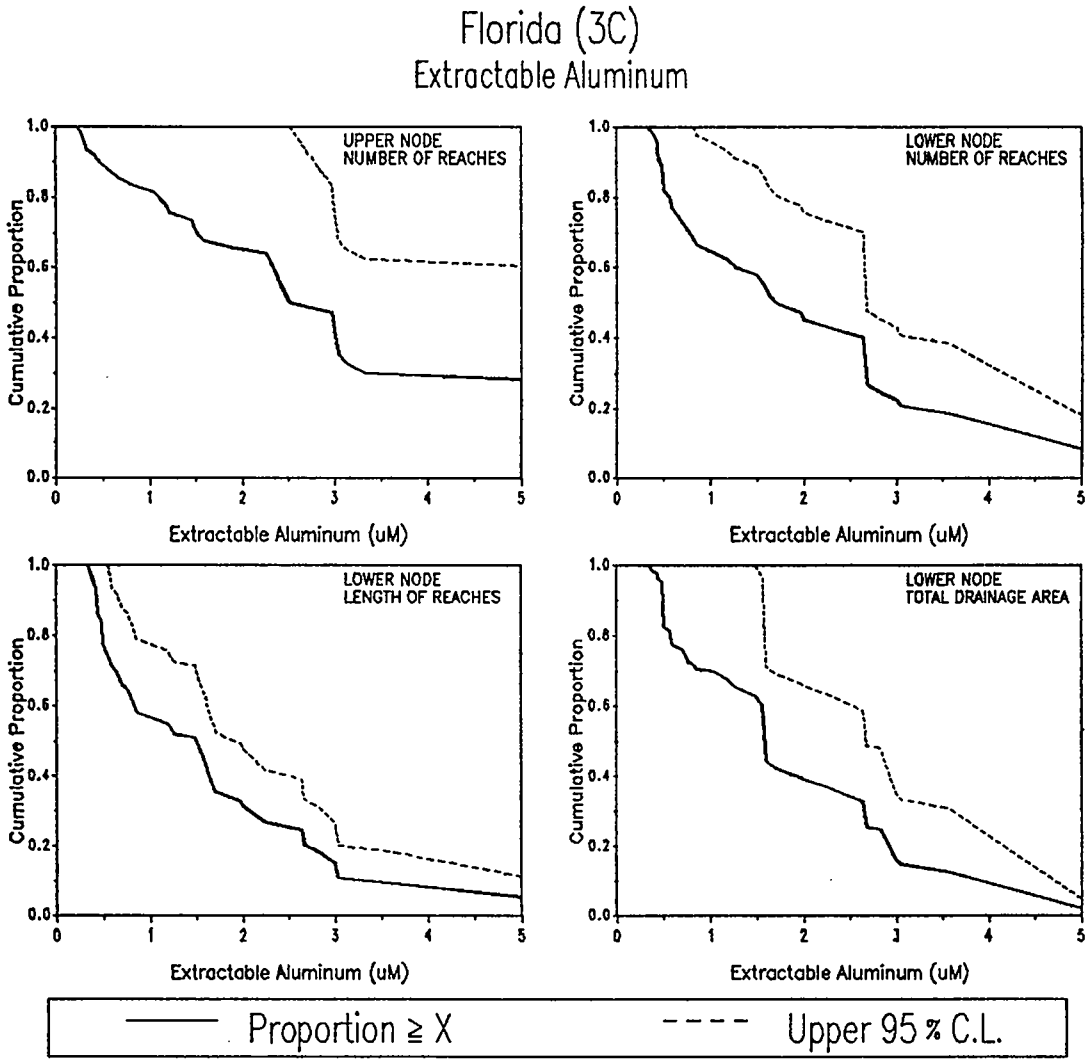


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (uM)	0.90	0.52	0.52	0.62
40 % (uM)	0.39	0.26	0.30	0.26
MEDIAN (uM)	0.36	0.23	0.26	0.23
60 % (uM)	0.32	0.21	0.23	0.22
80 % (uM)	0.19	0.12	0.13	0.18

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	0.04	2.93	0.53	0.51
LOWER	48	0.00	0.92	0.32	0.26

Figure 5-31. Population estimates for extractable aluminum (ALEX16) for the Ozarks/Ouachitas subregion (2D).

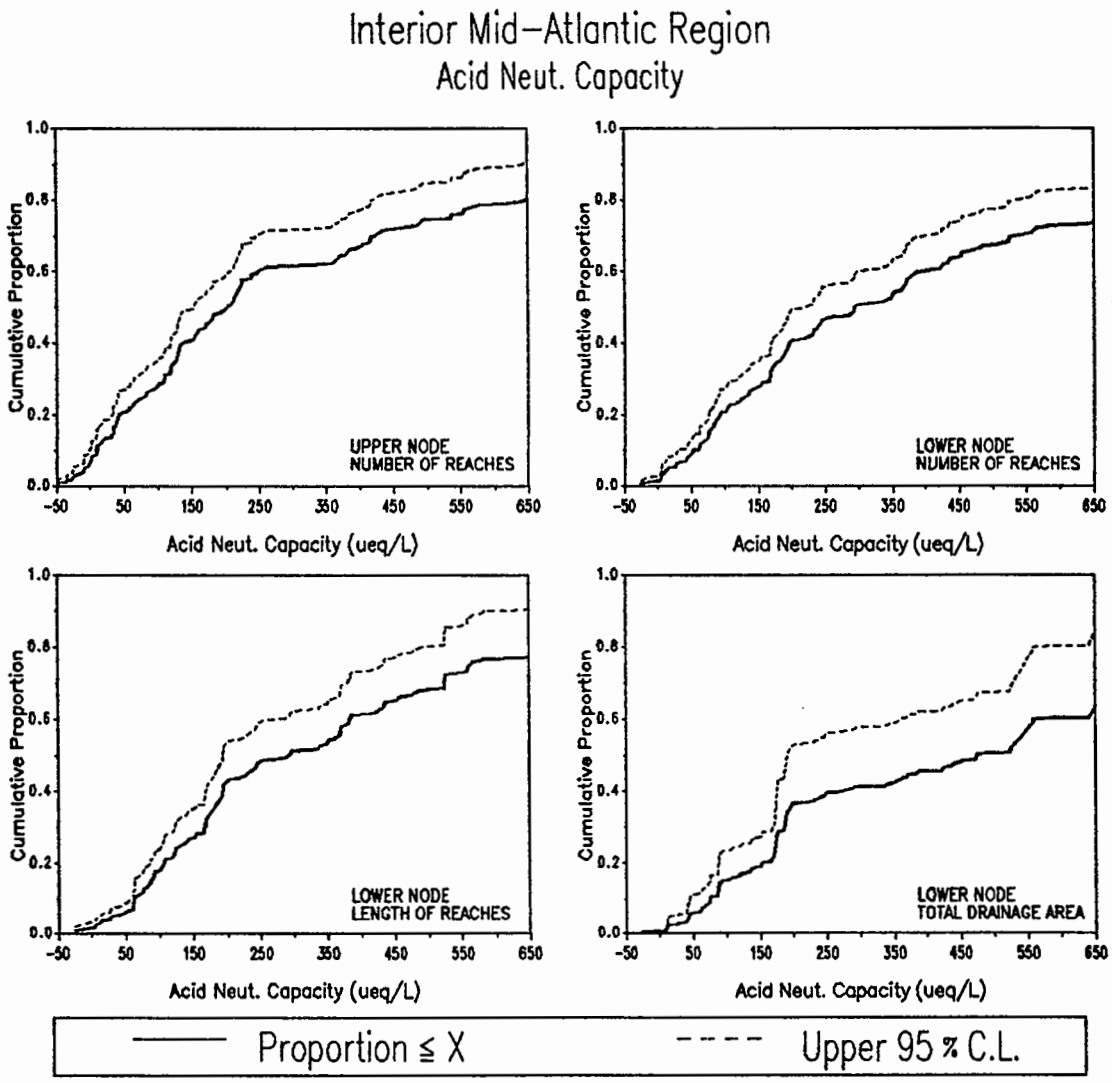


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (uM)	5.95	3.00	2.64	2.75
40 % (uM)	2.79	2.25	1.60	1.70
MEDIAN (uM)	2.26	1.63	1.30	1.53
60 % (uM)	1.97	1.19	0.78	1.48
80 % (uM)	0.89	0.50	0.47	0.52

SUMMARY STATISTICS (uM)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	0.22	6.23	2.98	2.10
LOWER	34	0.33	11.38	2.29	2.45

Figure 5-32. Population estimates for extractable aluminum (ALEX16) for Florida subregion (3C).

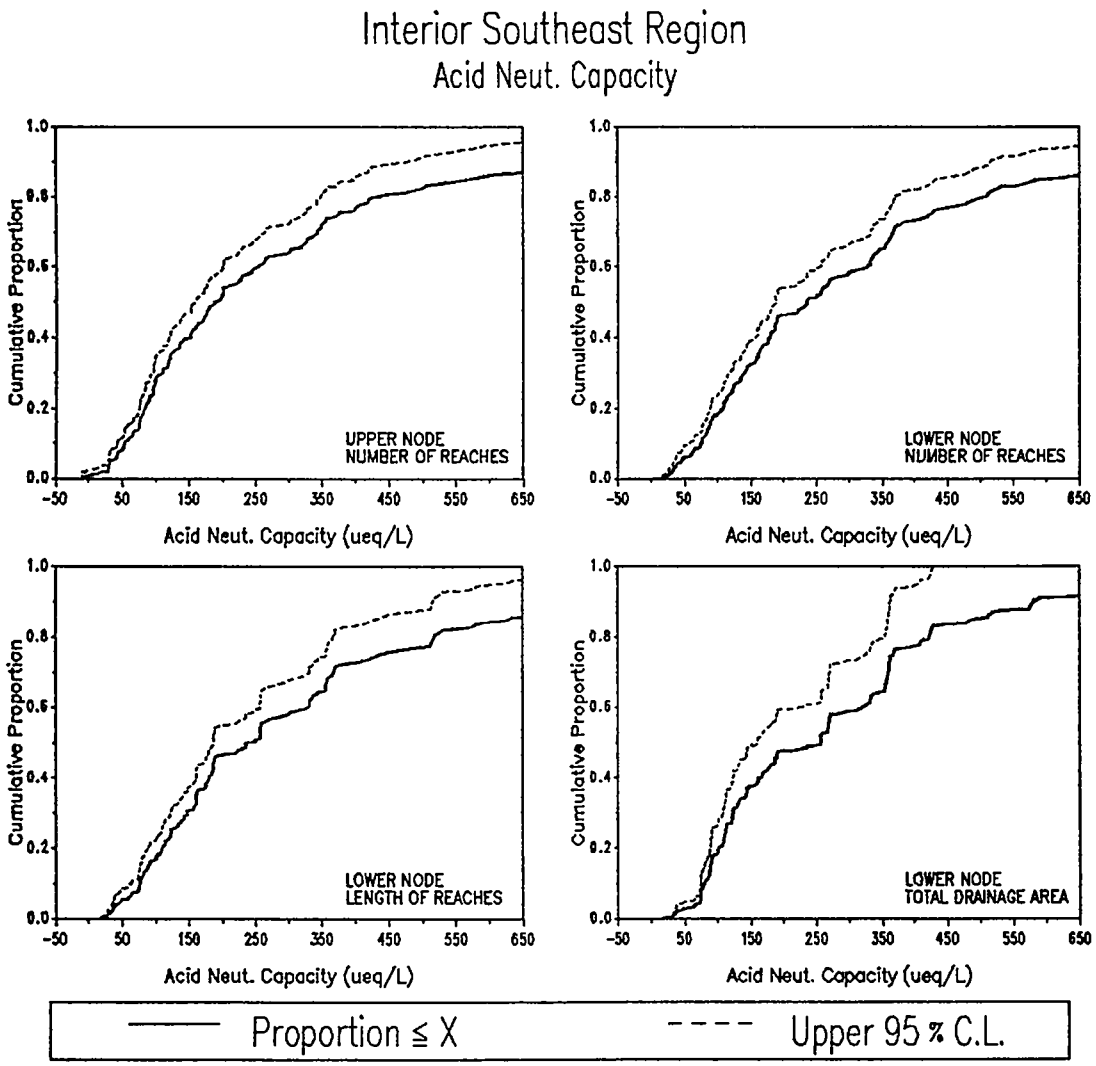


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (ueq/L)	42.15	92.54	106.74	153.34
40 % (ueq/L)	136.04	197.66	193.61	272.64
MEDIAN (ueq/L)	201.28	293.84	292.00	474.55
60 % (ueq/L)	248.04	395.88	383.90	566.63
80 % (ueq/L)	652.11	986.00	809.78	975.52

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	-76.38	4924.80	496.11	798.35
LOWER	164	-26.00	4909.90	615.46	853.67

Figure 5-33. Population estimates for acid neutralizing capacity (ALKA11) for the Mid-Atlantic Region.



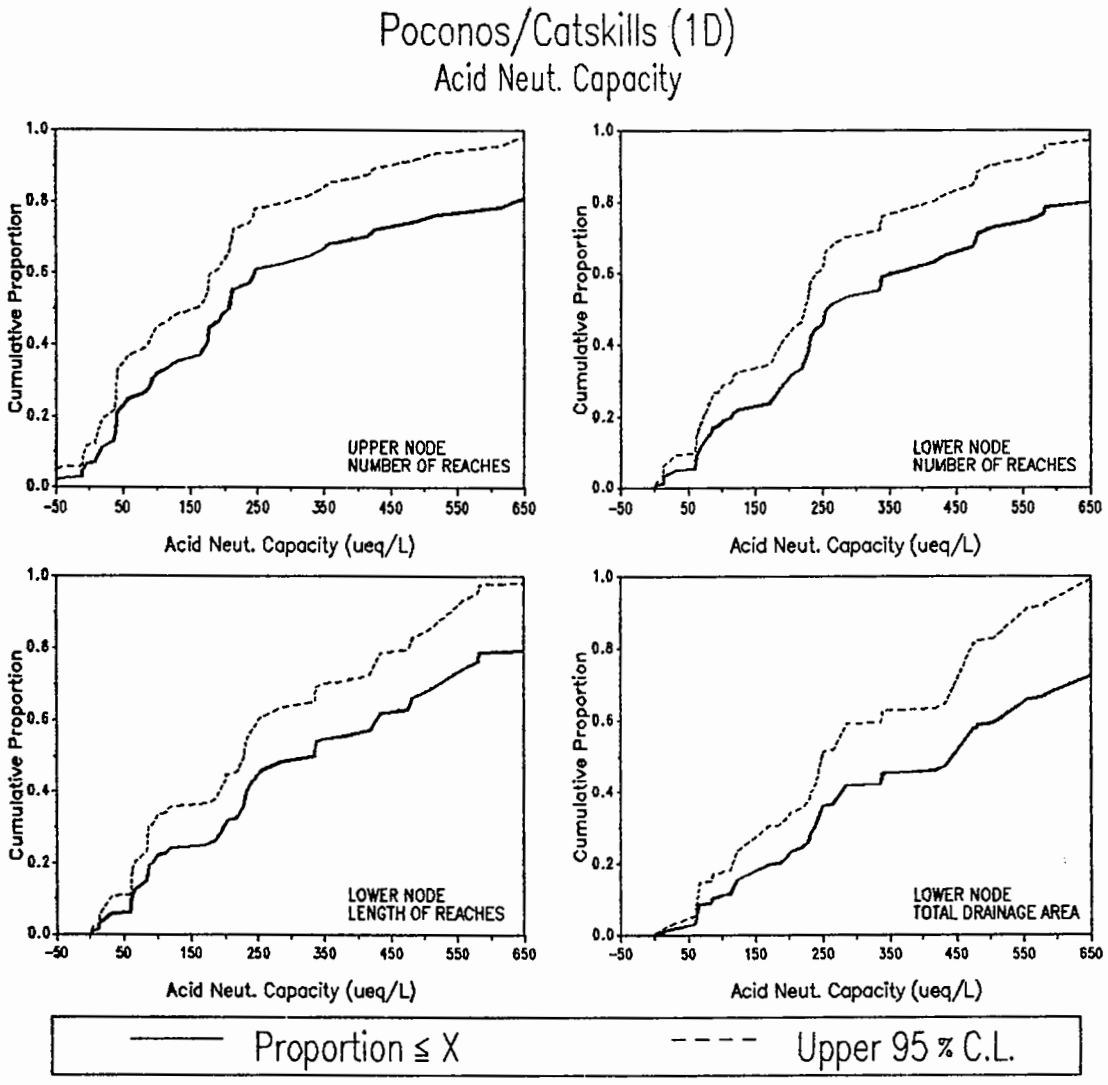
POPULATION ESTIMATES

	UPPER NODE		LOWER NODE	
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (ueq/L)	83.86	107.97	109.32	101.57
40 % (ueq/L)	151.93	179.06	180.03	164.92
MEDIAN (ueq/L)	190.26	235.88	238.39	257.42
60 % (ueq/L)	253.87	326.85	328.07	321.51
80 % (ueq/L)	435.77	508.29	516.46	423.27

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	-9.90	3827.60	394.79	609.81
LOWER	189	16.52	4041.80	479.75	718.09

Figure 5-34. Population estimates for acid neutralizing capacity (ALKA11) for the Southeastern Region.

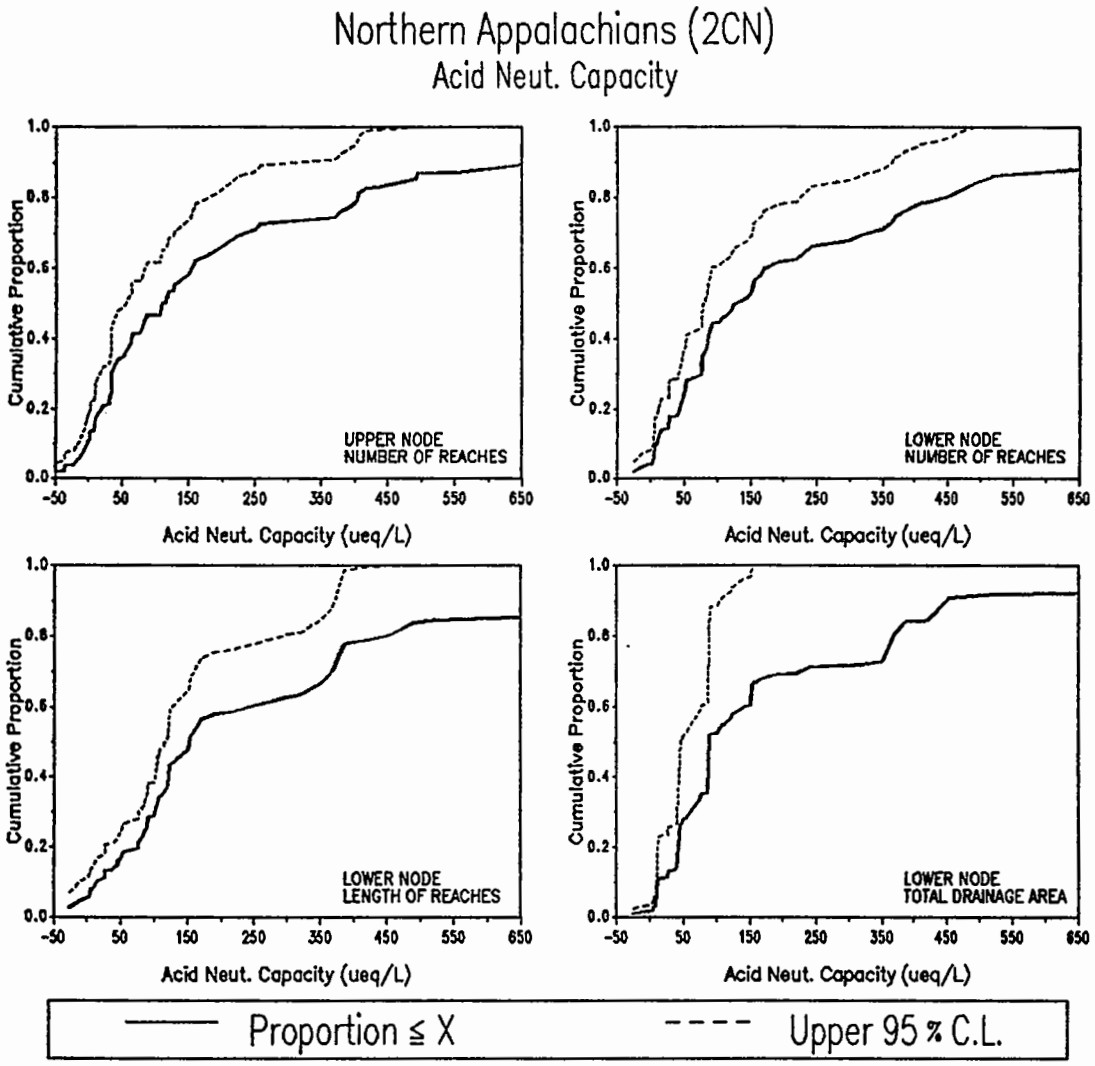


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (ueq/L)	41.28	114.41	93.64	177.46
40 % (ueq/L)	173.69	230.20	232.95	278.75
MEDIAN (ueq/L)	206.94	257.36	335.62	444.64
60 % (ueq/L)	245.03	357.06	427.37	511.30
80 % (ueq/L)	635.01	655.49	714.21	897.89

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	-76.38	4580.65	431.67	697.89
LOWER	56	1.45	4871.45	526.06	747.63

Figure 5-35. Population estimates for acid neutralizing capacity (ALKA11) for the Poconos/Catskills subregion (1D).

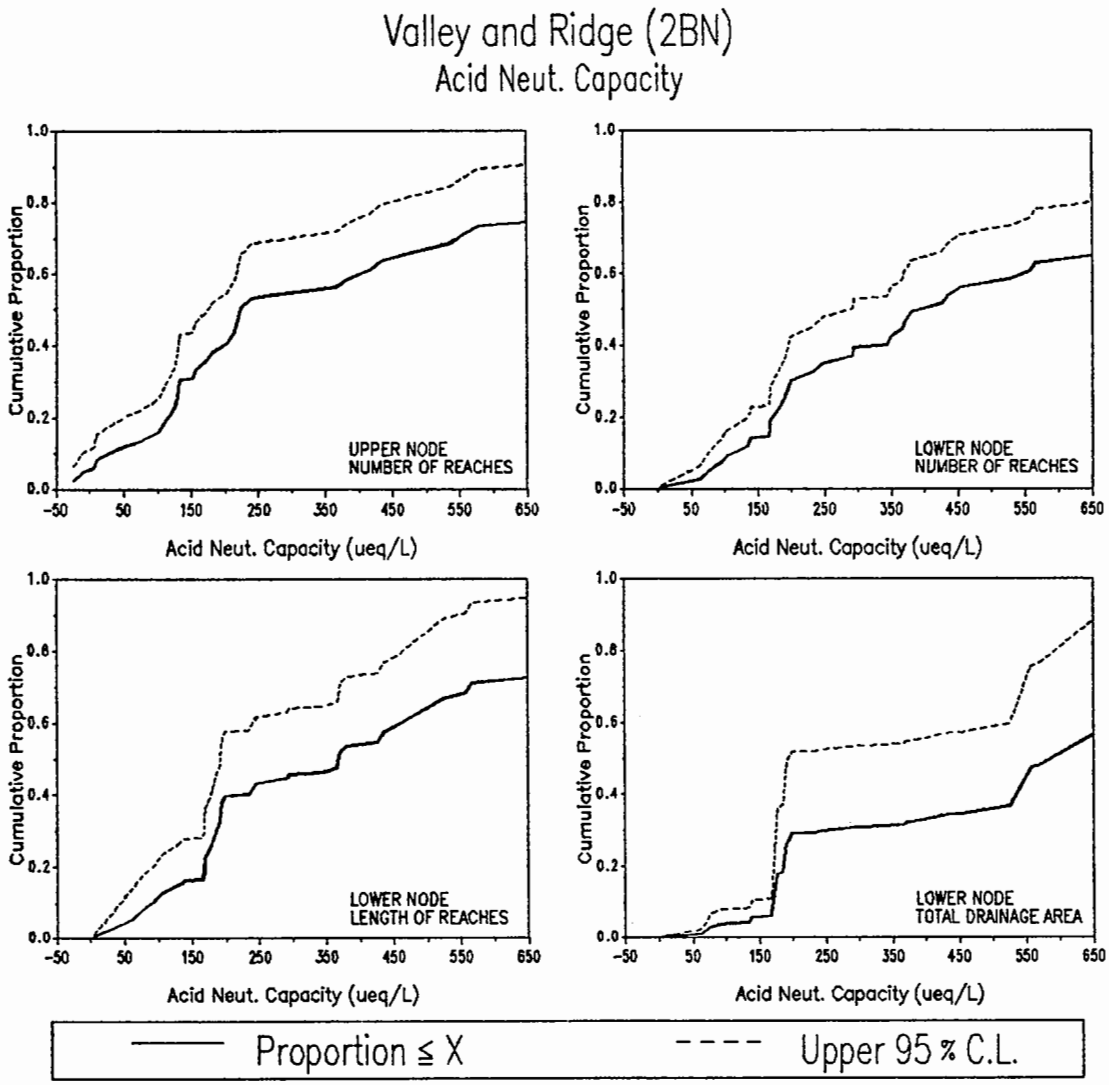


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (ueq/L)	19.62	43.49	76.24	43.10
40 % (ueq/L)	64.40	85.85	122.67	87.60
MEDIAN(ueq/L)	110.46	127.58	154.45	89.38
60 % (ueq/L)	155.09	171.70	243.17	142.67
80 % (ueq/L)	404.34	445.41	447.93	367.69

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	-48.05	2702.35	296.40	519.86
LOWER	61	-26.00	2150.25	312.46	452.50

Figure 5-36. Population estimates for acid neutralizing capacity (ALKA11) for the Northern Appalachians subregion (2Cn).

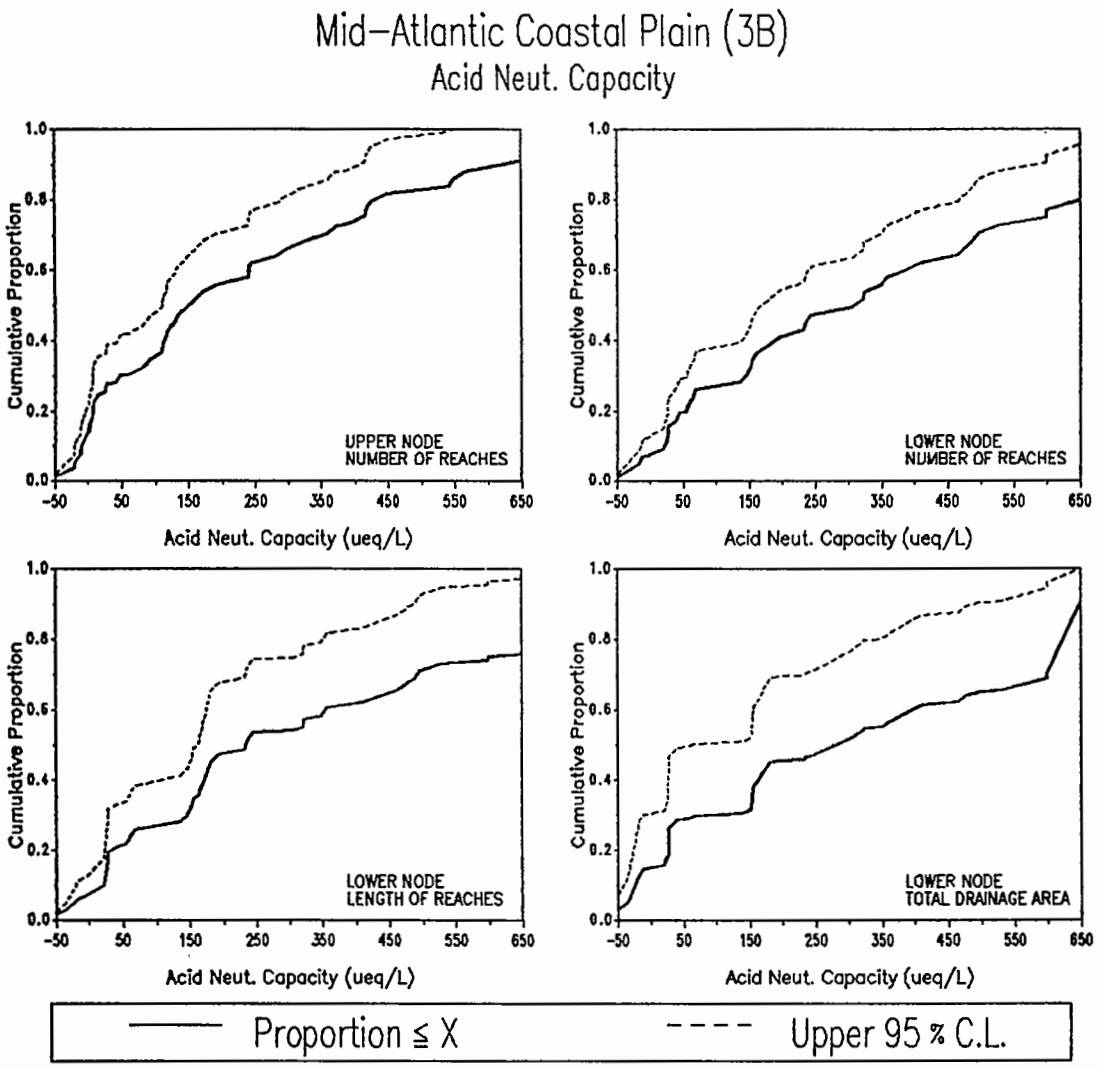


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (ueq/L)	115.78	172.90	168.63	186.97
40 % (ueq/L)	196.25	337.50	220.66	534.90
MEDIAN (ueq/L)	223.39	395.70	368.95	587.53
60 % (ueq/L)	402.54	549.03	461.16	684.27
80 % (ueq/L)	1005.22	1135.11	1051.27	963.22

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	-24.00	4924.80	644.83	932.22
LOWER	47	5.00	4909.90	819.95	993.25

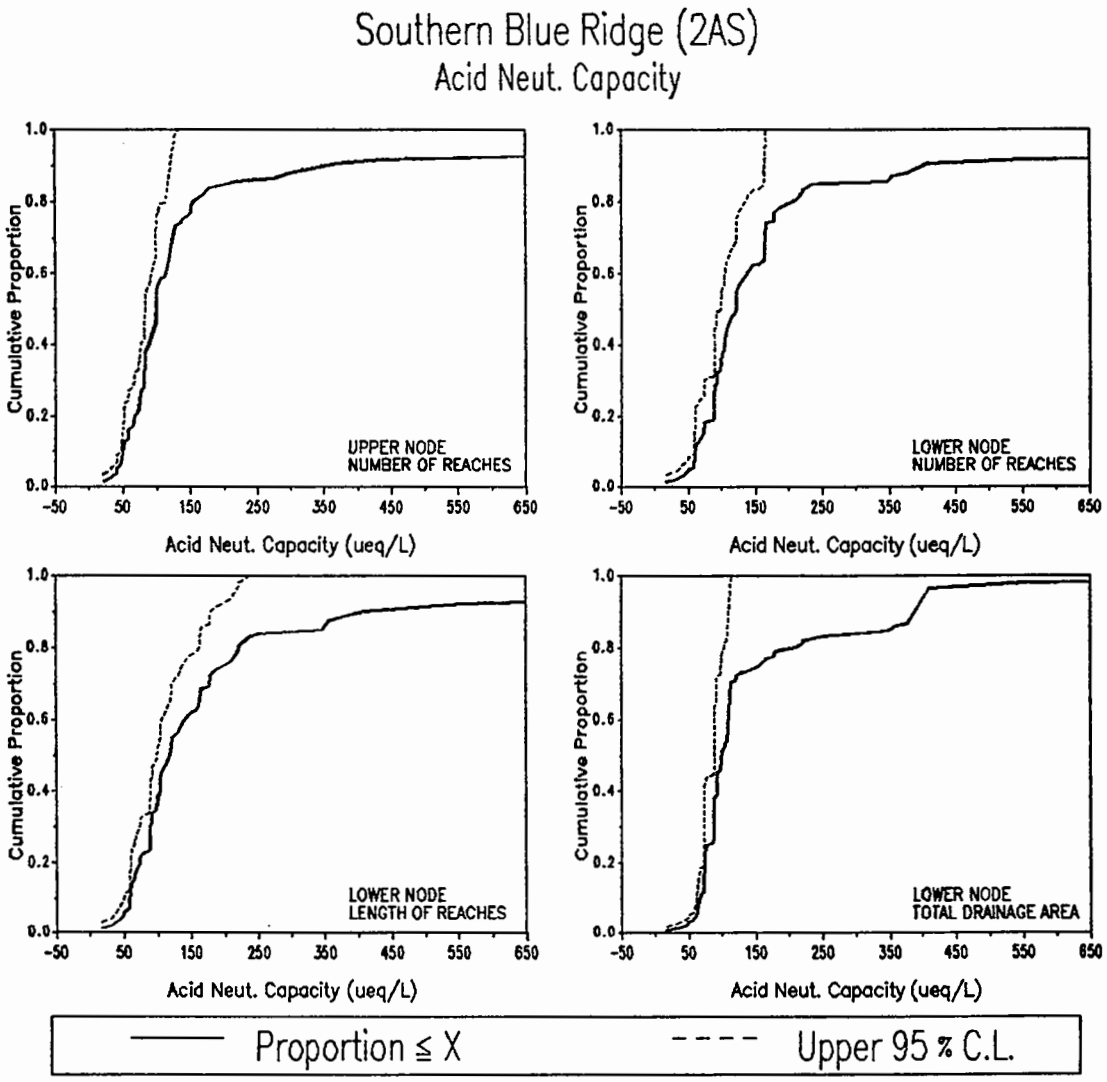
Figure 5-37. Population estimates for acid neutralizing capacity (ALKA11) for the Valley and Ridge subregion (2Bn).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (ueq/L)	6.49	54.44	32.57	27.21
40 % (ueq/L)	114.22	188.57	171.59	163.59
MEDIAN (ueq/L)	150.53	308.72	234.63	281.85
60 % (ueq/L)	240.20	387.59	355.49	395.81
80 % (ueq/L)	431.22	657.63	718.86	623.67

SUMMARY STATISTICS (ueq/L)					
	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	-442.25	1117.10	258.76	282.86
LOWER	58	-181.55	2196.15	452.36	506.00

Figure 5-38. Population estimates for acid neutralizing capacity (ALKA11) for the Mid-Atlantic Coastal Plain subregion (3B).

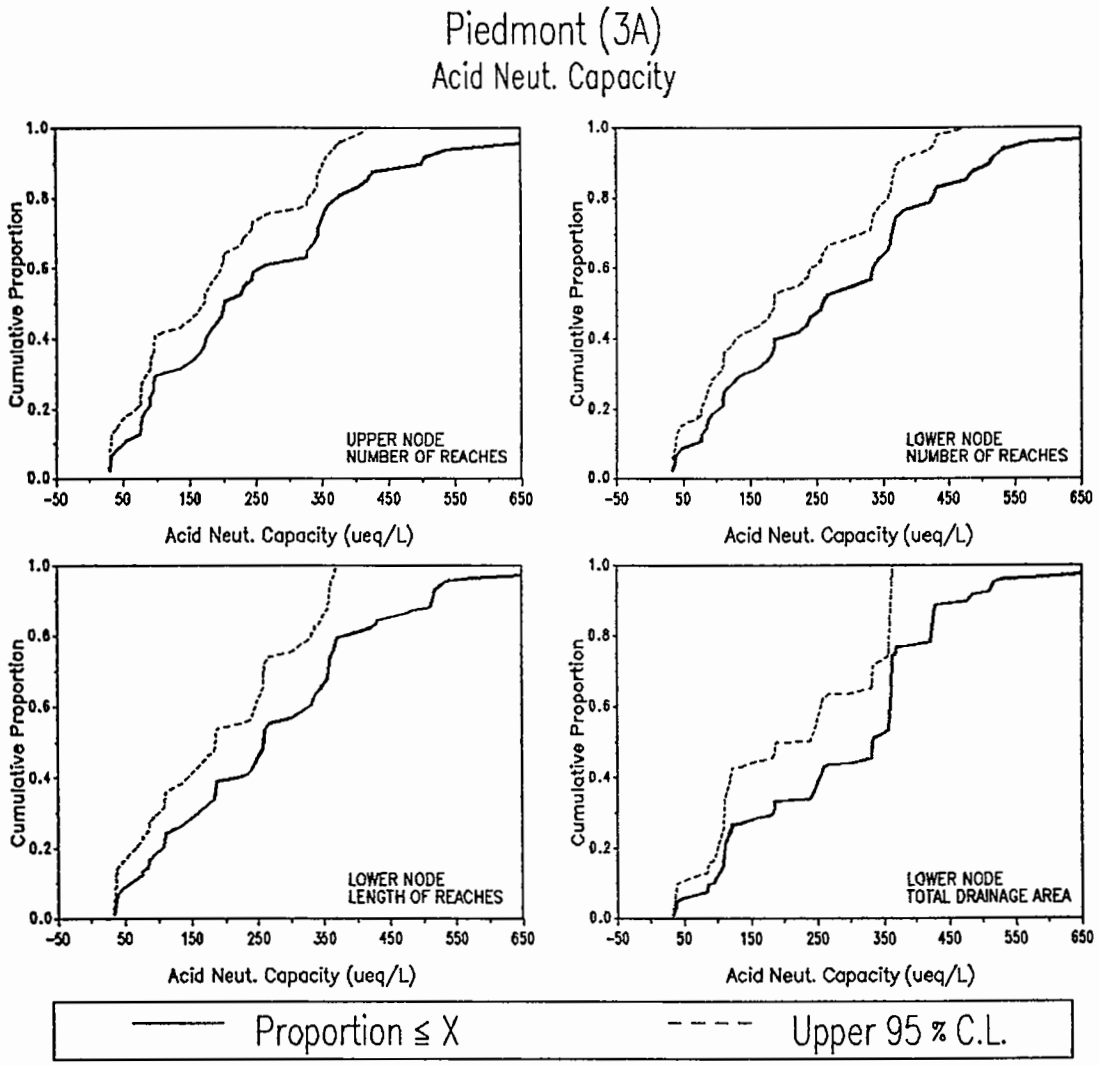


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (ueq/L)	67.67	88.39	73.37	73.65
40 % (ueq/L)	88.48	104.44	104.01	91.93
MEDIAN (ueq/L)	99.64	121.62	118.43	100.26
60 % (ueq/L)	114.29	137.52	141.96	109.70
80 % (ueq/L)	157.12	206.74	221.37	209.02

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	20.88	2227.90	241.25	451.68
LOWER	54	16.52	1730.45	257.18	403.10

Figure 5-39. Population estimates for acid neutralizing capacity (ALKA11) for the Southern Blue Ridge subregion (2As).

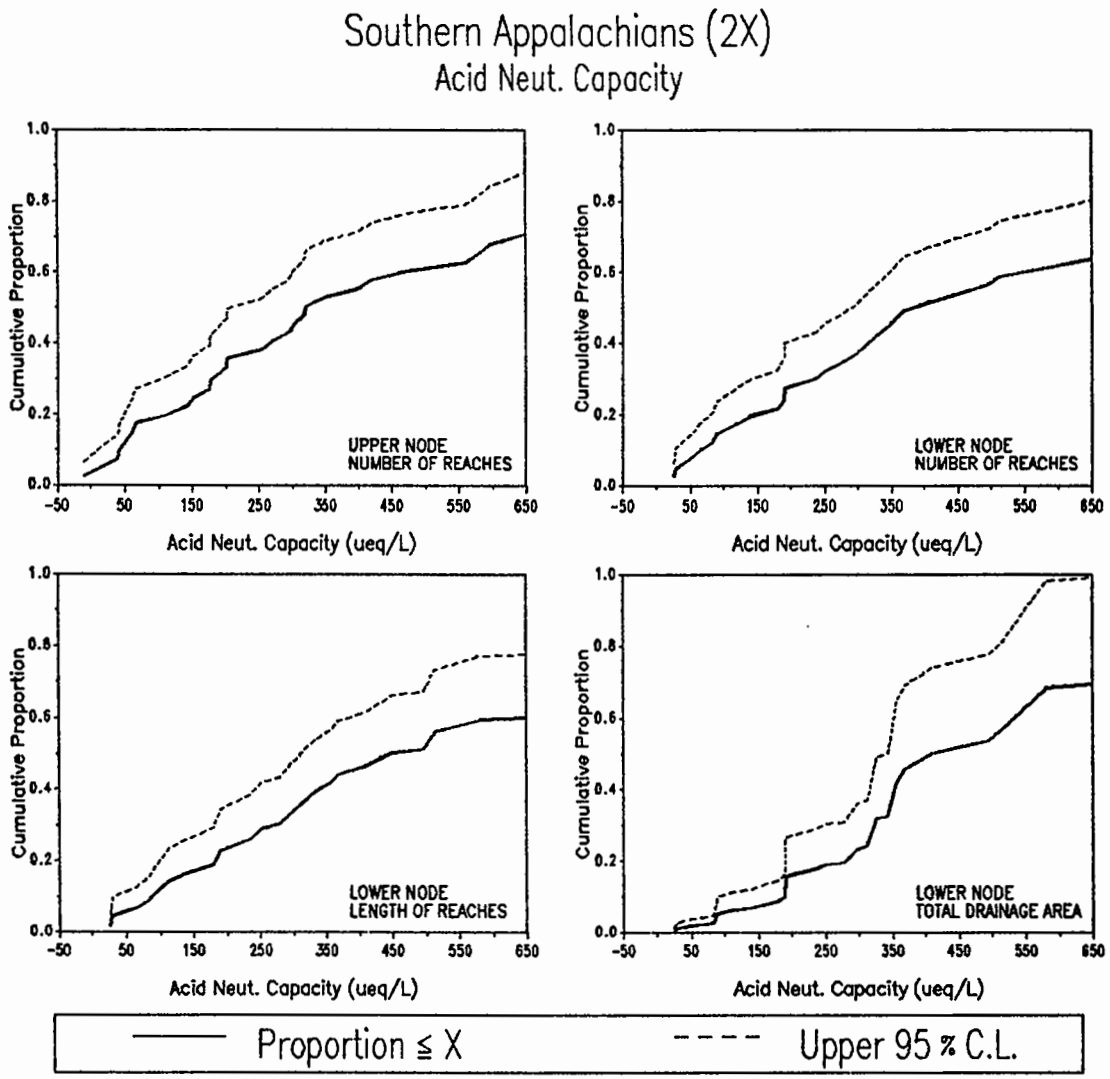


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (ueq/L)	85.98	101.91	106.07	111.20
40 % (ueq/L)	173.02	188.36	217.15	254.55
MEDIAN (ueq/L)	201.39	259.31	258.32	333.37
60 % (ueq/L)	256.13	335.29	328.34	359.10
80 % (ueq/L)	372.14	426.22	382.03	423.20

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	29.70	736.05	256.24	179.63
LOWER	47	33.60	799.90	285.29	183.49

Figure 5-40. Population estimates for acid neutralizing capacity (ALKA11) for the Piedmont subregion (3A).

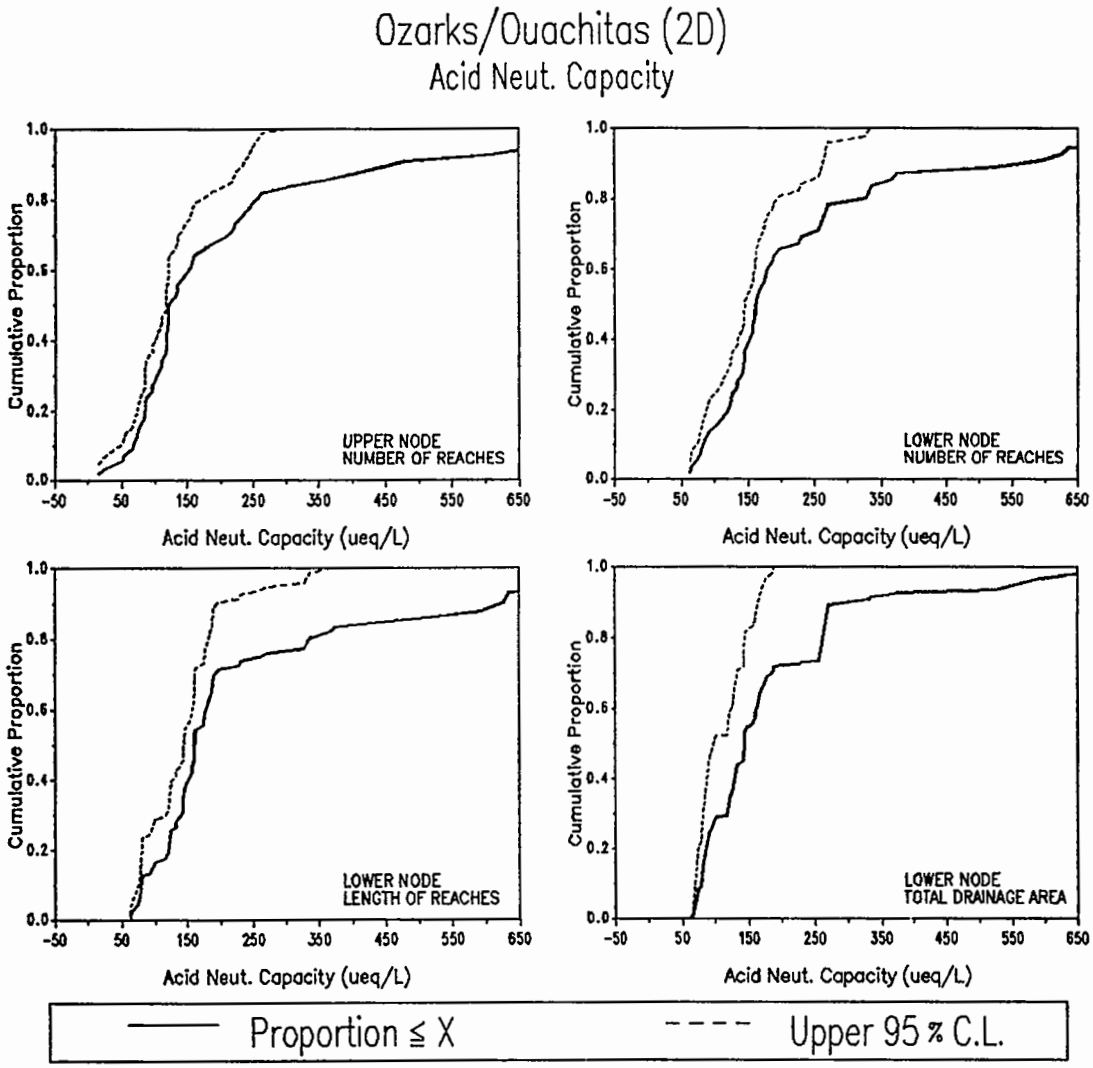


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (ueq/L)	114.79	151.59	183.36	281.13
40 % (ueq/L)	266.80	314.92	339.32	353.49
MEDIAN(ueq/L)	319.53	382.63	447.28	411.23
60 % (ueq/L)	469.04	548.86	656.11	533.75
80 % (ueq/L)	1318.41	2224.41	2138.40	1969.24

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	-9.90	3827.60	795.99	979.52
LOWER	40	26.00	4041.80	1001.77	1119.12

Figure 5-41. Population estimates for acid neutralizing capacity (ALKA11) for the Southern Appalachians subregion (2X).



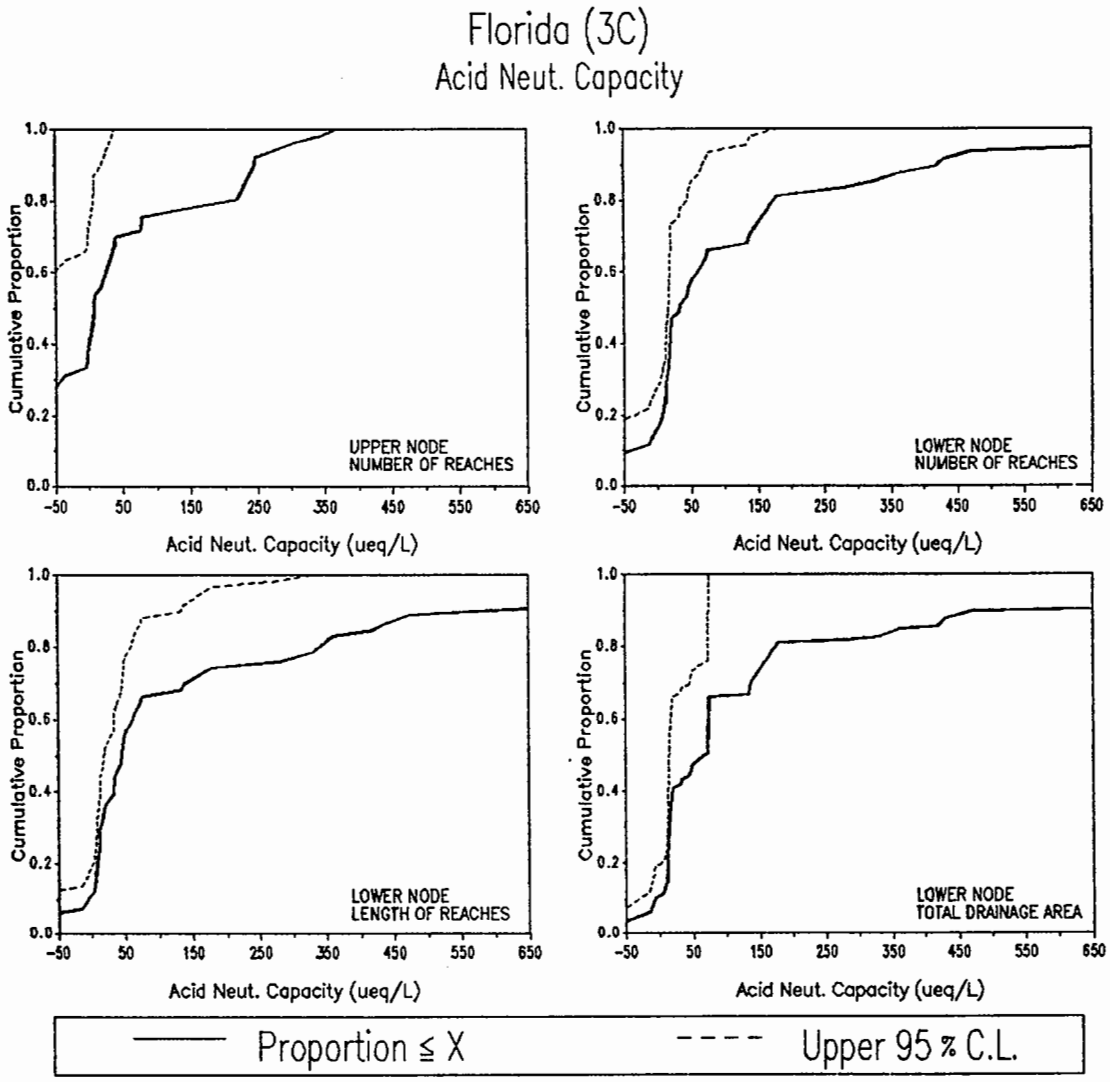
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (ueq/L)	85.17	120.22	122.12	87.10
40 % (ueq/L)	118.06	151.81	151.84	129.65
MEDIAN(ueq/L)	122.61	161.89	161.00	144.11
60 % (ueq/L)	151.87	180.05	178.14	163.02
80 % (ueq/L)	254.66	327.12	335.57	263.03

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	15.20	2089.50	245.61	336.39
LOWER	48	63.20	2987.80	303.24	453.00

Figure 5-42. Population estimates for acid neutralizing capacity (ALKA11) for the Ozarks/Ouachitas subregion (2D).

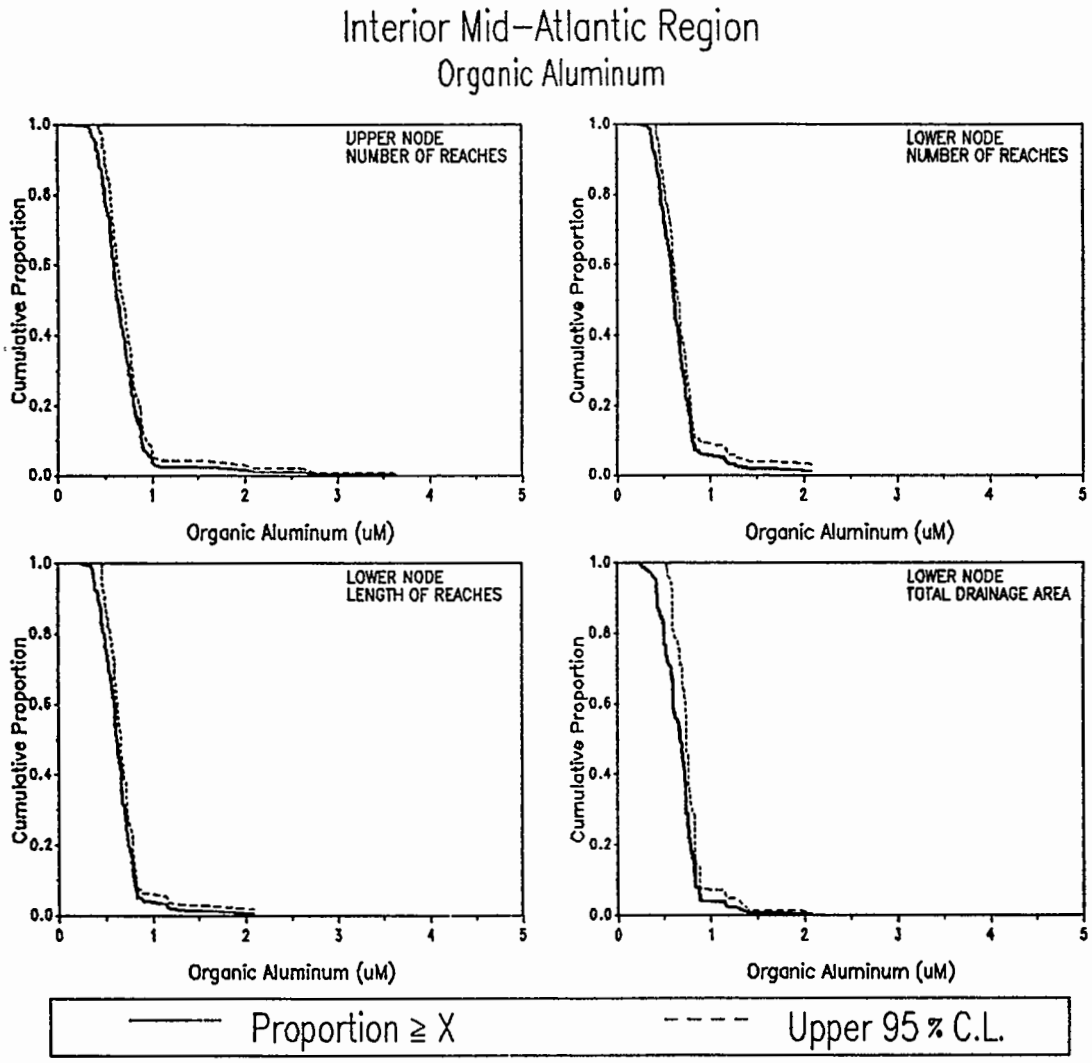


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (ueq/L)	-545.00	7.04	8.01	12.04
40 % (ueq/L)	-0.38	18.11	32.58	19.88
MEDIAN (ueq/L)	7.65	33.17	45.39	69.35
60 % (ueq/L)	25.33	60.49	61.04	74.02
80 % (ueq/L)	206.97	174.07	339.78	174.85

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	-645.20	368.00	-69.28	313.41
LOWER	34	-138.30	1801.10	156.56	323.42

Figure 5-43. Population estimates for acid neutralizing capacity (ALKA11) for Florida subregion (3C).

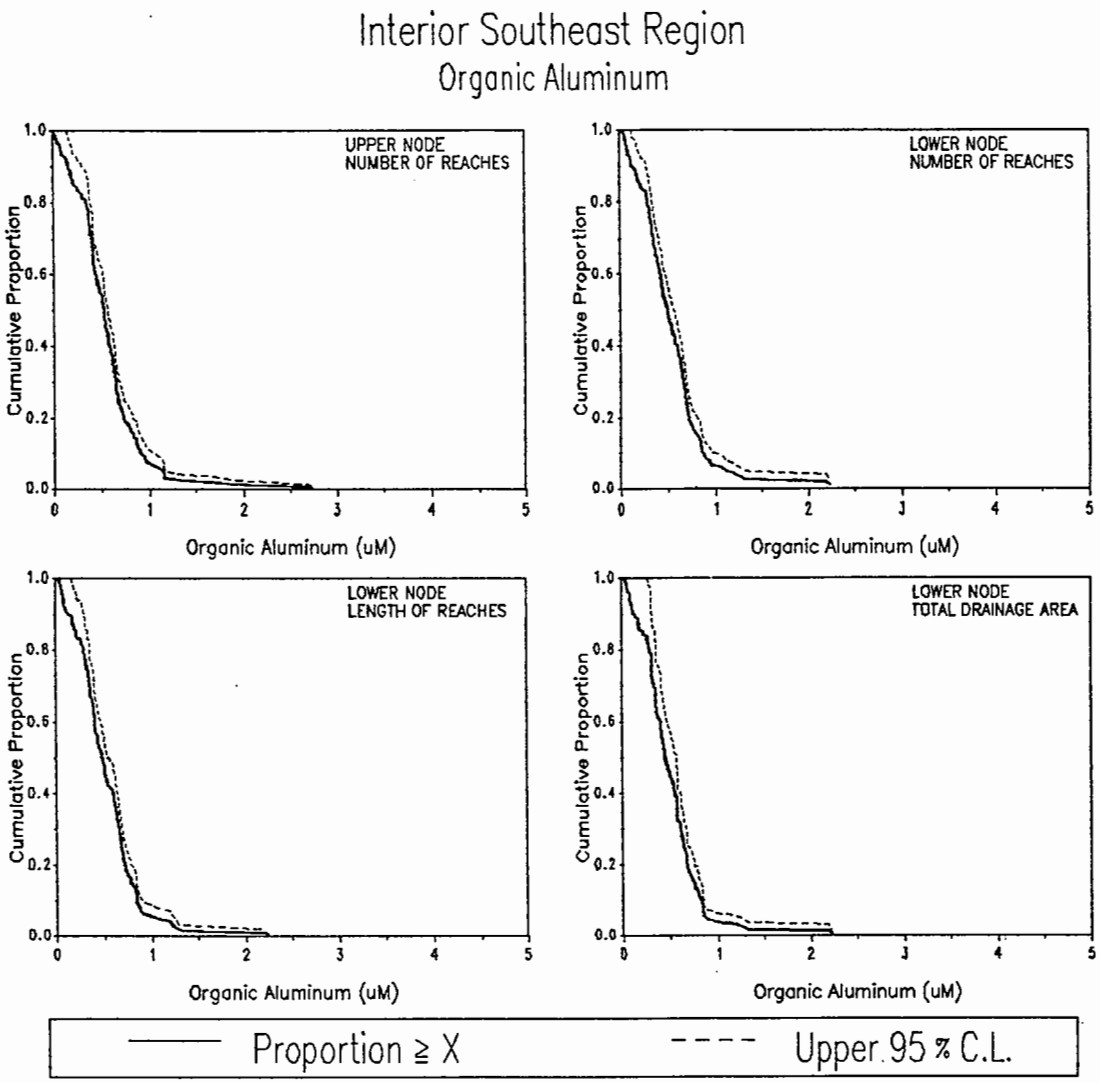


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (uM)	0.80	0.75	0.73	0.77
40 % (uM)	0.69	0.66	0.66	0.72
MEDIAN (uM)	0.62	0.61	0.61	0.67
60 % (uM)	0.59	0.58	0.59	0.60
80 % (uM)	0.49	0.47	0.47	0.50

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	0.18	3.64	0.68	0.31
LOWER	164	0.23	2.08	0.64	0.25

Figure 5-44. Population estimates for organic aluminum (ALOR16) for the Mid-Atlantic Region.



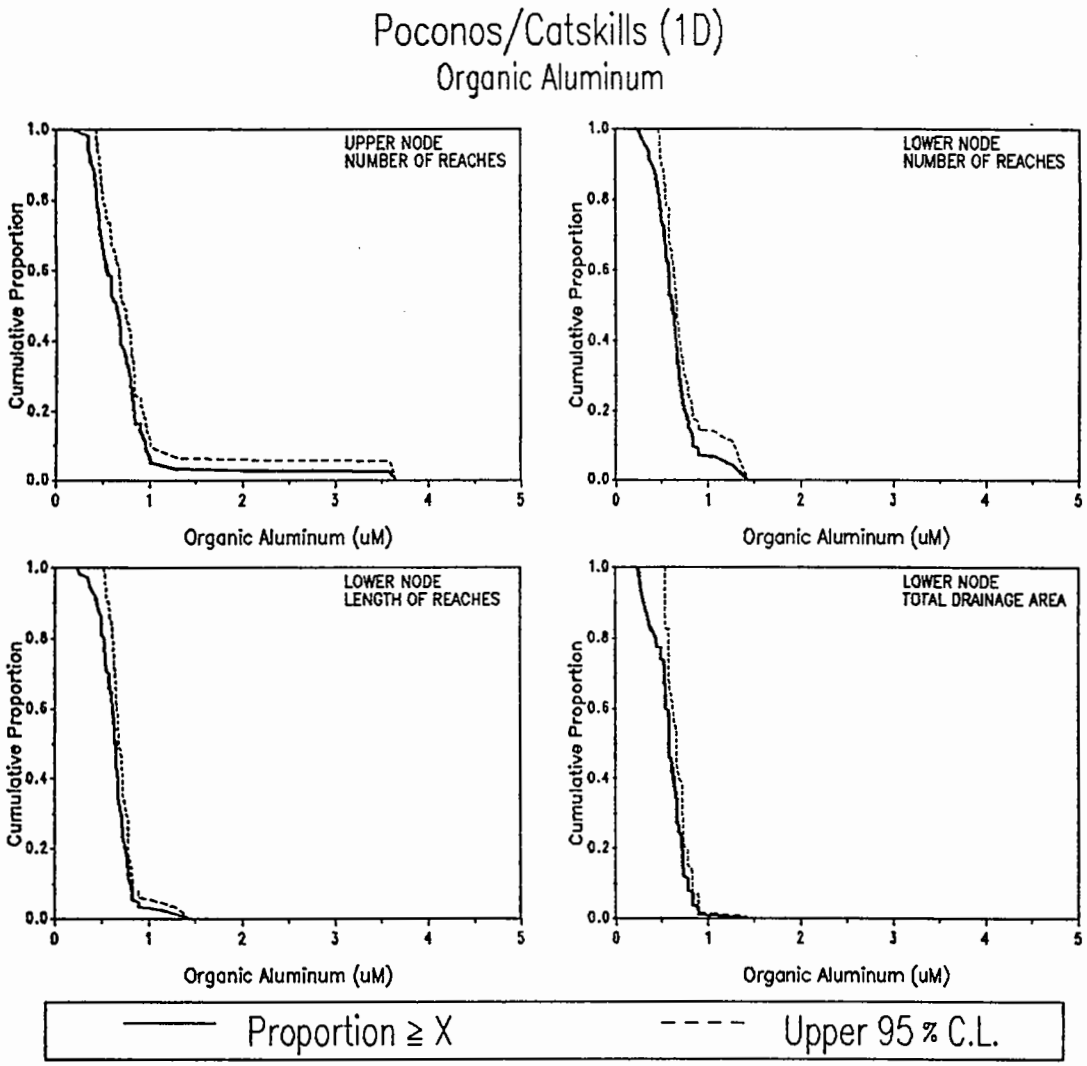
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (uM)	0.73	0.70	0.71	0.66
40 % (uM)	0.58	0.57	0.59	0.53
MEDIAN (uM)	0.52	0.48	0.47	0.44
60 % (uM)	0.43	0.41	0.40	0.40
80 % (uM)	0.33	0.29	0.29	0.29

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	0.00	2.73	0.54	0.34
LOWER	189	0.02	2.23	0.53	0.35

Figure 5-45. Population estimates for organic aluminum (ALOR16) for the Southeastern Region.

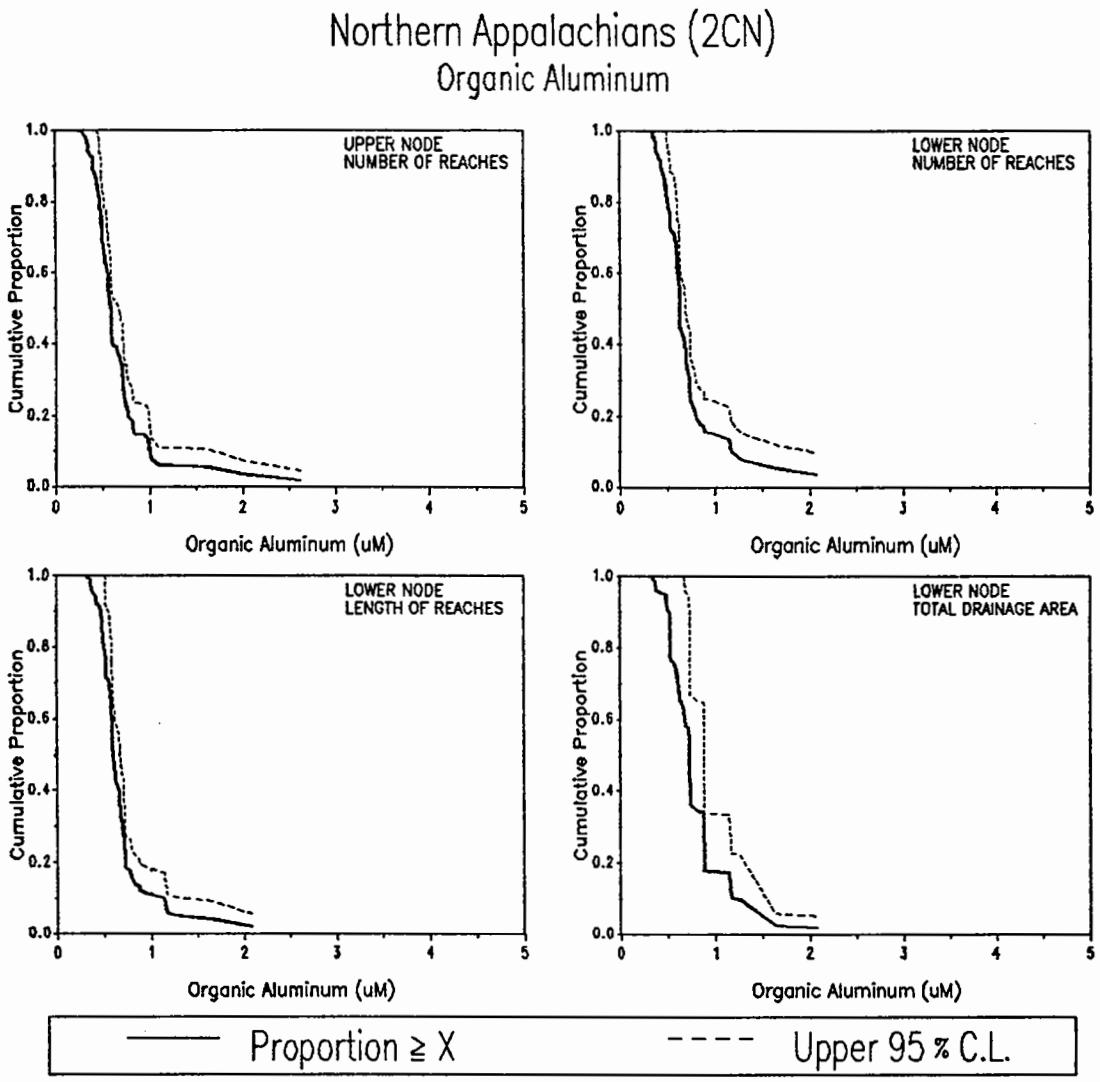


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (uM)	0.82	0.73	0.73	0.71
40 % (uM)	0.68	0.64	0.66	0.61
MEDIAN(uM)	0.63	0.60	0.64	0.58
60 % (uM)	0.53	0.56	0.61	0.54
80 % (uM)	0.43	0.46	0.49	0.42

SUMMARY STATISTICS (uM)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	0.18	3.64	0.70	0.51
LOWER	56	0.23	1.42	0.62	0.22

Figure 5-46. Population estimates for organic aluminum (ALOR16) for the Poconos/Catskills subregion (1D).

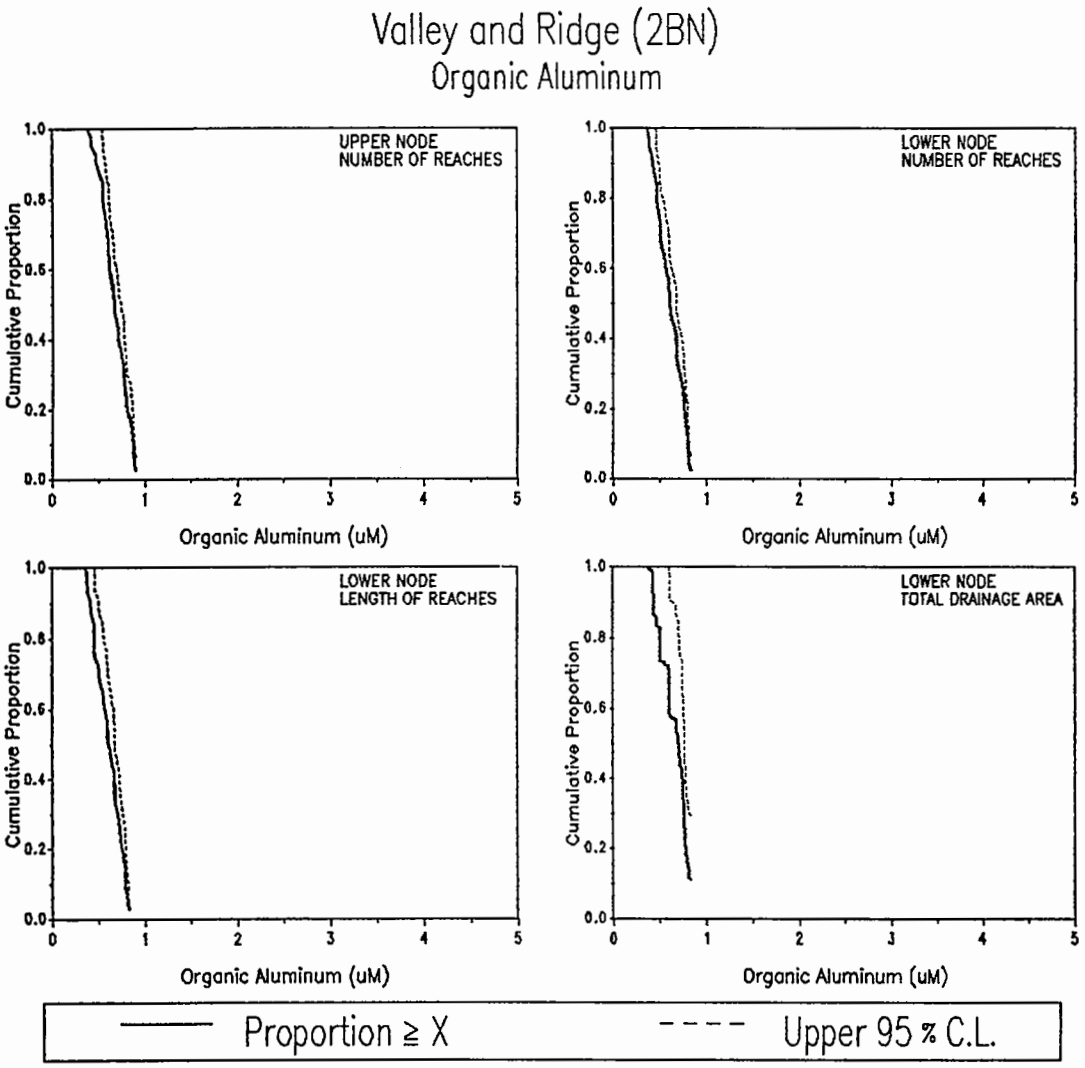


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (uM)	0.76	0.76	0.72	0.87
40 % (uM)	0.60	0.66	0.64	0.72
MEDIAN (uM)	0.58	0.62	0.60	0.72
60 % (uM)	0.55	0.59	0.59	0.66
80 % (uM)	0.47	0.49	0.49	0.52

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	0.18	2.62	0.68	0.38
LOWER	61	0.34	2.08	0.72	0.36

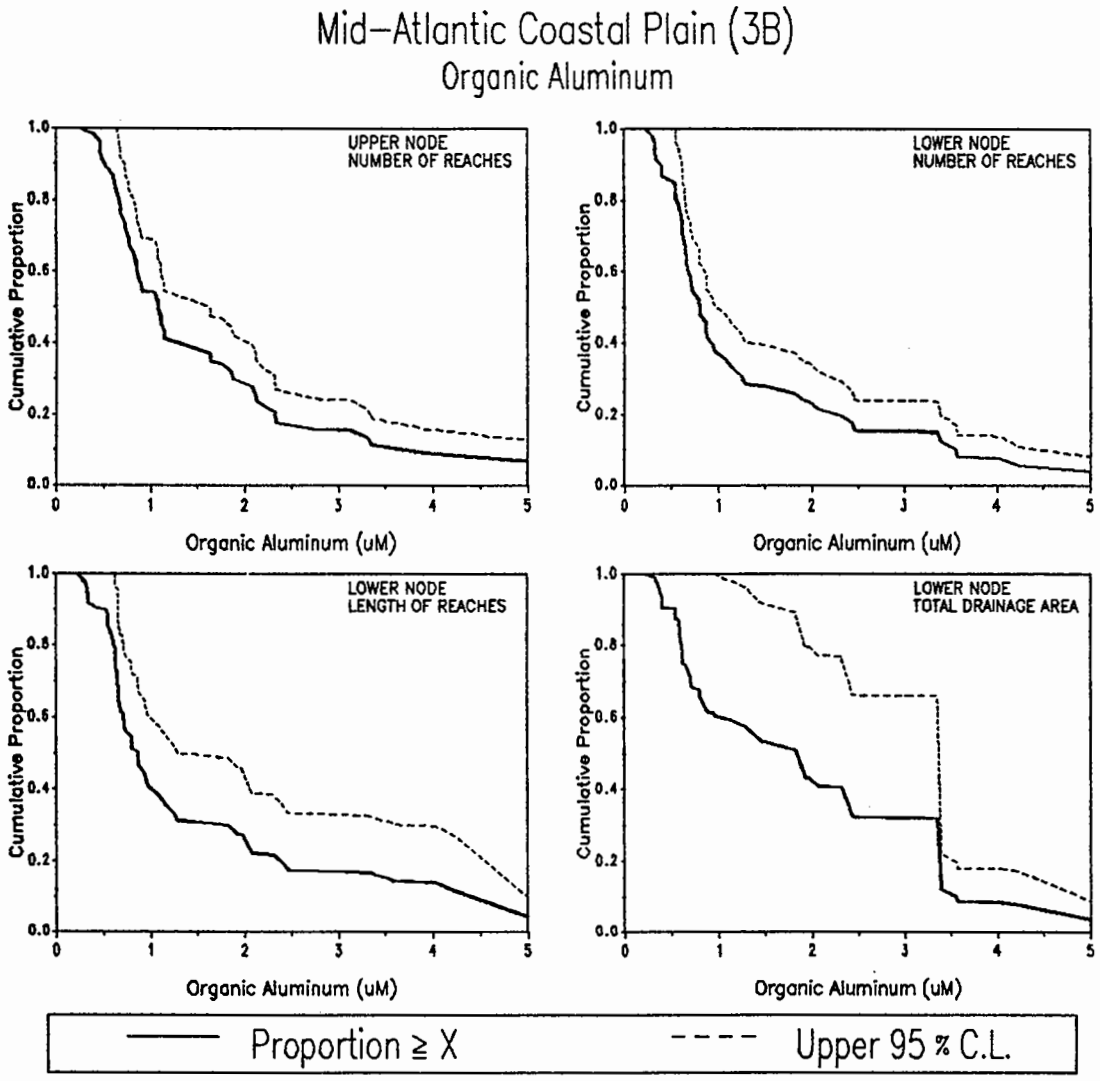
Figure 5-47. Population estimates for organic aluminum (ALOR16) for the Northern Appalachians subregion (2Cn).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (uM)	0.80	0.75	0.75	0.76
40 % (uM)	0.71	0.65	0.65	0.72
MEDIAN (uM)	0.65	0.60	0.60	0.68
60 % (uM)	0.62	0.55	0.56	0.60
80 % (uM)	0.55	0.46	0.45	0.50

SUMMARY STATISTICS (uM)					
	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	0.38	0.90	0.67	0.14
LOWER	47	0.36	0.83	0.60	0.14

Figure 5-48. Population estimates for organic aluminum (ALOR16) for the Valley and Ridge subregion (2Bn).

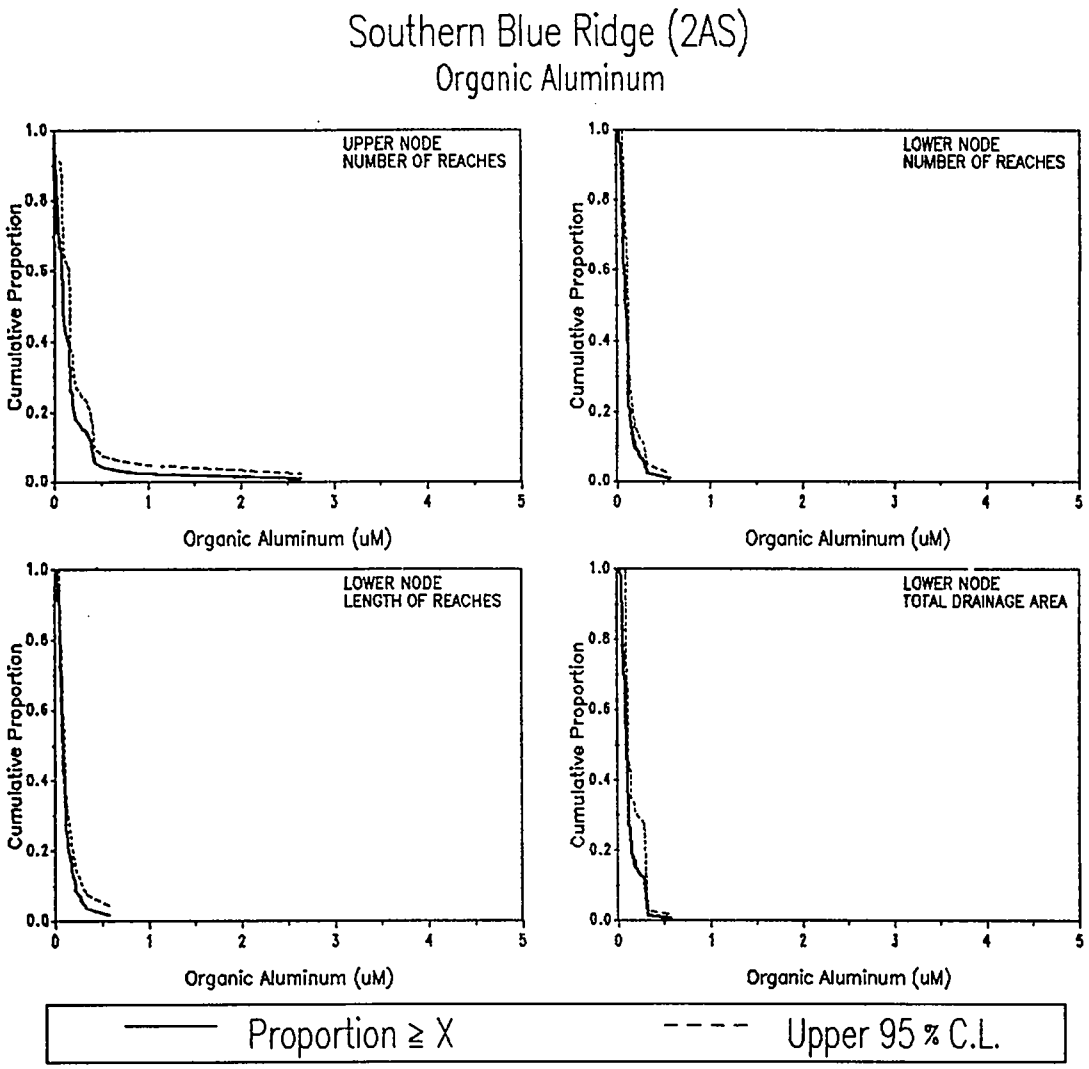


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (uM)	2.26	2.04	2.20	3.25
40 % (uM)	1.14	0.87	0.95	2.09
MEDIAN (uM)	1.08	0.80	0.82	1.53
60 % (uM)	0.84	0.66	0.68	0.95
80 % (uM)	0.64	0.54	0.60	0.60

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	0.24	11.88	1.78	1.96
LOWER	58	0.21	9.62	1.40	1.48

Figure 5-49. Population estimates for organic aluminum (ALOR16) for the Mid-Atlantic Coastal Plain subregion (3B).



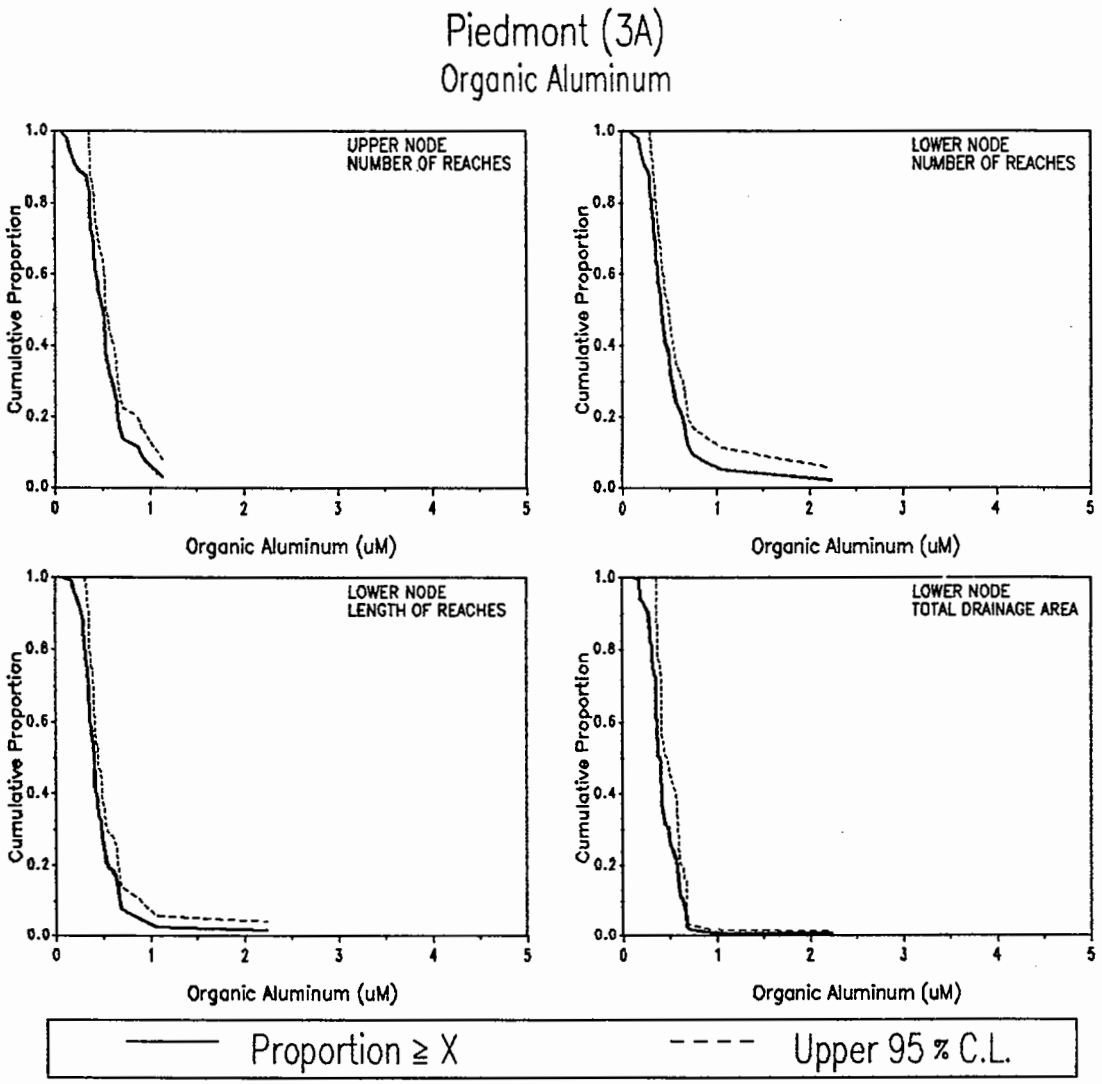
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (aq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (uM)	0.19	0.11	0.13	0.13
40 % (uM)	0.11	0.10	0.09	0.10
MEDIAN (uM)	0.08	0.08	0.07	0.08
60 % (uM)	0.07	0.06	0.06	0.08
80 % (uM)	.	0.05	0.05	0.05

SUMMARY STATISTICS (uM)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	0.00	2.63	0.15	0.28
LOWER	54	0.02	0.56	0.10	0.08

Figure 5-50. Population estimates for organic aluminum (ALOR16) for the Southern Blue Ridge subregion (2As).



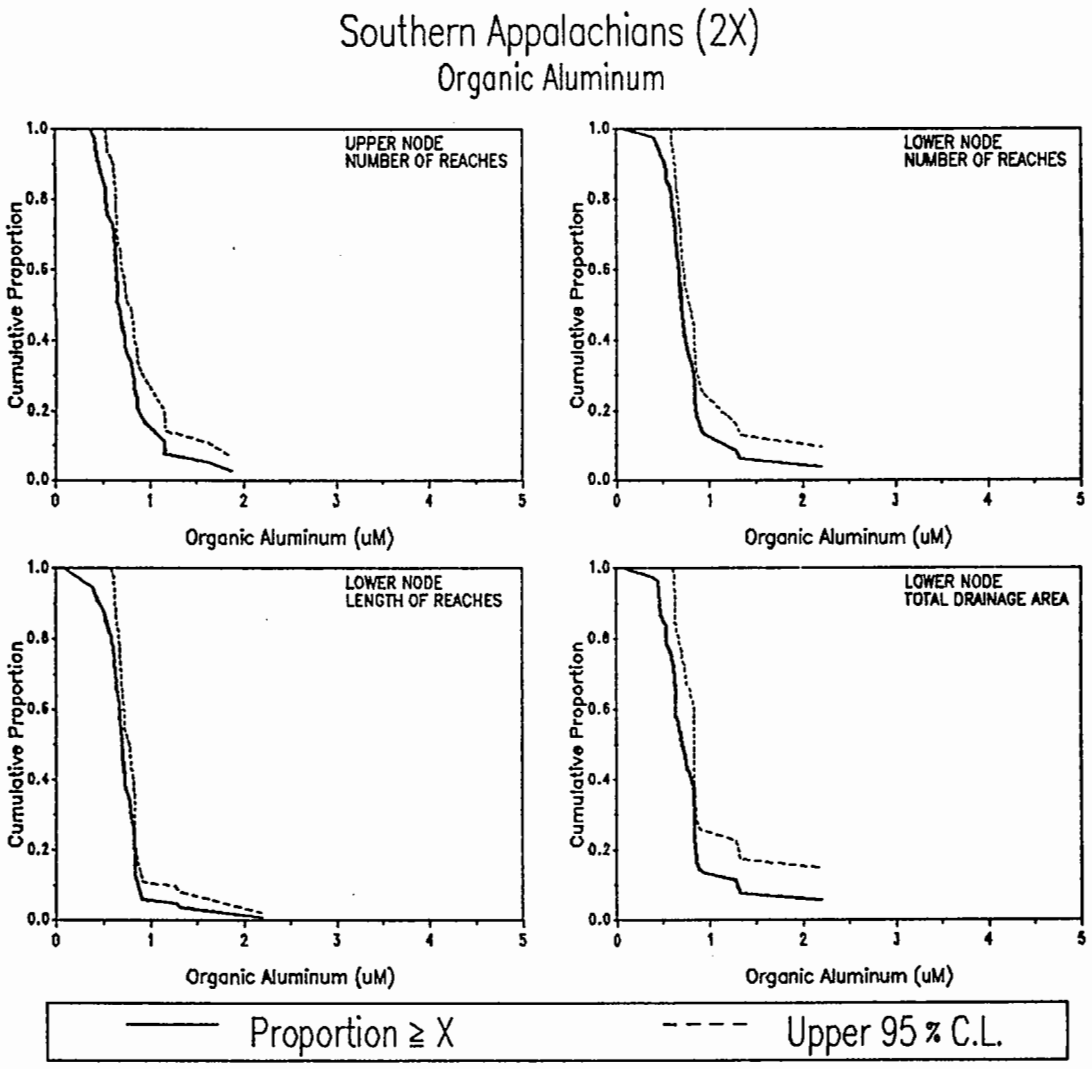
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (uM)	0.64	0.60	0.53	0.55
40 % (uM)	0.52	0.44	0.41	0.40
MEDIAN (uM)	0.48	0.40	0.39	0.38
60 % (uM)	0.42	0.37	0.35	0.35
80 % (uM)	0.36	0.30	0.30	0.30

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	0.06	1.13	0.51	0.23
LOWER	47	0.07	2.23	0.48	0.32

Figure 5-51. Population estimates for organic aluminum (ALOR16) for the Piedmont subregion (3A).

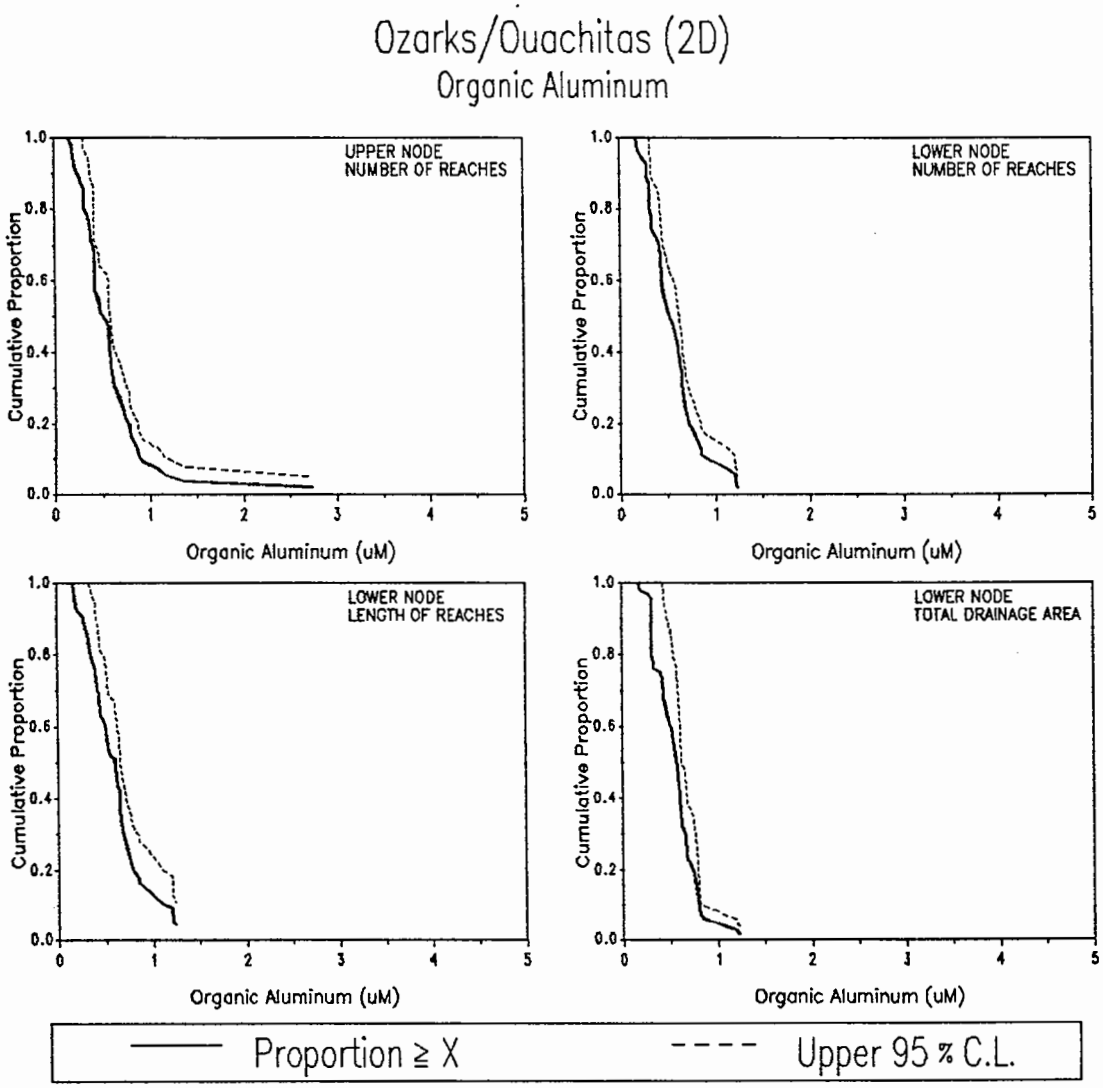


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (uM)	0.86	0.84	0.83	0.83
40 % (uM)	0.71	0.72	0.71	0.77
MEDIAN(uM)	0.65	0.68	0.69	0.69
60 % (uM)	0.63	0.66	0.66	0.62
80 % (uM)	0.52	0.57	0.58	0.52

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	0.36	1.86	0.74	0.30
LOWER	40	0.08	2.19	0.75	0.34

Figure 5-52. Population estimates for organic aluminum (ALOR16) for the Southern Appalachians subregion (2X).



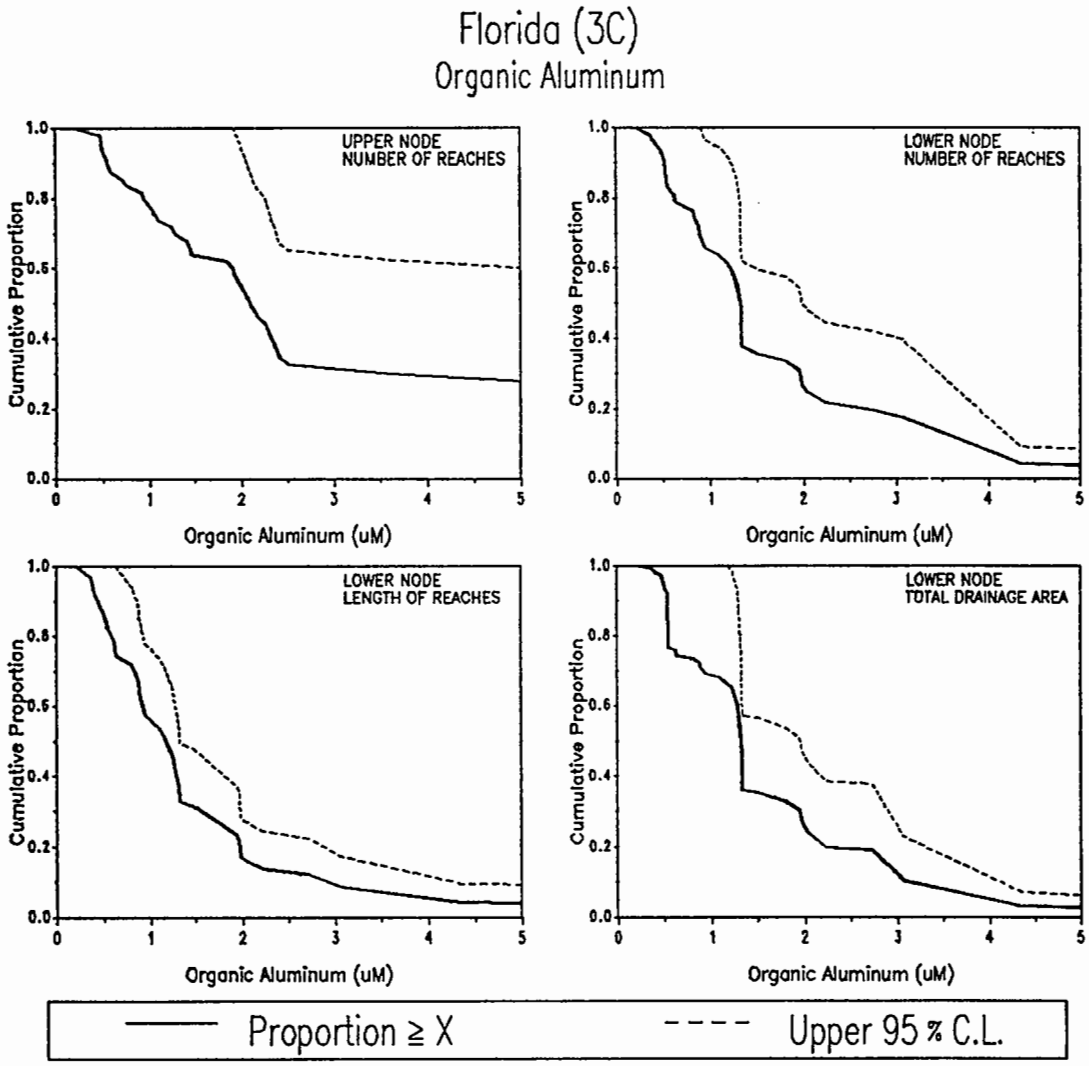
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (uM)	0.73	0.70	0.75	0.71
40 % (uM)	0.56	0.60	0.64	0.60
MEDIAN (uM)	0.47	0.49	0.58	0.54
60 % (uM)	0.41	0.43	0.47	0.48
80 % (uM)	0.30	0.31	0.33	0.31

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	0.14	2.73	0.57	0.38
LOWER	48	0.17	1.23	0.55	0.26

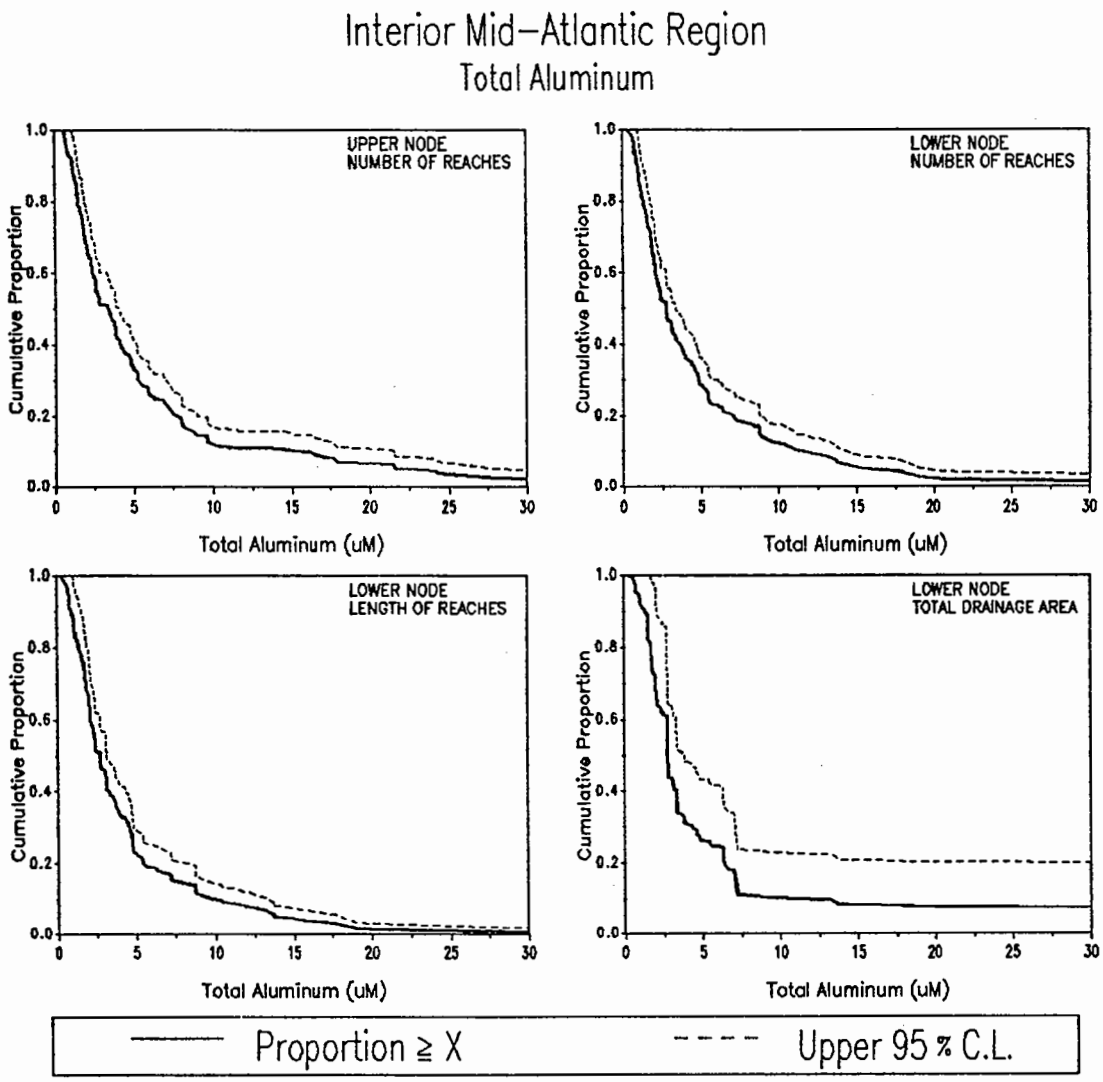
Figure 5-53. Population estimates for organic aluminum (ALOR16) for the Ozarks/Ouachitas subregion(2D).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (uM)	7.77	2.19	1.95	2.04
40 % (uM)	2.20	1.31	1.26	1.30
MEDIAN (uM)	1.91	1.27	1.12	1.27
60 % (uM)	1.85	1.15	0.89	1.25
80 % (uM)	0.91	0.57	0.54	0.53

SUMMARY STATISTICS (uM)					
	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	0.21	9.40	3.47	3.32
LOWER	34	0.21	8.12	1.61	1.33

Figure 5-54. Population estimates for organic aluminum (ALOR16) for Florida subregion (3C).

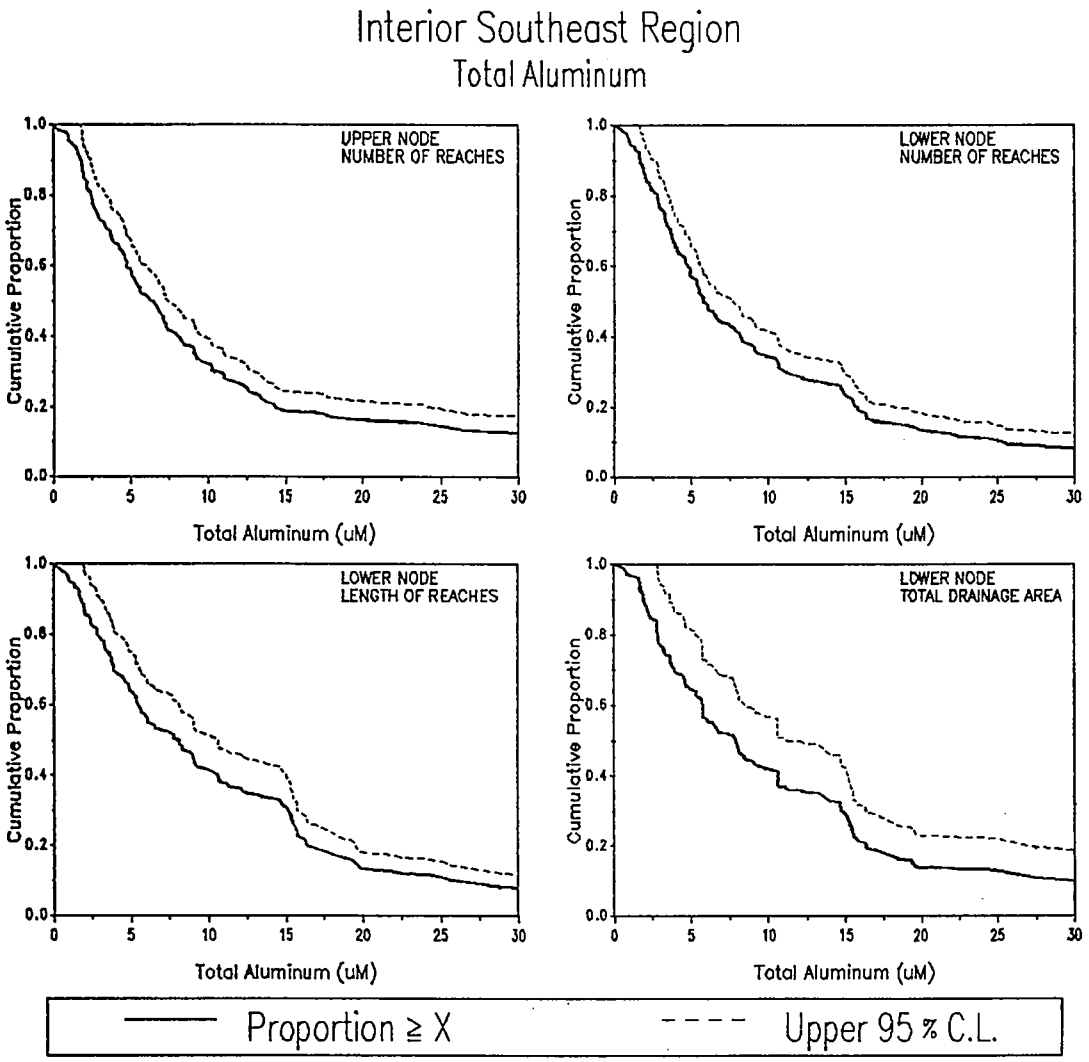


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (uM)	7.41	6.76	5.40	6.33
40 % (uM)	4.05	3.53	3.20	3.21
MEDIAN (uM)	3.29	2.71	2.62	2.71
60 % (uM)	2.30	2.04	2.06	2.50
80 % (uM)	1.41	1.27	1.32	1.62

SUMMARY STATISTICS (uM)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	0.47	37.41	5.59	6.79
LOWER	164	0.24	30.91	4.60	5.12

Figure 5-55. Population estimates for total aluminum (ALTL16) for the Mid-Atlantic Region.



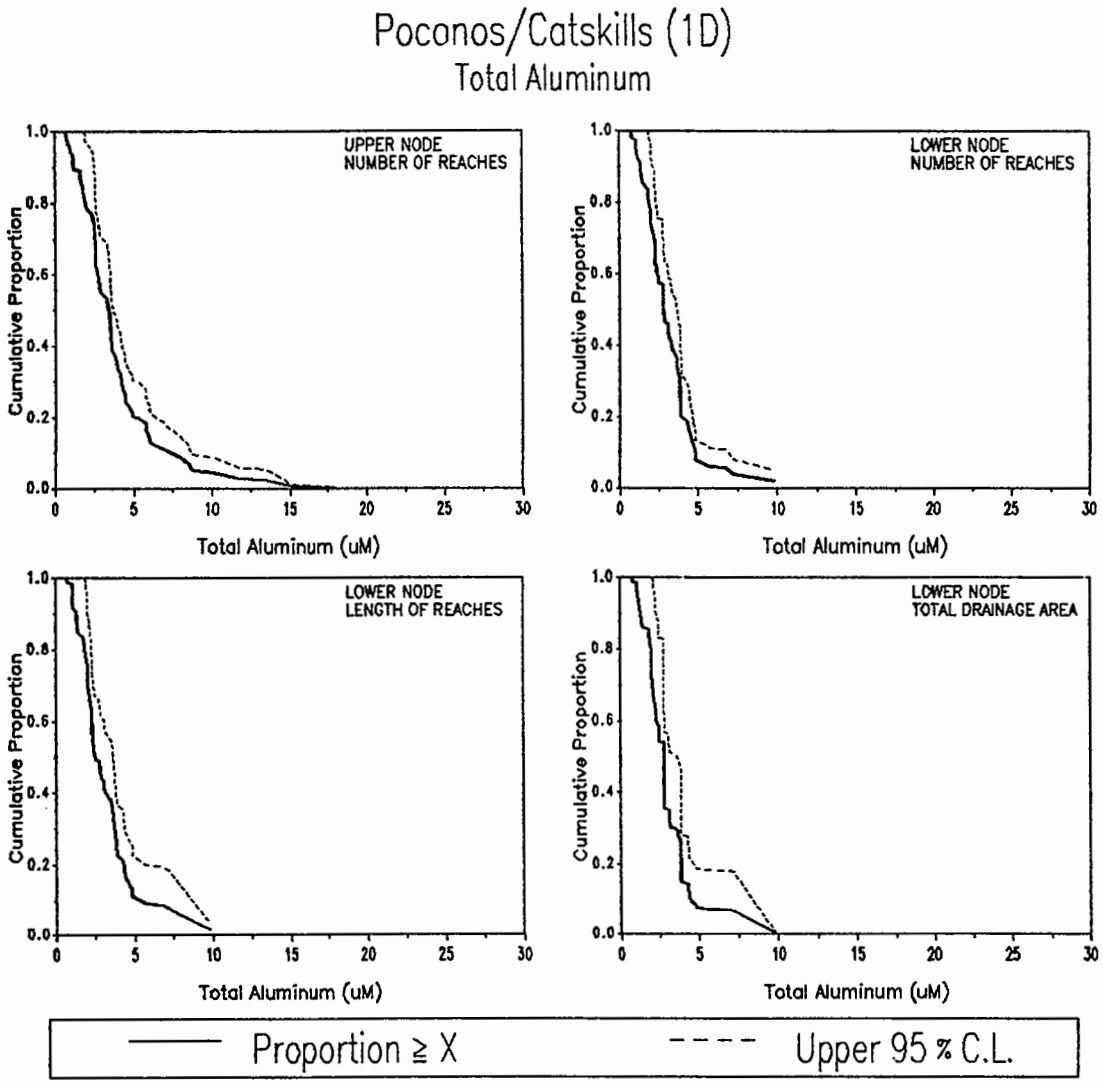
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	17271	18719	88062	401703
STD ERROR	948	987	5892	45347
20 % (uM)	14.17	15.48	16.28	16.06
40 % (uM)	7.83	8.10	10.44	10.50
MEDIAN (uM)	6.18	5.74	7.75	7.72
60 % (uM)	4.69	4.62	5.37	5.66
80 % (uM)	2.36	2.78	2.80	2.80

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	155	0.00	1374.99	20.07	101.90
LOWER	189	0.05	105.65	10.92	14.12

Figure 5-56. Population estimates for total aluminum (ALTL16) for the Southeastern Region.



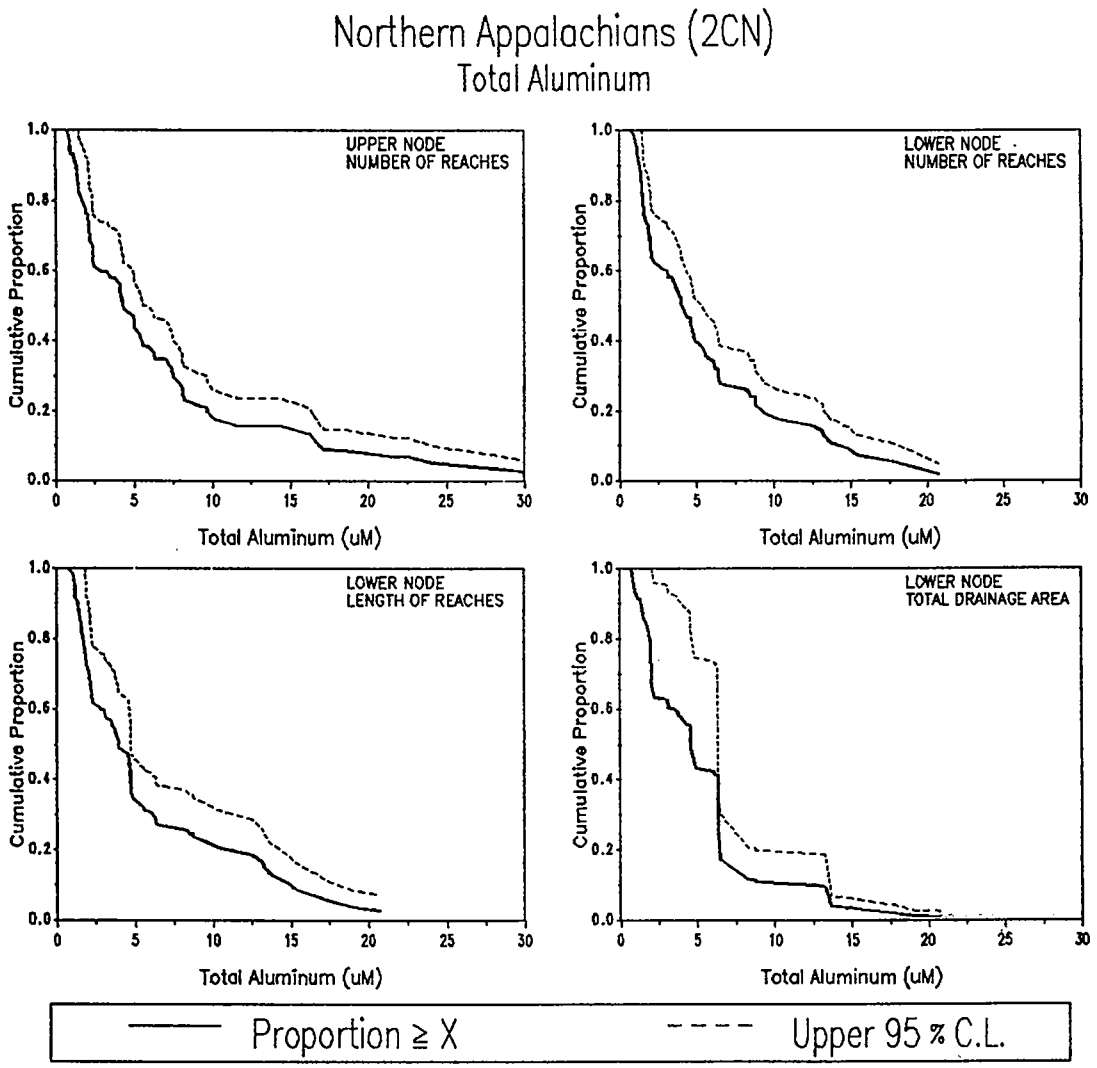
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (uM)	4.86	3.87	3.98	3.76
40 % (uM)	3.50	3.17	3.08	2.75
MEDIAN (uM)	3.18	2.76	2.42	2.60
60 % (uM)	2.59	2.35	2.25	2.29
80 % (uM)	1.83	1.81	1.79	1.87

SUMMARY STATISTICS (uM)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	0.65	17.94	3.74	2.50
LOWER	56	0.69	9.77	3.06	1.63

Figure 5-57. Population estimates for total aluminum (ALTL16) for the Poconos/Catskills subregion(1D).



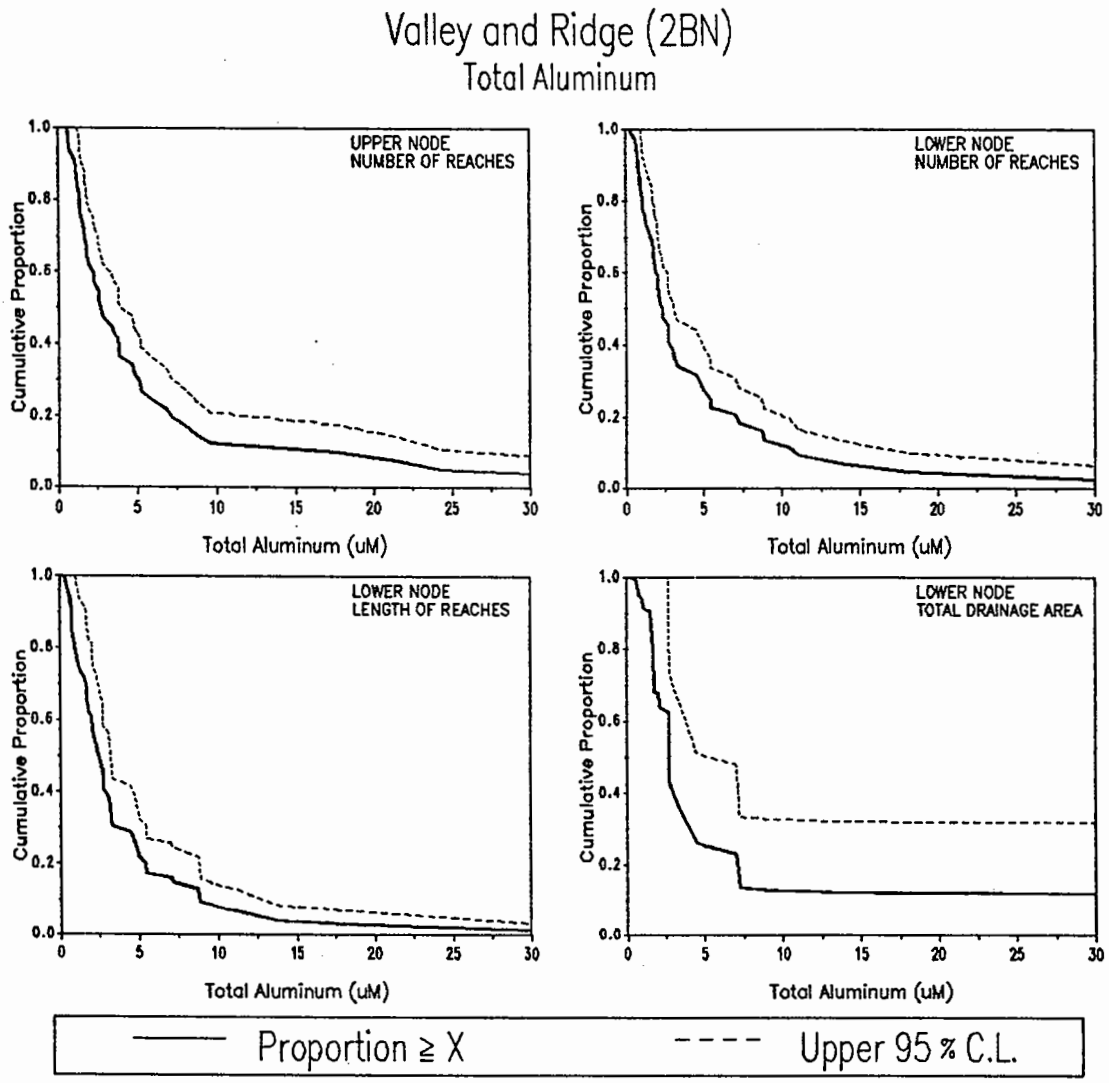
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (uM)	9.43	8.72	9.69	8.33
40 % (uM)	5.13	4.72	4.62	6.16
MEDIAN (uM)	4.14	3.95	3.91	4.55
60 % (uM)	2.37	2.82	2.52	3.23
80 % (uM)	1.48	1.45	1.56	1.87

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	0.69	31.78	6.64	6.95
LOWER	61	0.70	20.74	5.62	5.06

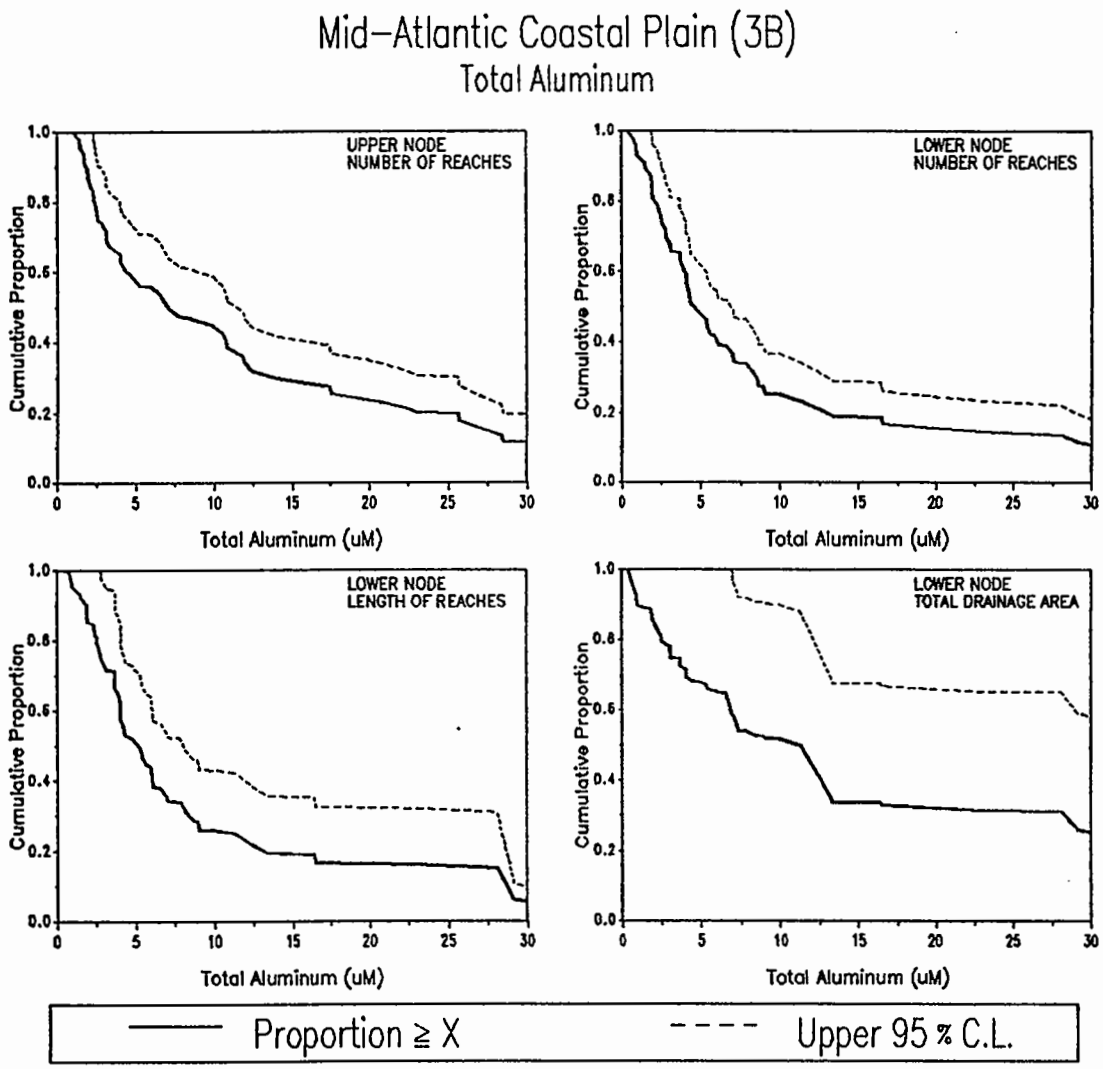
Figure 5-58. Population estimates for total aluminum (ALTL16) for the Northern Appalachians subregion (2Cn).



	POPULATION ESTIMATES			
	UPPER NODE		LOWER NODE	
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (uM)	6.61	5.73	5.04	5.93
40 % (uM)	3.69	2.71	2.71	2.72
MEDIAN (uM)	2.54	2.18	2.34	2.70
60 % (uM)	1.93	1.84	1.89	2.44
80 % (uM)	1.29	0.96	0.89	1.49

SUMMARY STATISTICS (uM)					
		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	0.47	37.41	5.35	7.28
LOWER	47	0.24	30.91	4.34	5.55

Figure 5-59. Population estimates for total aluminum (ALTL16) for the Valley and Ridge subregion (2Bn).

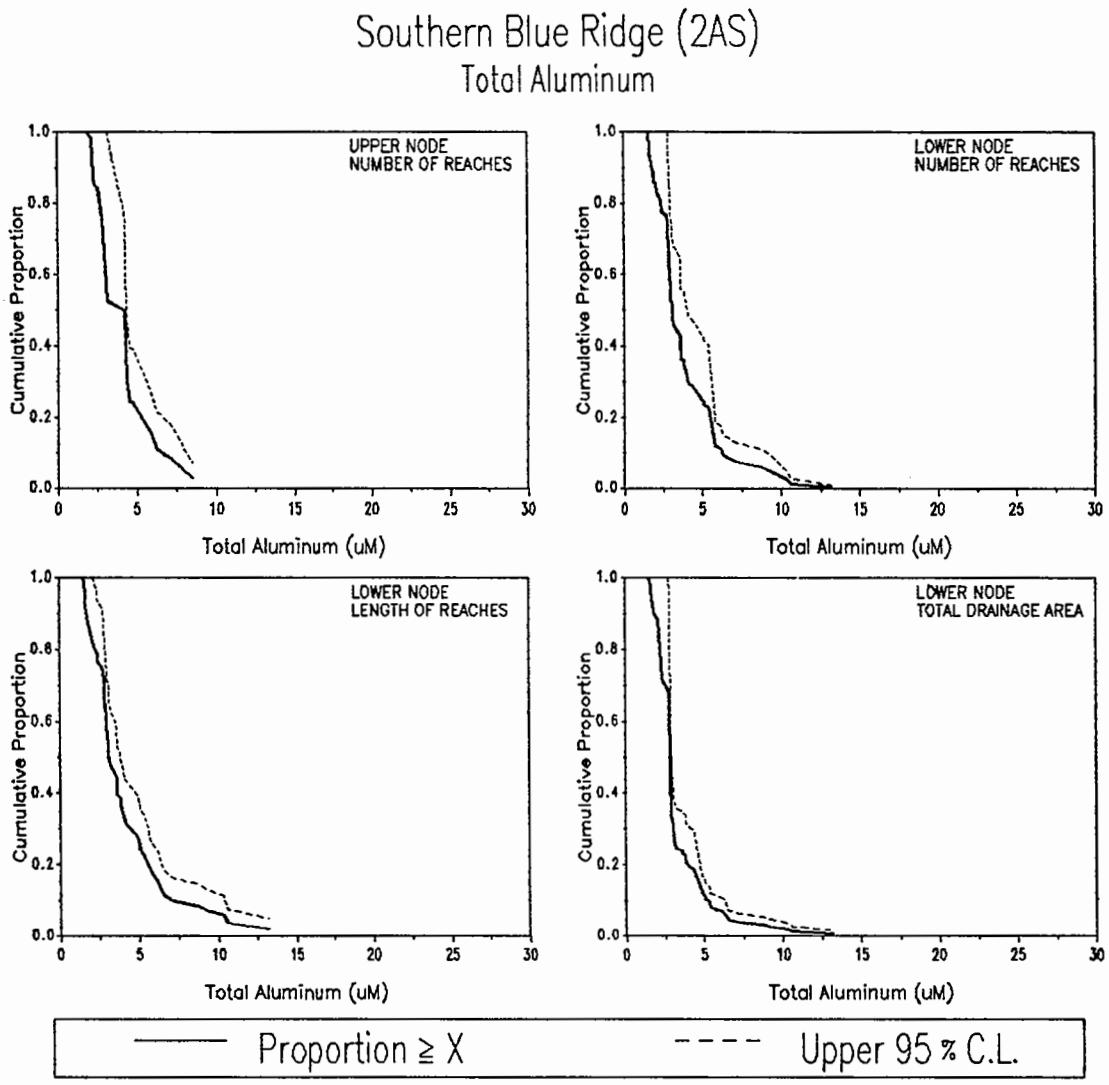


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (uM)	22.83	11.87	12.14	31.78
40 % (uM)	10.54	5.83	5.86	11.51
MEDIAN (uM)	6.72	4.33	4.69	9.74
60 % (uM)	4.36	3.77	3.94	6.51
80 % (uM)	2.30	1.91	2.44	2.45

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	0.99	74.11	12.58	14.18
LOWER	58	0.38	53.57	9.52	12.09

Figure 5-60. Population estimates for total aluminum (ALTL16) for the Mid-Atlantic Coastal Plain subregion (3B).

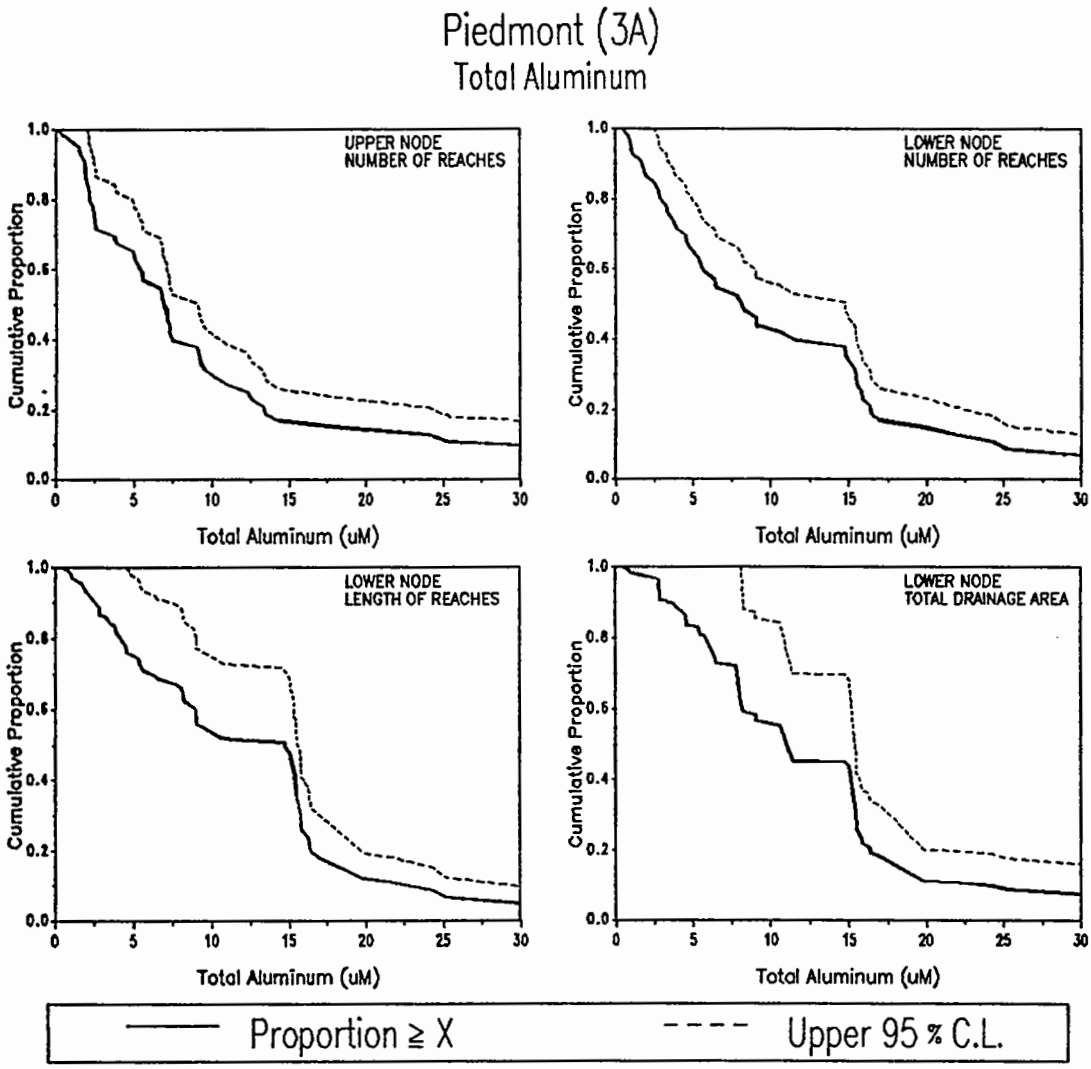


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	617	2031	9036	50995
STD ERROR	176	326	954	12357
20 % (uM)	4.67	5.29	5.30	3.82
40 % (uM)	4.11	3.36	3.54	2.83
MEDIAN (uM)	3.08	3.01	3.05	2.80
60 % (uM)	2.72	2.86	2.90	2.78
80 % (uM)	2.43	2.17	2.07	2.07

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	20	1.85	8.45	3.86	1.59
LOWER	54	1.43	13.17	3.76	2.01

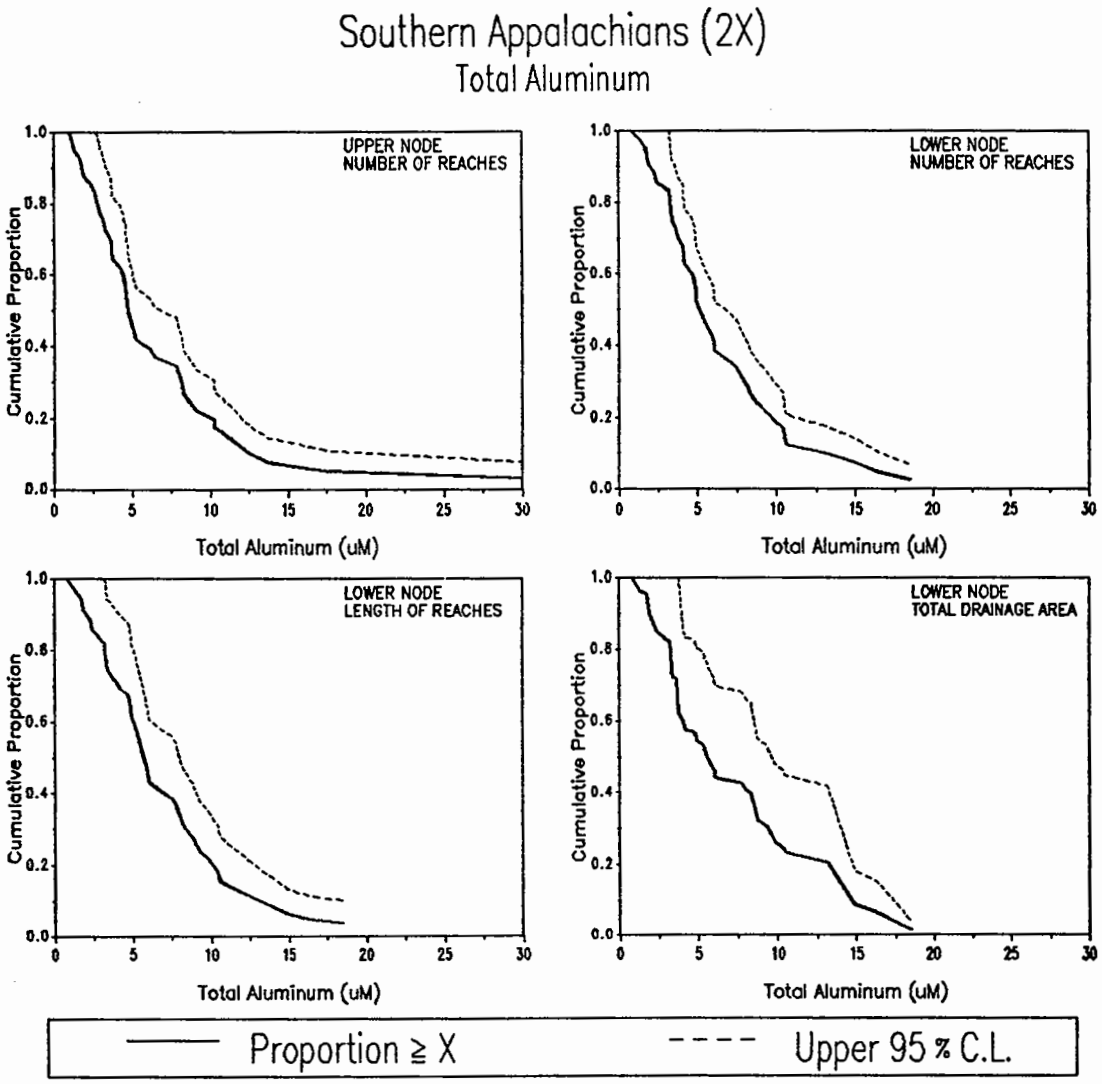
Figure 5-61. Population estimates for total aluminum (ALTL16) for the Southern Blue Ridge subregion (2As).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (uM)	12.89	16.06	16.28	16.02
40 % (uM)	7.26	10.55	15.11	14.84
MEDIAN (uM)	6.79	7.82	13.67	9.86
60 % (uM)	5.18	5.38	8.26	7.96
80 % (uM)	2.14	2.78	3.81	5.47

	SUMMARY STATISTICS (uM)				
	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	0.00	49.09	10.09	11.45
LOWER	47	0.41	53.00	11.22	10.97

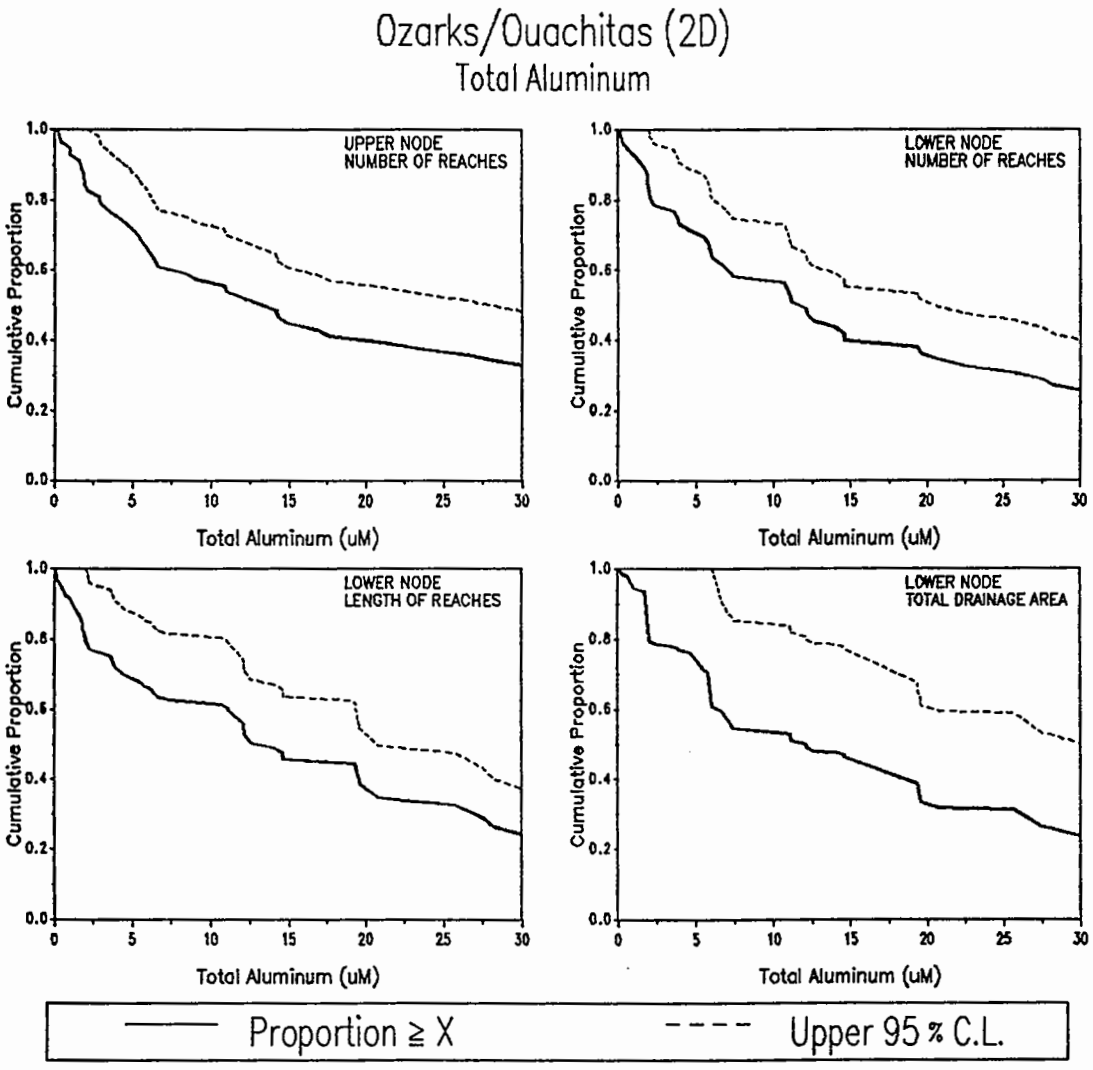
Figure 5-62. Population estimates for total aluminum (ALTL16) for the Piedmont subregion (3A).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (uM)	9.02	9.12	9.54	10.72
40 % (uM)	5.19	5.91	6.23	7.95
MEDIAN (uM)	4.66	4.92	5.41	5.30
60 % (uM)	4.16	4.15	4.88	3.73
80 % (uM)	2.65	3.20	2.95	3.06

SUMMARY STATISTICS (uM)					
		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	1.00	33.91	6.50	5.76
LOWER	40	0.78	18.49	6.26	4.07

Figure 5-63. Population estimates for total aluminum (ALTL16) for the Southern Appalachians subregion (2X).

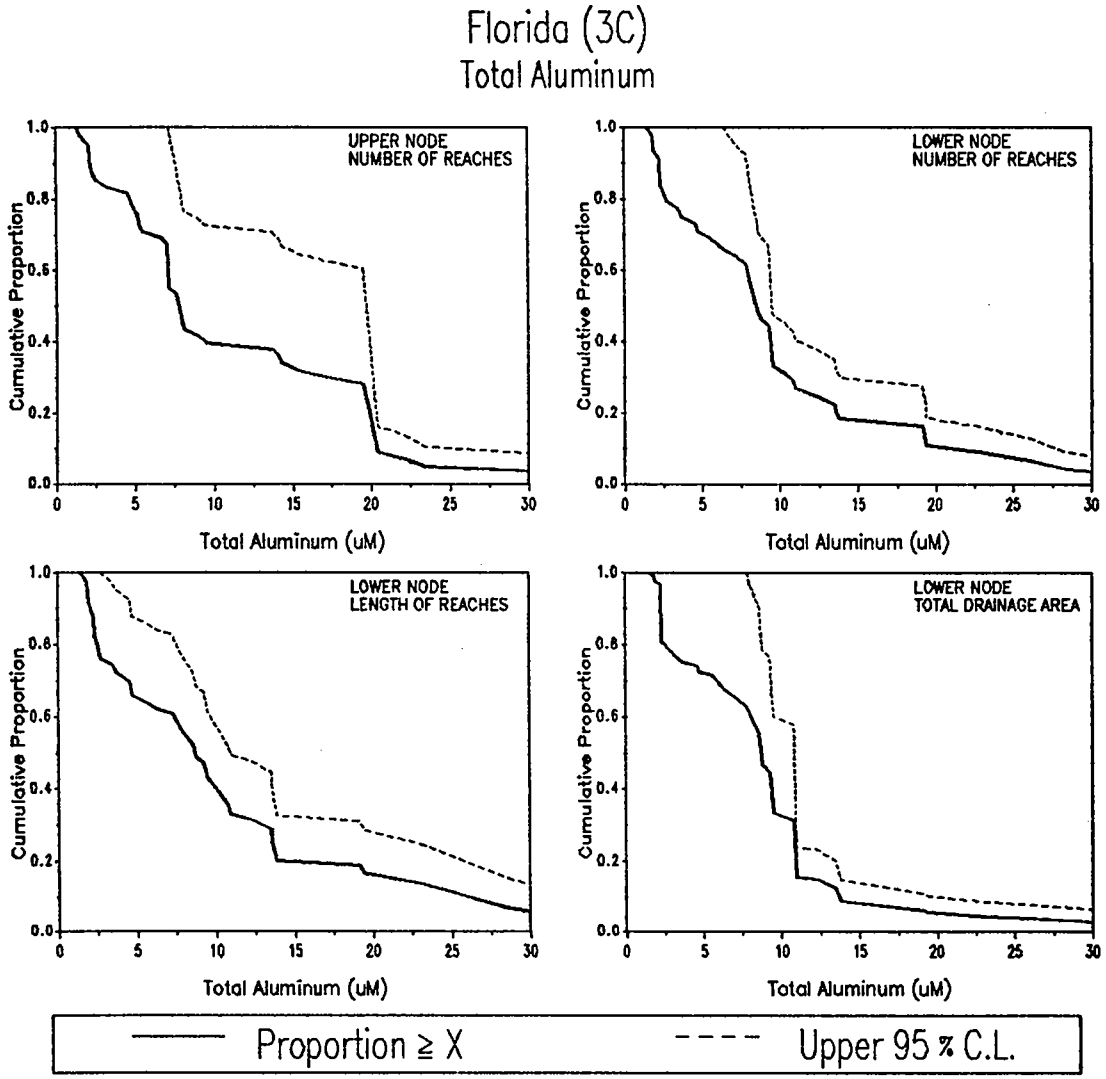


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (uM)	33.91	32.47	32.31	32.62
40 % (uM)	17.39	14.57	18.21	14.63
MEDIAN (uM)	12.15	11.12	12.28	11.16
60 % (uM)	6.50	6.30	10.90	5.96
80 % (uM)	2.45	1.98	1.93	1.88

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	0.22	1374.99	56.21	201.60
LOWER	48	0.05	105.65	19.64	23.15

Figure 5-64. Population estimates for total aluminum (ALTL16) for the Ozarks/Ouachitas subregion (2D).



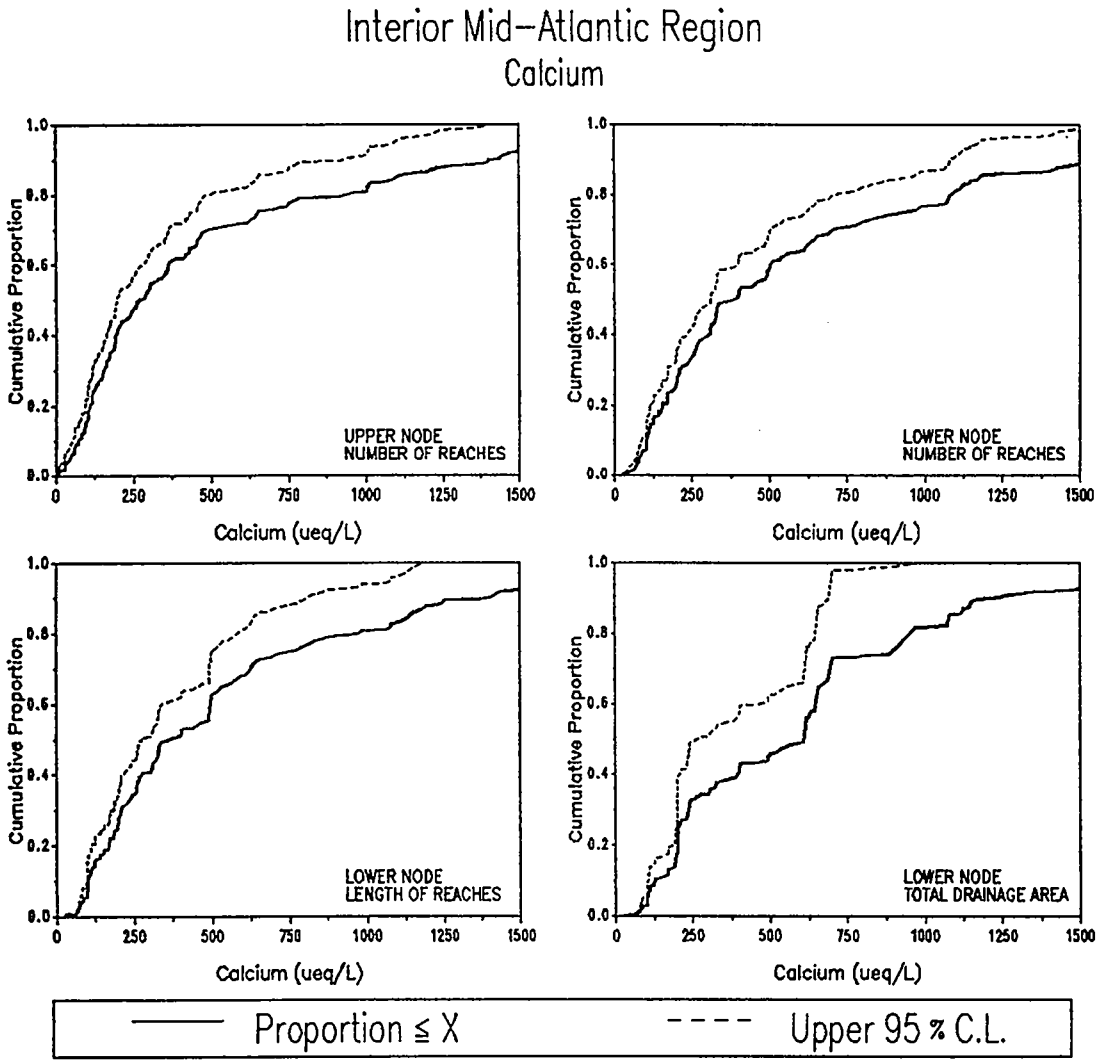
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (uM)	18.20	13.49	13.56	10.65
40 % (uM)	8.85	8.97	9.40	8.98
MEDIAN (uM)	7.30	7.71	8.26	8.28
60 % (uM)	6.88	7.30	6.54	7.44
80 % (uM)	3.68	2.46	2.28	2.29

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	1.26	33.54	10.83	7.79
LOWER	34	1.41	34.47	9.56	7.45

Figure 5-65. Population estimates for total aluminum (ALTL16) for Florida subregion (3C).



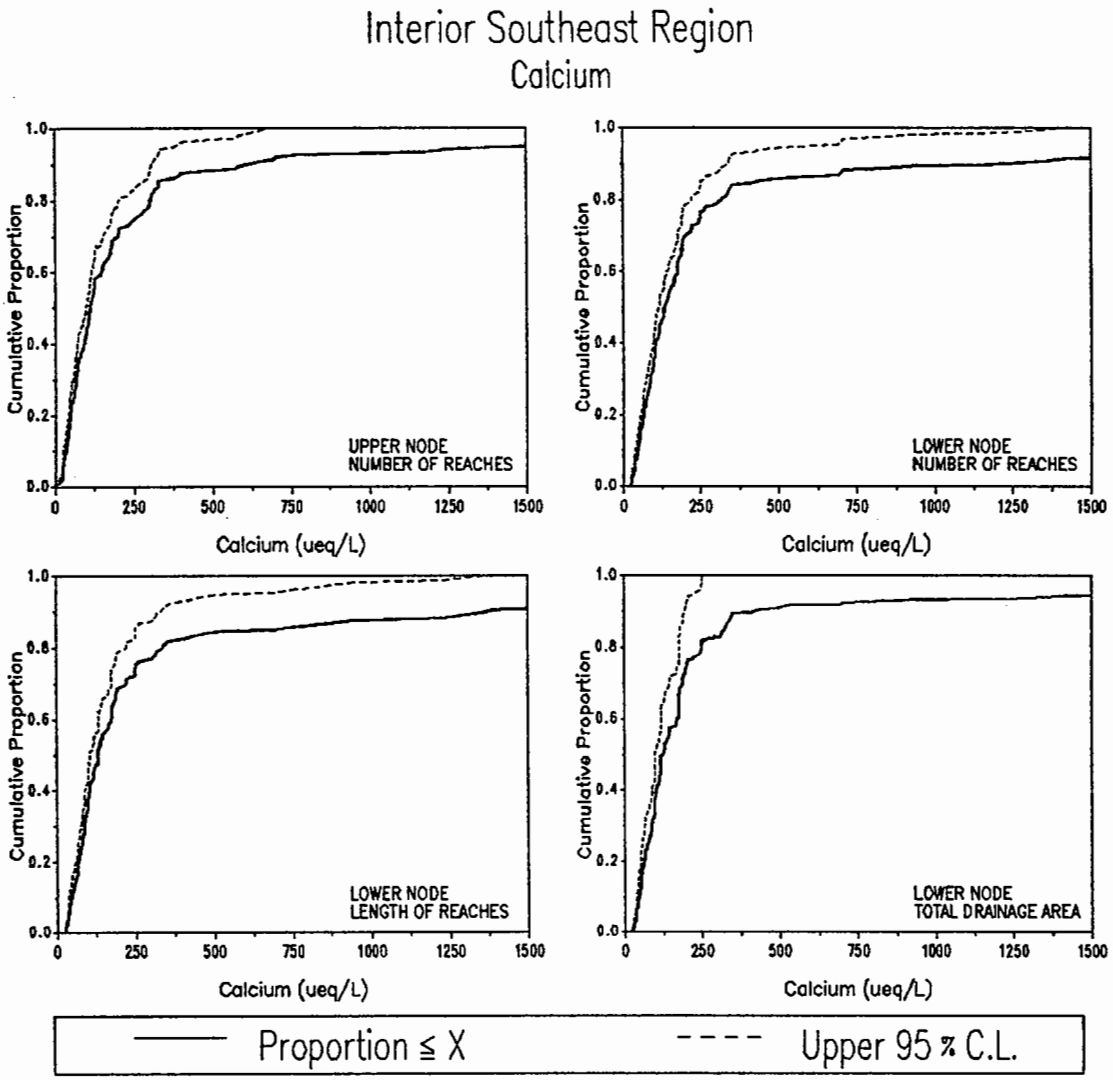
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (ueq/L)	110.83	154.05	168.90	201.60
40 % (ueq/L)	194.76	303.67	274.30	397.57
MEDIAN (ueq/L)	269.92	386.70	360.65	610.11
60 % (ueq/L)	363.48	501.97	497.17	647.33
80 % (ueq/L)	942.12	1084.69	975.01	952.00

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	9.68	3786.74	572.13	743.00
LOWER	164	26.95	4116.30	673.32	746.24

Figure 5-66. Population estimates for calcium (CA16) for the Mid-Atlantic Region.

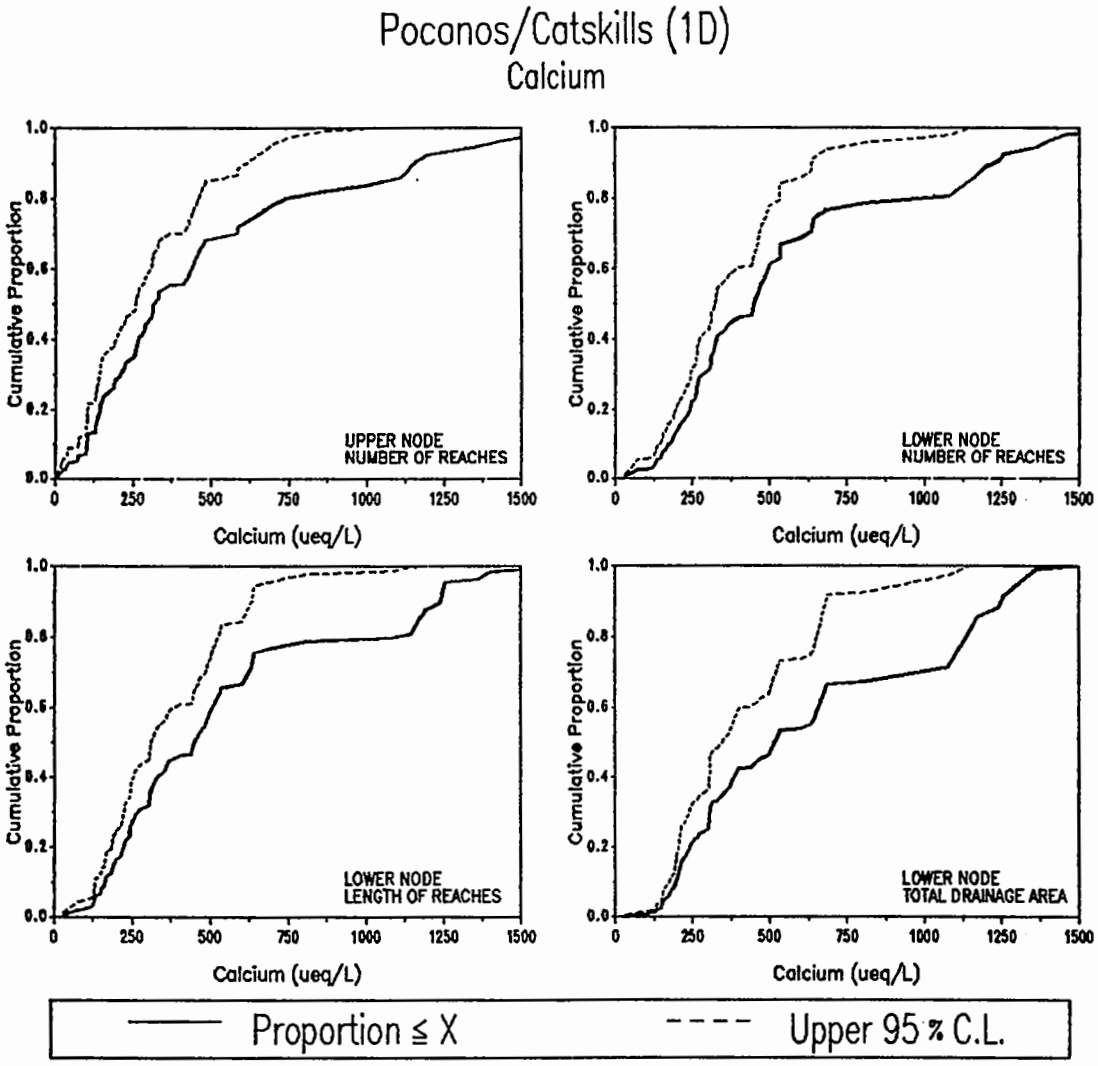


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (ueq/L)	47.19	66.03	67.19	65.49
40 % (ueq/L)	91.02	106.41	104.58	104.54
MEDIAN (ueq/L)	111.83	134.75	131.80	125.16
60 % (ueq/L)	147.80	175.77	175.20	170.31
80 % (ueq/L)	305.53	316.07	337.05	251.62

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	9.28	2300.39	280.24	475.62
LOWER	189	25.45	2789.41	354.24	585.43

Figure 5-67. Population estimates for calcium (CA16) for the Southeastern Region.

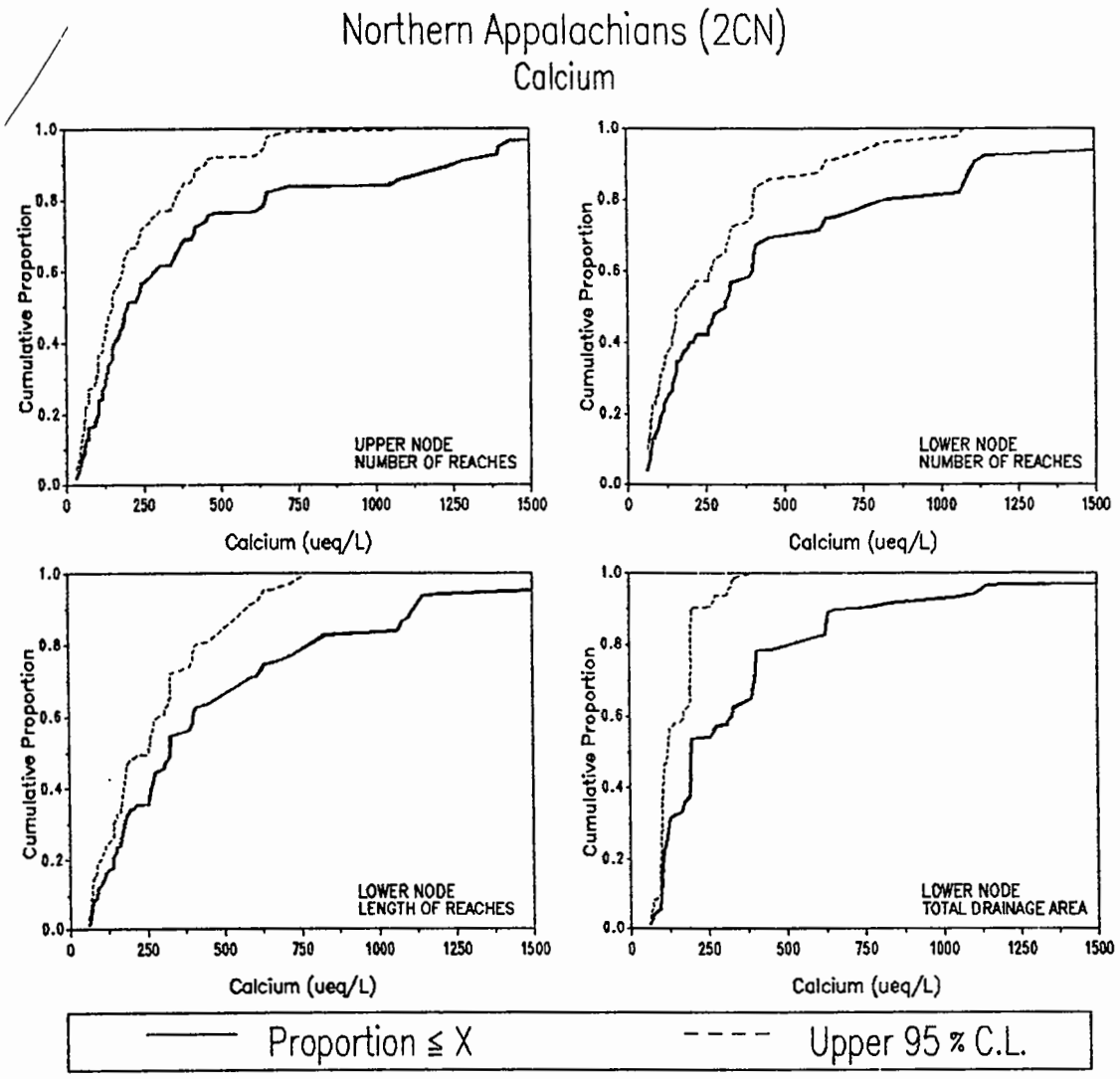


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (ueq/L)	143.94	242.66	223.24	242.87
40 % (ueq/L)	264.91	327.92	329.91	386.81
MEDIAN (ueq/L)	314.34	450.29	450.20	517.81
60 % (ueq/L)	435.34	492.46	508.87	659.88
80 % (ueq/L)	743.24	1013.44	1098.82	1138.51

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	9.68	2437.61	508.75	473.16
LOWER	56	31.94	2791.90	590.64	485.88

Figure 5-68. Population estimates for calcium (CA16) for the Poconos/Catskills subregion (1D).

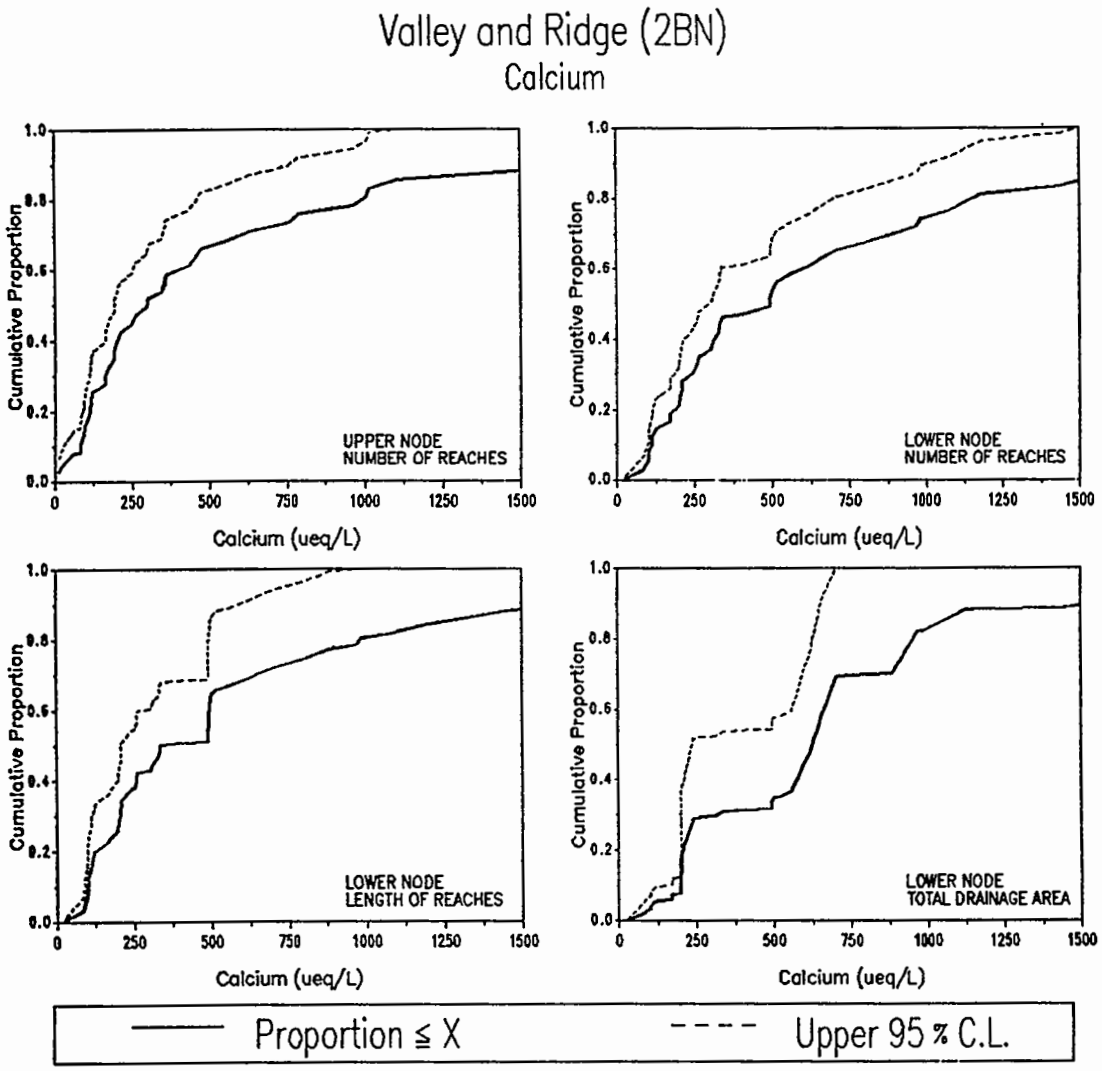


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (ueq/L)	103.67	108.22	141.64	105.99
40 % (ueq/L)	156.69	196.67	265.86	192.23
MEDIAN(ueq/L)	199.08	311.30	327.60	195.79
60 % (ueq/L)	288.32	398.68	402.28	327.17
80 % (ueq/L)	650.07	827.55	781.42	512.21

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	33.66	2430.13	442.61	529.69
LOWER	61	61.38	1711.57	478.03	458.51

Figure 5-69. Population estimates for calcium (CA16) for the Northern Appalachians subregion (2Cn).



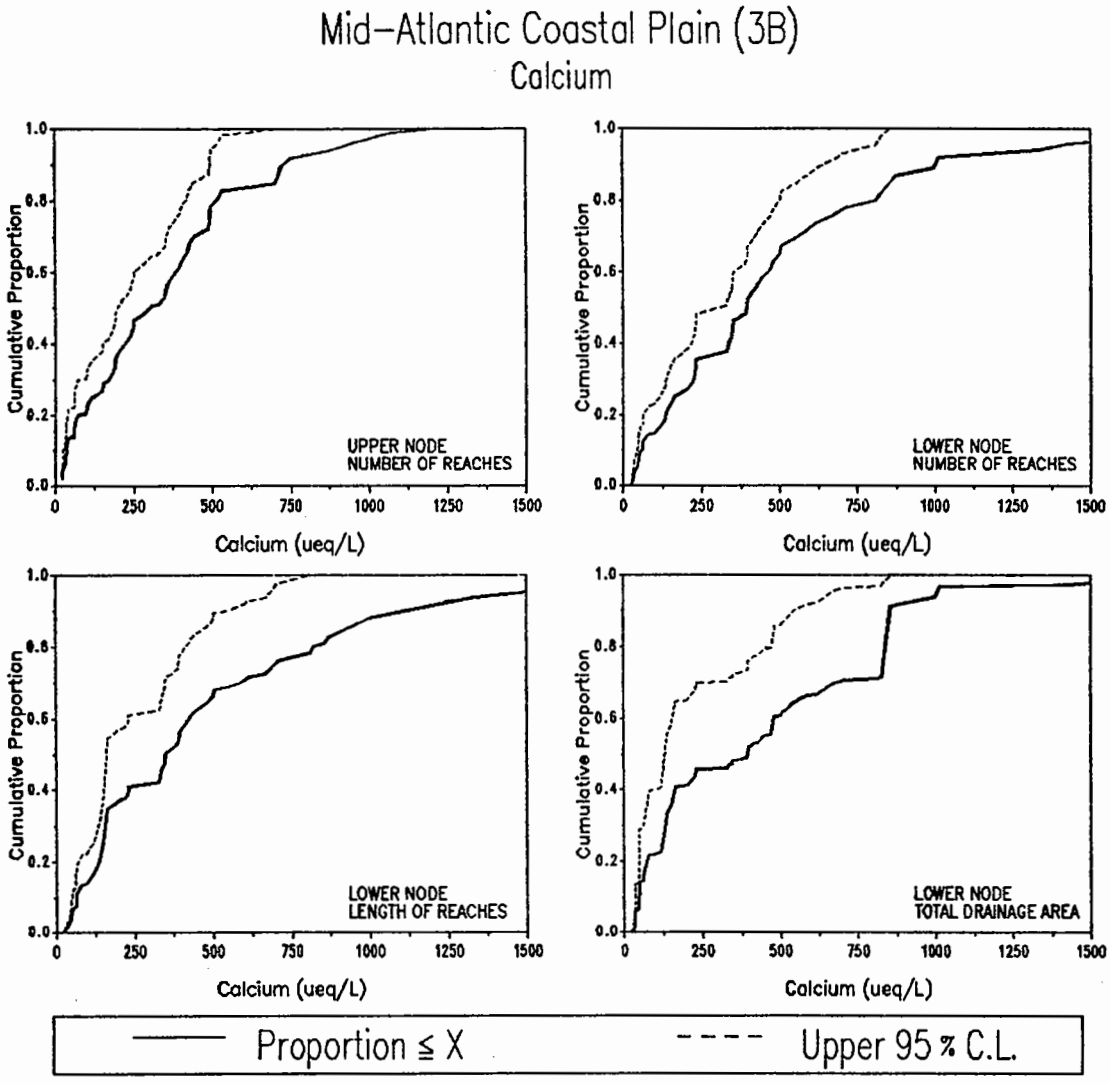
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (ueq/L)	112.89	183.91	124.15	206.64
40 % (ueq/L)	201.74	313.61	258.89	575.85
MEDIAN (ueq/L)	298.47	492.10	337.19	626.14
60 % (ueq/L)	399.78	603.09	494.79	663.19
80 % (ueq/L)	999.52	1157.80	985.29	956.00

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	11.60	3786.74	673.94	889.70
LOWER	47	26.95	4116.30	810.91	893.14

Figure 5-70. Population estimates for calcium (CA16) for the Valley and Ridge subregion (2Bn).

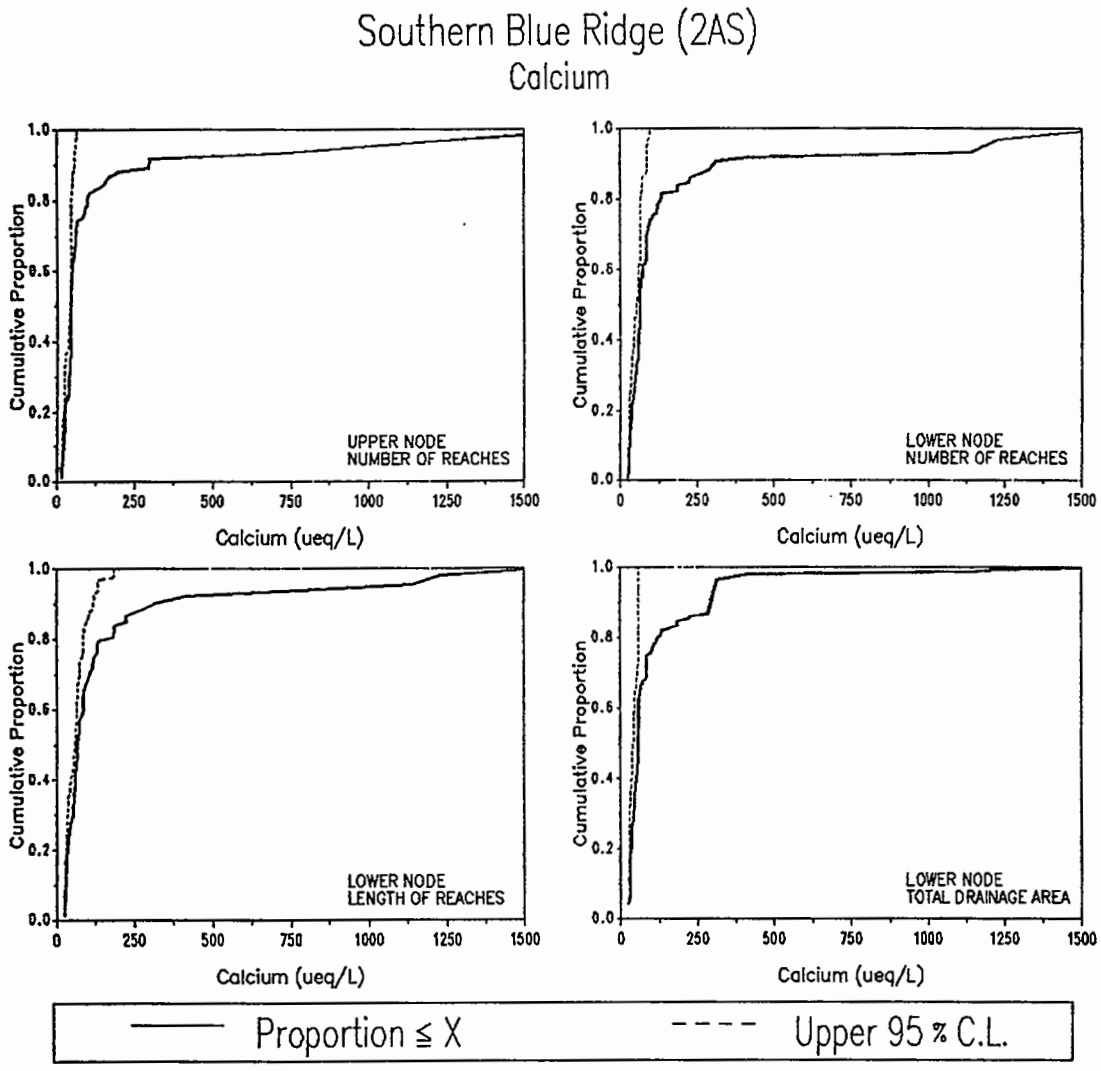


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (ueq/L)	70.23	135.90	135.72	75.35
40 % (ueq/L)	221.34	335.89	230.74	161.66
MEDIAN (ueq/L)	302.10	392.37	347.50	393.53
60 % (ueq/L)	385.20	462.16	425.12	480.70
80 % (ueq/L)	514.57	809.95	824.21	838.66

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	23.68	1201.45	358.48	282.21
LOWER	58	23.95	2011.02	501.33	436.73

Figure 5-71. Population estimates for calcium (CA16) for the Mid-Atlantic Coastal Plain subregion (3B).



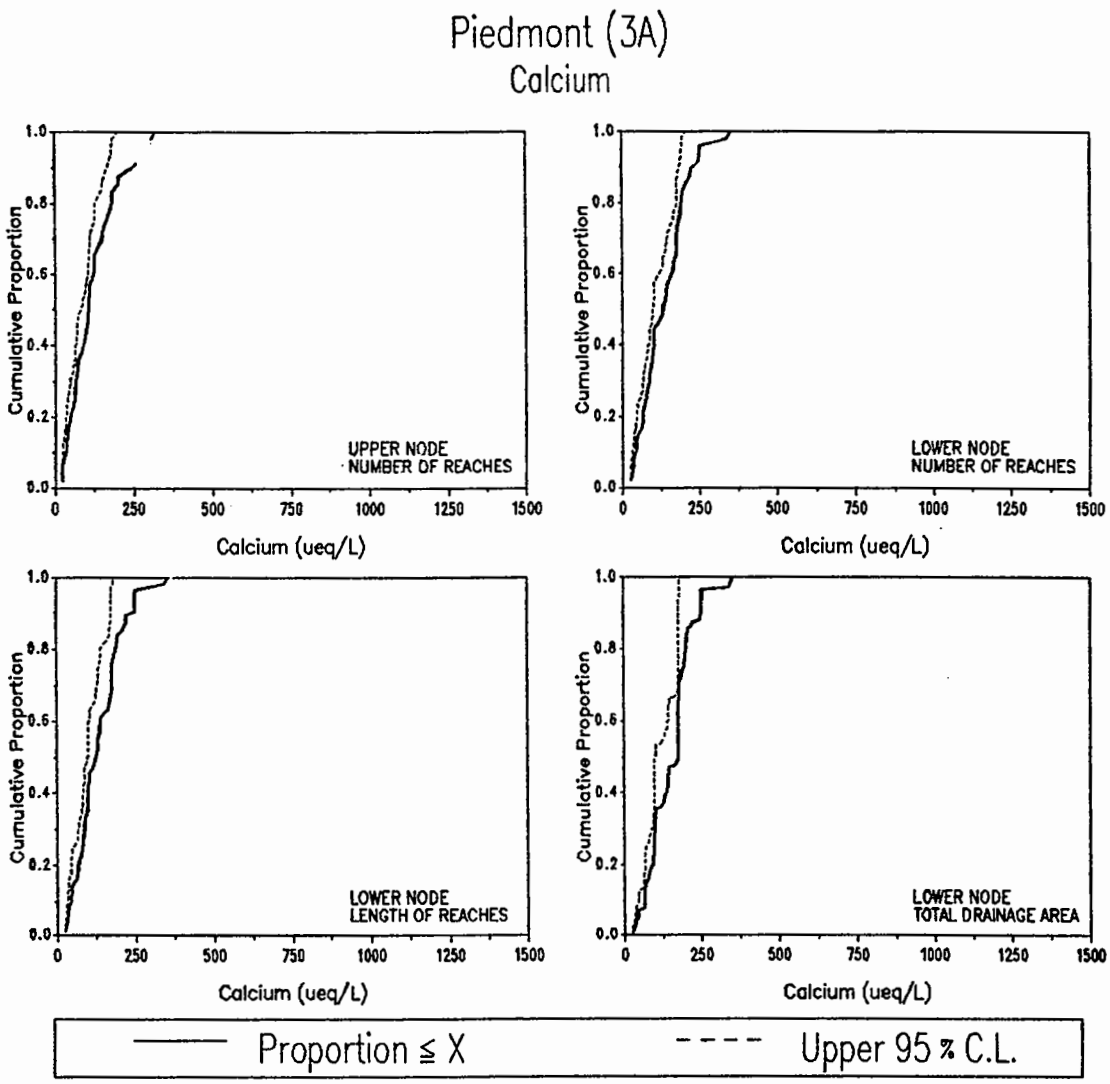
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (ueq/L)	25.97	36.81	36.02	36.20
40 % (ueq/L)	43.95	59.80	59.92	53.58
MEDIAN (ueq/L)	44.70	64.72	66.21	59.26
60 % (ueq/L)	50.12	71.92	85.33	59.76
80 % (ueq/L)	100.26	132.33	163.33	120.74

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	16.27	1841.31	173.45	386.52
LOWER	54	25.45	1588.48	191.89	362.04

Figure 5-72. Population estimates for calcium (CA16) for the Southern Blue Ridge subregion (2As).

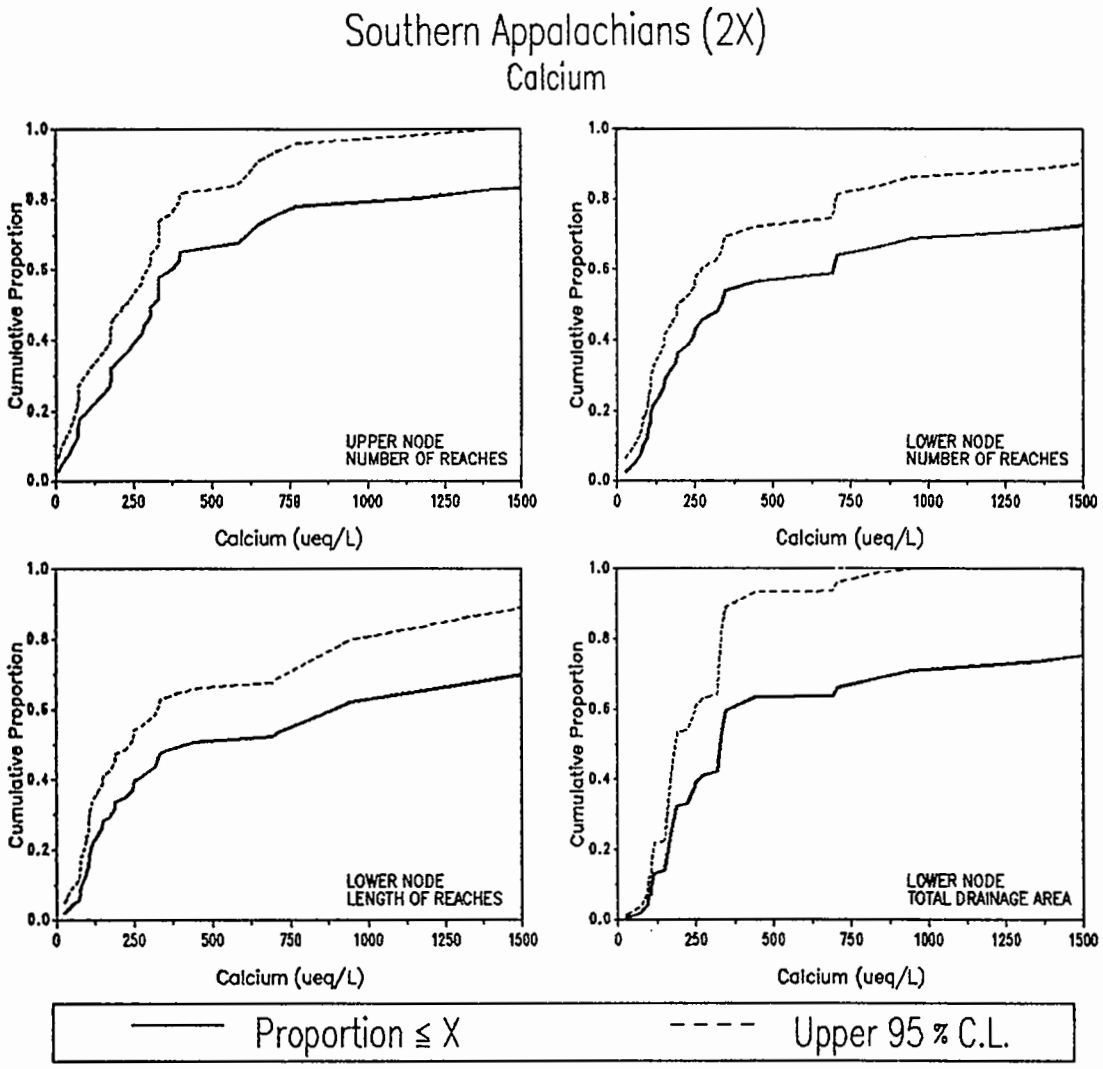


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (ueq/L)	48.77	66.72	69.00	94.62
40 % (ueq/L)	88.86	103.82	99.39	139.59
MEDIAN (ueq/L)	108.26	131.93	126.05	176.18
60 % (ueq/L)	123.29	160.84	142.09	176.62
80 % (ueq/L)	181.86	192.62	190.15	202.12

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	23.20	319.36	123.99	80.47
LOWER	47	27.15	354.79	140.06	76.33

Figure 5-73. Population estimates for calcium (CA16) for the Piedmont subregion (3A).

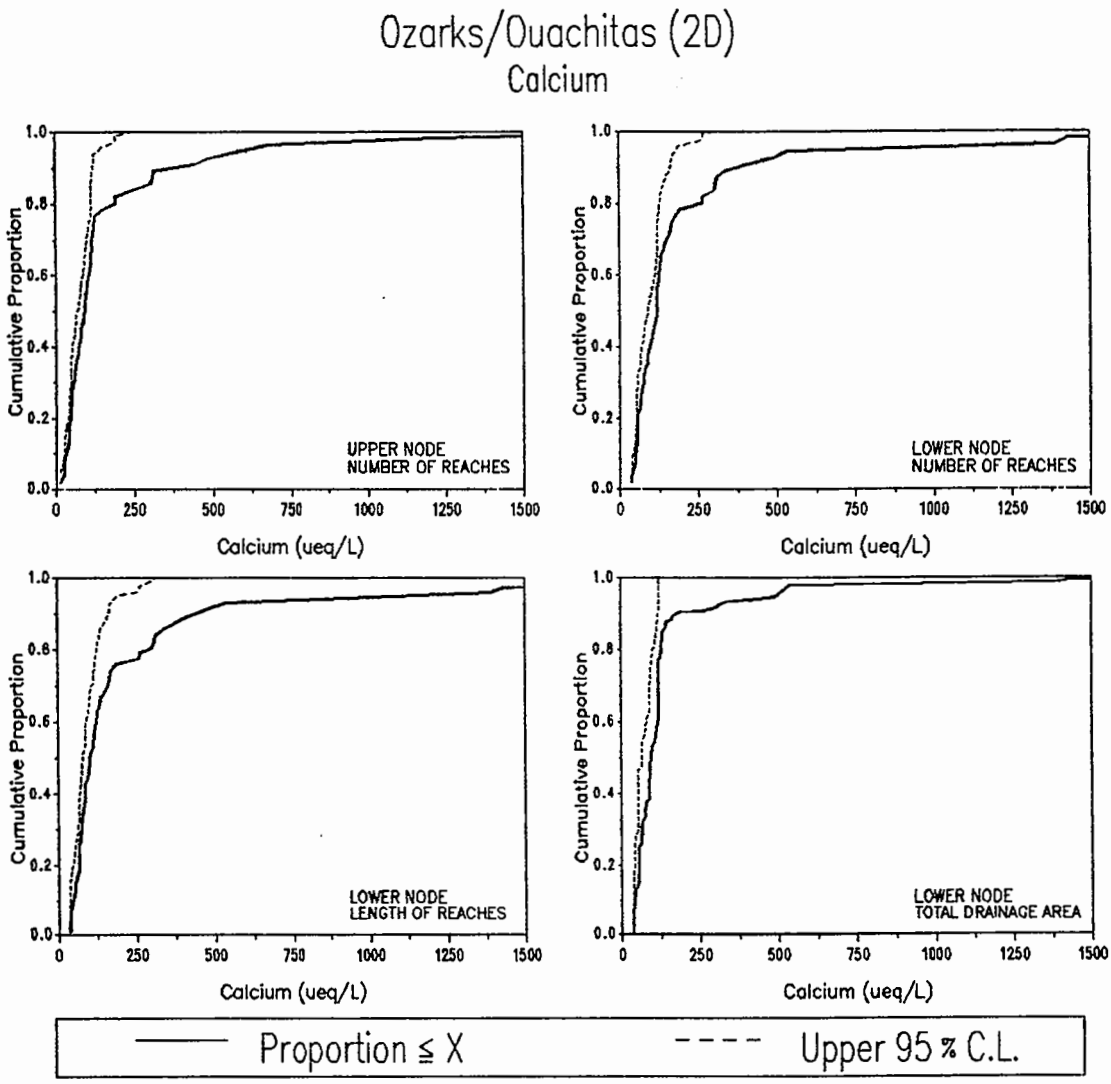


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (ueq/L)	101.04	109.84	110.99	161.77
40 % (ueq/L)	259.67	238.47	257.98	261.22
MEDIAN (ueq/L)	312.47	332.21	426.04	329.67
60 % (ueq/L)	372.81	697.24	893.04	359.07
80 % (ueq/L)	1115.52	1814.88	1701.47	1700.15

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	9.28	2300.39	641.38	718.27
LOWER	40	26.95	2789.41	833.10	857.24

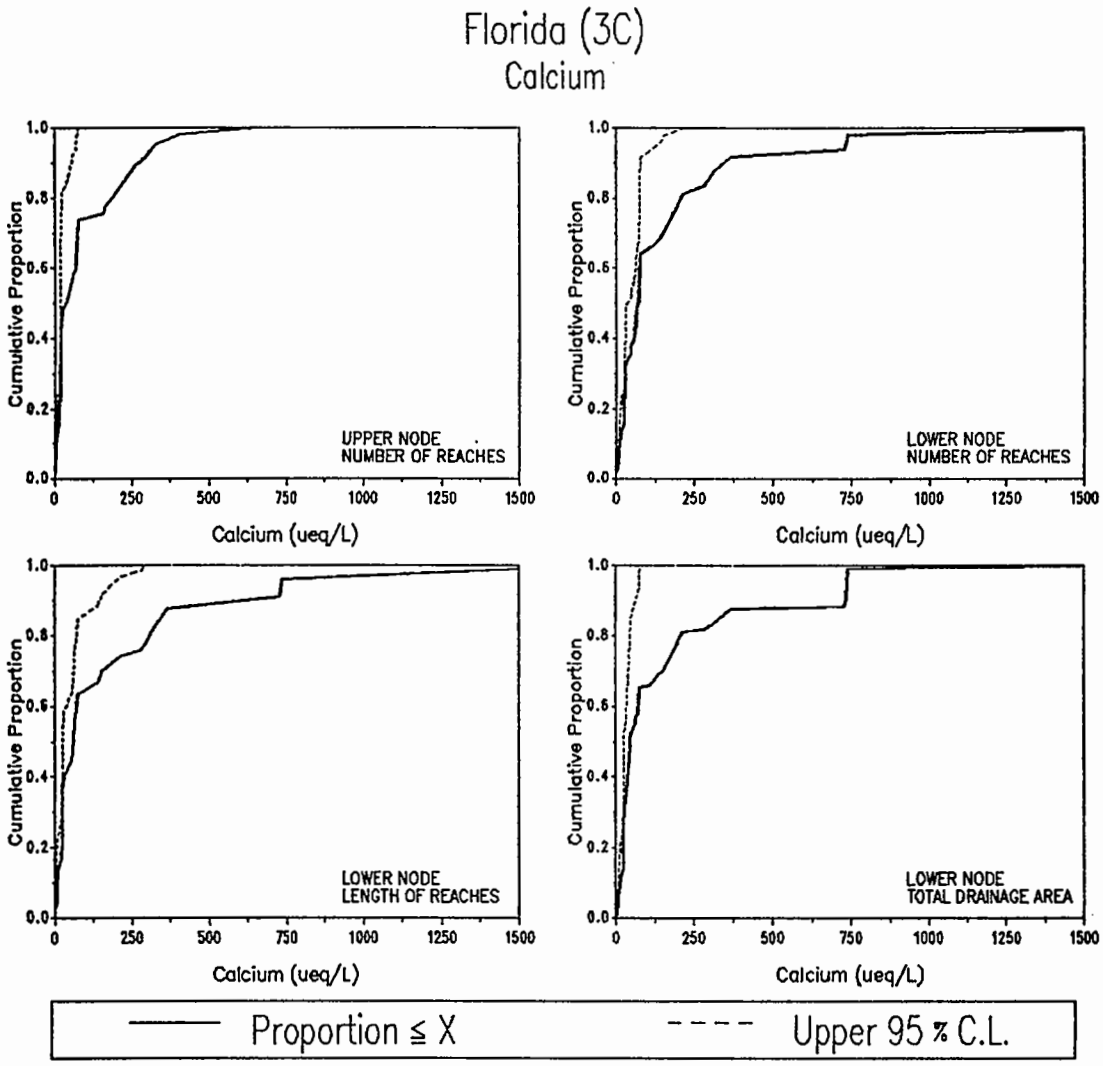
Figure 5-74. Population estimates for calcium (CA16) for the Southern Appalachians subregion (2X).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (ueq/L)	47.94	56.11	65.35	54.27
40 % (ueq/L)	72.93	95.31	87.76	87.91
MEDIAN(ueq/L)	91.36	117.84	103.68	94.38
60 % (ueq/L)	107.28	124.64	122.58	115.44
80 % (ueq/L)	190.63	262.99	290.87	127.30

SUMMARY STATISTICS (ueq/L)					
	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	14.32	2078.93	187.12	324.08
LOWER	48	37.23	2777.93	237.04	433.87

Figure 5-75. Population estimates for calcium (CA16) for the Ozarks/Ouachitas subregion (2D).



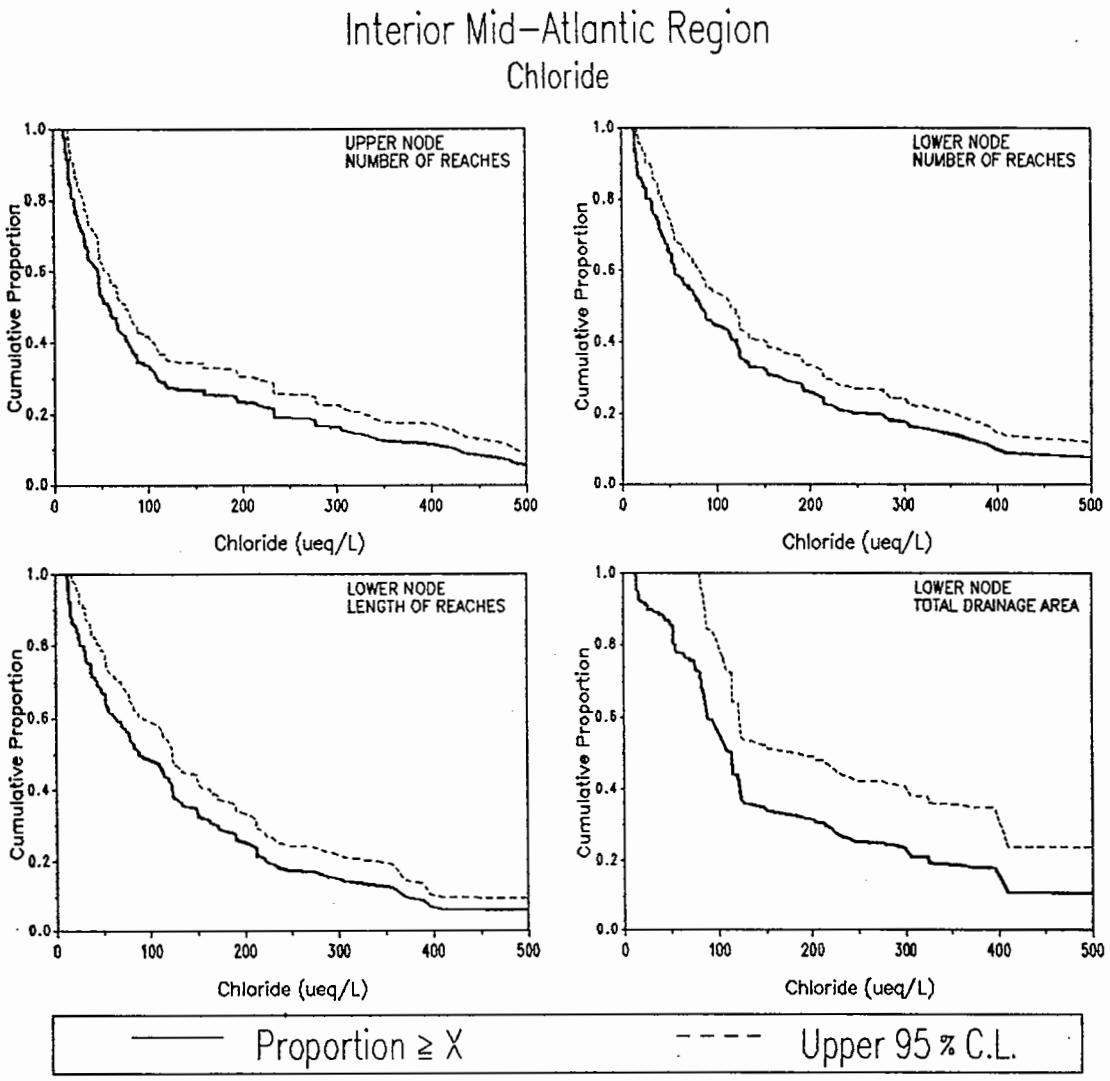
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1 35	4820	26382
STD ERROR	437	306	723	6633
20 % (ueq/L)	16.33	25.95	25.39	25.88
40 % (ueq/L)	19.97	56.61	31.04	37.85
MEDIAN(ueq/L)	37.66	69.95	62.31	46.23
60 % (ueq/L)	69.46	75.03	72.84	73.14
80 % (ueq/L)	187.56	207.27	310.22	208.45

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	3.14	653.69	102.95	133.75
LOWER	34	4.99	1741.51	174.61	290.43

Figure 5-76. Population estimates for calcium (CA16) for Florida subregion (3C).

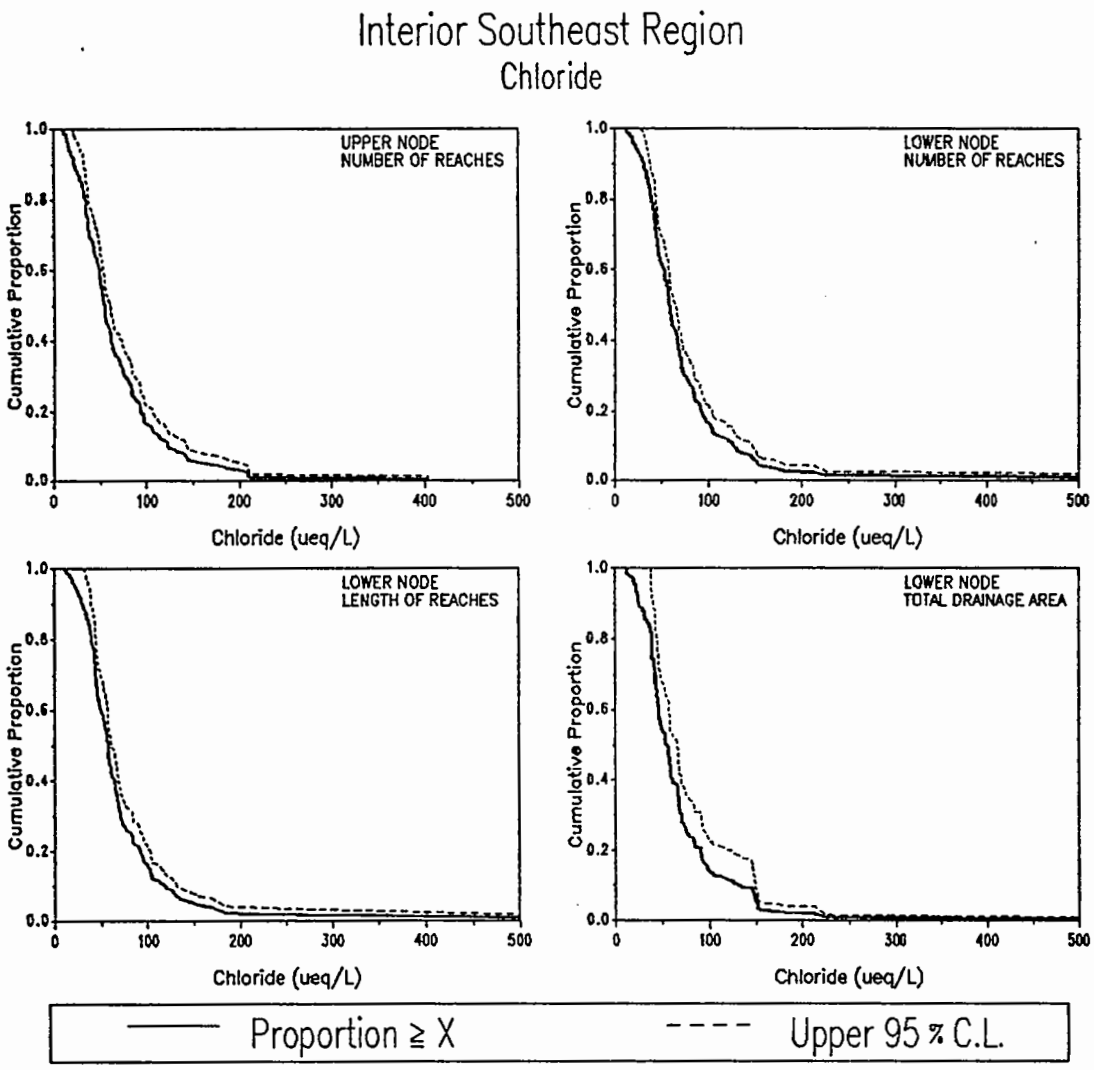


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (ueq/L)	232.28	239.93	218.70	315.92
40 % (ueq/L)	77.82	115.87	123.28	119.37
MEDIAN (ueq/L)	57.03	81.37	86.65	111.23
60 % (ueq/L)	45.88	54.39	62.13	86.42
80 % (ueq/L)	21.17	25.88	25.10	52.43

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	10.04	1497.95	144.14	214.18
LOWER	164	10.82	1968.86	170.04	264.94

Figure 5-77. Population estimates for chloride (CL16) for the Mid-Atlantic Region.

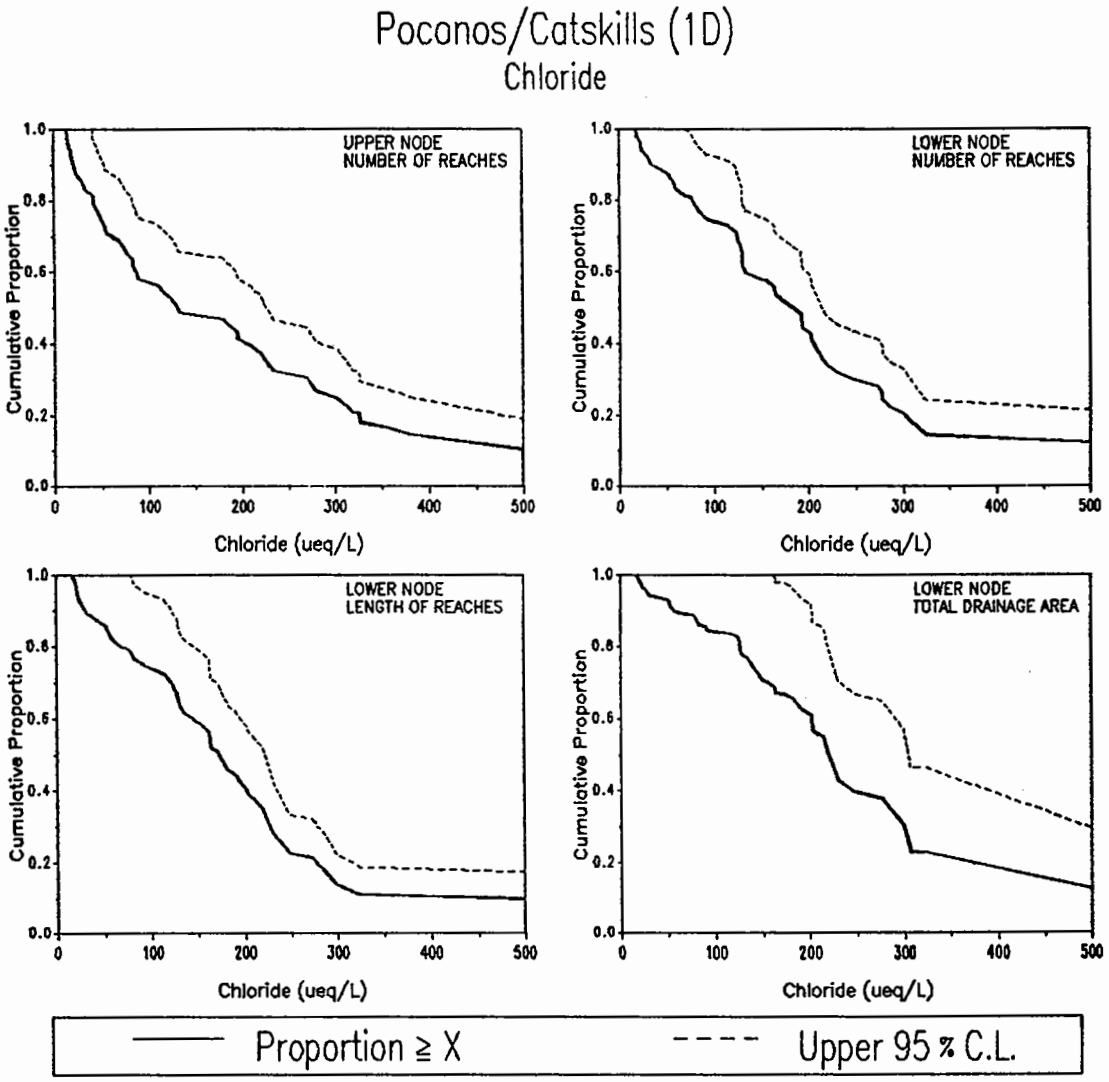


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (ueq/L)	92.50	90.49	90.52	90.30
40 % (ueq/L)	60.72	65.47	63.46	59.56
MEDIAN (ueq/L)	54.09	57.17	57.07	53.55
60 % (ueq/L)	47.94	50.78	48.79	45.55
80 % (ueq/L)	32.84	38.91	39.03	38.54

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	9.06	403.40	66.11	46.97
LOWER	189	11.29	622.03	70.53	57.81

Figure 5-78. Population estimates for chloride (CL16) for the Southeastern Region.

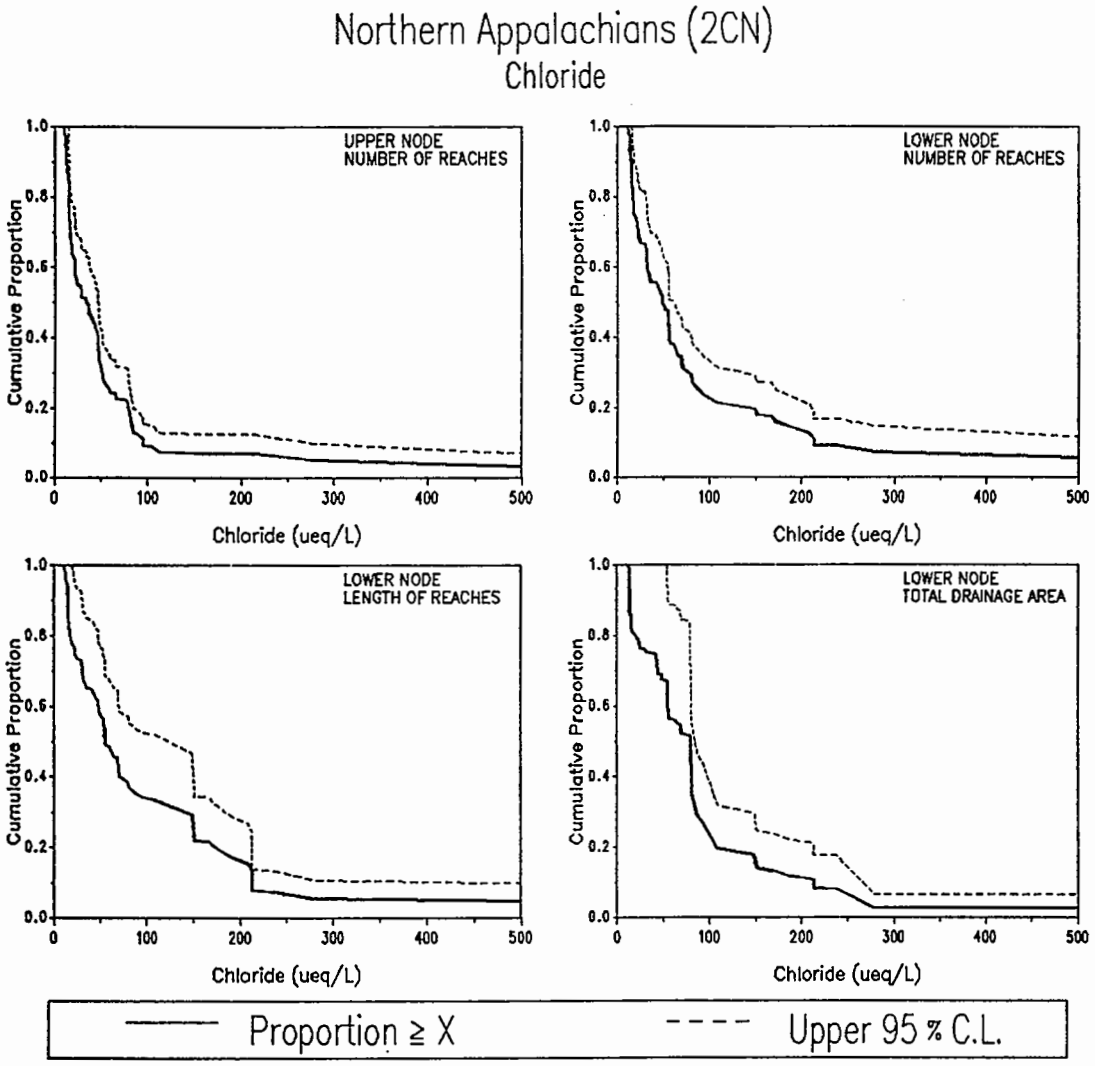


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (ueq/L)	319.77	288.09	270.89	310.92
40 % (ueq/L)	194.54	201.91	195.15	228.71
MEDIAN (ueq/L)	125.78	172.56	164.97	213.03
60 % (ueq/L)	83.03	129.49	132.15	194.88
80 % (ueq/L)	38.98	71.30	59.07	123.96

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	13.68	1497.95	205.99	217.98
LOWER	56	17.28	859.29	223.42	206.16

Figure 5-79. Population estimates for chloride (CL16) for the Poconos/Catskills subregion (1D).



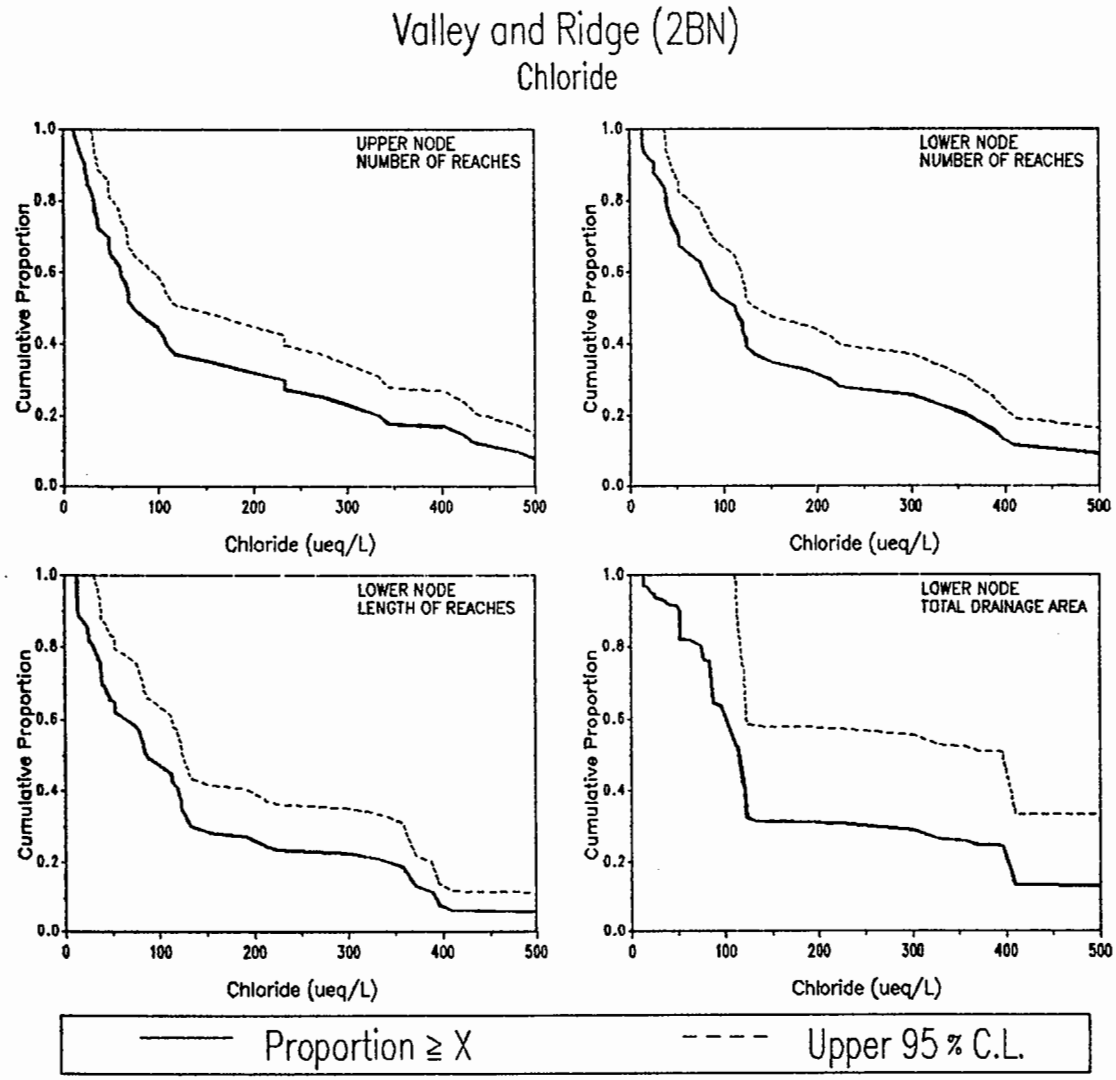
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (ueq/L)	78.29	104.15	167.35	93.31
40 % (ueq/L)	45.44	55.13	69.82	77.27
MEDIAN (ueq/L)	32.01	47.31	55.11	71.55
60 % (ueq/L)	20.09	31.15	46.46	53.89
80 % (ueq/L)	15.49	15.66	17.19	17.32

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	10.66	880.15	66.15	128.05
LOWER	61	10.82	994.40	96.54	165.18

Figure 5-80. Population estimates for chloride (CL16) for the Northern Appalachians subregion (2Cn).

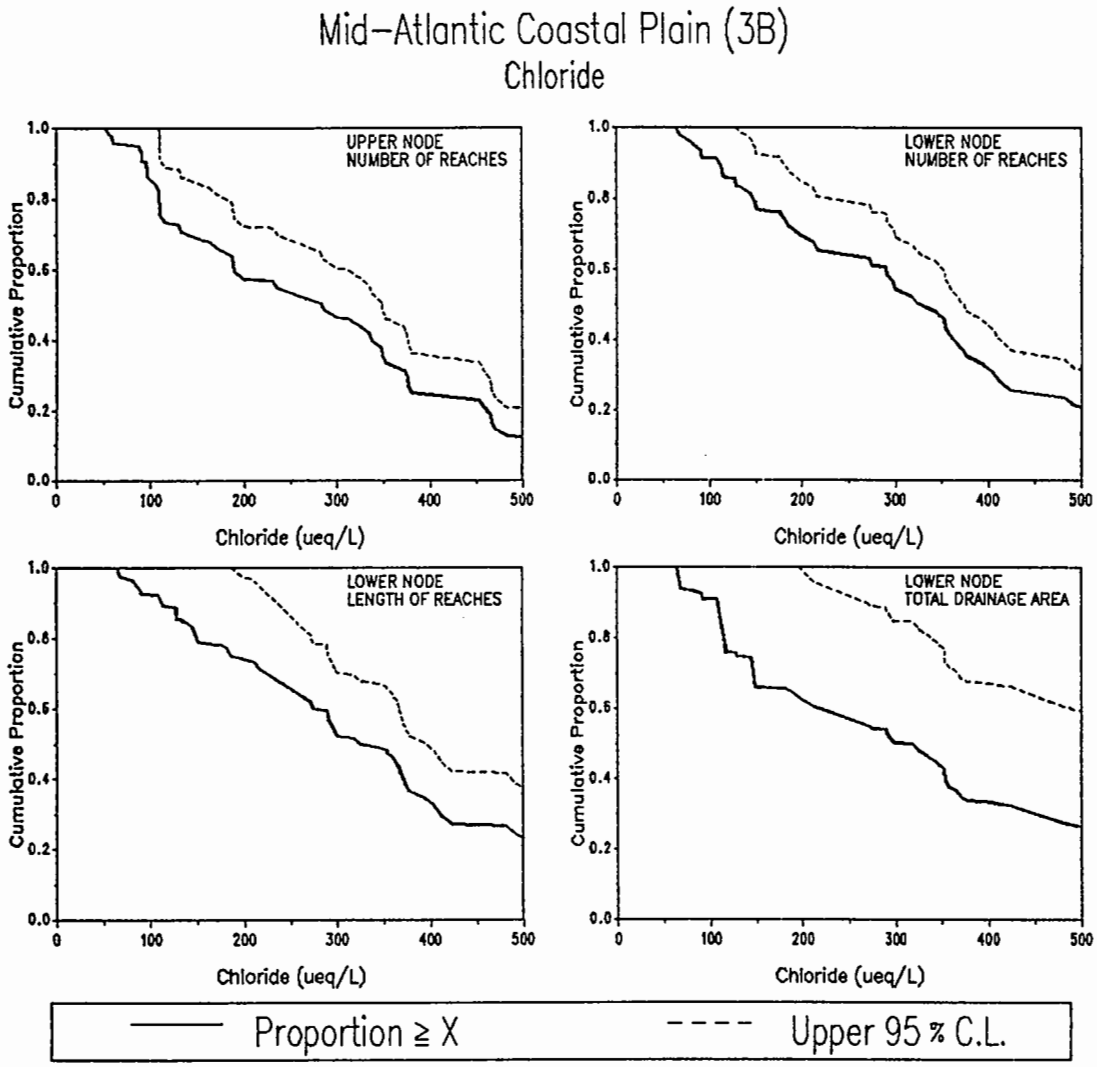


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (ueq/L)	306.51	337.76	328.87	391.24
40 % (ueq/L)	104.38	121.79	116.27	119.13
MEDIAN(ueq/L)	67.92	100.79	83.15	111.99
60 % (ueq/L)	58.01	74.73	53.22	90.51
80 % (ueq/L)	28.93	37.78	25.04	64.00

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	10.04	1322.87	180.56	242.35
LOWER	47	12.79	1968.86	202.29	312.49

Figure 5-81. Population estimates for chloride (CL16) for the Valley and Ridge subregion (2Bn).

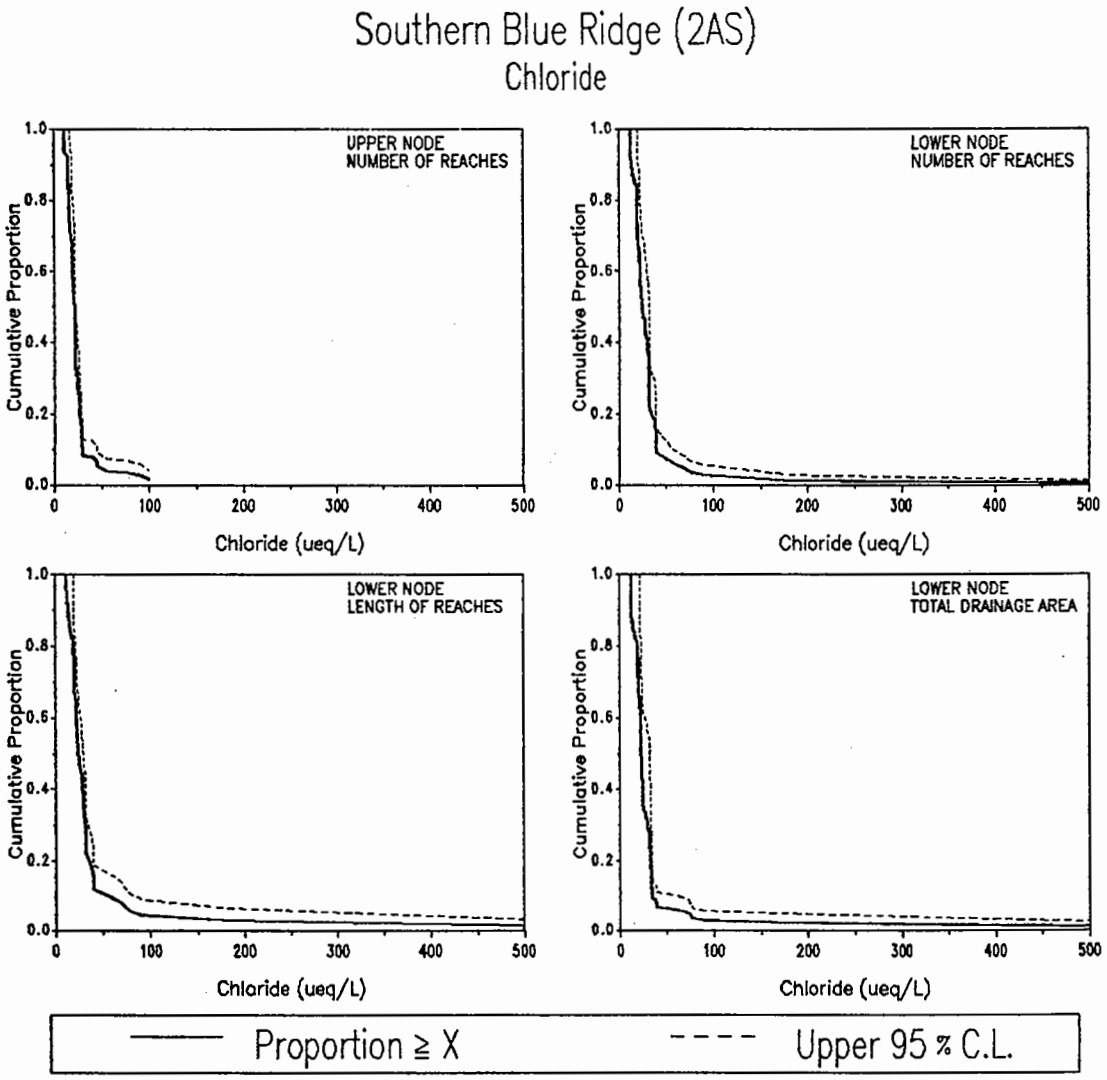


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (ueq/L)	454.96	489.05	499.31	731.30
40 % (ueq/L)	333.51	357.01	363.25	351.25
MEDIAN (ueq/L)	264.43	318.34	317.14	299.98
60 % (ueq/L)	188.09	279.40	266.85	211.54
80 % (ueq/L)	109.08	139.38	148.69	112.83

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	51.85	1225.02	317.82	260.51
LOWER	58	64.36	1379.64	373.00	278.99

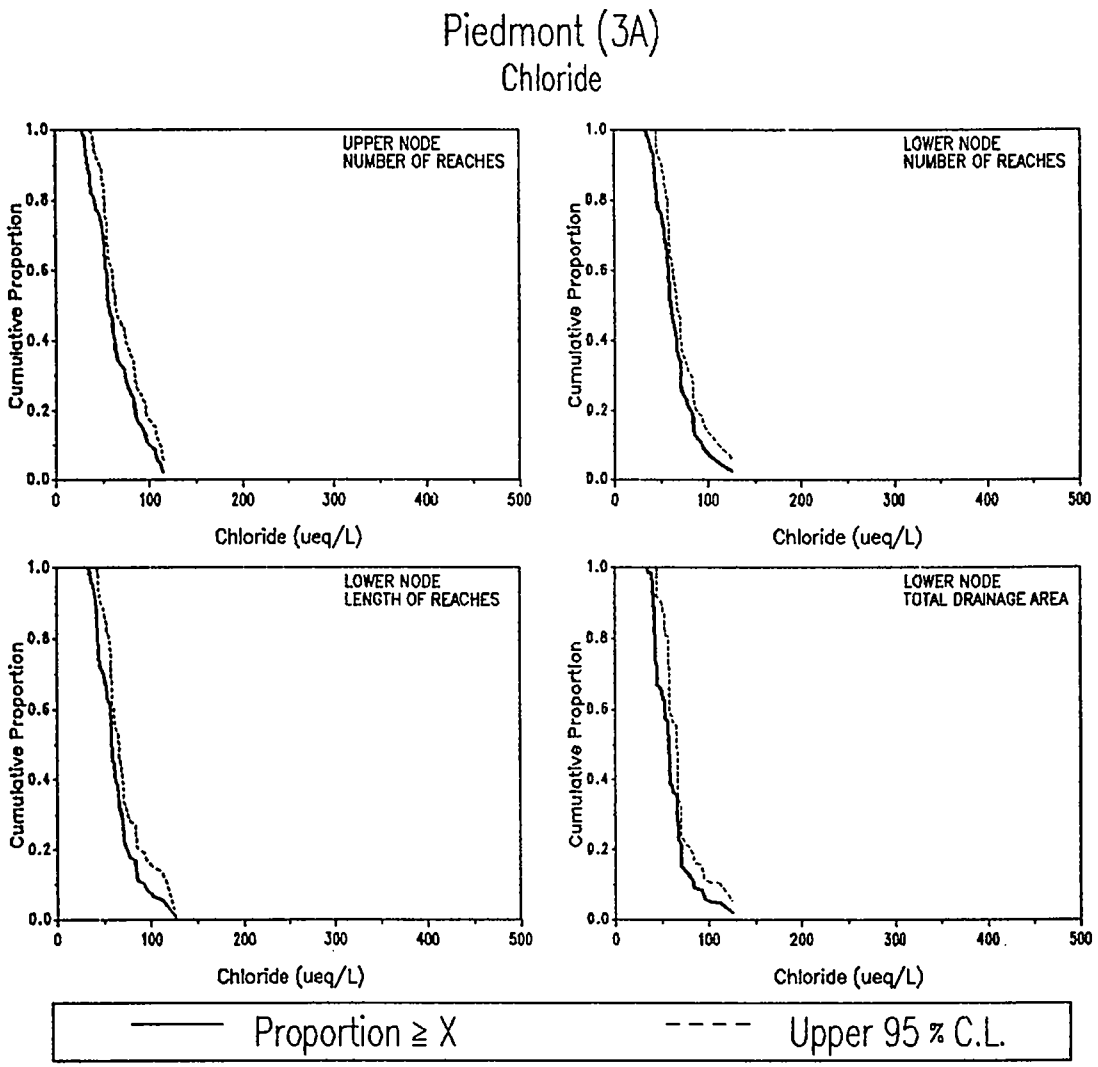
Figure 5-82. Population estimates for chloride (CL16) for the Mid-Atlantic Coastal Plain subregion (3B).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (ueq/L)	25.07	31.37	31.89	31.30
40 % (ueq/L)	21.06	27.80	27.14	22.55
MEDIAN(ueq/L)	20.66	23.45	23.69	21.94
60 % (ueq/L)	18.43	21.49	21.55	21.42
80 % (ueq/L)	15.23	18.87	18.13	18.88

SUMMARY STATISTICS (ueq/L)					
		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	10.13	99.02	23.02	14.76
LOWER	54	11.29	622.03	29.81	34.75

Figure 5-83. Population estimates for chloride (CL16) for the Southern Blue Ridge subregion (2As).

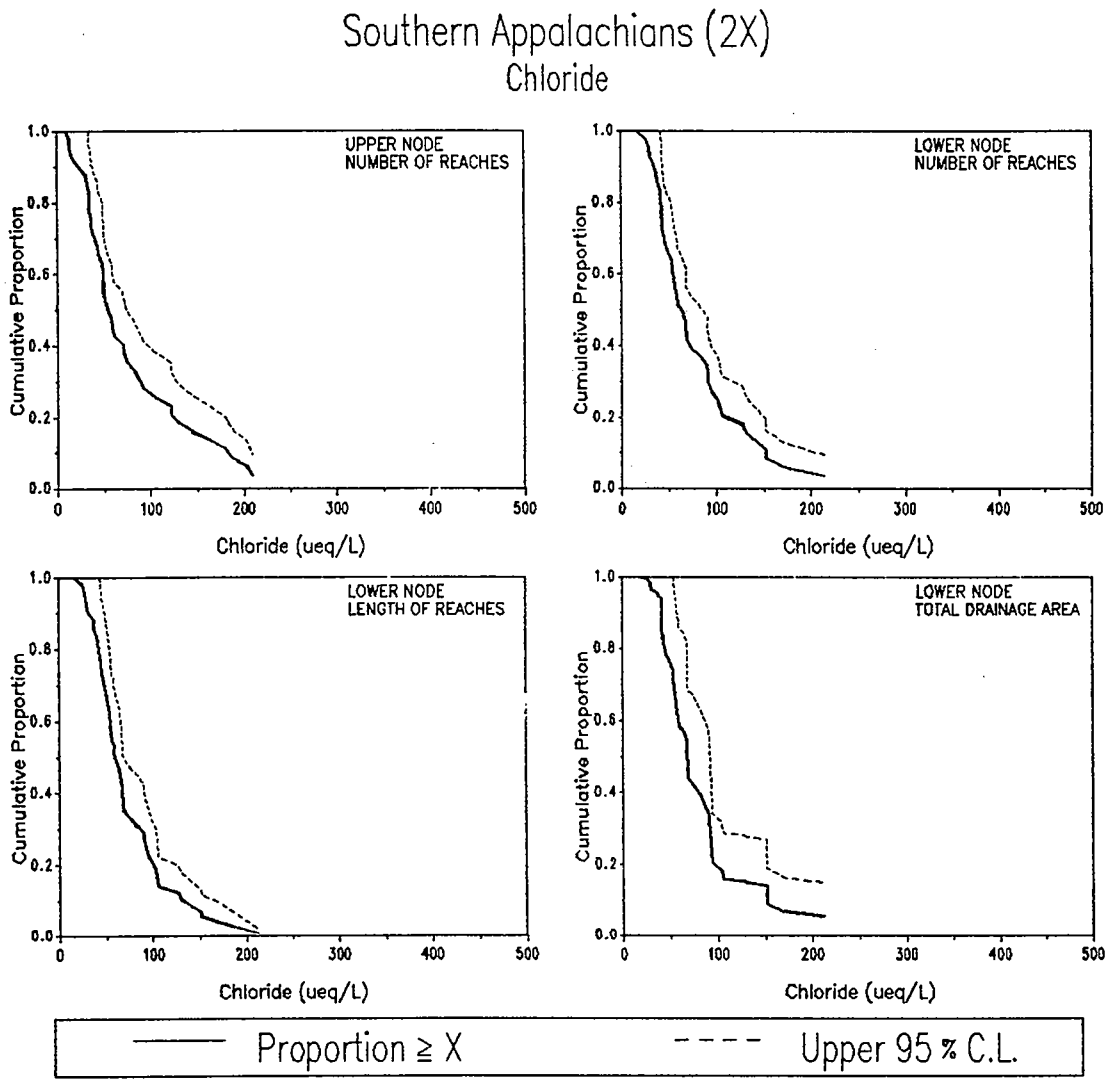


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (ueq/L)	82.63	77.25	71.32	69.77
40 % (ueq/L)	60.49	64.99	61.24	57.66
MEDIAN(ueq/L)	55.01	58.55	57.61	56.53
60 % (ueq/L)	52.40	56.63	56.10	51.90
80 % (ueq/L)	37.95	44.66	42.95	42.31

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	27.90	114.22	61.82	22.97
LOWER	47	34.02	125.53	63.79	20.00

Figure 5-84. Population estimates for chloride (CL16) for the Piedmont subregion (3A).

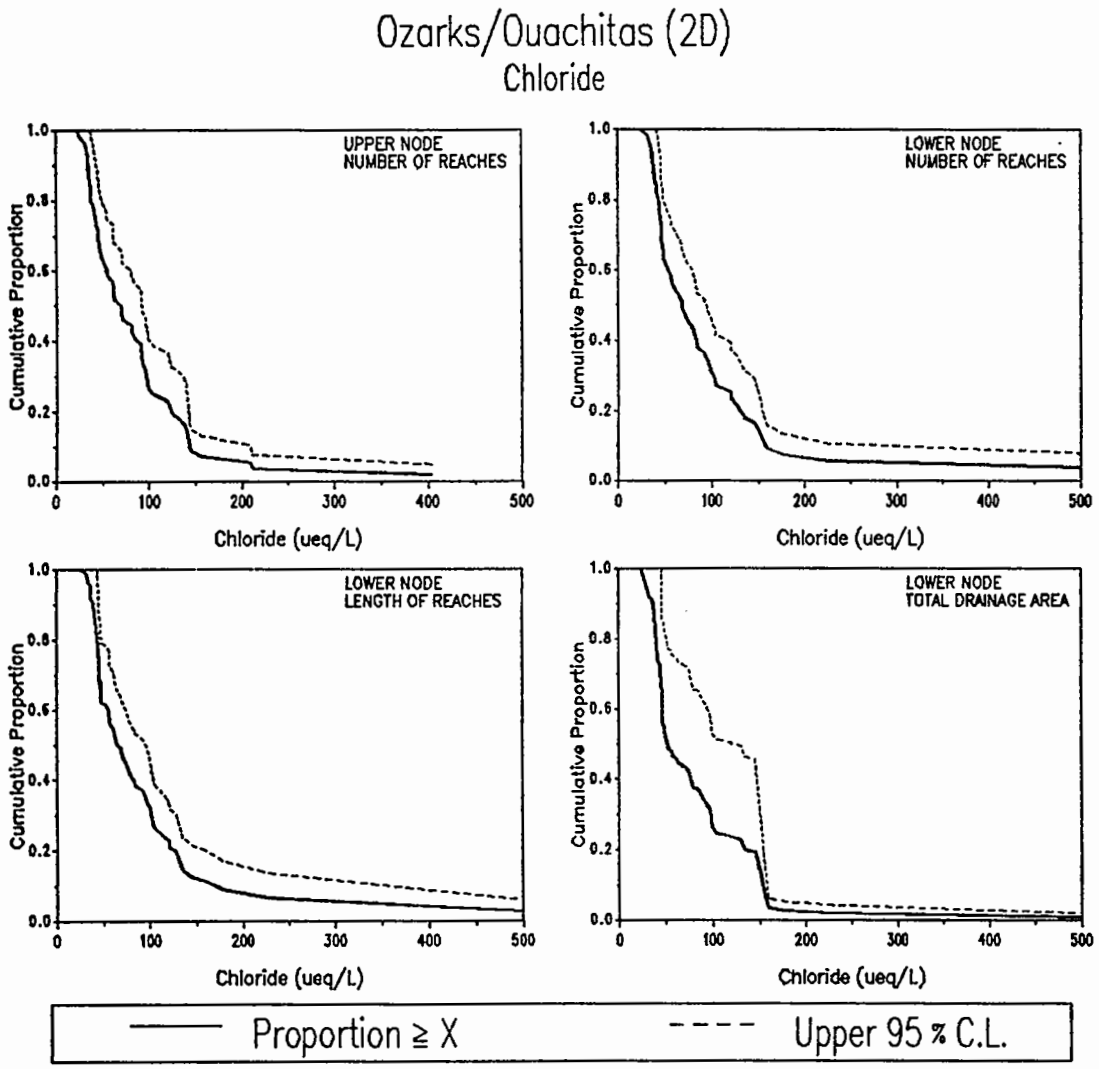


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (ueq/L)	122.06	103.62	94.08	91.65
40 % (ueq/L)	62.57	68.10	65.76	71.25
MEDIAN (ueq/L)	50.91	58.75	58.52	65.98
60 % (ueq/L)	47.78	53.12	53.27	57.02
80 % (ueq/L)	34.17	40.90	41.30	42.98

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	9.06	208.47	75.35	55.44
LOWER	40	16.31	212.14	76.38	45.71

Figure 5-85. Population estimates for chloride (CL16) for the Southern Appalachians subregion (2X).

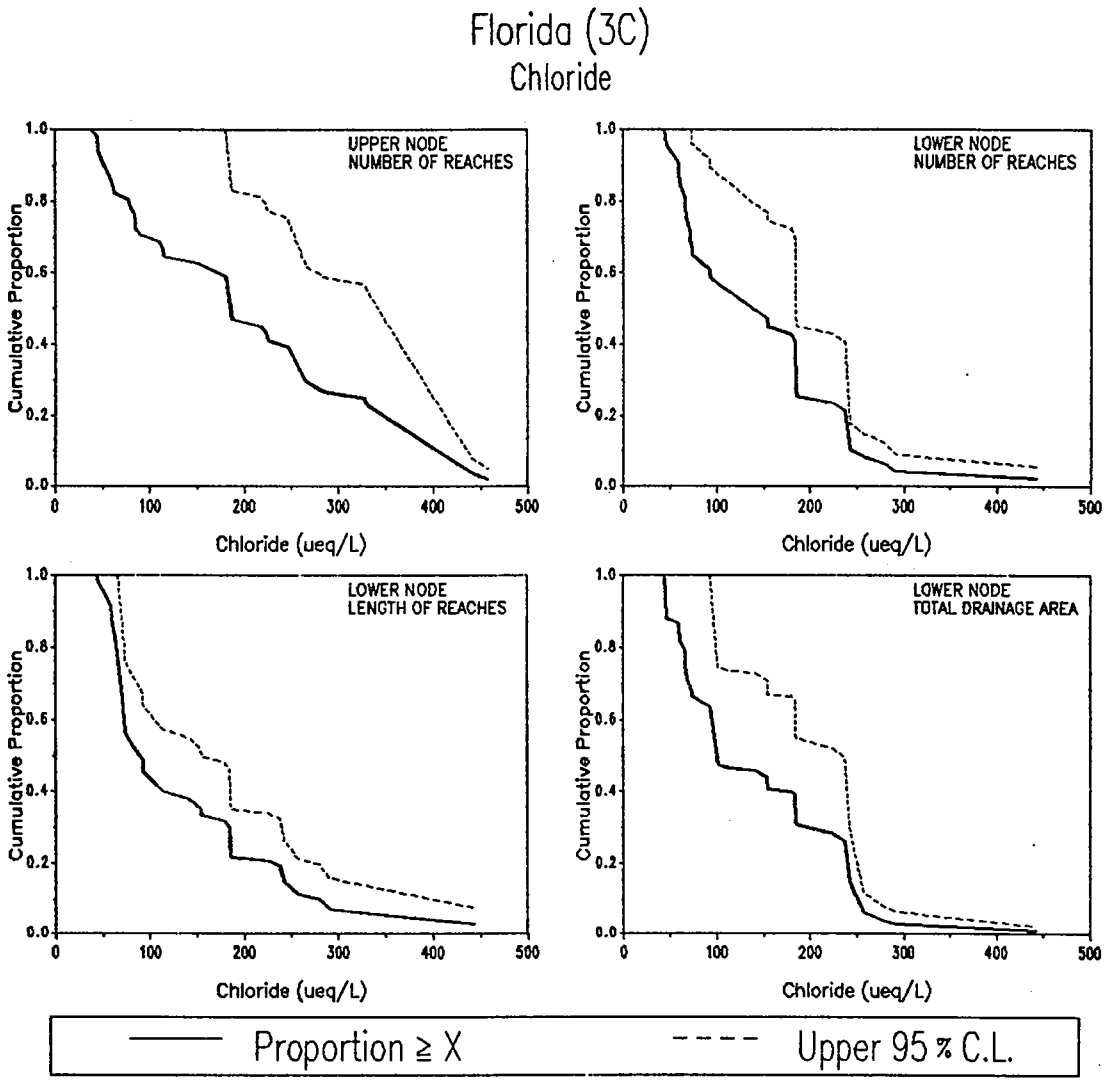


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (ueq/L)	120.99	126.26	120.17	130.61
40 % (ueq/L)	82.15	79.46	79.44	72.73
MEDIAN (ueq/L)	63.05	66.55	61.23	47.87
60 % (ueq/L)	50.89	47.96	53.05	45.59
80 % (ueq/L)	37.53	41.56	43.11	38.64

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	22.43	403.40	83.76	61.69
LOWER	48	24.29	592.41	95.72	98.62

Figure 5-86. Population estimates for chloride (CL16) for the Ozarks/Ouachitas subregion (2D).

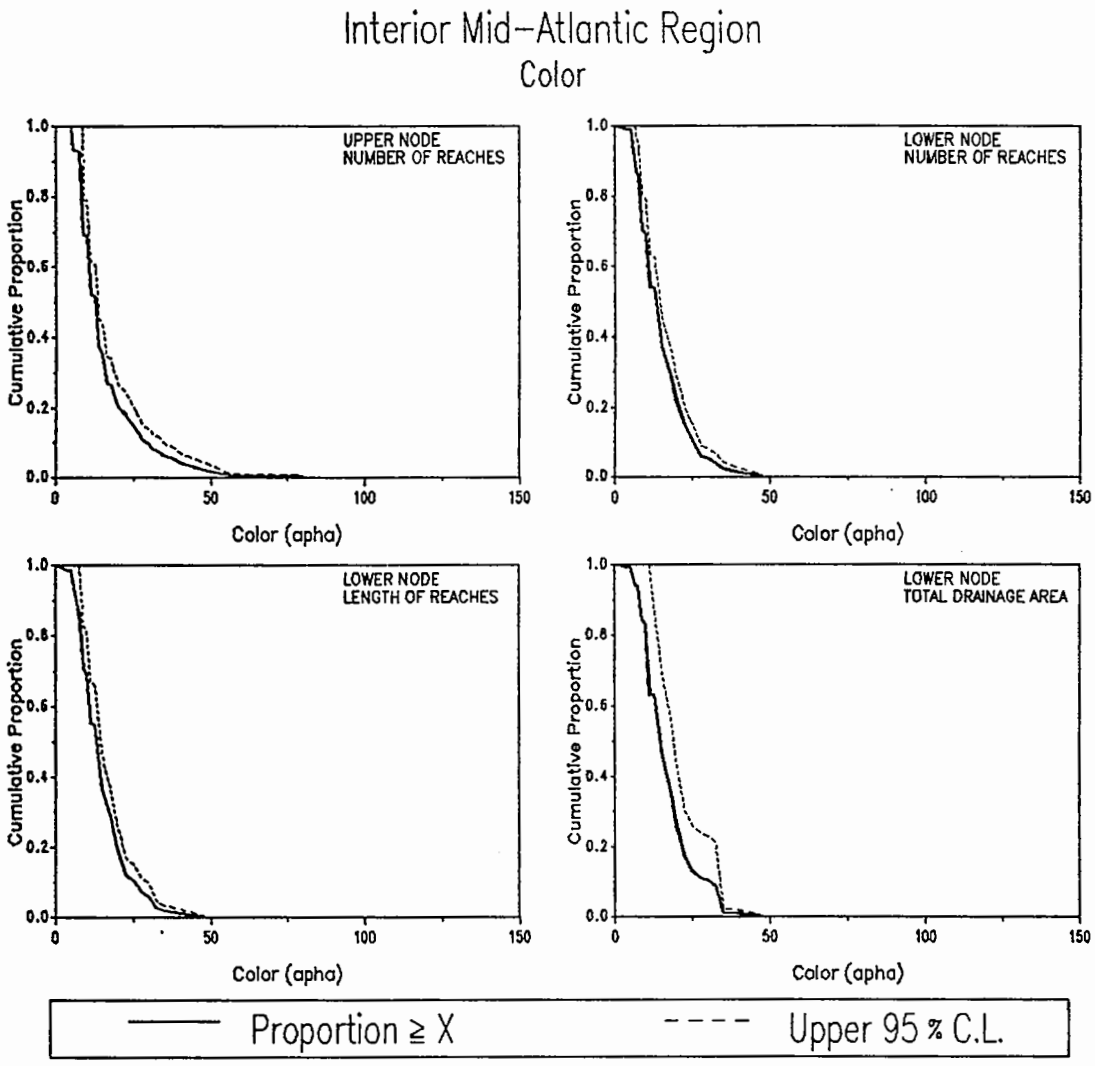


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (ueq/L)	327.67	225.97	207.11	231.36
40 % (ueq/L)	223.63	179.28	101.65	154.56
MEDIAN (ueq/L)	172.13	111.49	80.03	93.00
60 % (ueq/L)	139.77	86.53	71.63	92.65
80 % (ueq/L)	65.77	64.34	62.45	61.76

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	37.80	457.00	193.04	113.36
LOWER	34	43.73	442.90	143.65	85.76

Figure 5-87. Population estimates for chloride (CL16) for Florida subregion (3C).

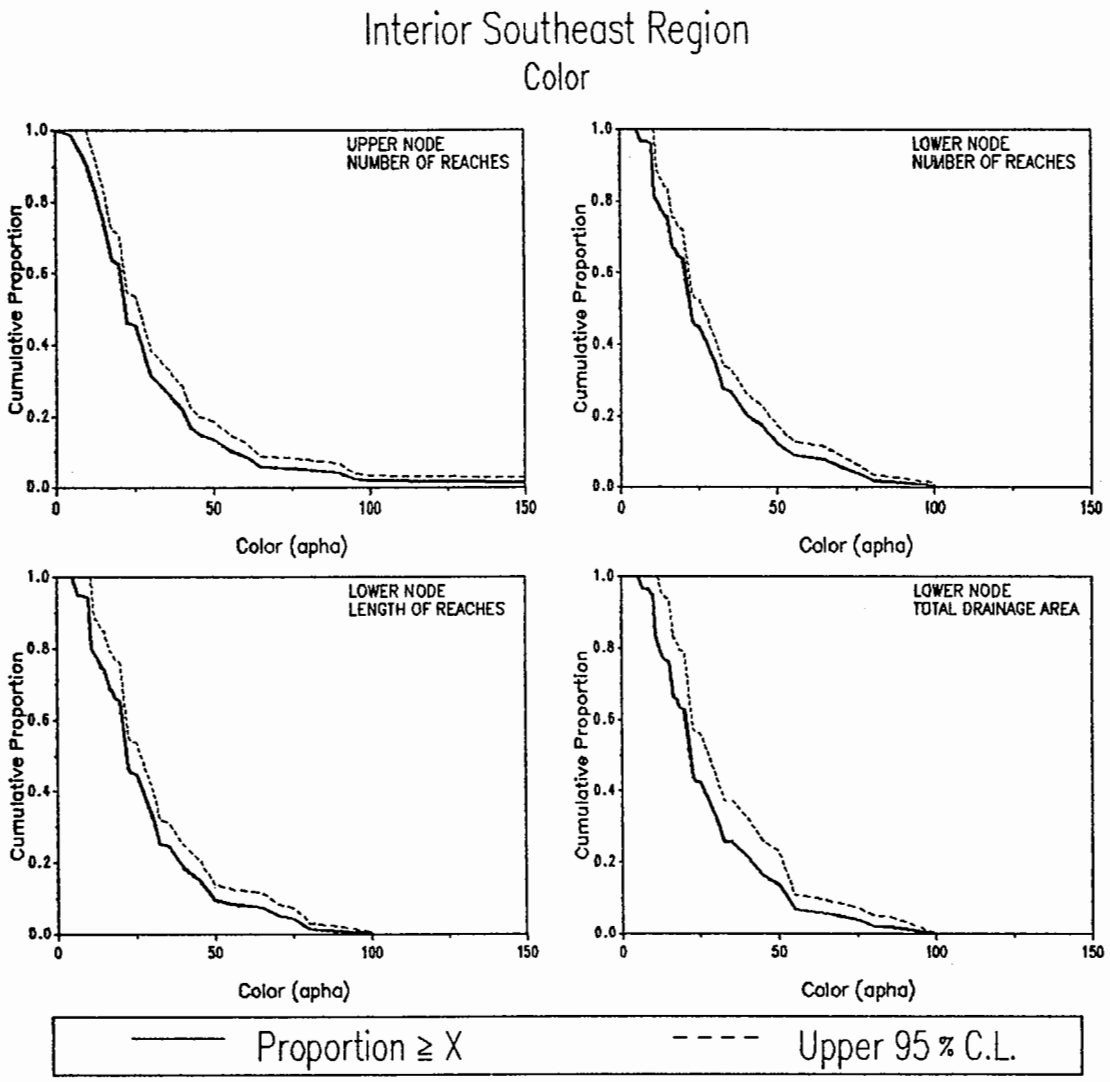


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (apha)	17.73	17.92	17.23	19.11
40 % (apha)	12.29	12.28	12.27	14.39
MEDIAN (apha)	11.40	11.54	11.59	12.27
60 % (apha)	9.42	9.51	9.57	11.49
80 % (apha)	6.65	7.19	7.21	8.94

SUMMARY STATISTICS (apha)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	2.50	80.00	14.64	9.93
LOWER	164	0.00	47.50	13.57	7.52

Figure 5-88. Population estimates for color value (COLVAL) for the Mid-Atlantic Region.

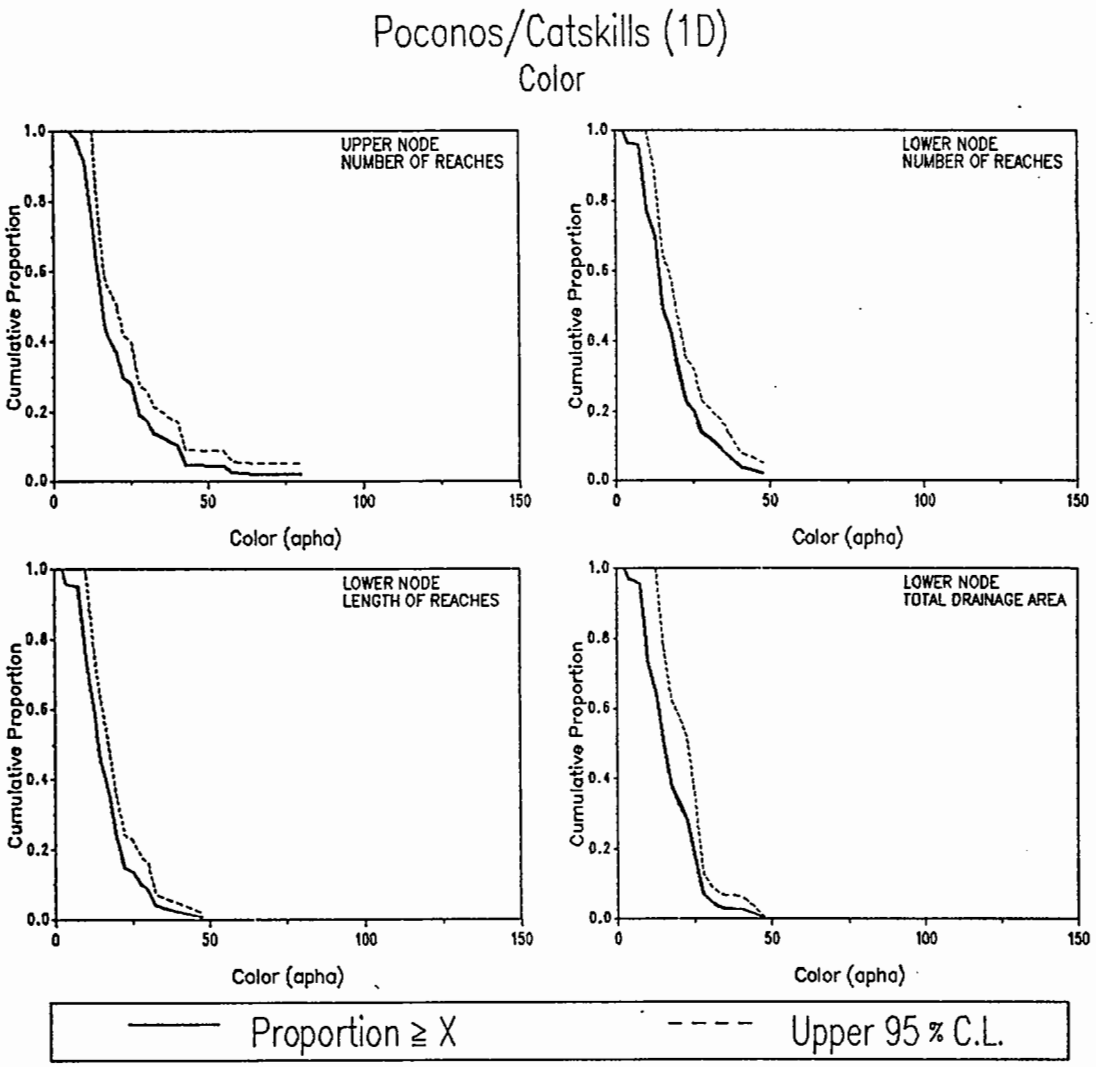


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	17271	18719	88062	401703
STD ERROR	948	987	5892	45347
20 % (apha)	36.80	35.42	34.42	36.33
40 % (apha)	23.47	24.17	24.02	23.74
MEDIAN (apha)	19.43	19.72	19.71	19.45
60 % (apha)	17.89	18.72	18.82	18.58
80 % (apha)	8.46	10.92	10.13	11.08

SUMMARY STATISTICS (apha)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	155	0.00	600.00	29.68	46.27
LOWER	189	5.00	100.00	26.77	17.97

Figure 5-89. Population estimates for color value (COLVAL) for the Southeastern Region.

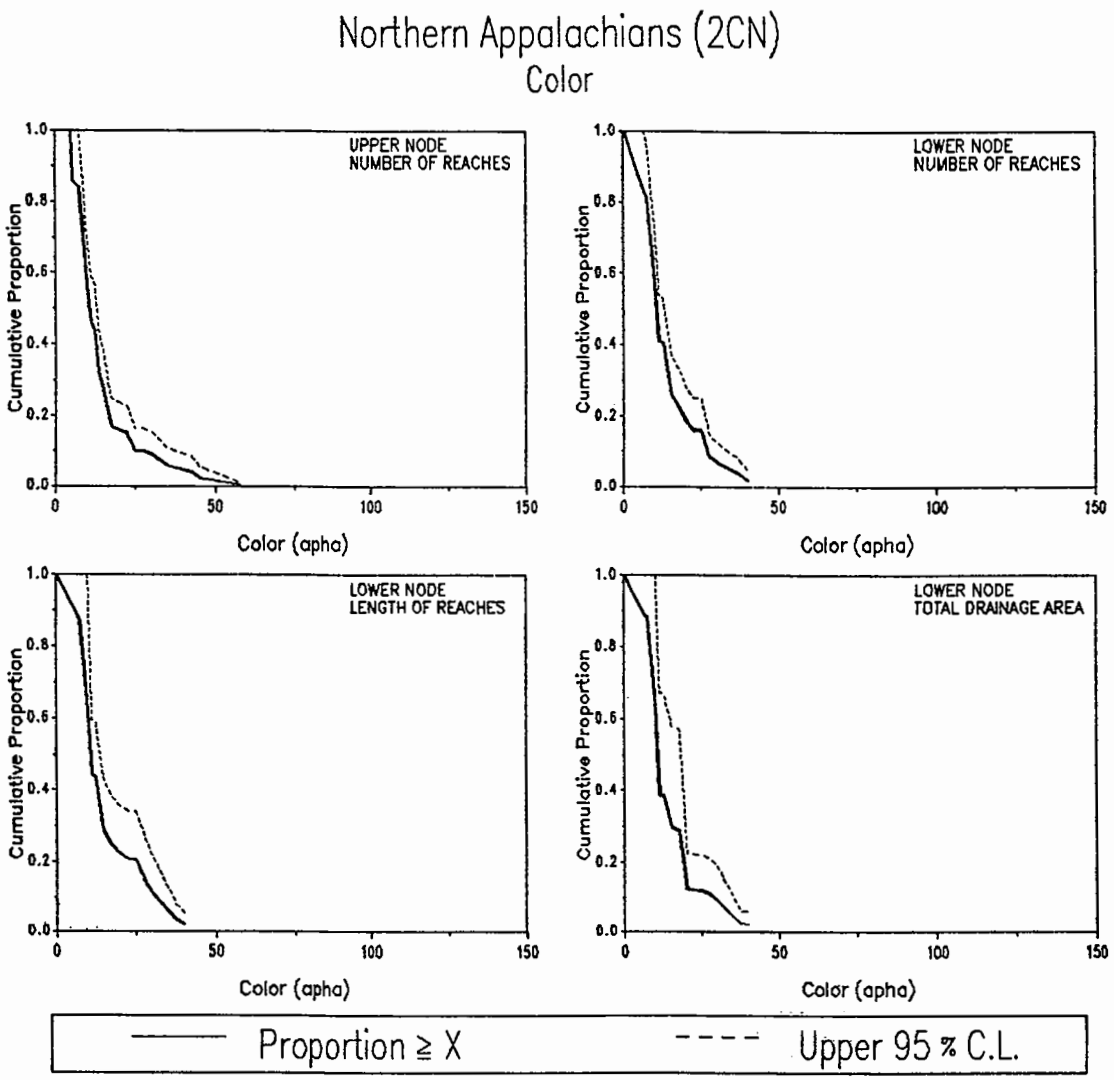


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (apha)	24.78	22.54	18.53	21.89
40 % (apha)	16.71	15.70	13.97	14.51
MEDIAN (apha)	13.97	12.42	11.79	12.41
60 % (apha)	12.05	11.21	10.13	10.74
80 % (apha)	9.56	7.17	6.89	6.80

SUMMARY STATISTICS (apha)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	5.00	80.00	19.63	13.38
LOWER	56	2.50	47.50	16.58	9.45

Figure 5-90. Population estimates for color value (COLVAL) for the Poconos/Catskills subregion (1D).



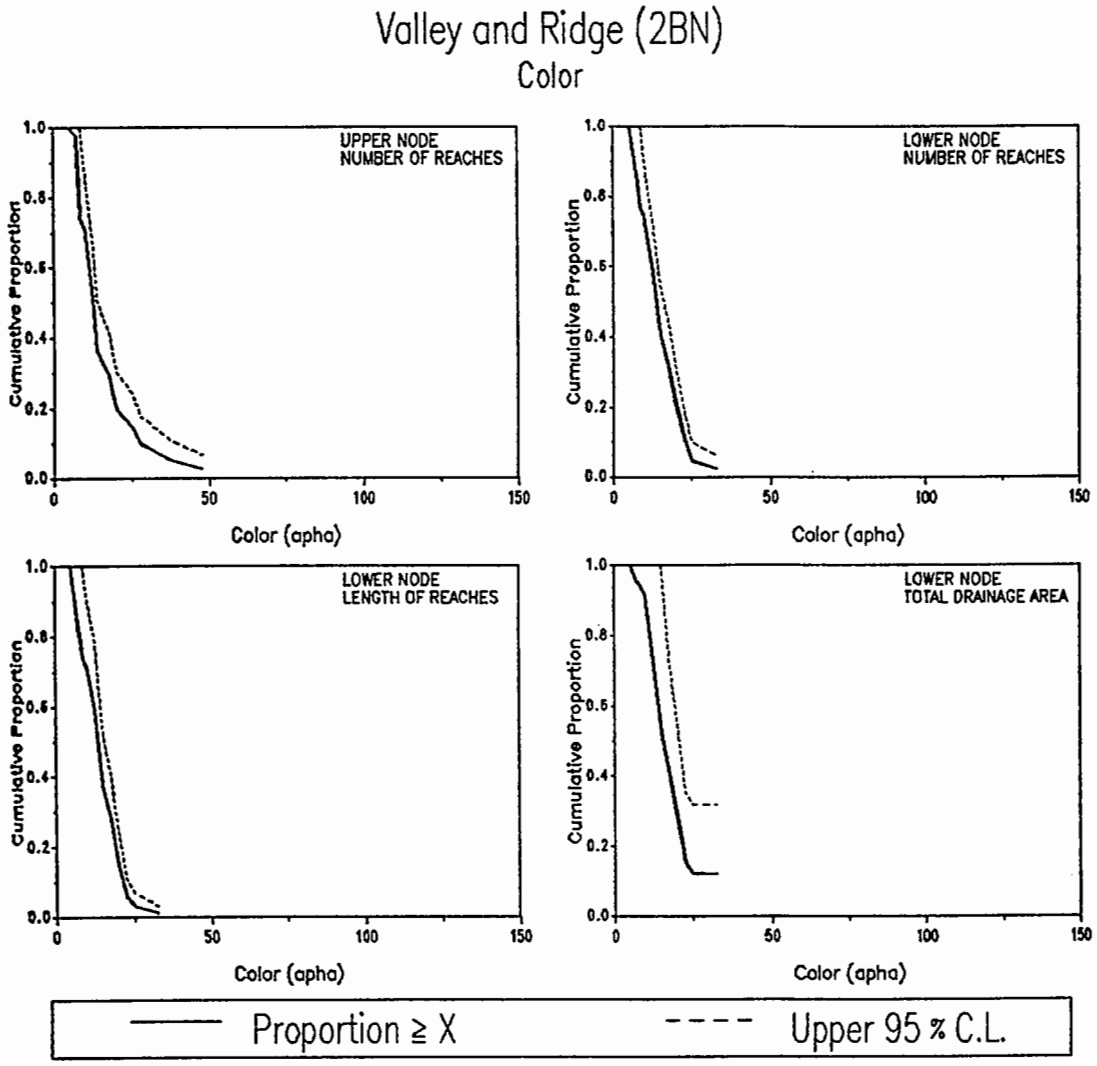
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (apha)	14.65	16.49	22.82	16.34
40 % (apha)	11.68	11.30	11.54	9.87
MEDIAN (apha)	9.04	8.60	9.19	8.87
60 % (apha)	7.25	7.38	7.78	7.88
80 % (apha)	5.79	6.55	6.79	6.84

SUMMARY STATISTICS (apha)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	2.50	57.50	12.95	9.24
LOWER	61	0.00	40.00	12.56	8.42

Figure 5-91. Population estimates for color value (COLVAL) for the Northern Appalachians subregion (2Cn).



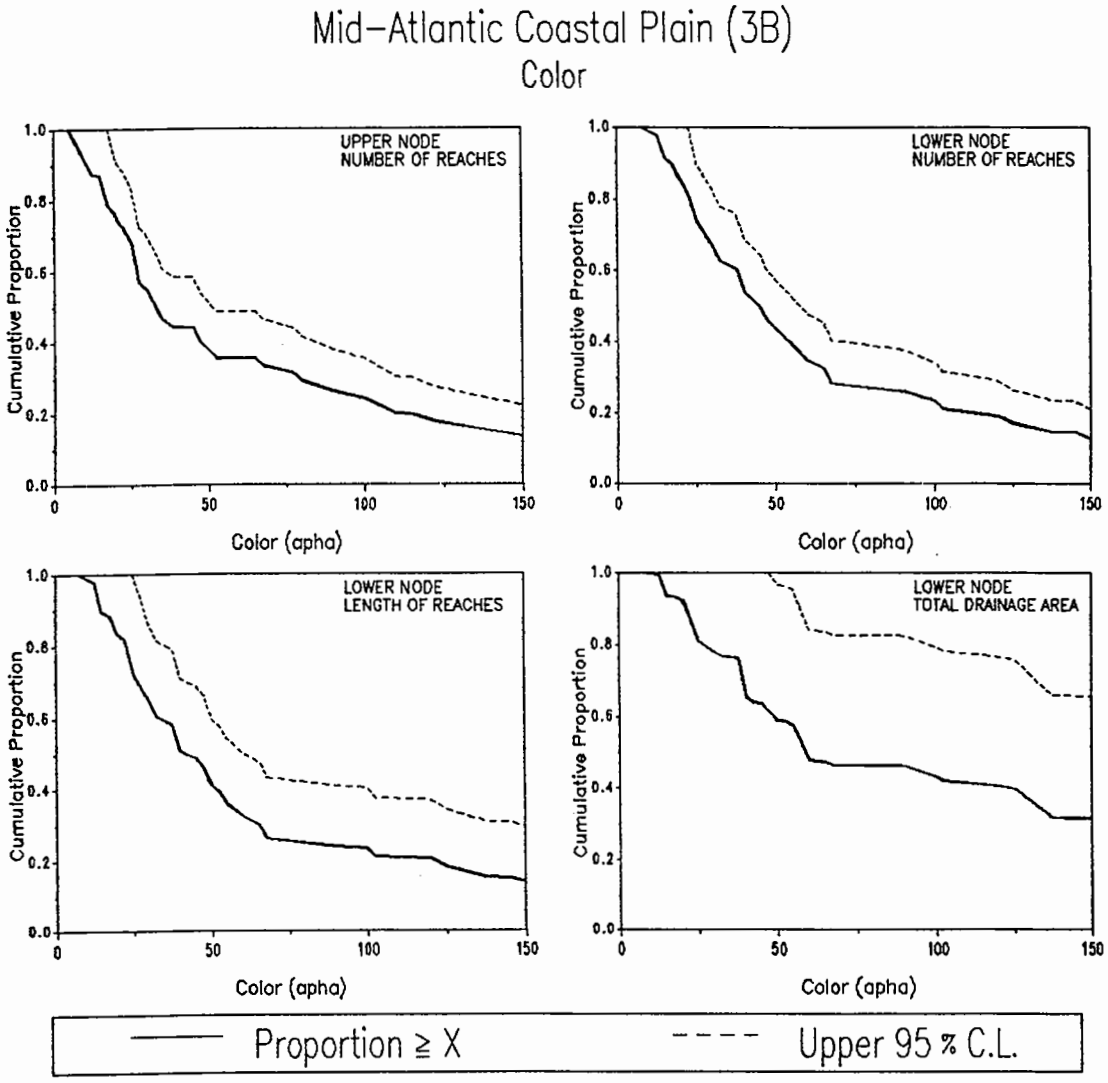
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (apha)	17.38	17.63	16.55	19.14
40 % (apha)	11.92	12.75	12.23	15.14
MEDIAN(apha)	10.21	11.20	11.07	12.99
60 % (apha)	9.35	9.87	9.93	11.47
80 % (apha)	6.86	7.32	7.15	9.46

SUMMARY STATISTICS (apha)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	5.00	47.50	14.53	8.91
LOWER	47	5.00	32.50	13.48	6.12

Figure 5-92. Population estimates for color value (COLVAL) for the Valley and Ridge subregion (2Bn).



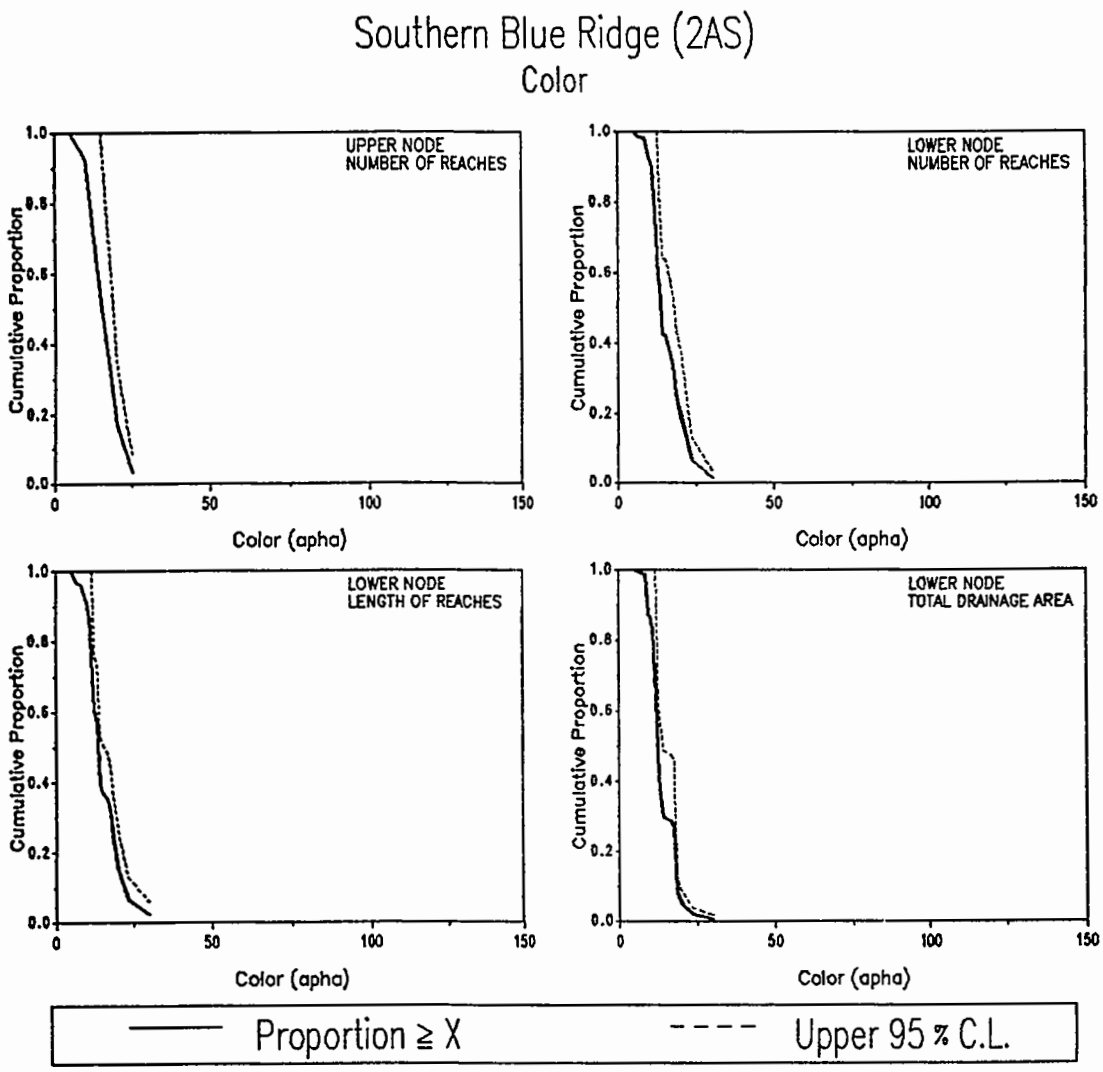
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (apha)	102.57	101.40	107.04	163.17
40 % (apha)	45.02	51.46	48.95	115.06
MEDIAN(apha)	29.48	42.17	39.11	54.47
60 % (apha)	24.37	32.80	30.46	46.40
80 % (apha)	14.57	20.32	20.46	23.28

SUMMARY STATISTICS (apha)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	5.00	237.50	62.64	62.71
LOWER	58	7.50	200.00	61.90	51.43

Figure 5-93. Population estimates for color value (COLVAL) for the Mid-Atlantic Coastal Plain subregion (3B).

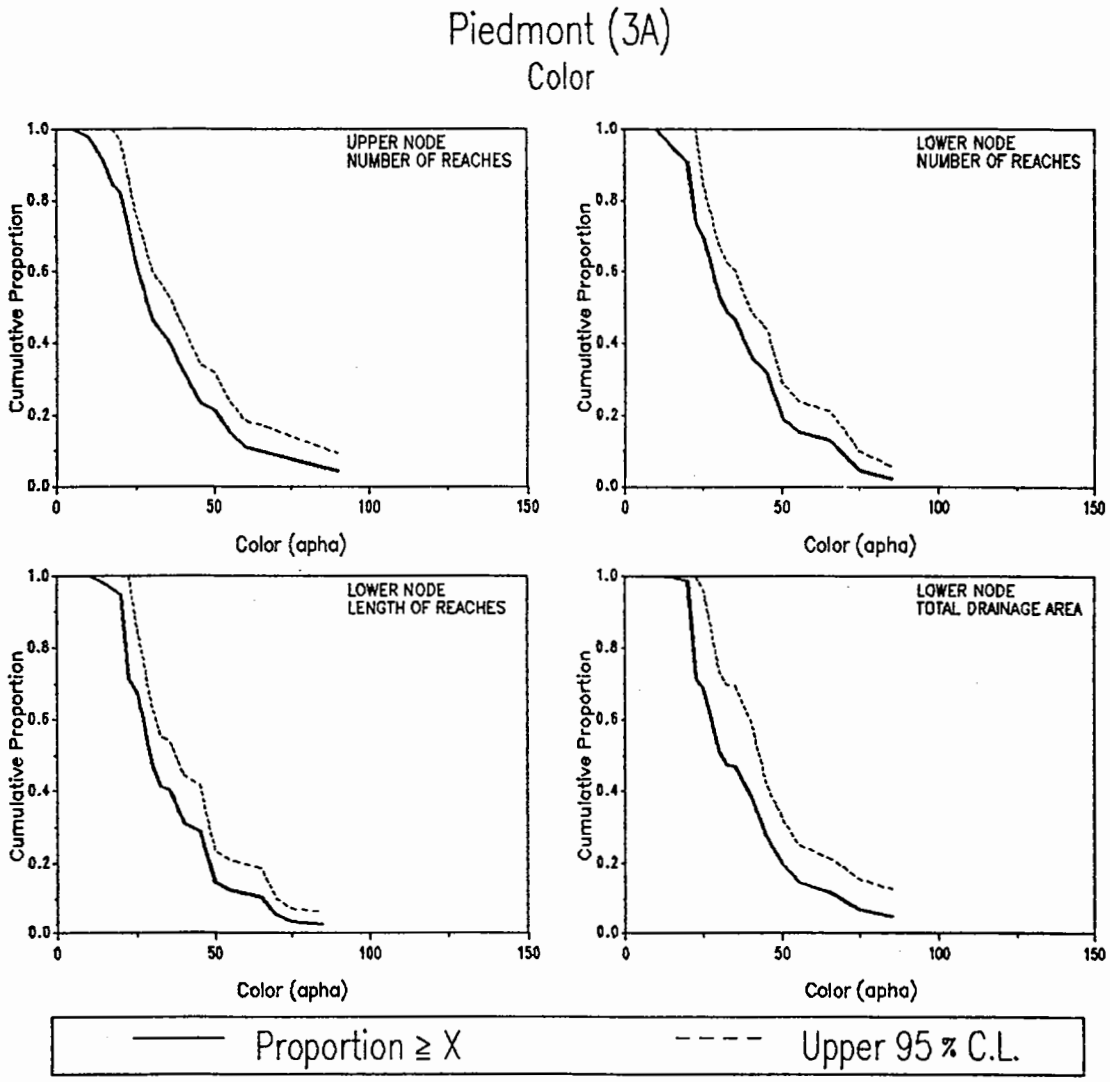


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	617	2031	9036	50995
STD ERROR	176	326	954	12357
20 % (apha)	14.58	18.23	17.90	16.99
40 % (apha)	11.73	14.55	13.31	11.85
MEDIAN(apha)	10.30	12.88	12.83	11.34
60 % (apha)	9.03	11.60	11.82	10.96
80 % (apha)	6.56	10.63	10.50	10.14

SUMMARY STATISTICS (apha)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	20	5.00	25.00	13.25	4.59
LOWER	54	5.00	30.00	14.61	4.48

Figure 5-94. Population estimates for color value (COLVAL) for the Southern Blue Ridge subregion (2As).



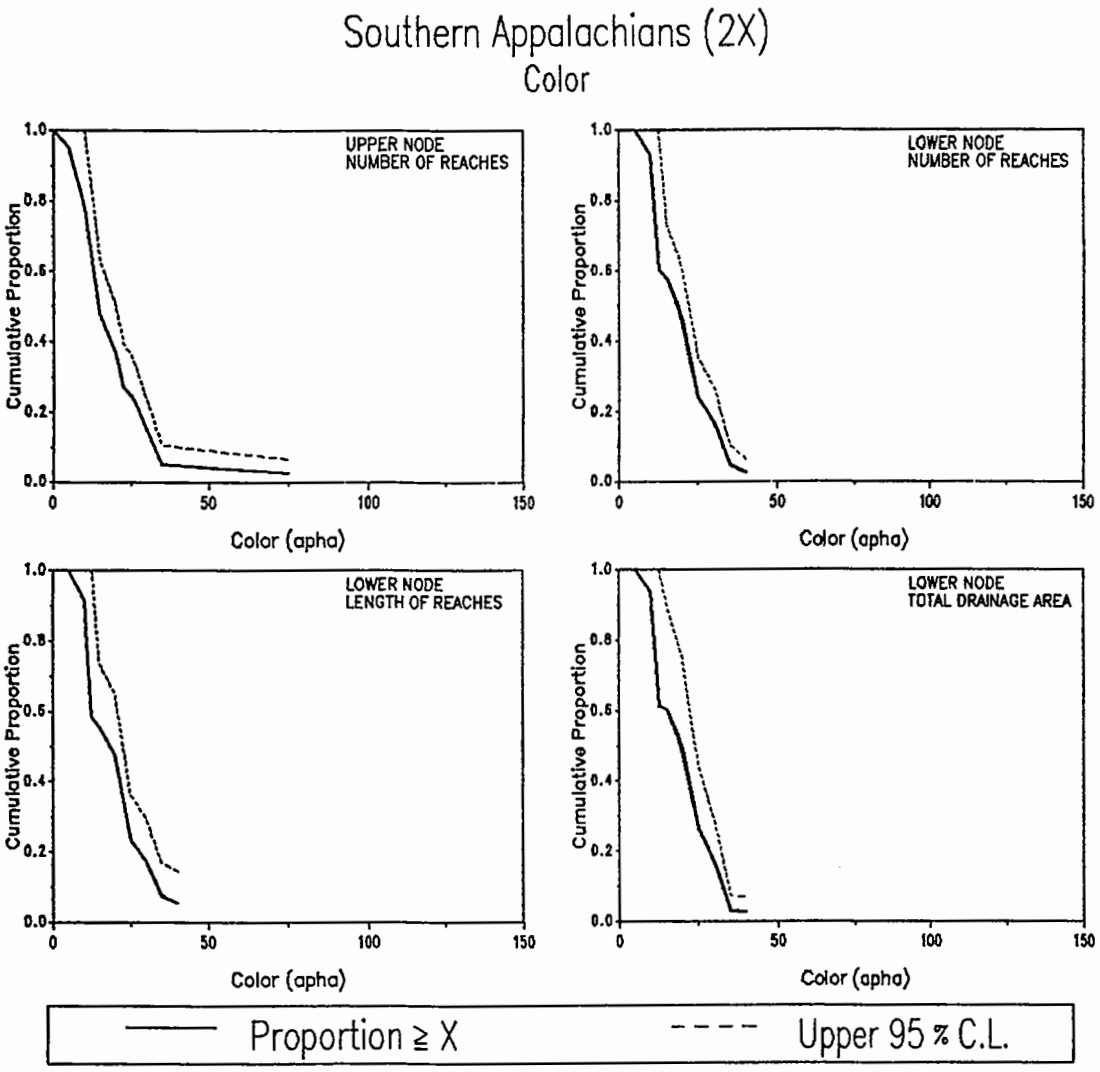
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (apha)	46.02	44.68	43.08	44.85
40 % (apha)	30.12	34.05	32.56	34.52
MEDIAN (apha)	23.81	28.35	24.62	26.11
60 % (apha)	20.42	23.93	23.40	23.70
80 % (apha)	17.77	18.17	18.14	18.43

SUMMARY STATISTICS (apha)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	5.00	90.00	32.36	18.87
LOWER	47	10.00	85.00	35.13	17.96

Figure 5-95. Population estimates for color value (COLVAL) for the Piedmont subregion (3A).

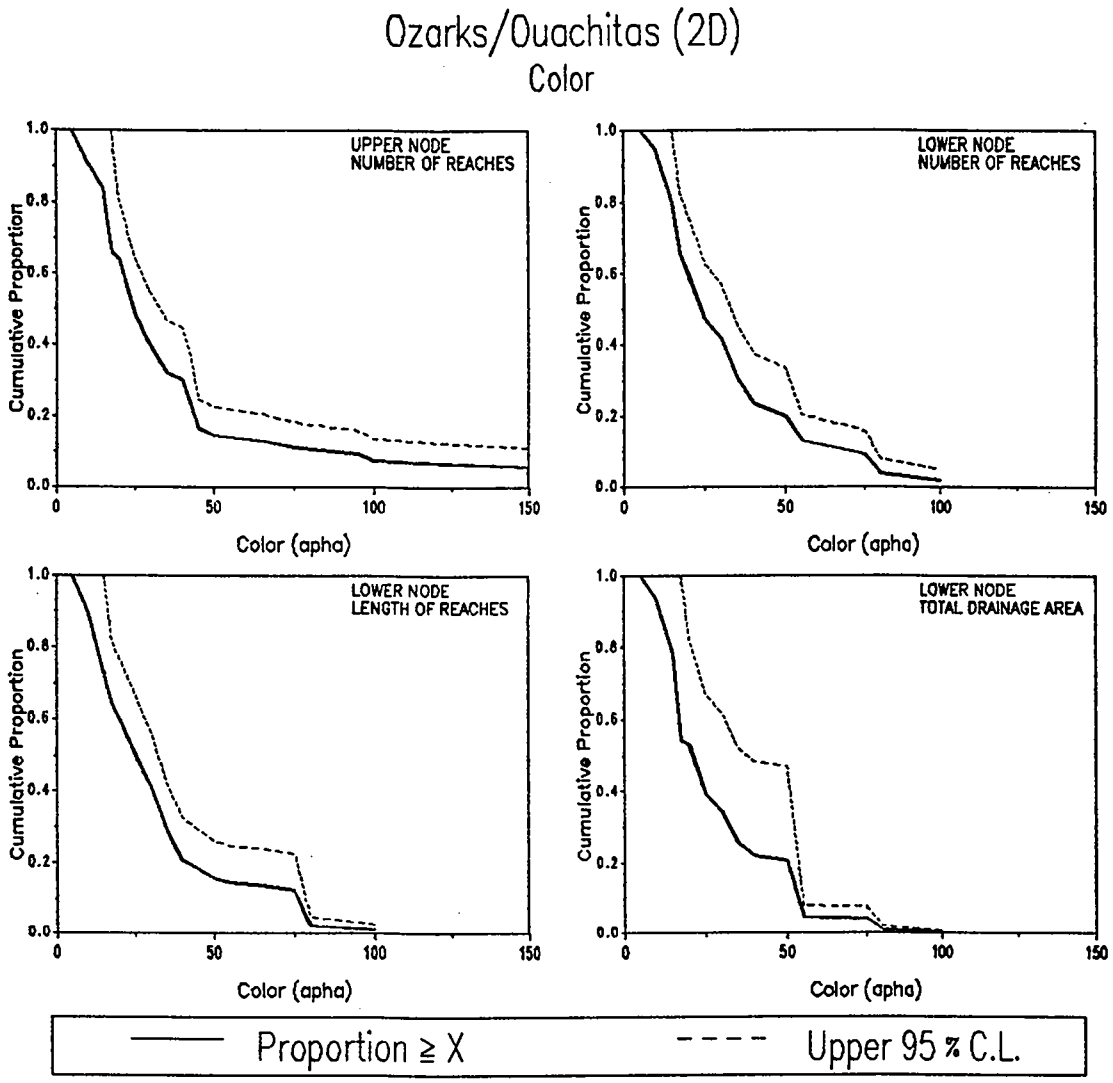


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (apha)	23.08	22.78	22.65	23.23
40 % (apha)	13.58	16.30	16.56	16.96
MEDIAN(apha)	9.64	14.08	14.28	14.71
60 % (apha)	7.98	10.01	9.78	12.53
80 % (apha)	4.75	6.95	6.75	7.12

SUMMARY STATISTICS (apha)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	0.00	75.00	15.73	12.46
LOWER	40	5.00	40.00	17.26	8.64

Figure 5-96. Population estimates for color value (COLVAL) for the Southern Appalachians subregion (2X).



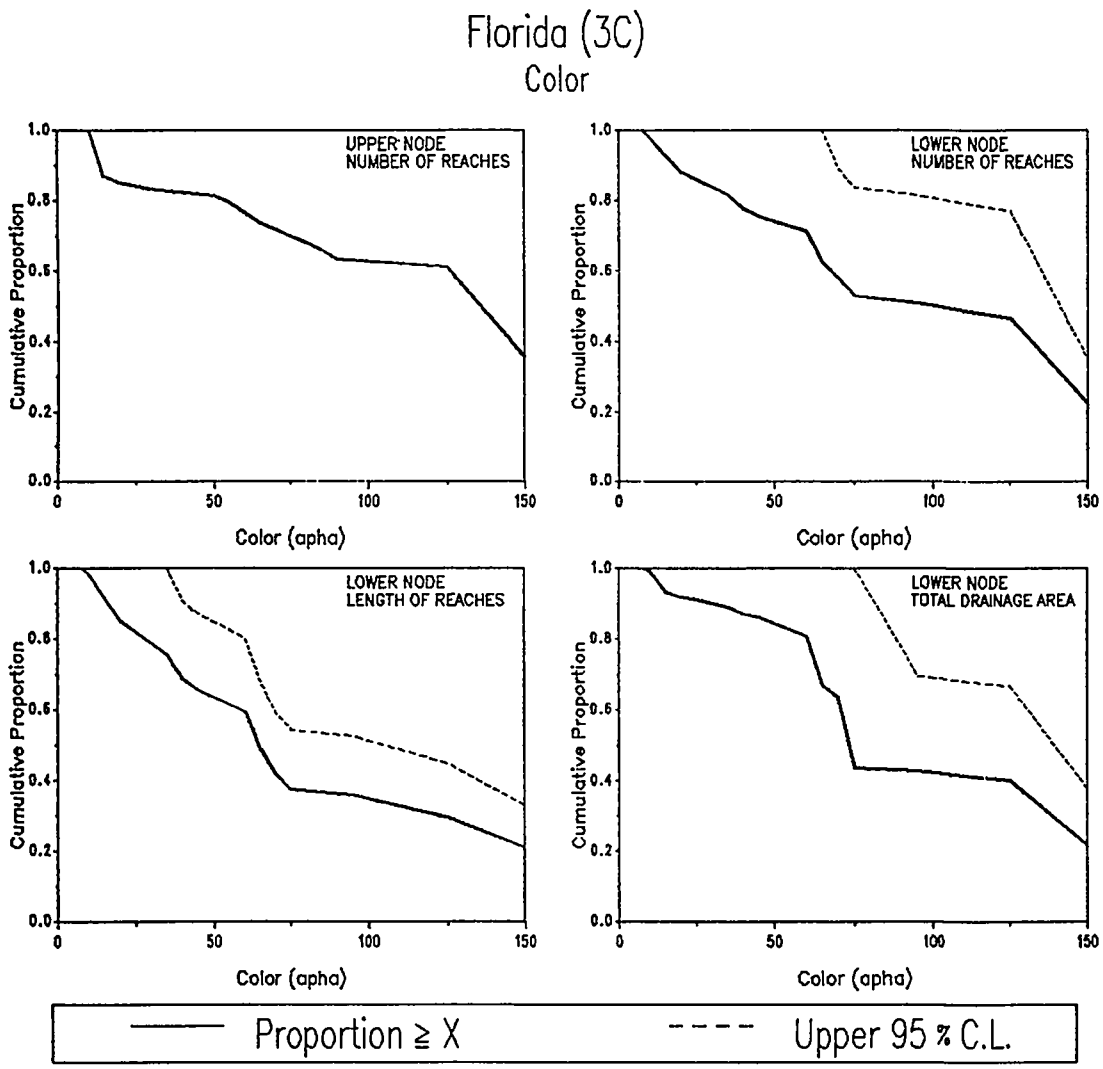
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (apha)	41.19	39.77	35.91	40.39
40 % (apha)	24.64	25.78	25.47	19.81
MEDIAN (apha)	19.74	19.44	20.14	18.04
60 % (apha)	18.16	17.39	17.53	13.79
80 % (apha)	11.10	9.98	7.96	9.39

SUMMARY STATISTICS (apha)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	5.00	600.00	43.69	86.59
LOWER	48	5.00	100.00	29.18	21.46

Figure 5-97. Population estimates for color value (COLVAL) for the Ozarks/Ouachitas subregion (2D).

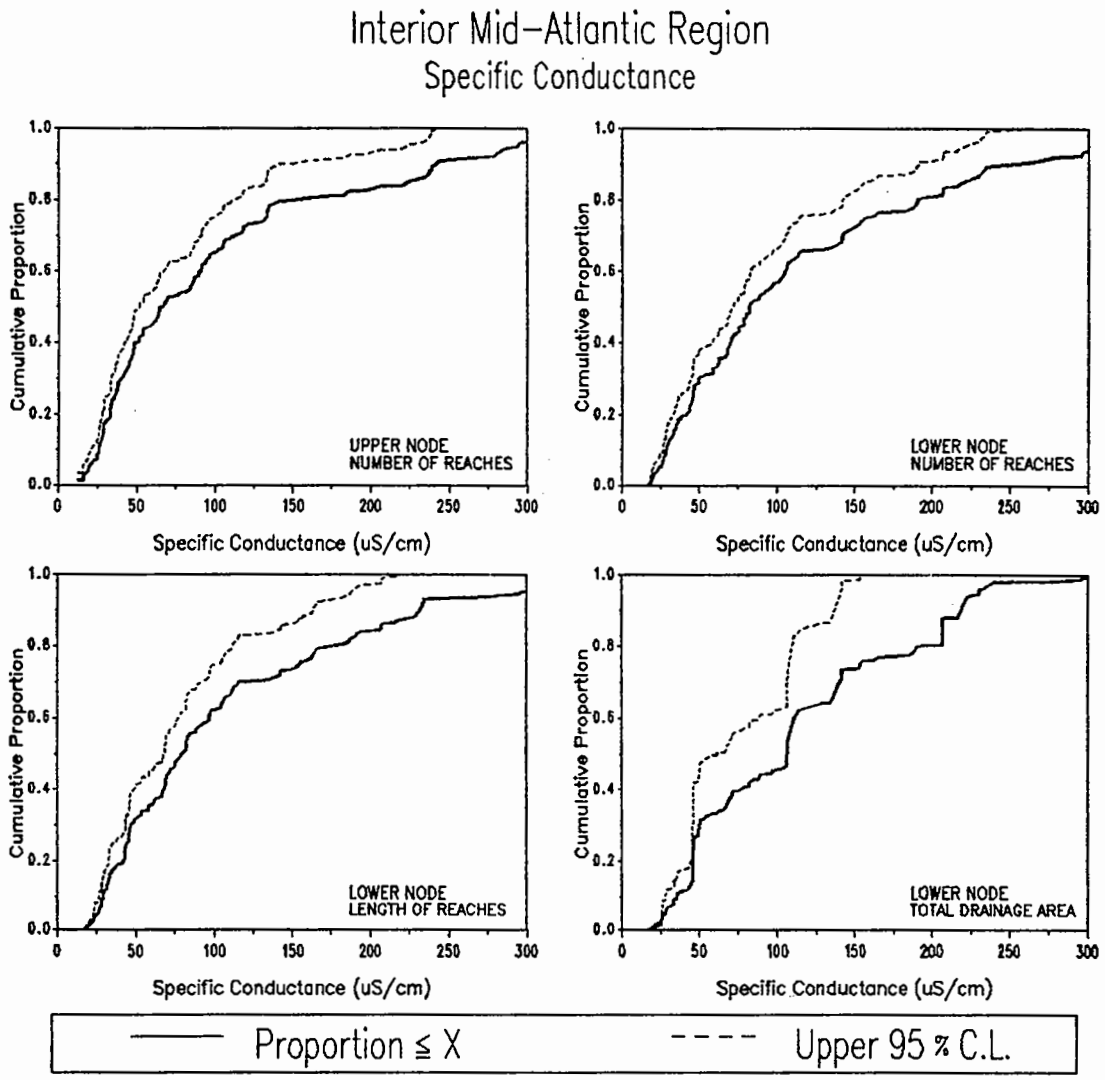


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (apha)	464.70	130.58	127.24	129.82
40 % (apha)	118.89	103.33	67.13	95.30
MEDIAN (apha)	105.25	79.41	58.45	68.38
60 % (apha)	91.60	62.69	44.52	65.87
80 % (apha)	44.20	29.24	21.50	45.84

SUMMARY STATISTICS (apha)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	10.00	900.00	277.17	325.19
LOWER	34	7.50	425.00	106.92	90.96

Figure 5-98. Population estimates for color value (COLVAL) for Florida subregion (3C).



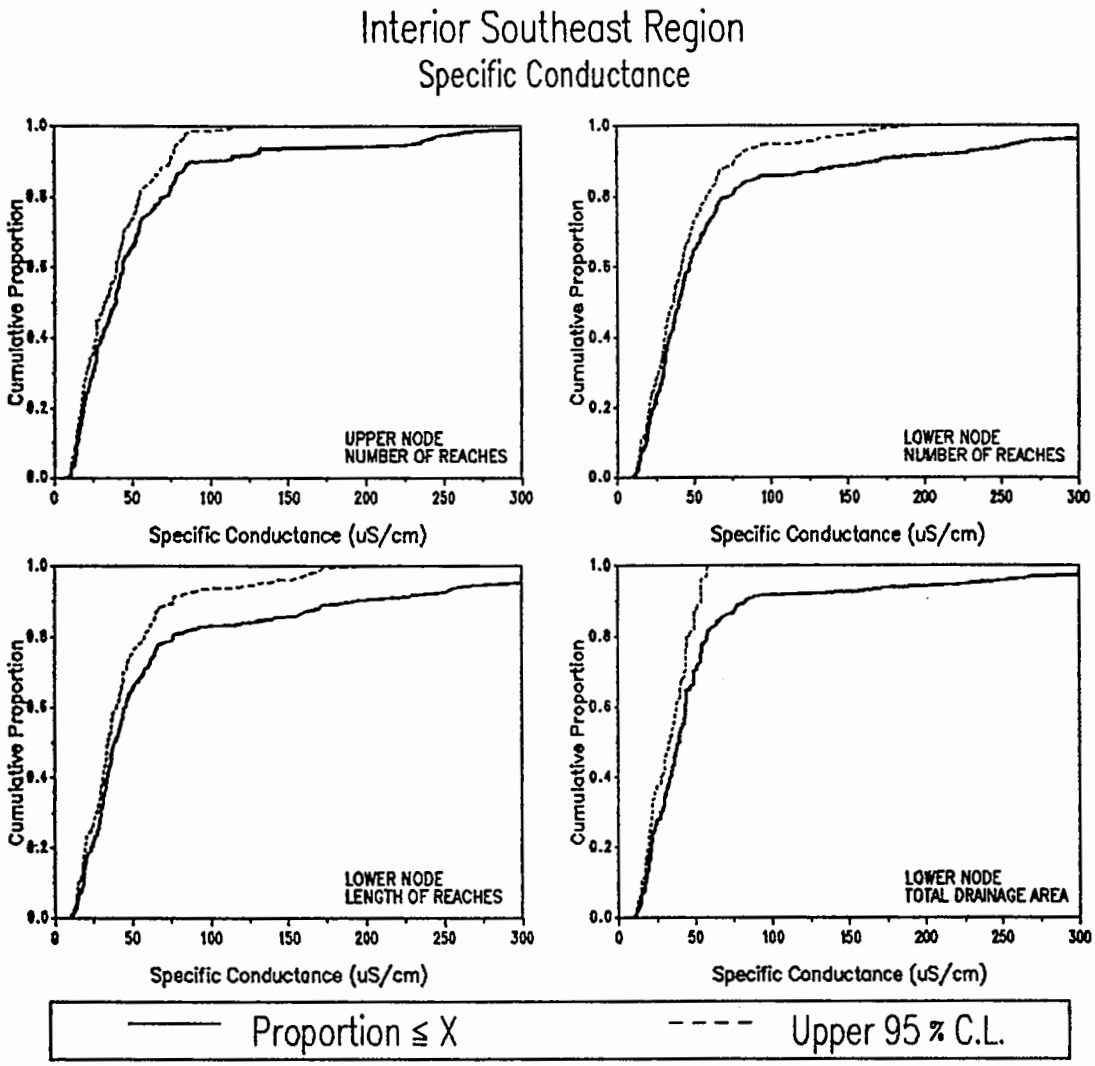
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (uS/cm)	32.98	42.04	42.28	45.90
40 % (uS/cm)	48.40	69.92	68.08	76.18
MEDIAN (uS/cm)	66.36	82.37	79.89	106.56
60 % (uS/cm)	91.10	105.00	96.87	111.08
80 % (uS/cm)	152.98	191.31	177.38	192.39

SUMMARY STATISTICS (uS/cm)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	12.90	471.20	105.37	98.61
LOWER	164	17.10	476.70	121.69	103.99

Figure 5-99. Population estimates for conductance (COND11) for the Mid-Atlantic Region.



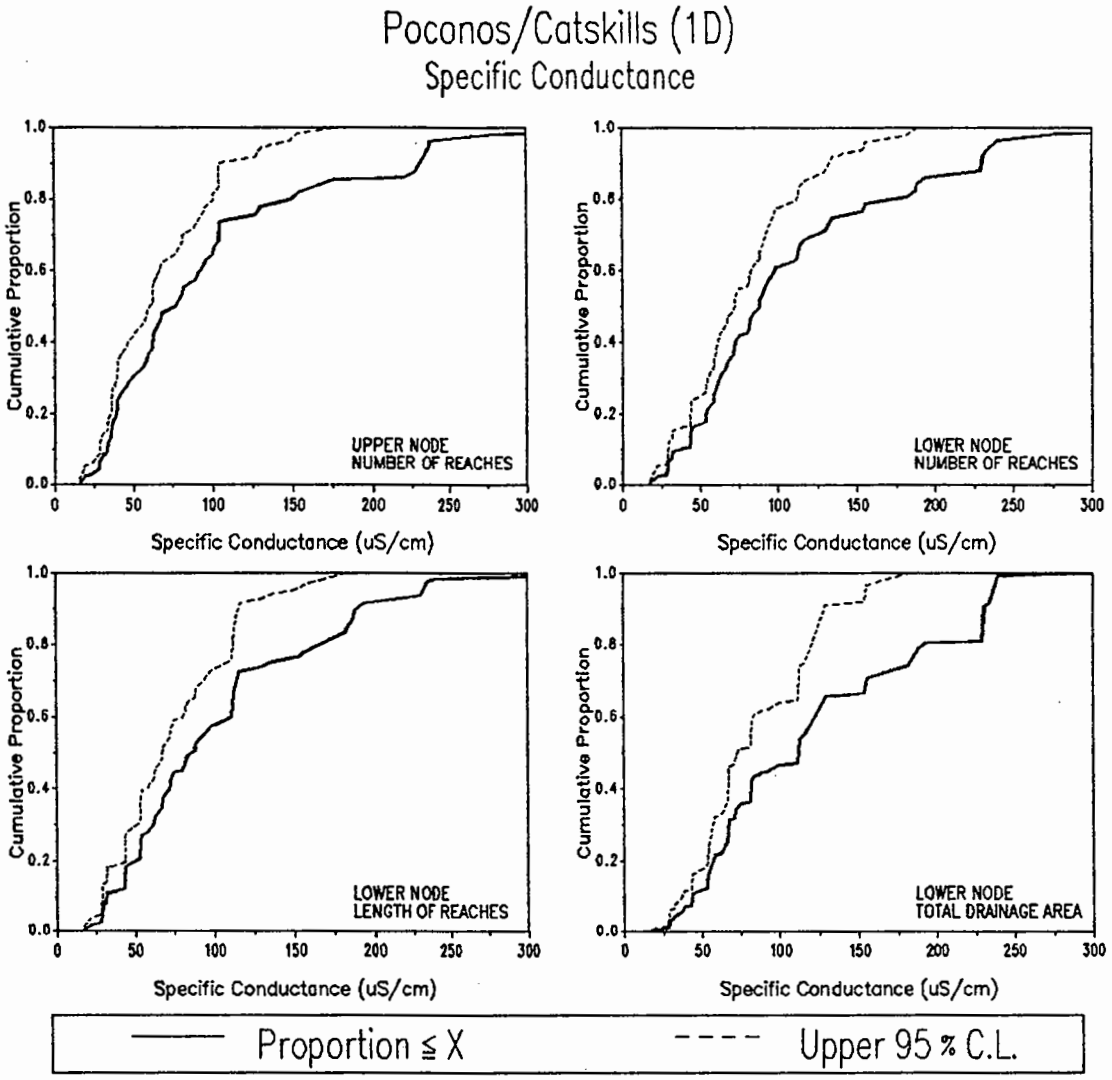
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (uS/cm)	18.52	23.31	23.46	21.36
40 % (uS/cm)	30.13	33.64	33.86	33.90
MEDIAN (uS/cm)	39.52	40.09	38.85	39.81
60 % (uS/cm)	43.77	46.44	45.94	43.96
80 % (uS/cm)	70.44	73.19	76.48	58.23

SUMMARY STATISTICS (uS/cm)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	7.58	364.80	56.16	62.30
LOWER	189	10.20	397.10	67.36	77.05

Figure 5-100. Population estimates for conductance (COND11) for the Southeastern Region.

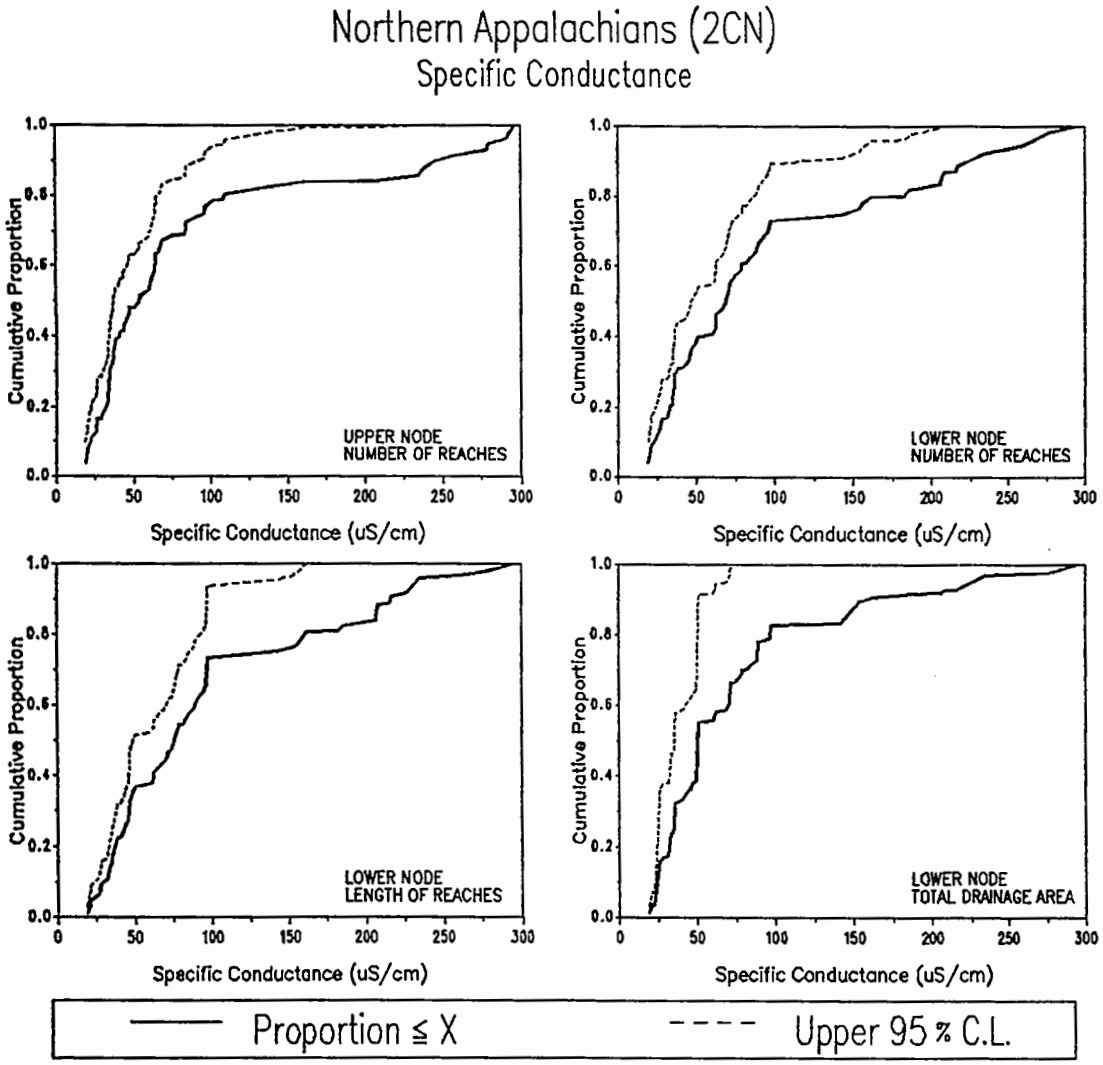


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (uS/cm)	39.01	53.58	50.26	57.00
40 % (uS/cm)	62.17	72.40	71.60	82.04
MEDIAN (uS/cm)	76.43	88.22	86.43	112.08
60 % (uS/cm)	92.41	97.64	111.52	122.33
80 % (uS/cm)	149.27	174.75	166.74	192.14

SUMMARY STATISTICS (uS/cm)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	15.85	458.30	102.38	82.45
LOWER	56	17.10	465.85	113.46	80.99

Figure 5-101. Population estimates for conductance (COND11) for the Poconos/Catskills subregion (1D).



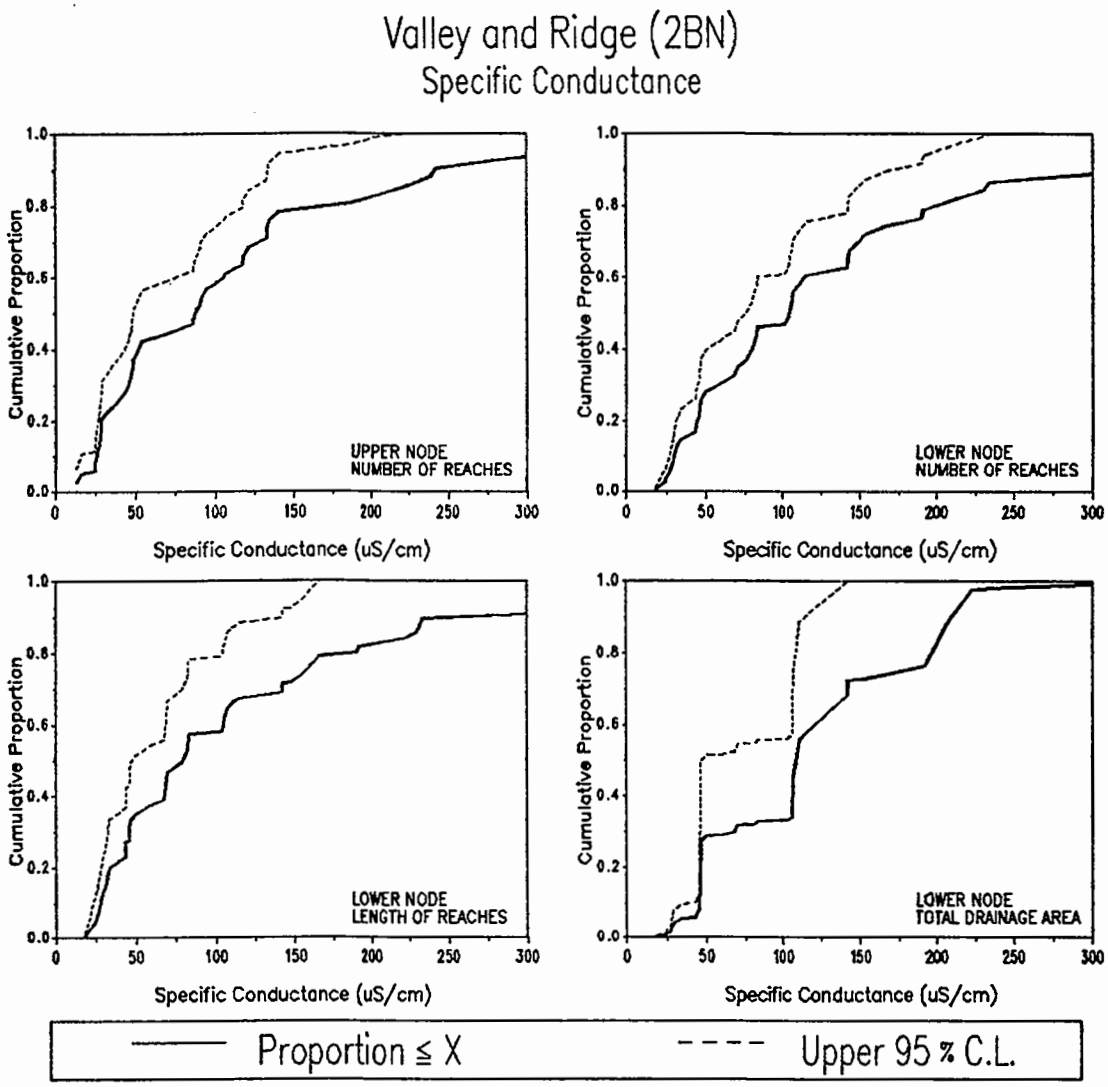
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (uS/cm)	32.01	33.32	36.78	32.42
40 % (uS/cm)	40.64	50.75	62.14	49.41
MEDIAN (uS/cm)	53.62	68.69	75.96	50.36
60 % (uS/cm)	64.10	78.54	89.21	70.20
80 % (uS/cm)	109.70	173.78	160.92	96.81

SUMMARY STATISTICS (uS/cm)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	18.95	296.00	88.13	84.29
LOWER	61	18.95	295.00	96.93	79.01

Figure 5-102.Population estimates for conductance (COND11) for the Northern Appalachians subregion (2Cn).



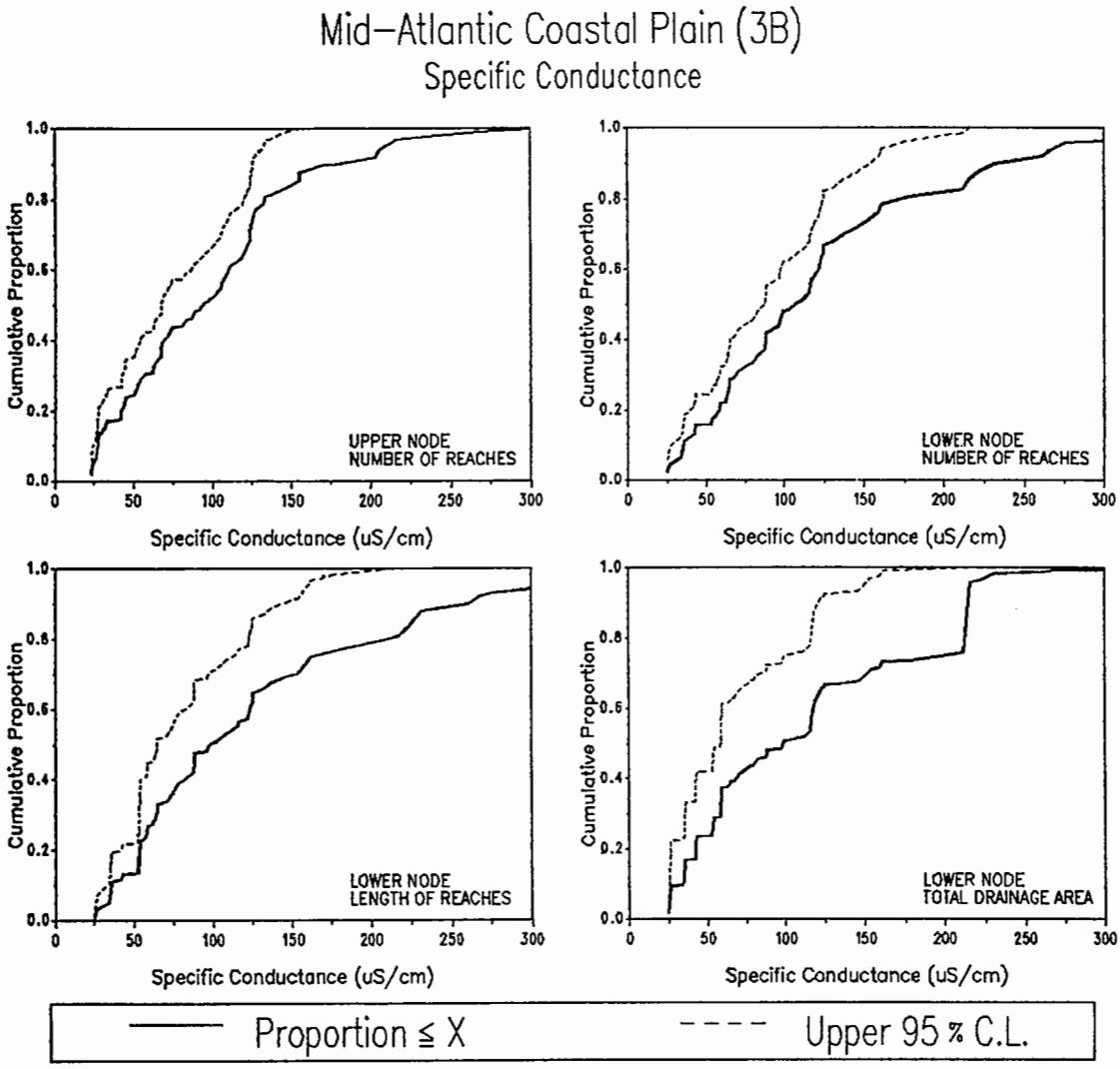
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (uS/cm)	28.90	44.44	33.33	46.07
40 % (uS/cm)	51.35	79.01	67.86	106.56
MEDIAN (uS/cm)	87.41	104.22	79.50	108.68
60 % (uS/cm)	105.12	113.88	104.60	121.02
80 % (uS/cm)	175.21	200.03	188.13	196.47

SUMMARY STATISTICS (uS/cm)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	12.90	471.20	117.57	108.83
LOWER	47	18.05	476.70	138.62	117.88

Figure 5-103. Population estimates for conductance (COND11) for the Valley and Ridge subregion (2Bn).



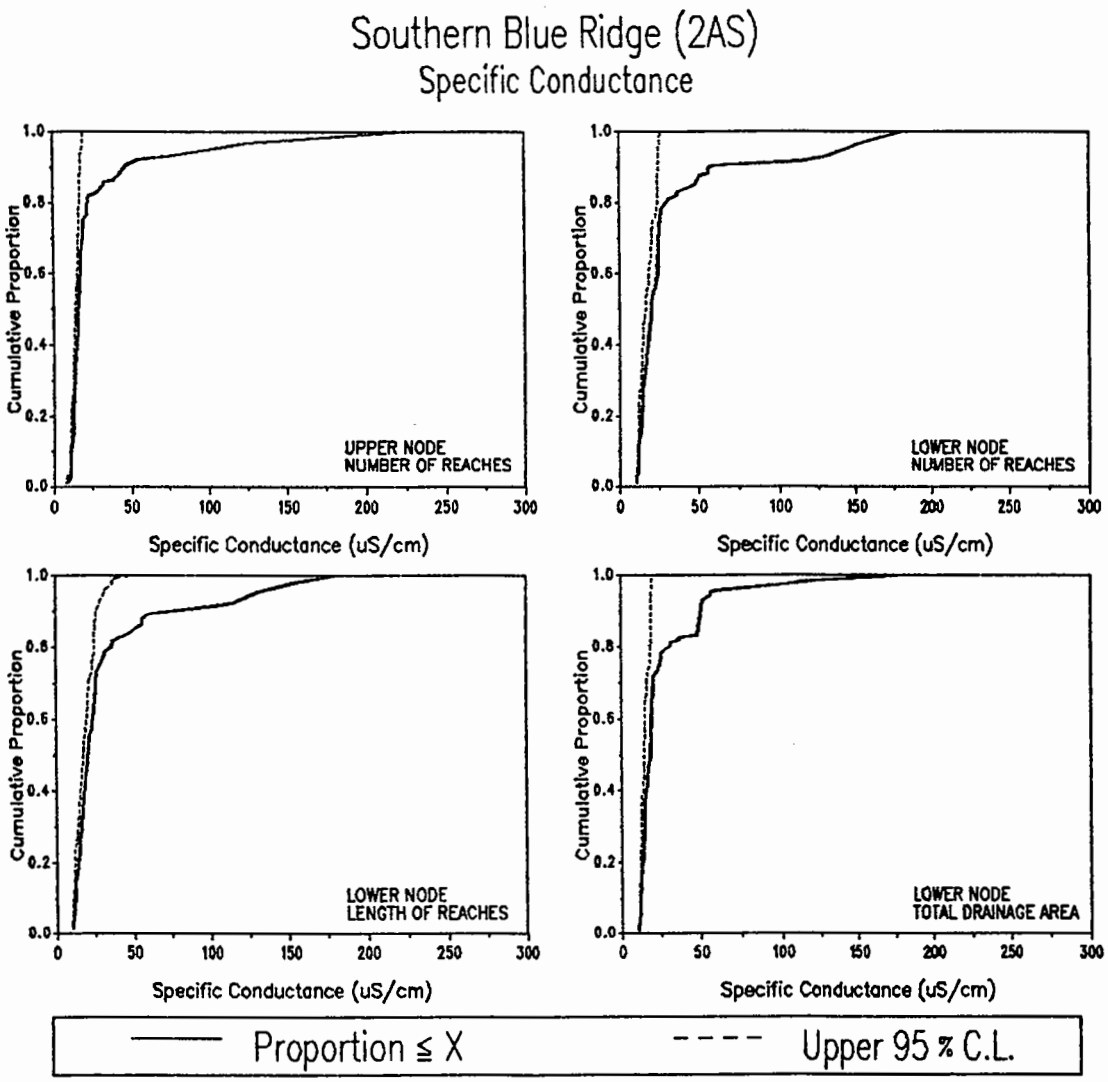
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (uS/cm)	42.67	57.90	53.52	42.19
40 % (uS/cm)	69.20	88.26	81.48	68.65
MEDIAN (uS/cm)	93.82	107.00	98.58	98.86
60 % (uS/cm)	110.40	121.75	123.19	117.94
80 % (uS/cm)	133.12	173.53	210.80	213.44

SUMMARY STATISTICS (uS/cm)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	23.35	303.40	100.18	61.01
LOWER	58	25.05	407.05	127.05	86.57

Figure 5-104. Population estimates for conductance (COND11) for the Mid-Atlantic Coastal Plain subregion (3B).

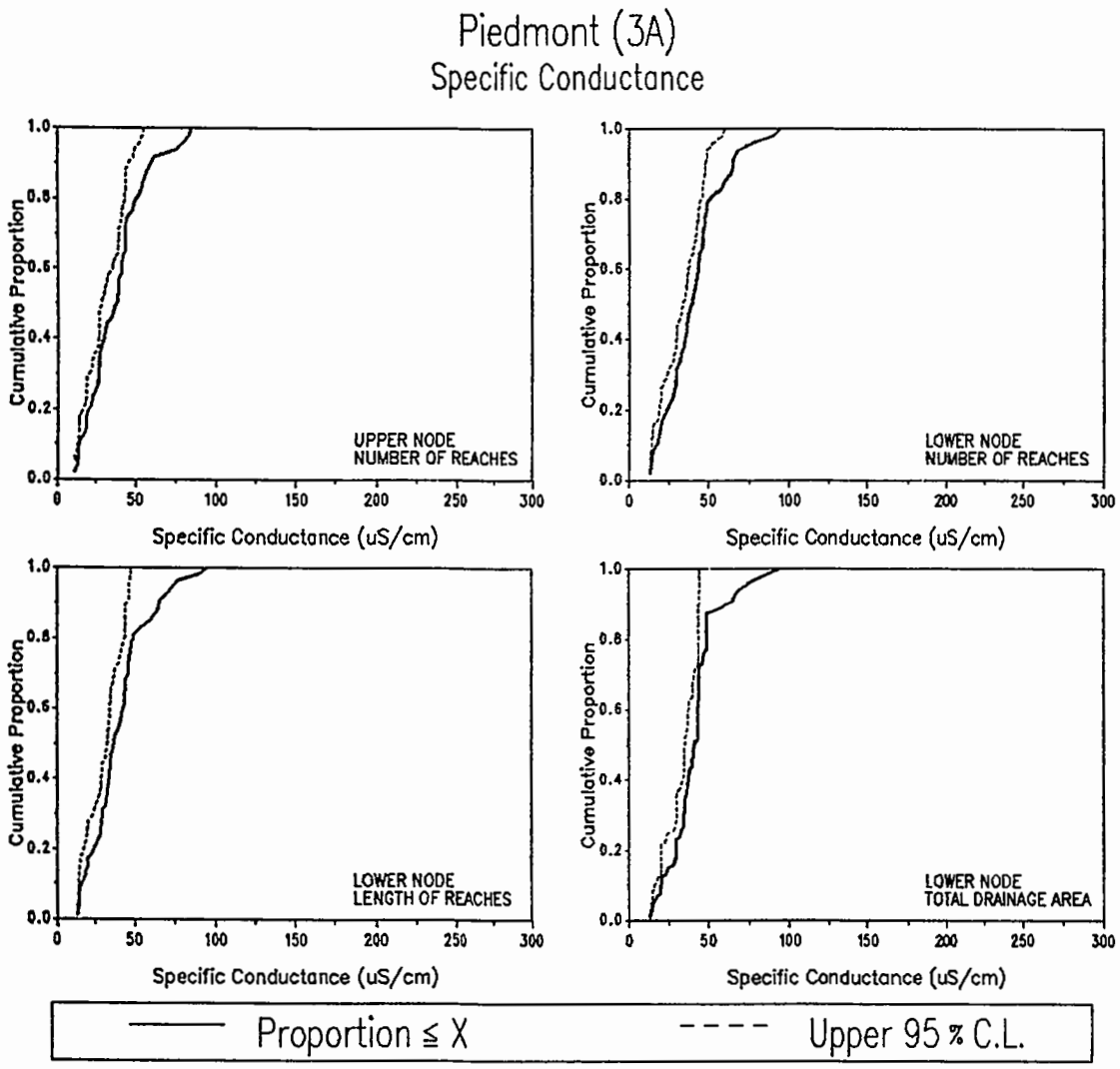


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (uS/cm)	12.63	14.00	13.81	13.17
40 % (uS/cm)	14.90	18.37	17.75	15.94
MEDIAN (uS/cm)	15.87	20.65	20.54	18.59
60 % (uS/cm)	16.92	24.55	23.79	19.16
80 % (uS/cm)	22.58	29.92	36.39	30.69

SUMMARY STATISTICS (uS/cm)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	7.58	223.50	29.24	41.88
LOWER	54	10.20	181.00	34.72	40.82

Figure 5-105. Population estimates for conductance (COND11) for the Southern Blue Ridge subregion (2As).



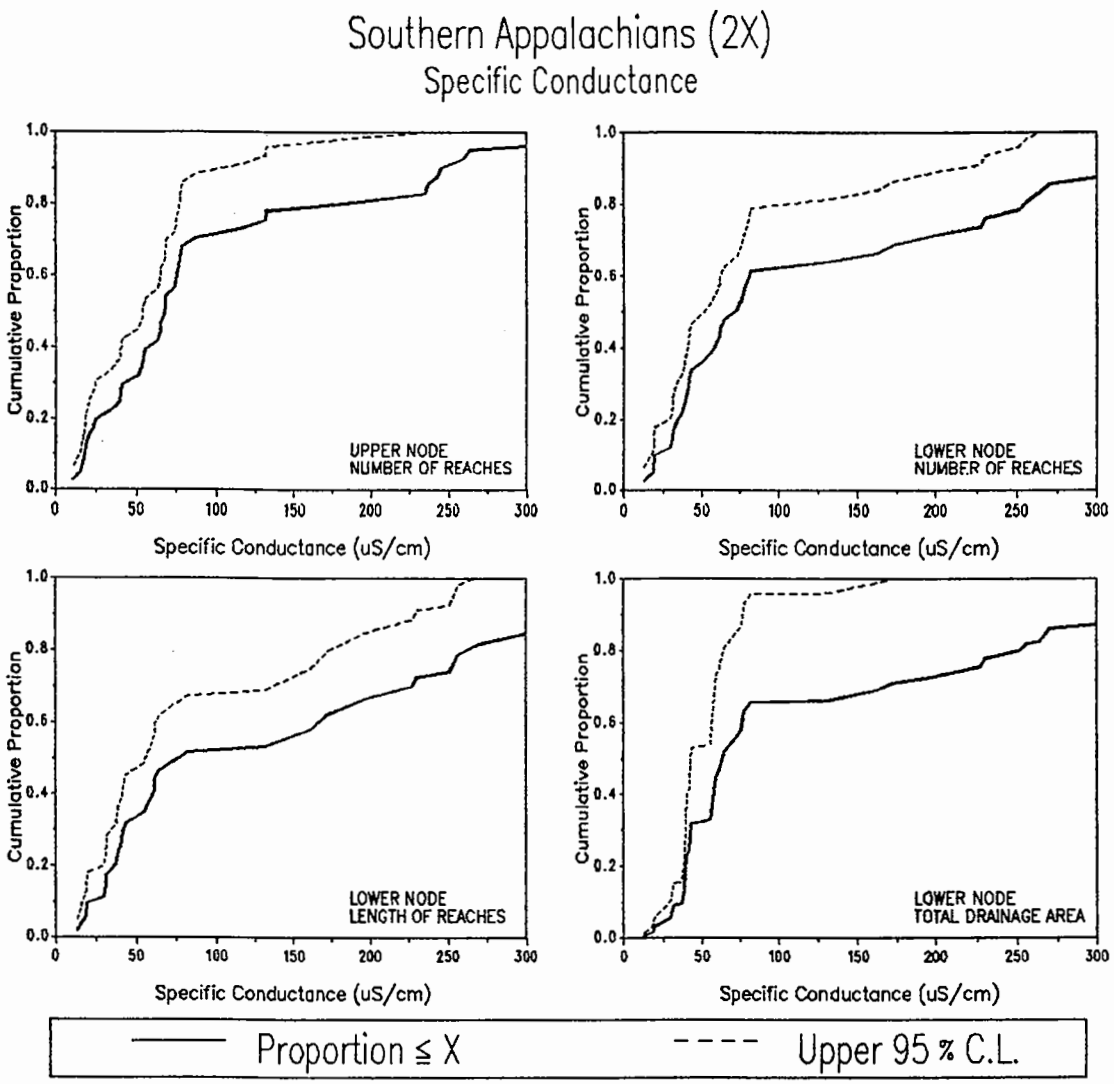
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (uS/cm)	20.54	23.77	24.22	29.84
40 % (uS/cm)	30.33	35.23	34.01	37.34
MEDIAN (uS/cm)	38.70	39.47	37.04	41.38
60 % (uS/cm)	41.31	43.82	43.10	43.96
80 % (uS/cm)	51.26	51.16	49.12	49.13

SUMMARY STATISTICS (uS/cm)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	11.20	84.70	38.50	18.42
LOWER	47	13.40	94.90	41.28	18.66

Figure 5-106. Population estimates for conductance (COND11) for the Piedmont subregion (3A).



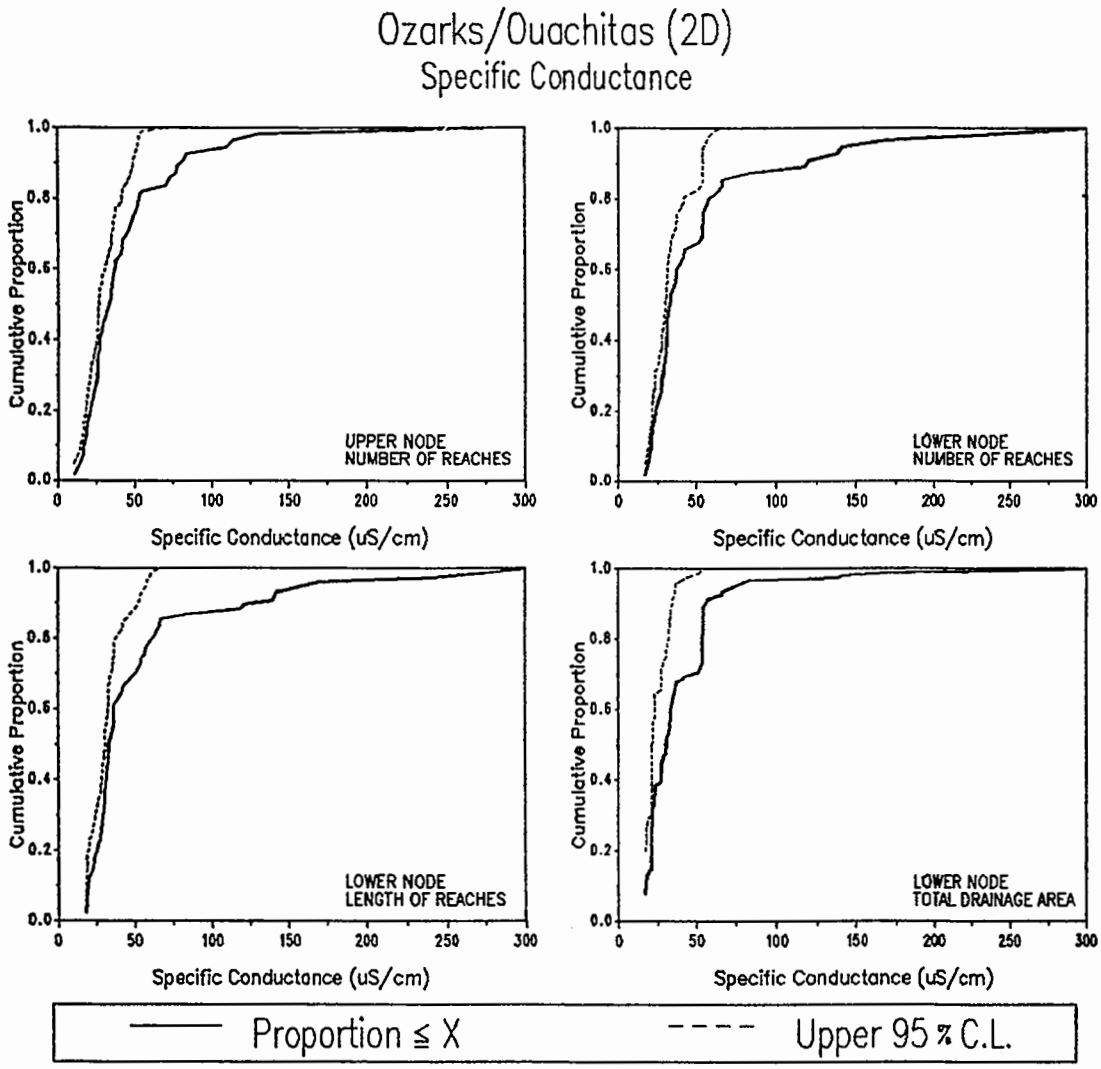
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (uS/cm)	25.79	34.80	36.48	39.74
40 % (uS/cm)	57.61	57.43	60.23	57.19
MEDIAN (uS/cm)	67.50	70.91	76.76	63.10
60 % (uS/cm)	75.06	81.06	166.78	76.76
80 % (uS/cm)	181.52	254.54	262.04	251.53

SUMMARY STATISTICS (uS/cm)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	10.80	364.80	103.27	94.36
LOWER	40	13.10	397.10	129.80	113.73

Figure 5-107. Population estimates for conductance (COND11) for the Southern Appalachians subregion (2X).

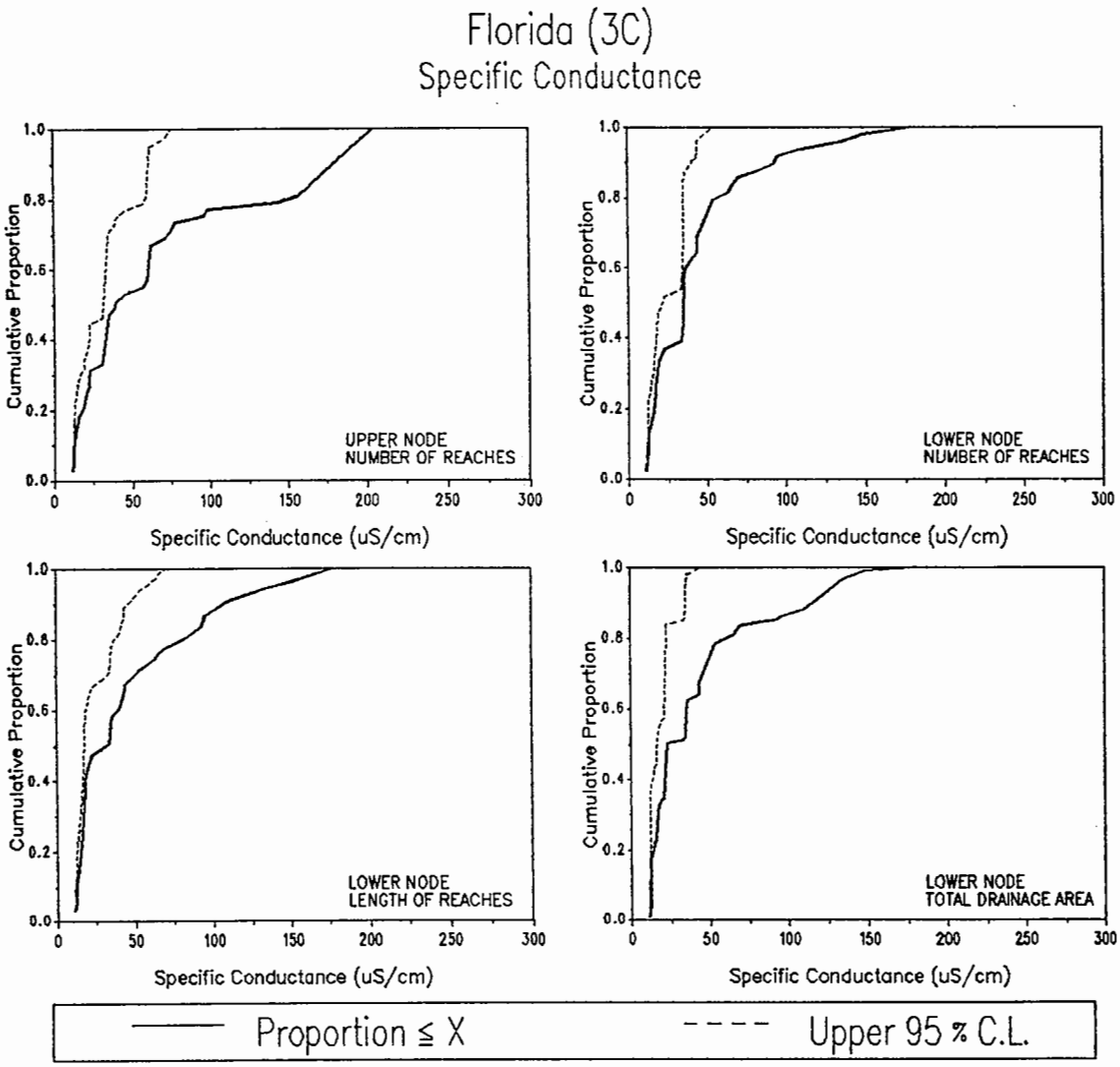


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (uS/cm)	20.77	23.49	24.99	21.42
40 % (uS/cm)	27.09	30.59	31.35	27.42
MEDIAN (uS/cm)	33.57	32.50	33.42	30.56
60 % (uS/cm)	37.17	36.89	36.83	33.50
80 % (uS/cm)	52.68	58.14	61.83	54.03

SUMMARY STATISTICS (uS/cm)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	10.50	283.80	45.41	41.42
LOWER	48	17.30	304.50	54.37	54.10

Figure 5-108. Population estimates for conductance (COND11) for the Ozarks/Ouachitas subregion (2D).

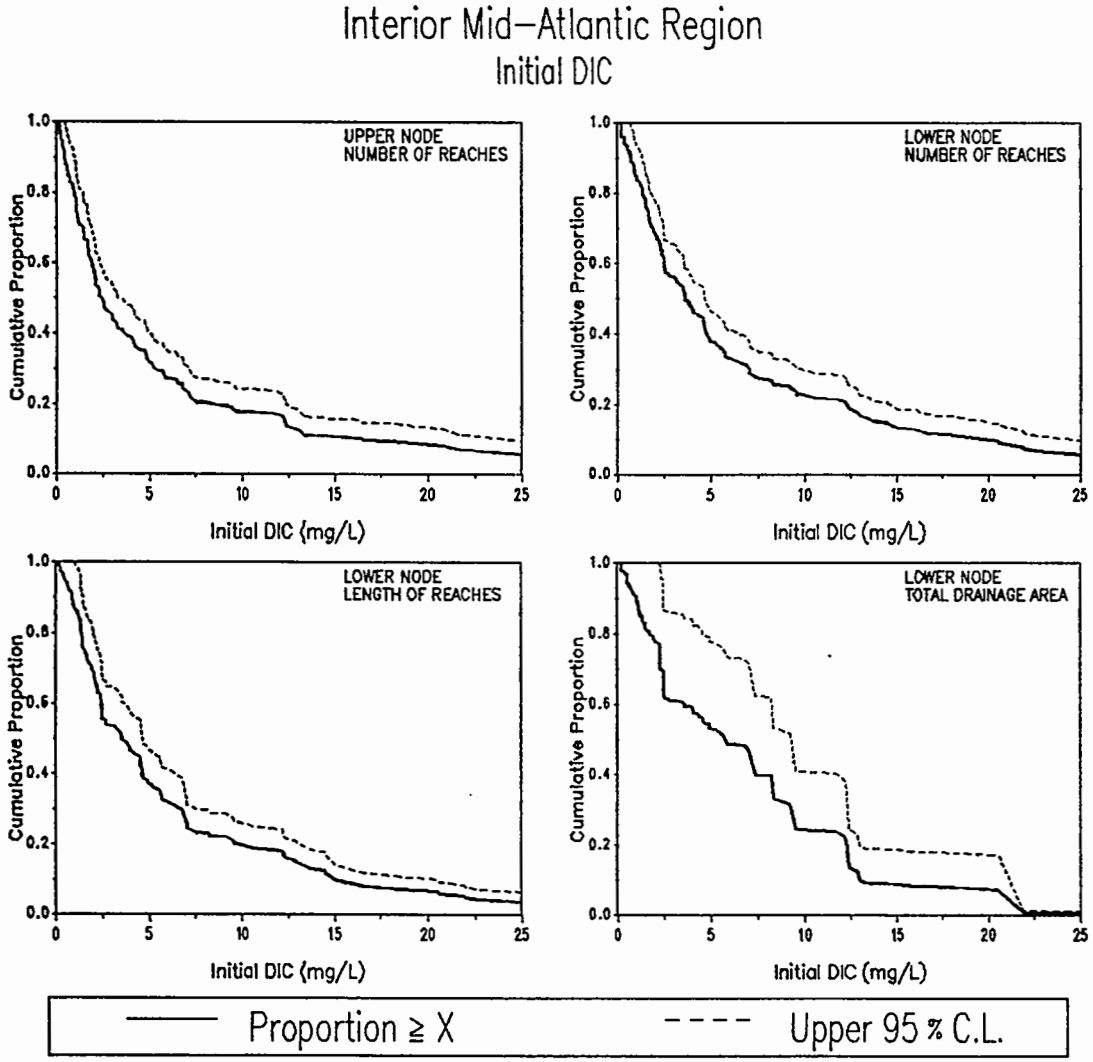


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (uS/cm)	17.61	15.97	15.20	13.86
40 % (uS/cm)	32.51	33.56	18.19	21.51
MEDIAN(uS/cm)	39.10	34.59	31.42	22.85
60 % (uS/cm)	60.06	36.26	39.16	35.26
80 % (uS/cm)	151.36	56.66	81.77	60.55

SUMMARY STATISTICS (uS/cm)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	11.50	205.00	74.73	70.26
LOWER	34	10.70	177.40	44.70	36.80

Figure 5-109. Population estimates for conductance (COND11) for Florida subregion (3C).

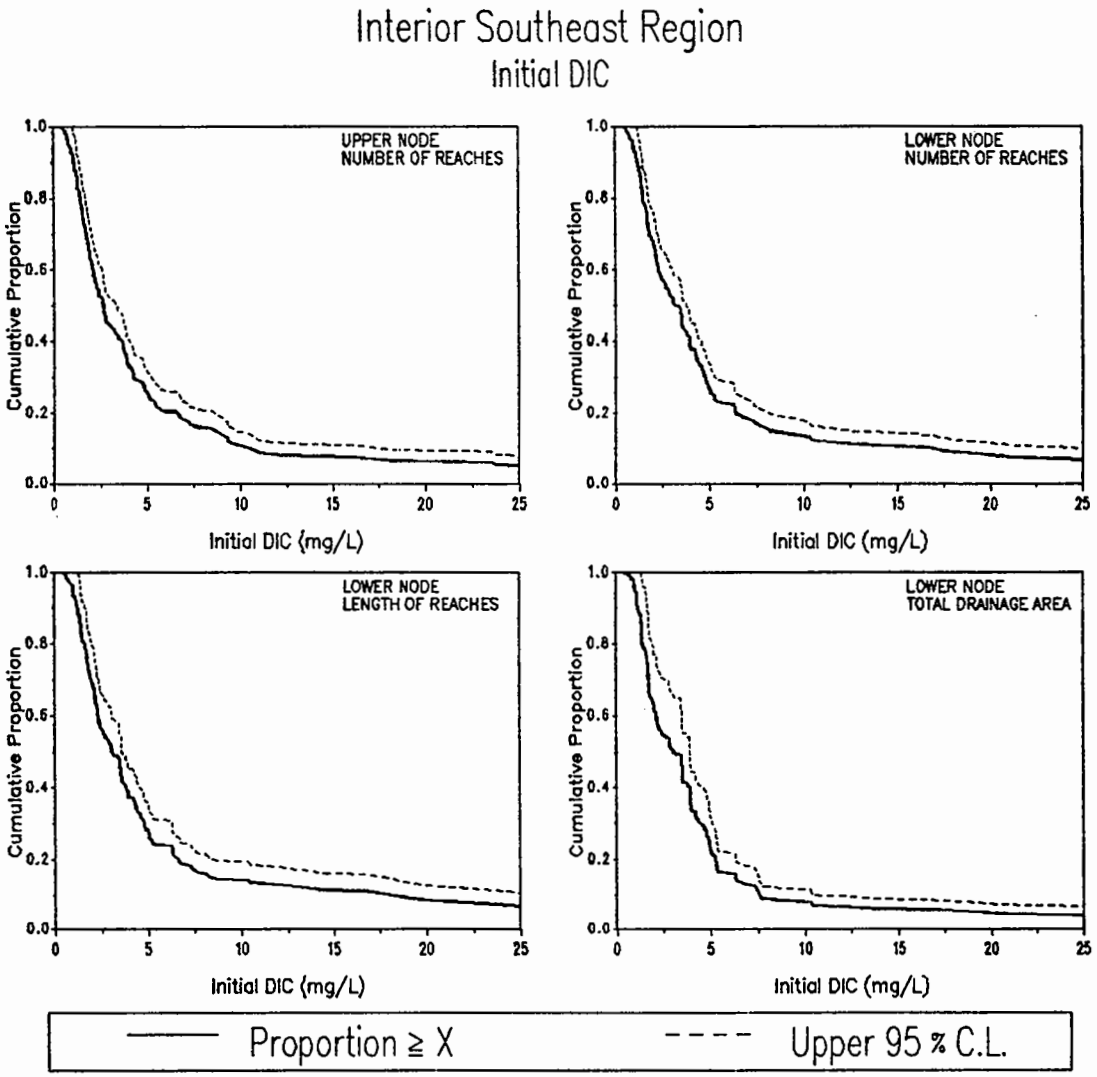


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (mg/L)	7.79	12.21	9.58	12.21
40 % (mg/L)	3.53	4.67	4.62	7.04
MEDIAN (mg/L)	2.29	3.55	3.55	5.71
60 % (mg/L)	1.86	2.45	2.42	3.50
80 % (mg/L)	0.91	1.30	1.31	1.68

SUMMARY STATISTICS (mg/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	0.13	57.36	6.01	9.19
LOWER	164	0.16	58.63	7.29	9.92

Figure 5-110. Population estimates for initial dissolved inorganic carbon (DIC11) for the Mid-Atlantic Region.

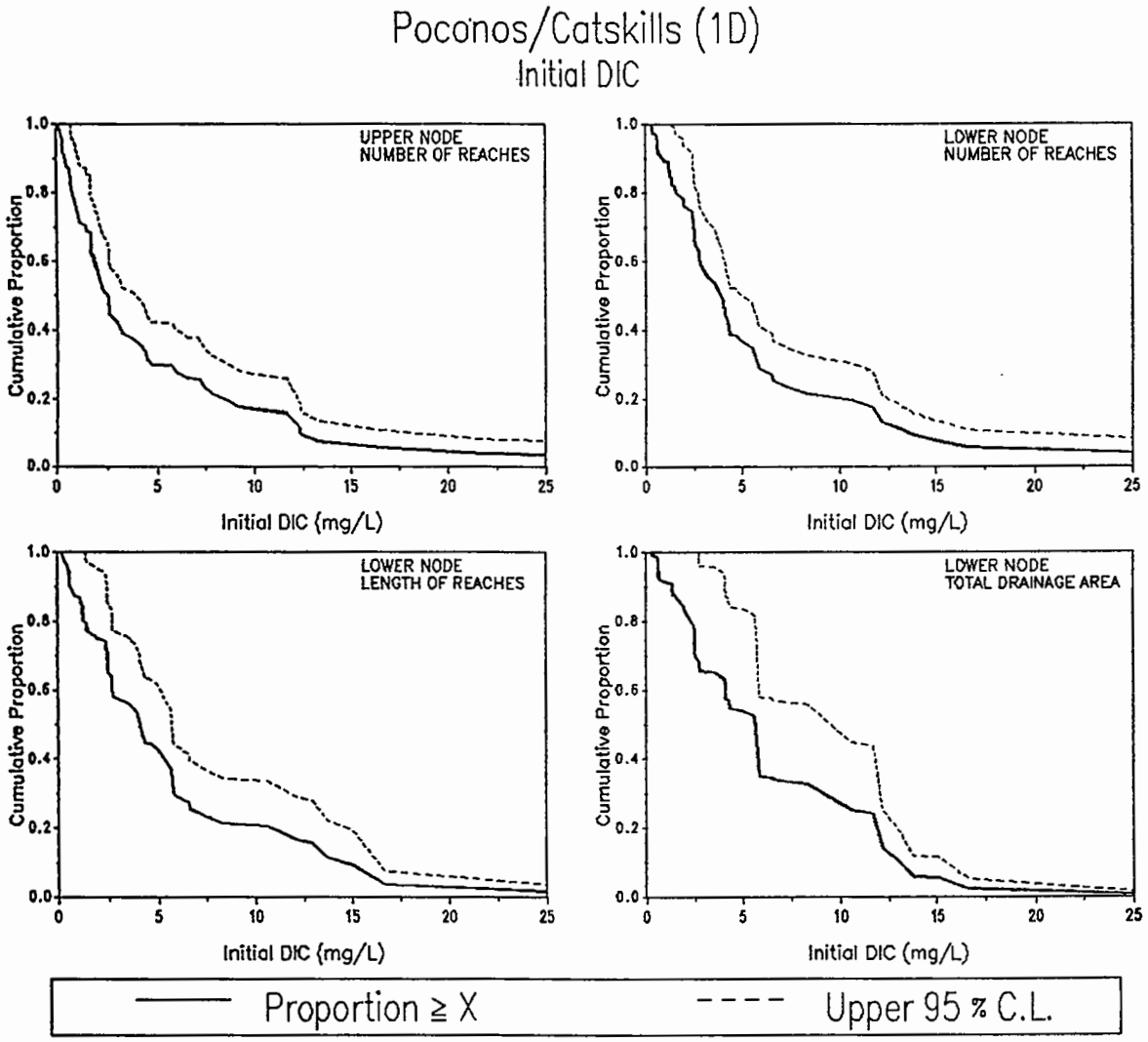


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (mg/L)	6.15	6.31	6.36	5.21
40 % (mg/L)	3.42	3.87	3.74	3.77
MEDIAN (mg/L)	2.58	3.08	3.02	3.00
60 % (mg/L)	2.04	2.26	2.27	2.10
80 % (mg/L)	1.35	1.44	1.54	1.37

SUMMARY STATISTICS (mg/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	0.33	47.20	5.04	6.96
LOWER	189	0.34	47.20	5.95	8.54

Figure 5-111. Population estimates for initial dissolved inorganic carbon (DIC11) for the Southeastern Region.

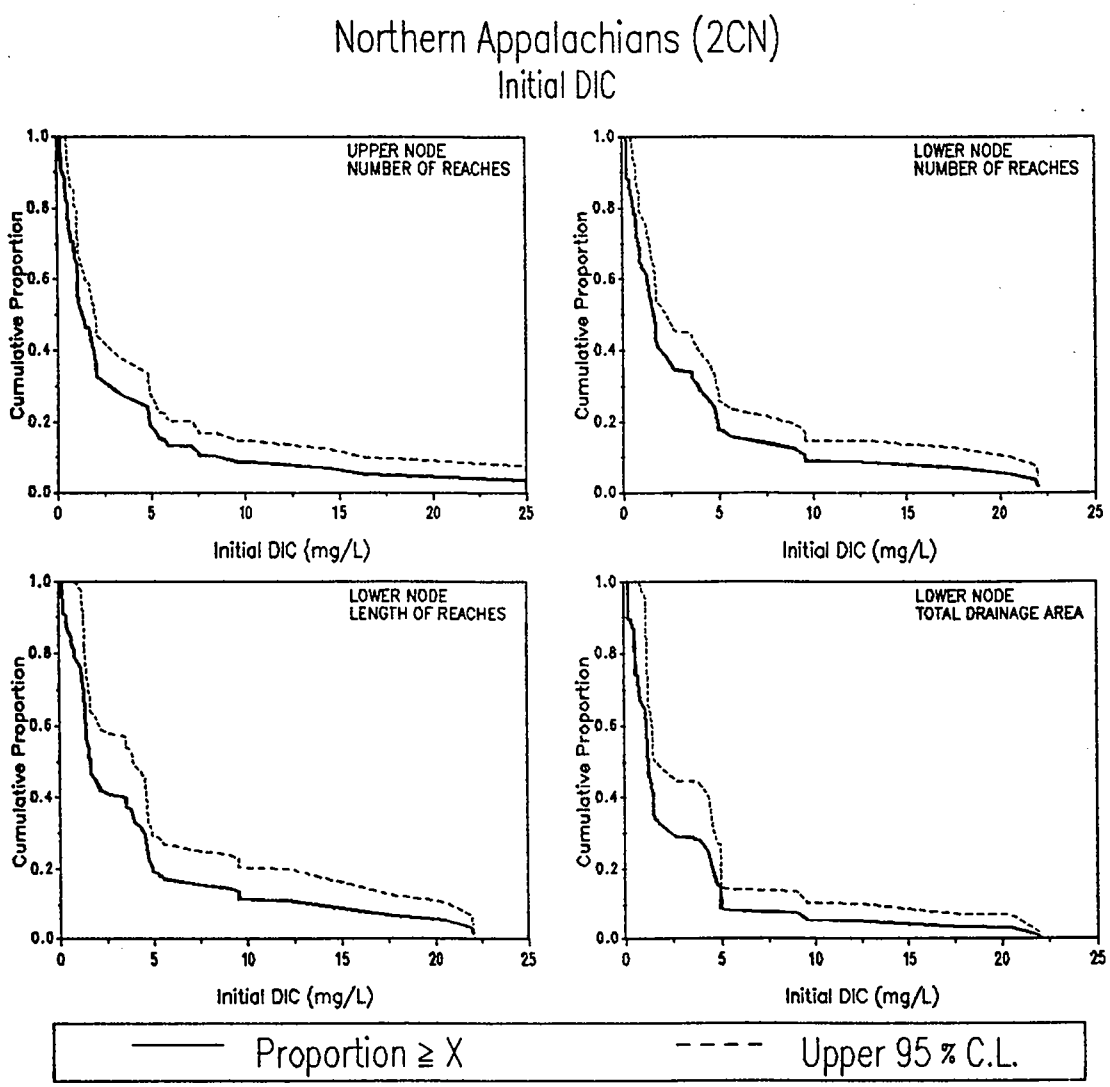


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (mg/L)	7.68	8.07	8.77	11.04
40 % (mg/L)	3.04	4.22	4.82	5.68
MEDIAN (mg/L)	2.28	3.39	4.03	5.54
60 % (mg/L)	1.79	2.69	2.69	4.01
80 % (mg/L)	0.75	1.45	1.31	1.91

SUMMARY STATISTICS (mg/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	0.13	46.50	5.10	7.39
LOWER	56	0.24	46.80	5.95	7.45

Figure 5-112.Population estimates for initial dissolved inorganic carbon (DIC11) for the Poconos/Catskills subregion (1D).



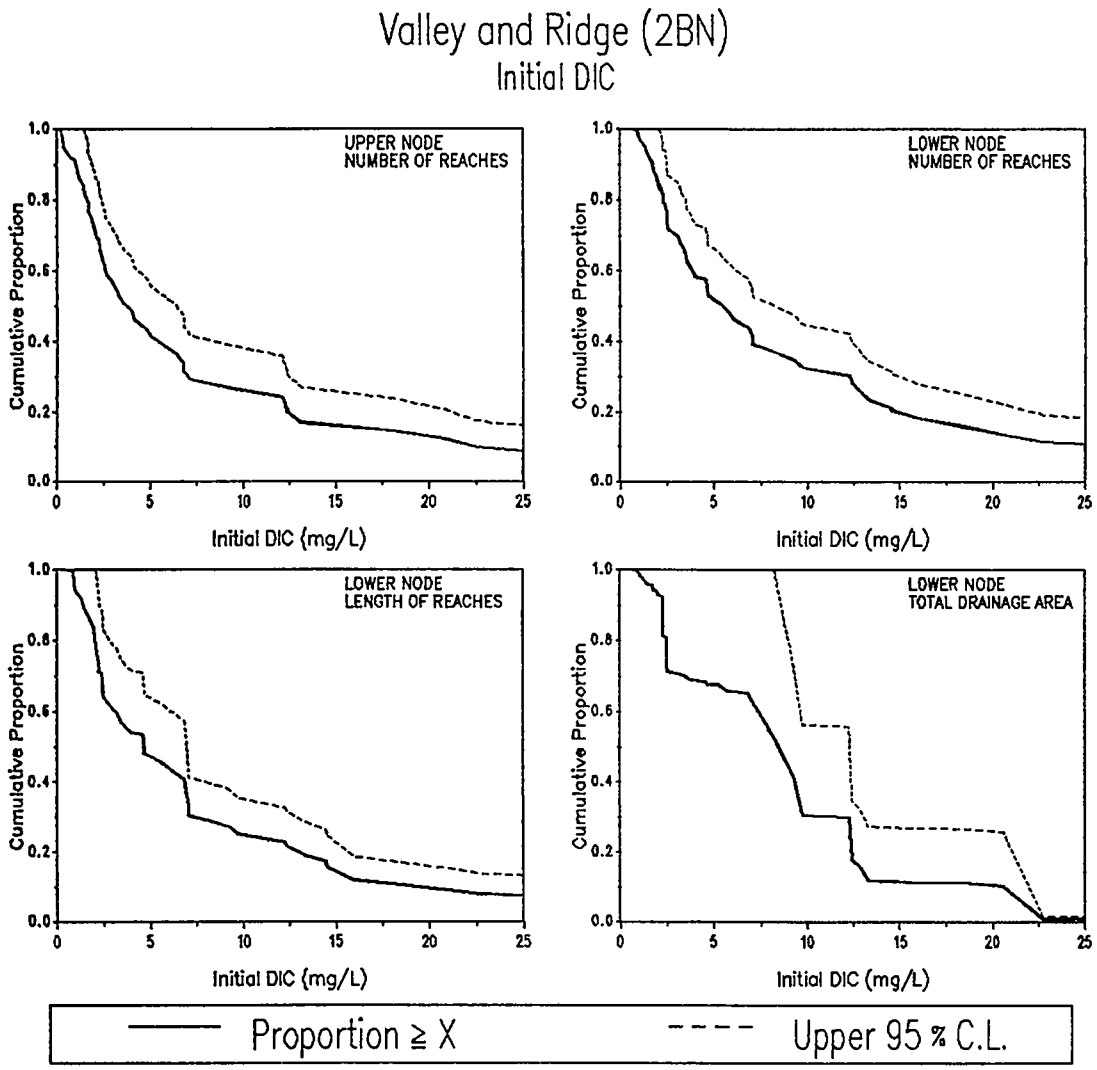
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (mg/L)	4.84	4.79	4.87	4.29
40 % (mg/L)	1.81	1.67	2.68	1.41
MEDIAN (mg/L)	1.23	1.48	1.61	1.05
60 % (mg/L)	1.05	1.13	1.34	1.02
80 % (mg/L)	0.53	0.46	0.77	0.45

SUMMARY STATISTICS (mg/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	0.15	27.75	3.39	5.43
LOWER	61	0.16	22.00	3.61	5.25

Figure 5-113. Population estimates for initial dissolved inorganic carbon (DIC11) for the Northern Appalachians subregion (2Cn).



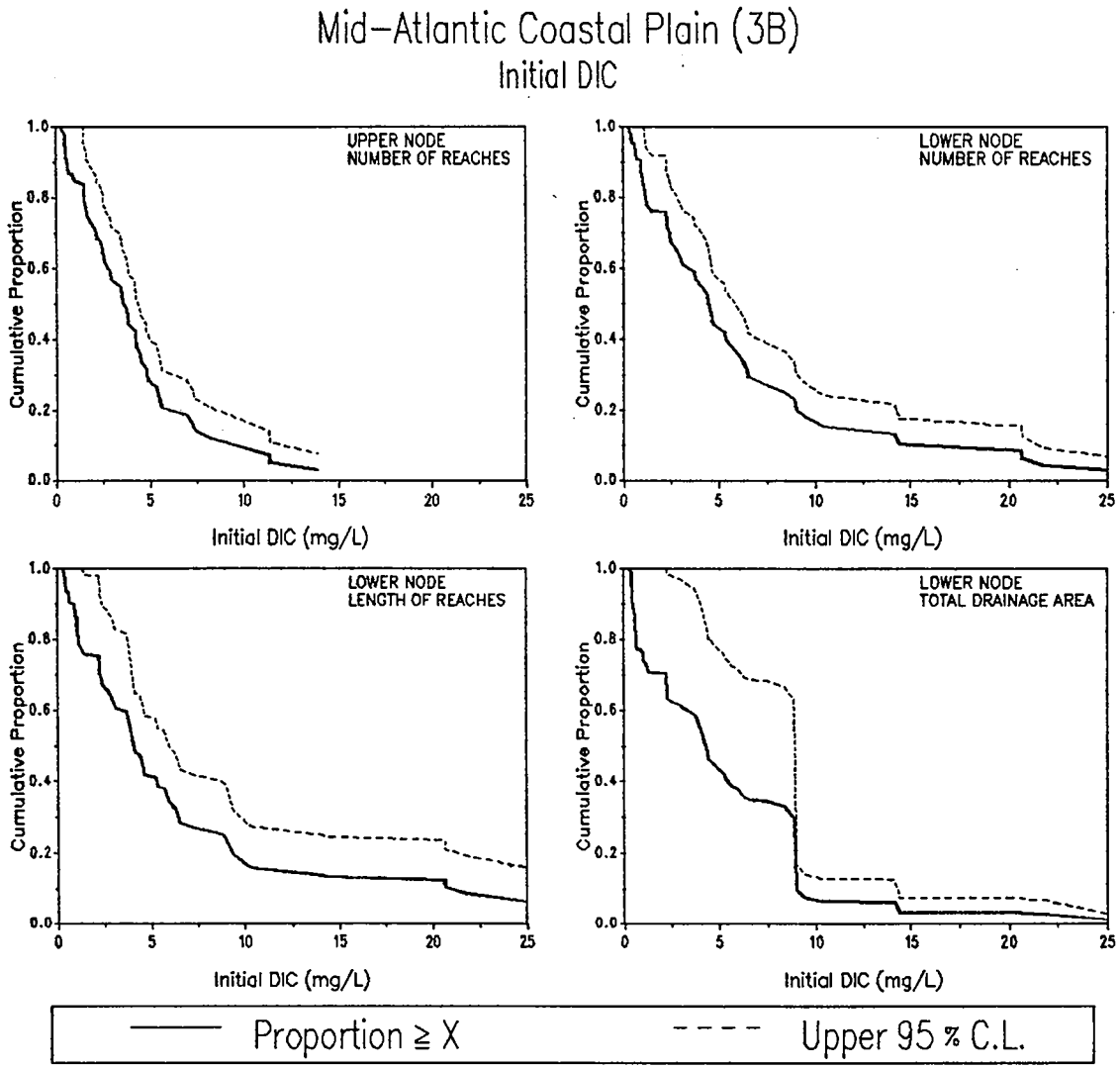
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (mg/L)	12.24	14.49	12.54	11.82
40 % (mg/L)	4.93	6.97	6.15	8.38
MEDIAN (mg/L)	3.38	4.87	4.60	7.29
60 % (mg/L)	2.46	3.61	2.84	7.03
80 % (mg/L)	1.44	2.18	1.89	2.37

SUMMARY STATISTICS (mg/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	0.18	57.36	7.97	10.94
LOWER	47	0.41	58.63	9.84	11.67

Figure 5-114. Population estimates for initial dissolved inorganic carbon (DIC11) for the Valley and Ridge subregion (2Bn).



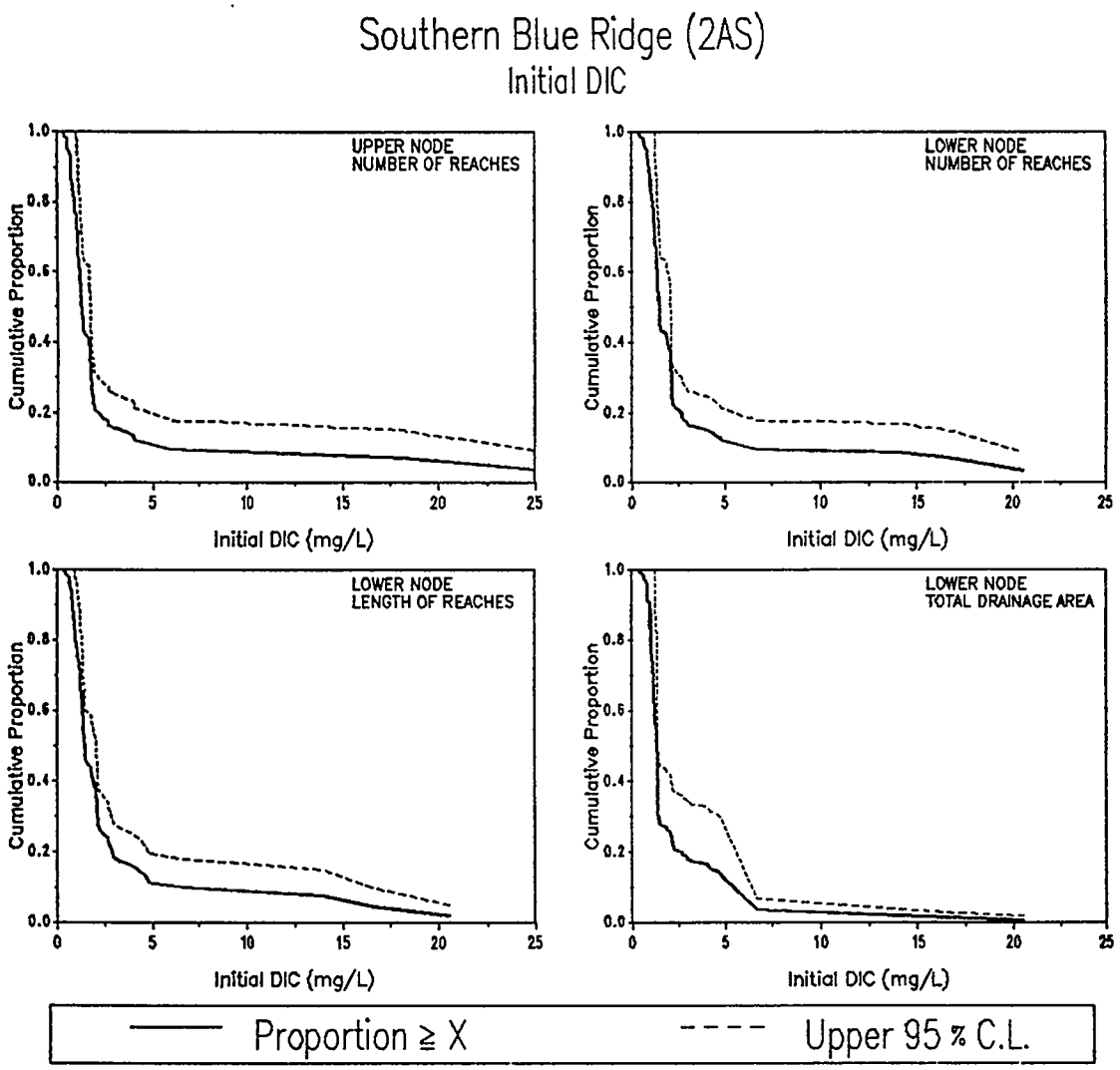
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (mg/L)	5.53	8.88	8.97	8.63
40 % (mg/L)	4.18	5.24	4.89	5.28
MEDIAN (mg/L)	3.49	4.38	3.75	4.01
60 % (mg/L)	2.57	3.03	3.02	3.01
80 % (mg/L)	1.47	1.13	1.08	0.61

SUMMARY STATISTICS (mg/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	0.24	13.91	4.08	3.19
LOWER	58	0.29	26.54	6.06	6.06

Figure 5-115. Population estimates for initial dissolved inorganic carbon (DIC11) for the Mid-Atlantic Coastal Plain subregion (3B).



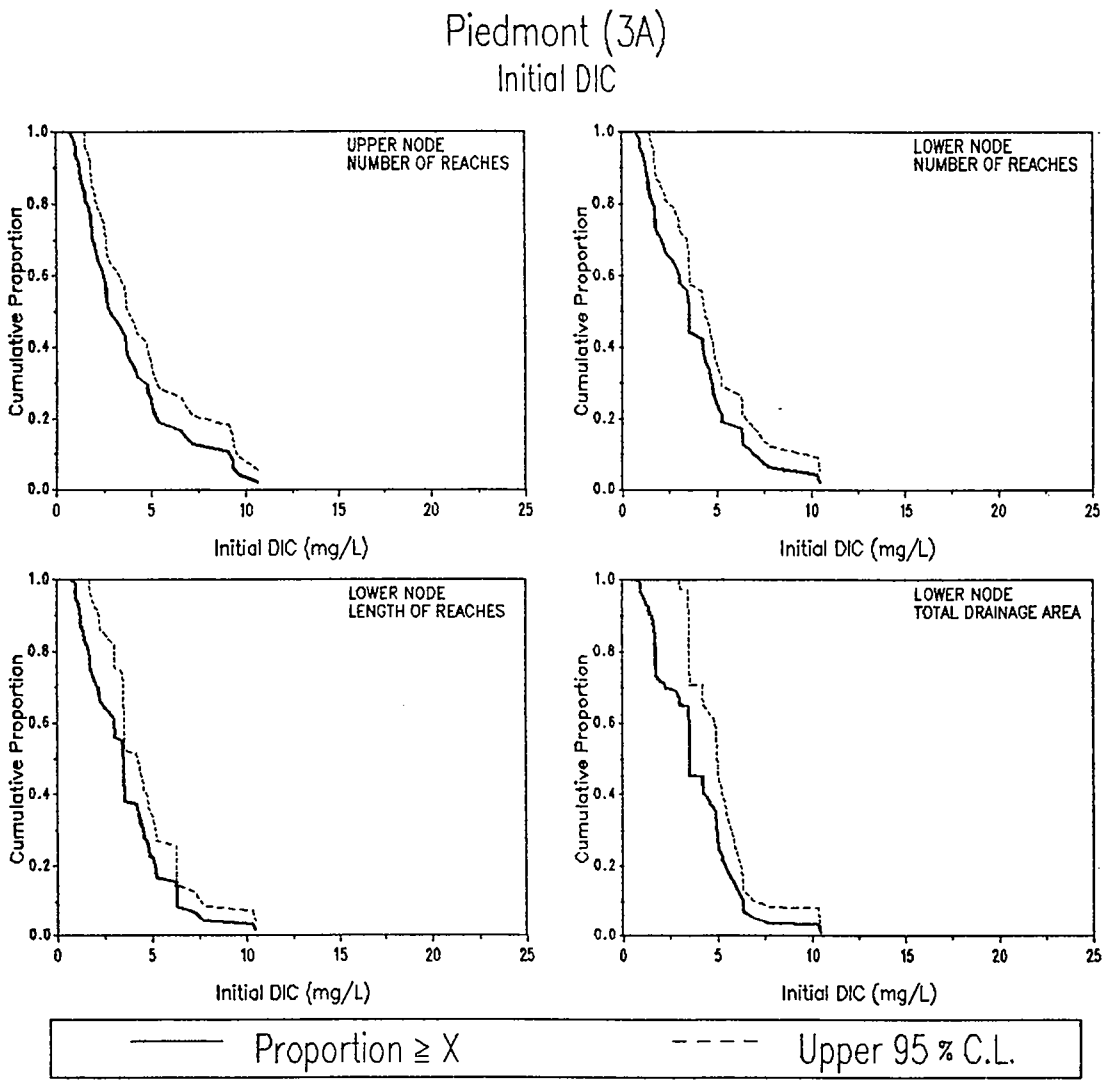
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (mg/L)	1.90	2.23	2.69	2.24
40 % (mg/L)	1.60	1.81	1.82	1.33
MEDIAN(mg/L)	1.21	1.43	1.41	1.28
60 % (mg/L)	1.11	1.31	1.31	1.14
80 % (mg/L)	0.85	1.06	0.97	0.96

SUMMARY STATISTICS (mg/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	0.33	25.70	3.00	5.38
LOWER	54	0.34	20.52	3.04	4.58

Figure 5-116. Population estimates for initial dissolved inorganic carbon (DIC11) for the Southern Blue Ridge subregion (2As).

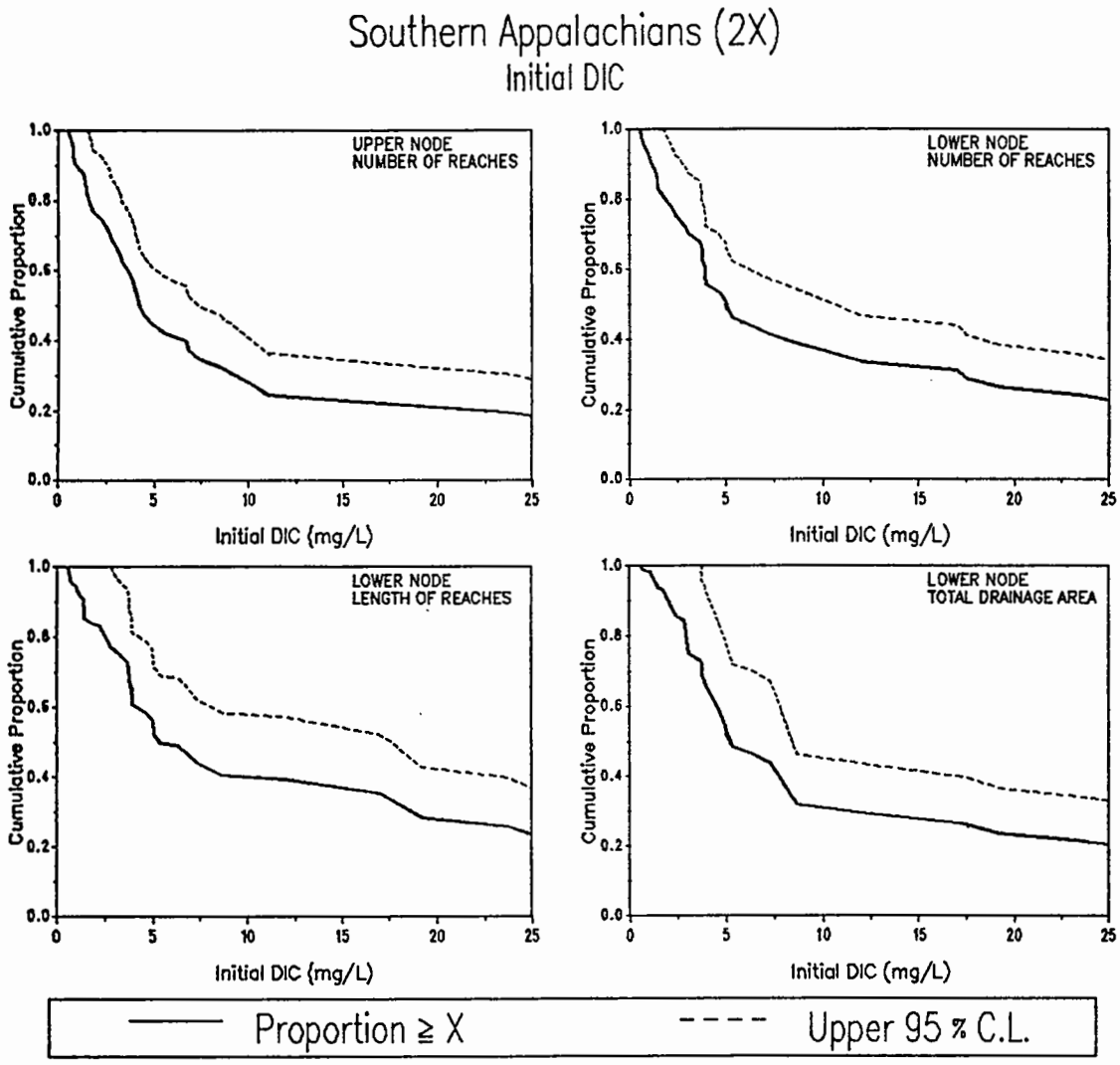


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (mg/L)	5.10	5.14	4.98	5.21
40 % (mg/L)	3.58	4.19	3.50	4.24
MEDIAN (mg/L)	2.67	3.48	3.42	3.50
60 % (mg/L)	2.36	2.87	2.90	3.42
80 % (mg/L)	1.50	1.50	1.57	1.70

SUMMARY STATISTICS (mg/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	0.71	10.65	3.69	2.58
LOWER	47	0.71	10.43	3.73	2.30

Figure 5-117. Population estimates for initial dissolved inorganic carbon (DIC11) for the Piedmont subregion (3A).



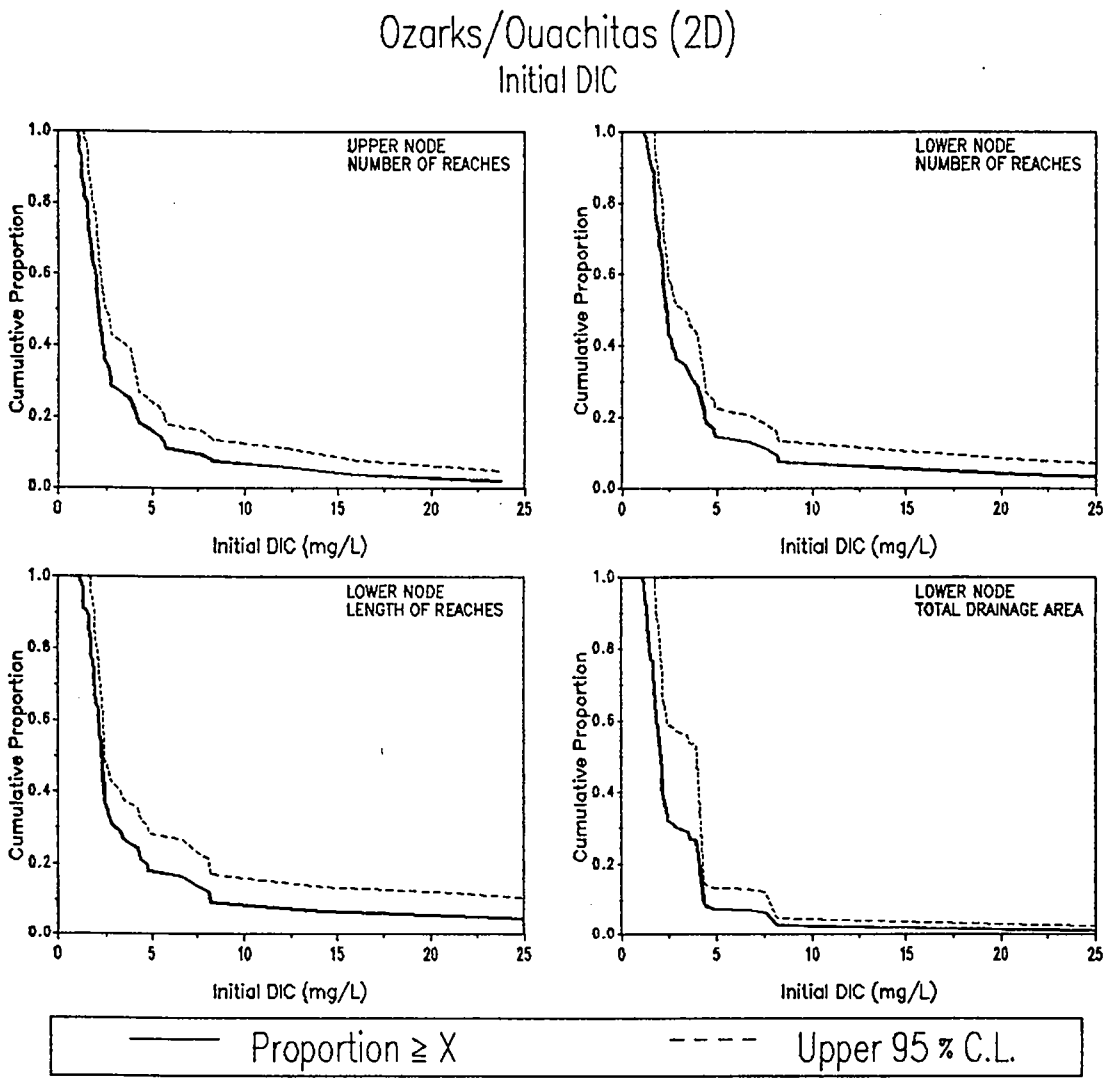
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (mg/L)	16.21	25.37	24.51	22.90
40 % (mg/L)	5.47	6.88	8.02	6.66
MEDIAN(mg/L)	4.11	4.77	5.03	5.01
60 % (mg/L)	3.35	3.79	3.93	3.94
80 % (mg/L)	1.48	1.51	2.25	2.62

SUMMARY STATISTICS (mg/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	0.49	47.20	9.37	11.09
LOWER	40	0.53	47.20	12.00	13.43

Figure 5-118. Population estimates for initial dissolved inorganic carbon (DIC11) for the Southern Appalachians subregion (2X).



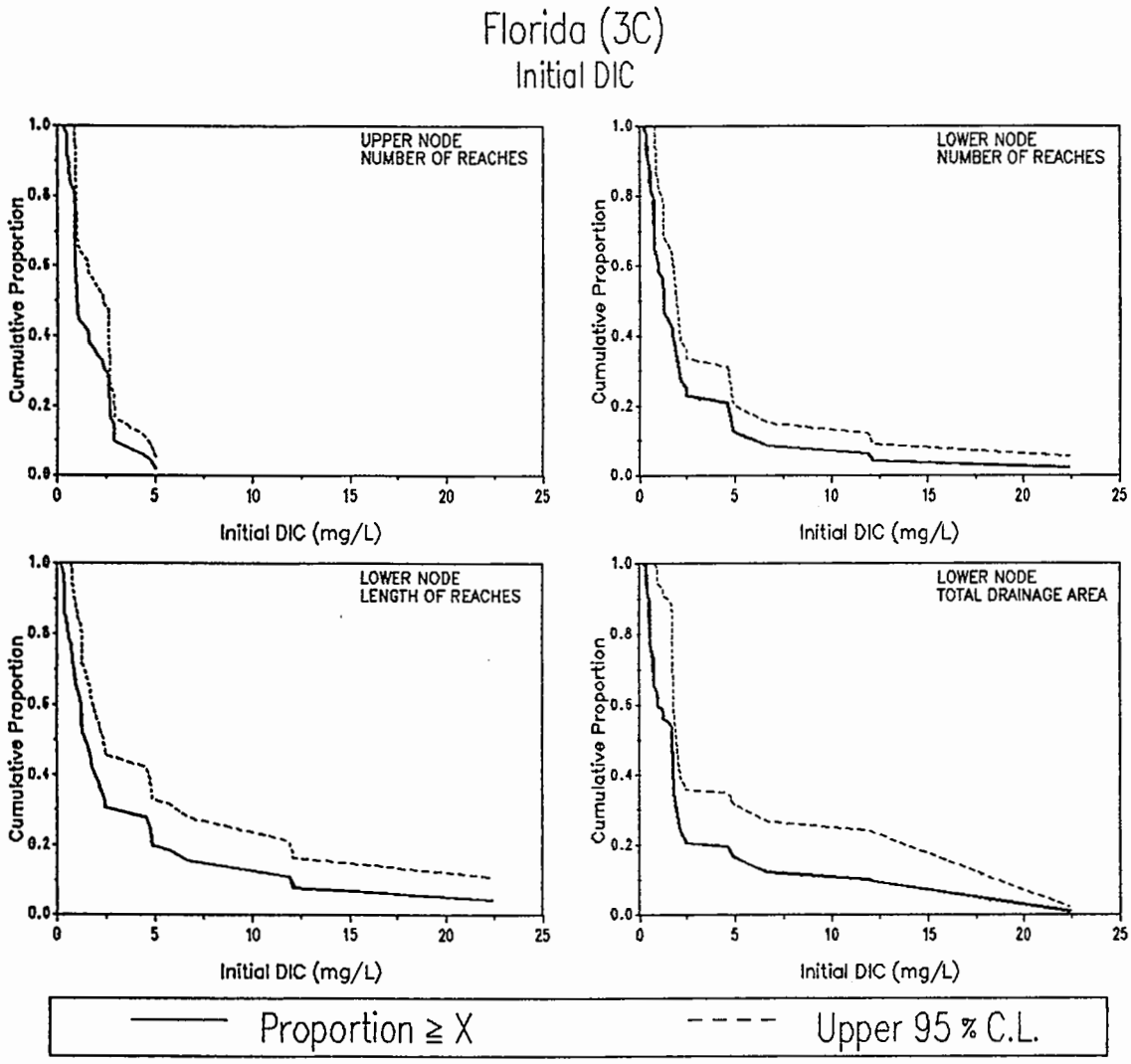
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (mg/L)	3.66	4.29	4.38	3.72
40 % (mg/L)	2.27	2.56	2.36	2.12
MEDIAN (mg/L)	2.06	2.27	2.26	1.95
60 % (mg/L)	1.80	2.07	2.11	1.73
80 % (mg/L)	1.38	1.67	1.70	1.32

SUMMARY STATISTICS (mg/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	0.97	23.76	3.35	3.88
LOWER	48	1.08	34.38	3.98	5.30

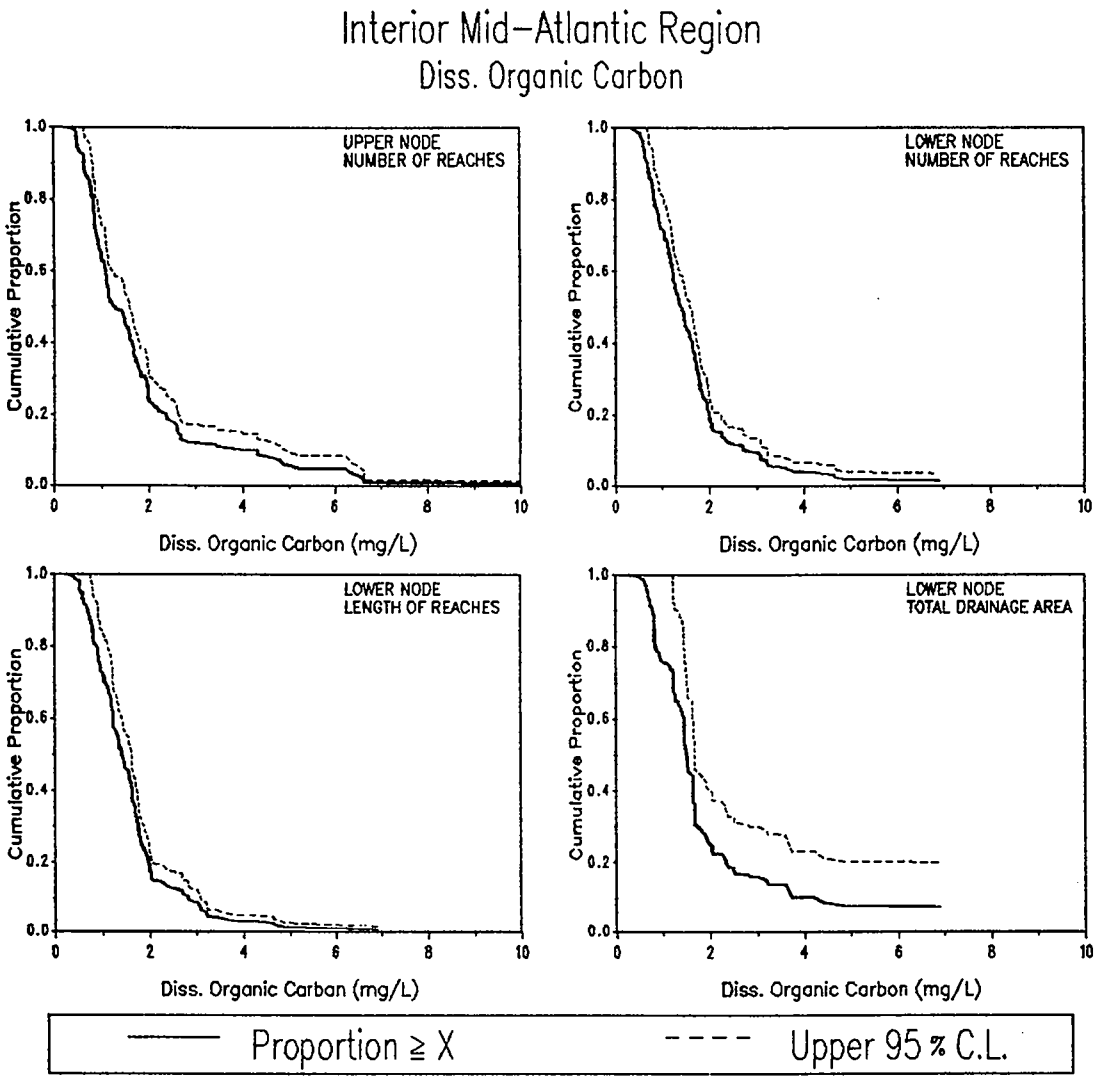
Figure 5-119. Population estimates for initial dissolved inorganic carbon (DIC11) for the Ozarks/Ouachitas subregion (2D).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (mg/L)	2.60	3.25	4.82	2.45
40 % (mg/L)	1.48	1.69	1.75	1.71
MEDIAN (mg/L)	0.90	1.22	1.25	1.69
60 % (mg/L)	0.85	0.88	1.14	0.93
80 % (mg/L)	0.78	0.53	0.50	0.51

SUMMARY STATISTICS (mg/L)					
		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	0.28	5.05	1.61	1.17
LOWER	34	0.17	22.40	2.57	3.87

Figure 5-120. Population estimates for initial dissolved inorganic carbon (DIC11) for Florida subregion (3C).

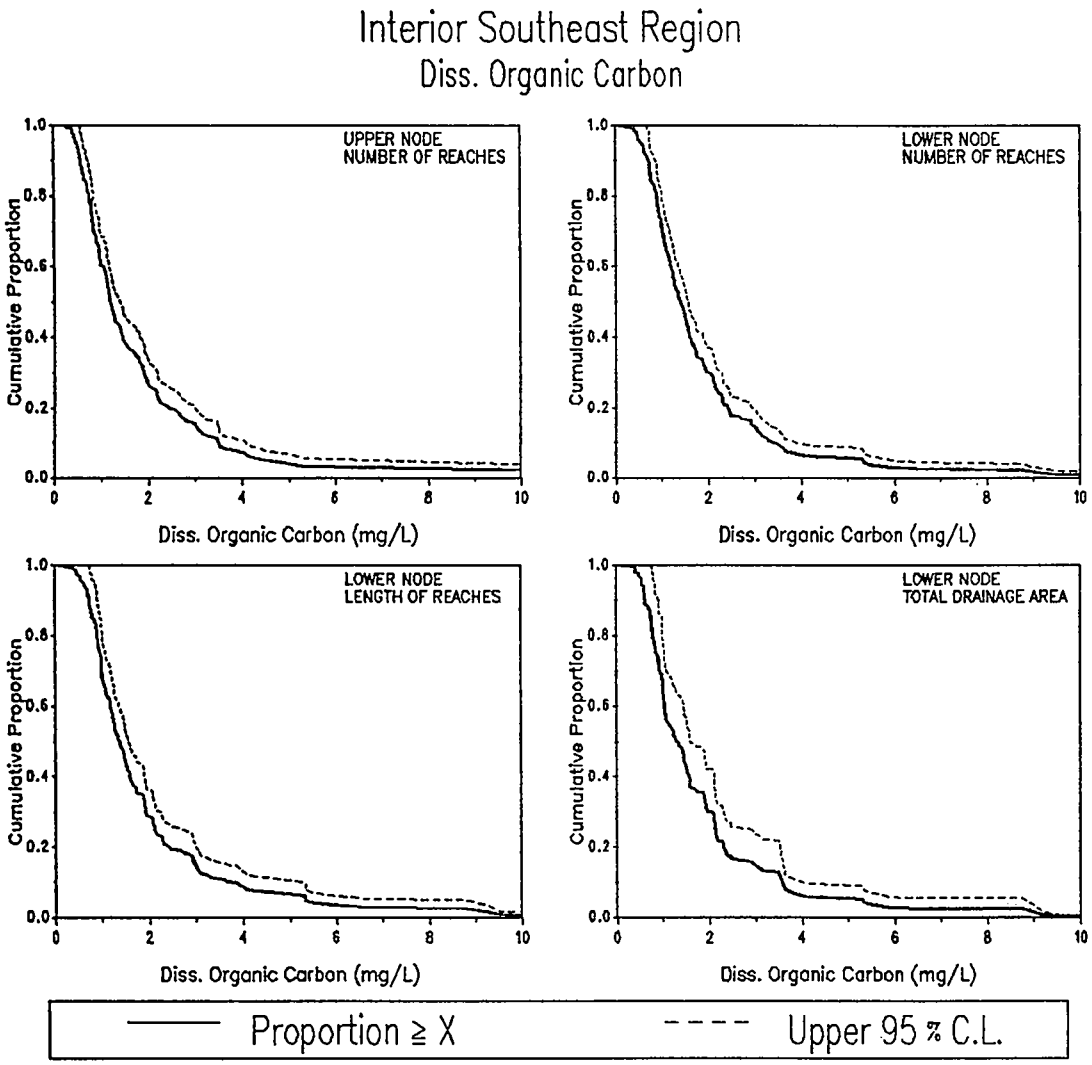


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (mg/L)	2.26	1.97	1.96	2.28
40 % (mg/L)	1.62	1.61	1.62	1.62
MEDIAN (mg/L)	1.24	1.36	1.41	1.47
60 % (mg/L)	1.06	1.19	1.22	1.42
80 % (mg/L)	0.80	0.81	0.84	0.82

SUMMARY STATISTICS (mg/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	0.24	14.13	1.80	1.61
LOWER	164	0.24	6.89	1.59	1.05

Figure 5-121. Population estimates for dissolved organic carbon (DOC11) for the Mid-Atlantic Region.



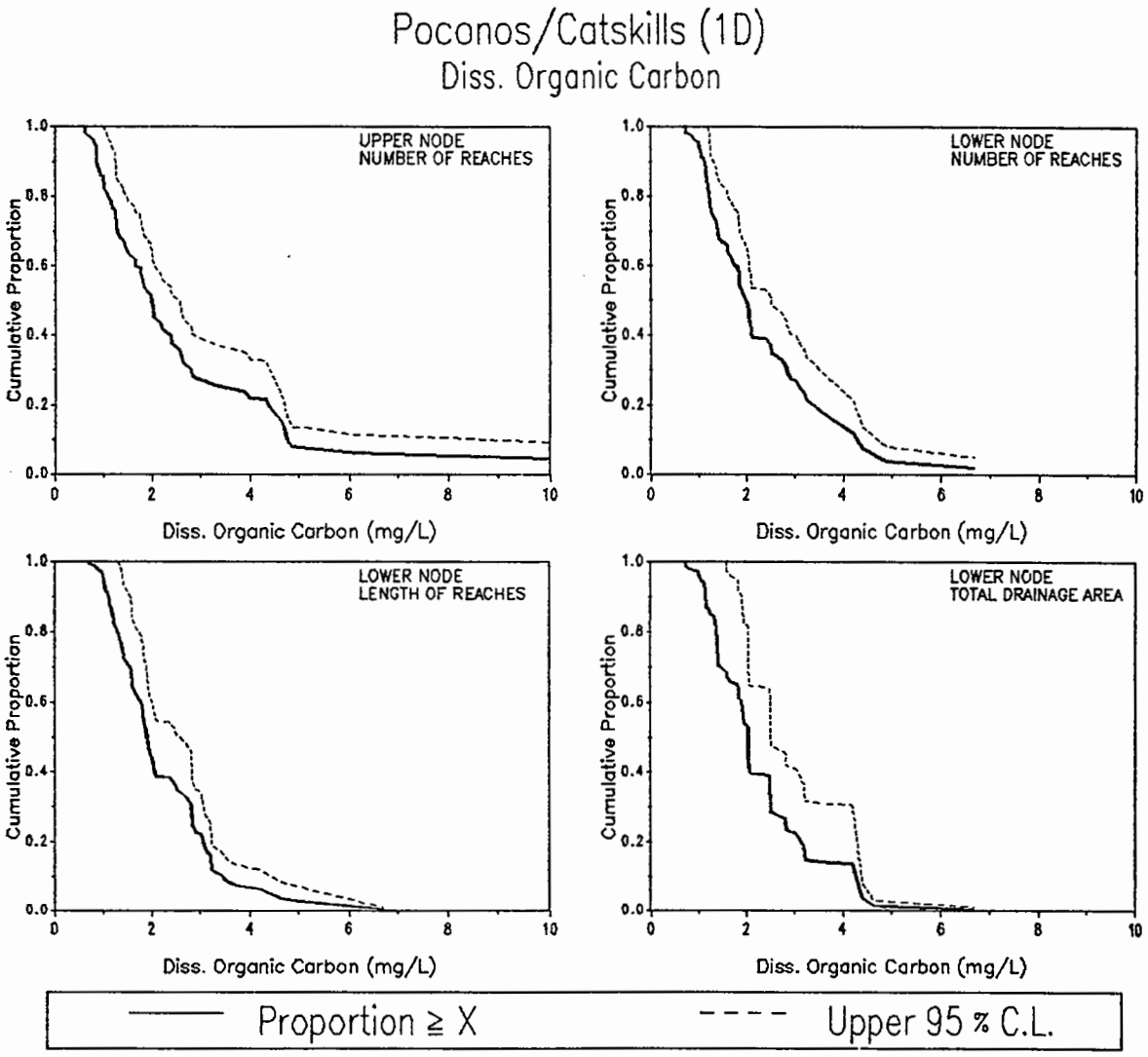
POPULATION ESTIMATES

	UPPER NODE		LOWER NODE	
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (mg/L)	2.34	2.33	2.38	2.28
40 % (mg/L)	1.43	1.58	1.57	1.54
MEDIAN (mg/L)	1.18	1.37	1.36	1.28
60 % (mg/L)	1.00	1.17	1.17	1.02
80 % (mg/L)	0.73	0.88	0.89	0.78

SUMMARY STATISTICS (mg/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	0.23	21.05	1.82	2.09
LOWER	189	0.00	12.92	1.84	1.61

Figure 5-122. Population estimates for dissolved organic carbon (DOC11) for the Southeastern Region.



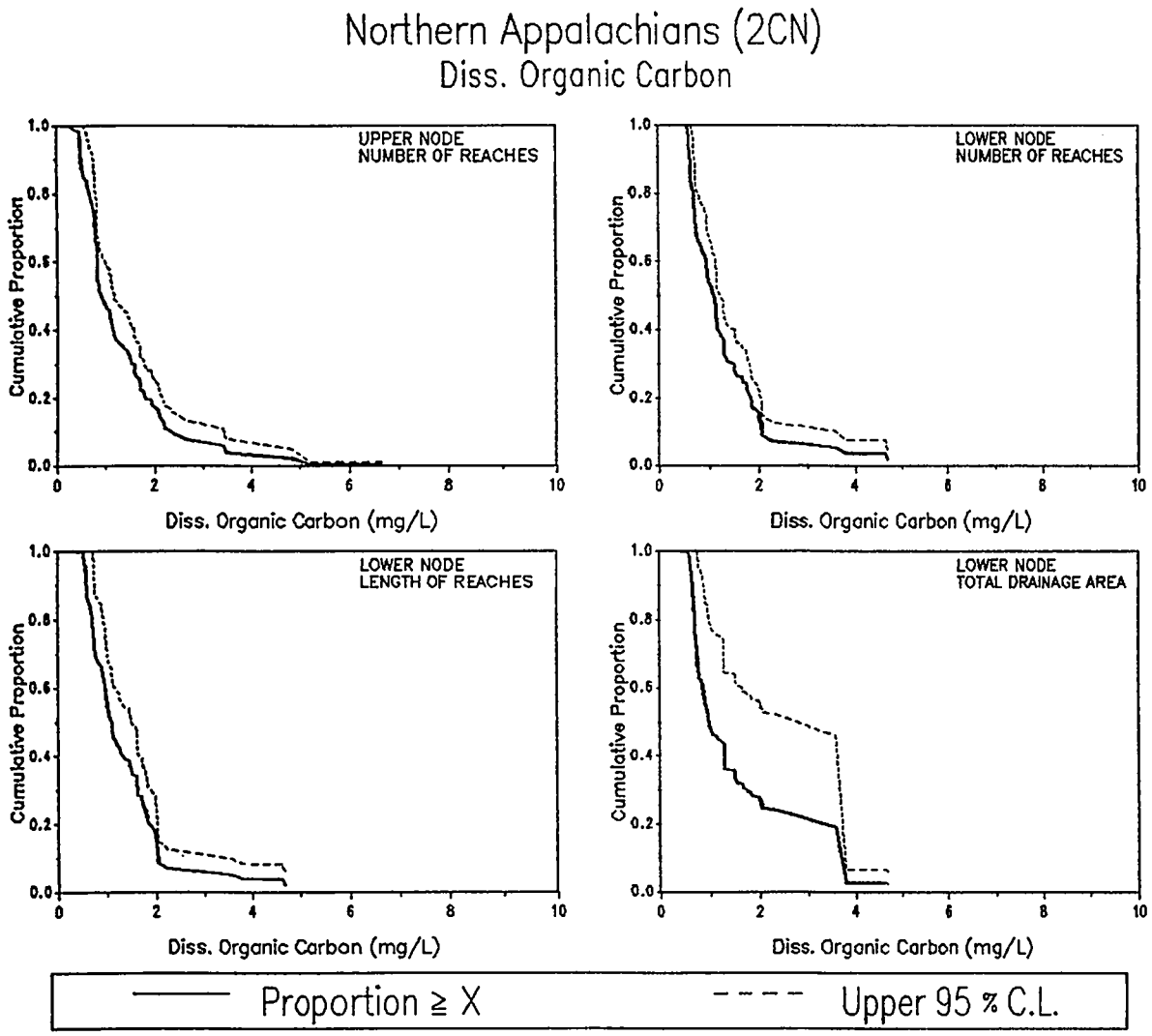
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (mg/L)	4.27	3.22	2.97	3.06
40 % (mg/L)	2.19	2.06	2.03	2.03
MEDIAN (mg/L)	1.96	1.91	1.85	2.02
60 % (mg/L)	1.62	1.72	1.73	1.83
80 % (mg/L)	1.02	1.17	1.23	1.33

SUMMARY STATISTICS (mg/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	0.60	14.13	2.71	2.56
LOWER	56	0.72	6.68	2.29	1.25

Figure 5-123. Population estimates for dissolved organic carbon (DOC11) for the Poconos/Catskills subregion (1D).



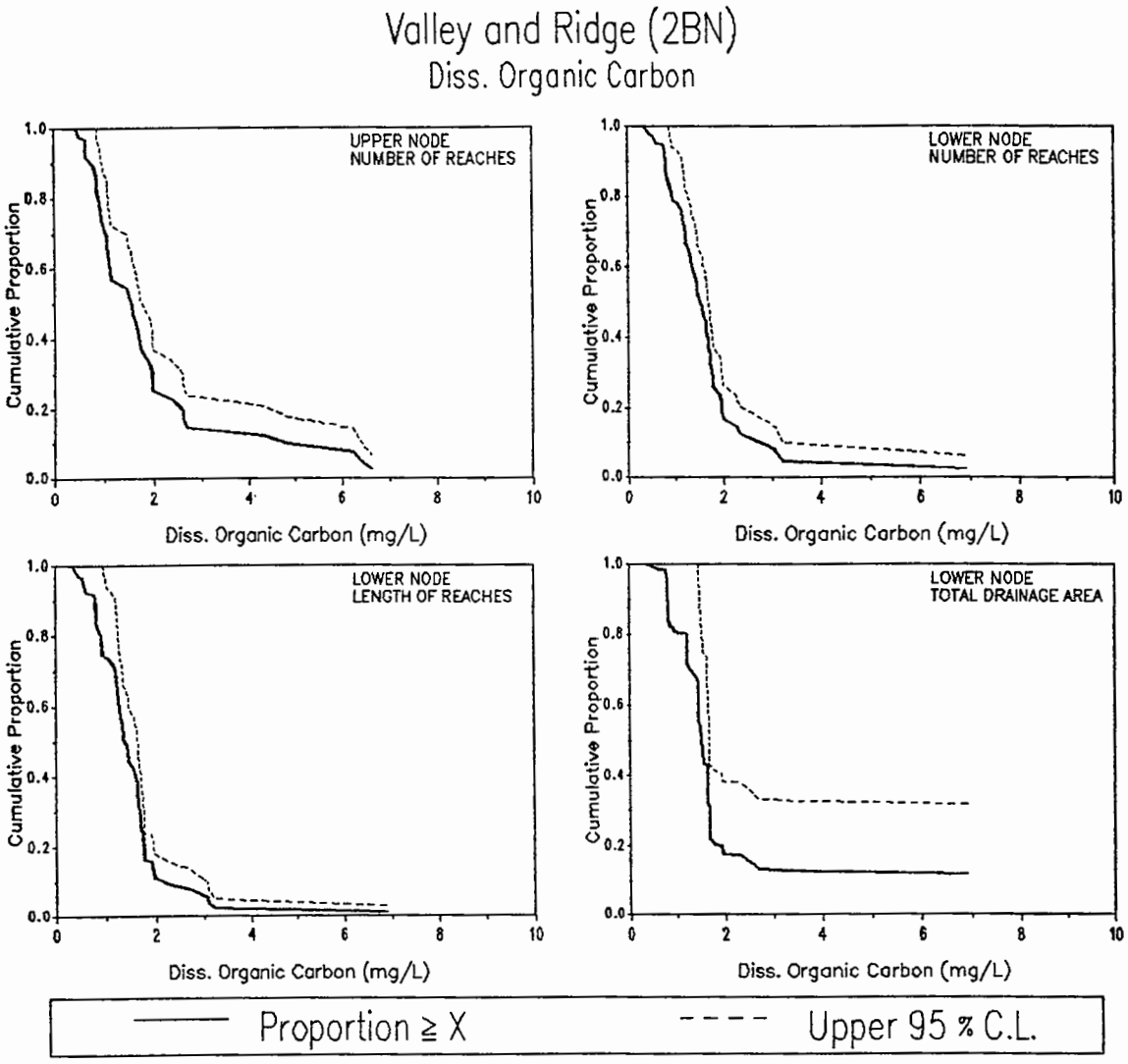
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (mg/L)	1.76	1.77	1.84	2.21
40 % (mg/L)	1.12	1.12	1.28	1.22
MEDIAN (mg/L)	0.88	1.03	1.07	0.94
60 % (mg/L)	0.82	0.90	0.95	0.83
80 % (mg/L)	0.64	0.63	0.70	0.63

SUMMARY STATISTICS (mg/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	0.24	6.64	1.28	0.91
LOWER	61	0.24	4.67	1.27	0.86

Figure 5-124.Population estimates for dissolved organic carbon (DOC11) for the Northern Appalachians subregion (2Cn).

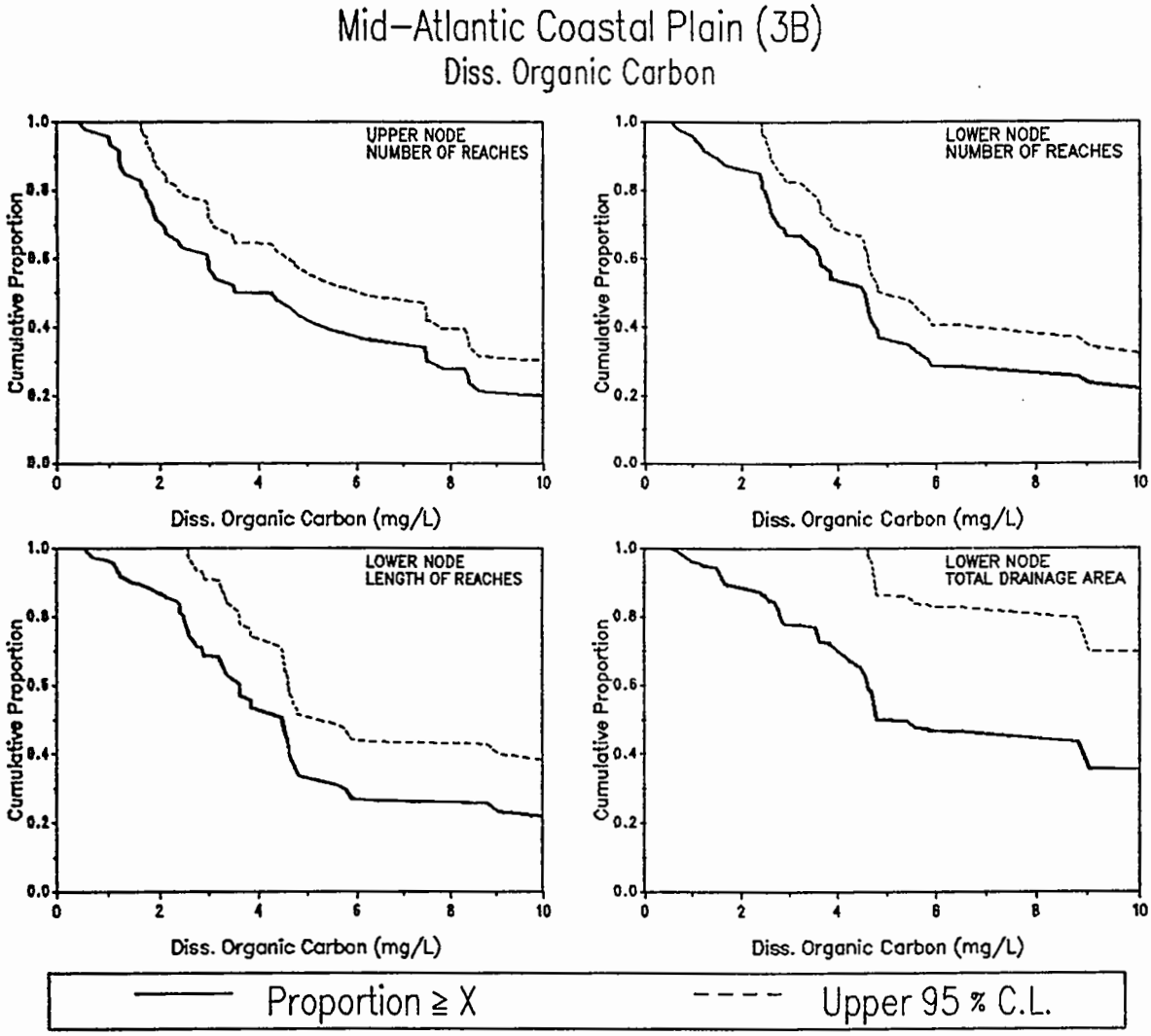


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (mg/L)	2.41	1.93	1.74	1.78
40 % (mg/L)	1.65	1.63	1.56	1.58
MEDIAN (mg/L)	1.48	1.46	1.34	1.46
60 % (mg/L)	1.08	1.33	1.22	1.43
80 % (mg/L)	0.86	0.89	0.87	1.19

SUMMARY STATISTICS (mg/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	0.45	6.62	1.91	1.55
LOWER	47	0.33	6.89	1.63	1.01

Figure 5-125. Population estimates for dissolved organic carbon (DOC11) for the Valley and Ridge subregion (2Bn).

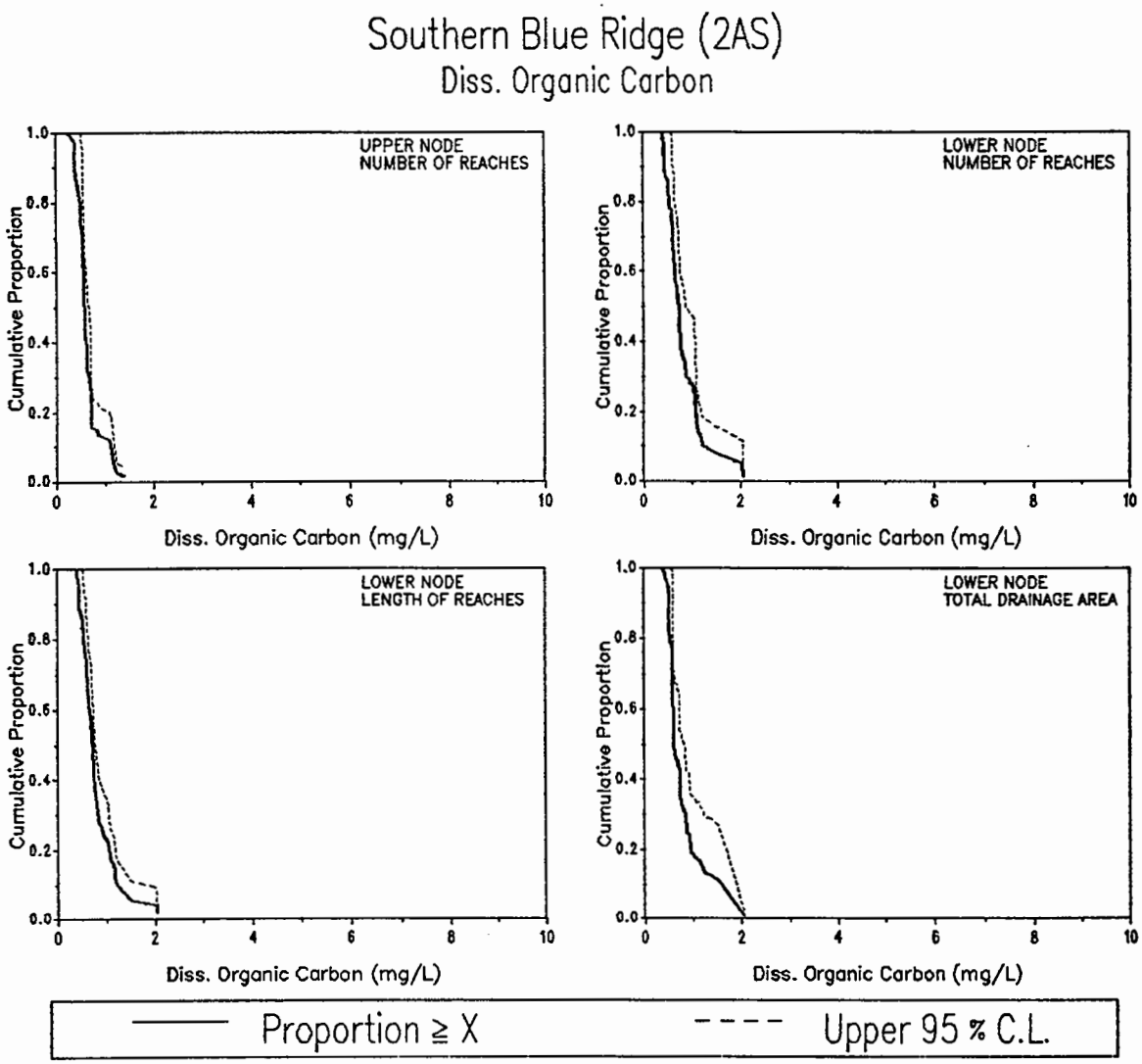


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (mg/L)	9.58	9.85	10.62	26.34
40 % (mg/L)	4.95	4.66	4.59	7.53
MEDIAN (mg/L)	3.48	4.45	4.40	4.76
60 % (mg/L)	2.71	3.57	3.56	4.57
80 % (mg/L)	1.65	2.40	2.42	2.72

SUMMARY STATISTICS (mg/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	0.43	31.53	6.63	7.20
LOWER	58	0.55	29.43	6.69	6.85

Figure 5-126.Population estimates for dissolved organic carbon (DOC11) for the Mid-Atlantic Coastal Plain subregion (3B).



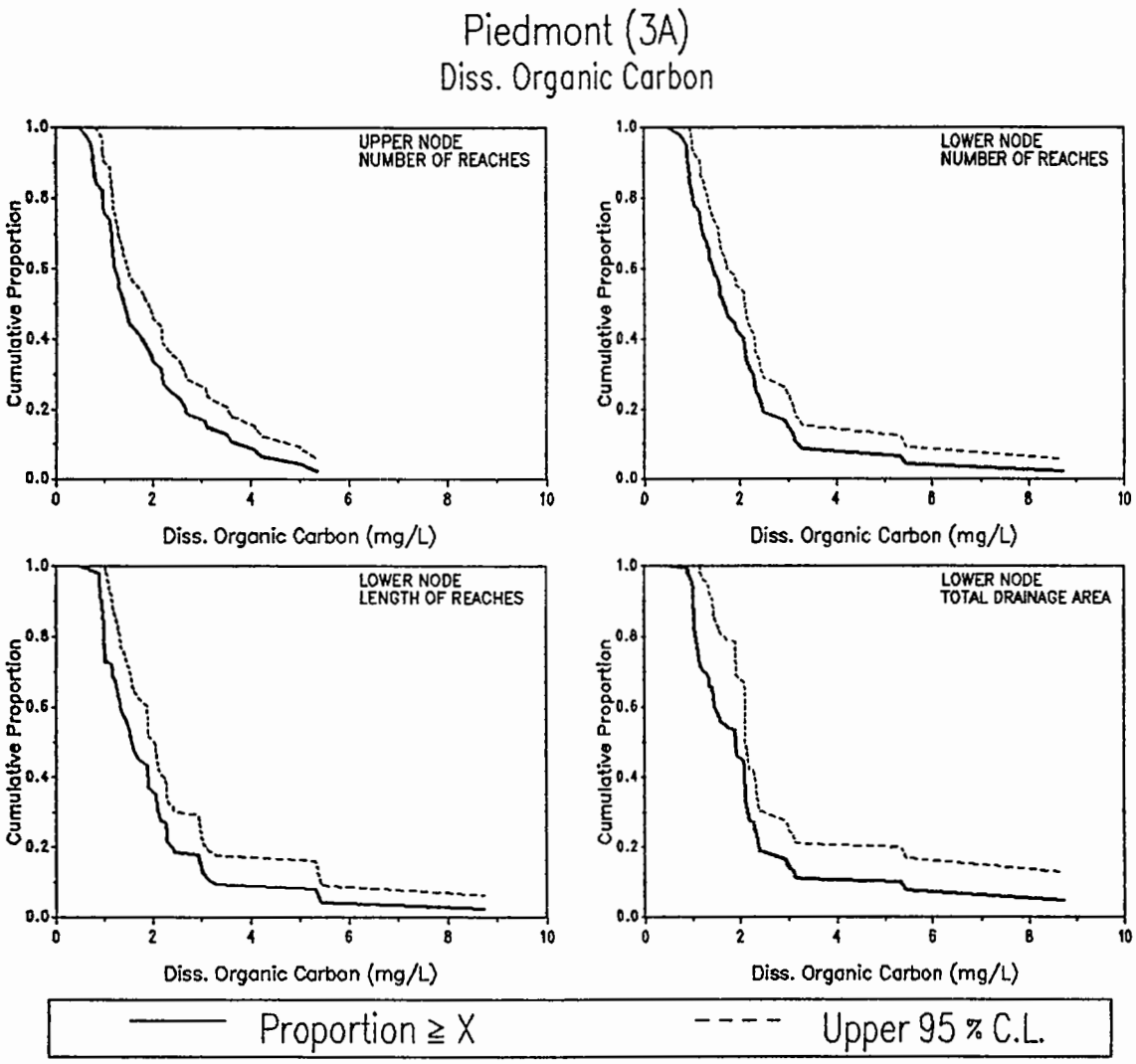
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (mg/L)	0.70	1.02	1.01	0.91
40 % (mg/L)	0.60	0.75	0.75	0.72
MEDIAN (mg/L)	0.58	0.72	0.71	0.61
60 % (mg/L)	0.56	0.65	0.65	0.60
80 % (mg/L)	0.49	0.55	0.55	0.55

SUMMARY STATISTICS (mg/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	0.23	1.39	0.64	0.23
LOWER	54	0.41	2.04	0.82	0.37

Figure 5-127. Population estimates for dissolved organic carbon (DOC11) for the Southern Blue Ridge subregion (2As).



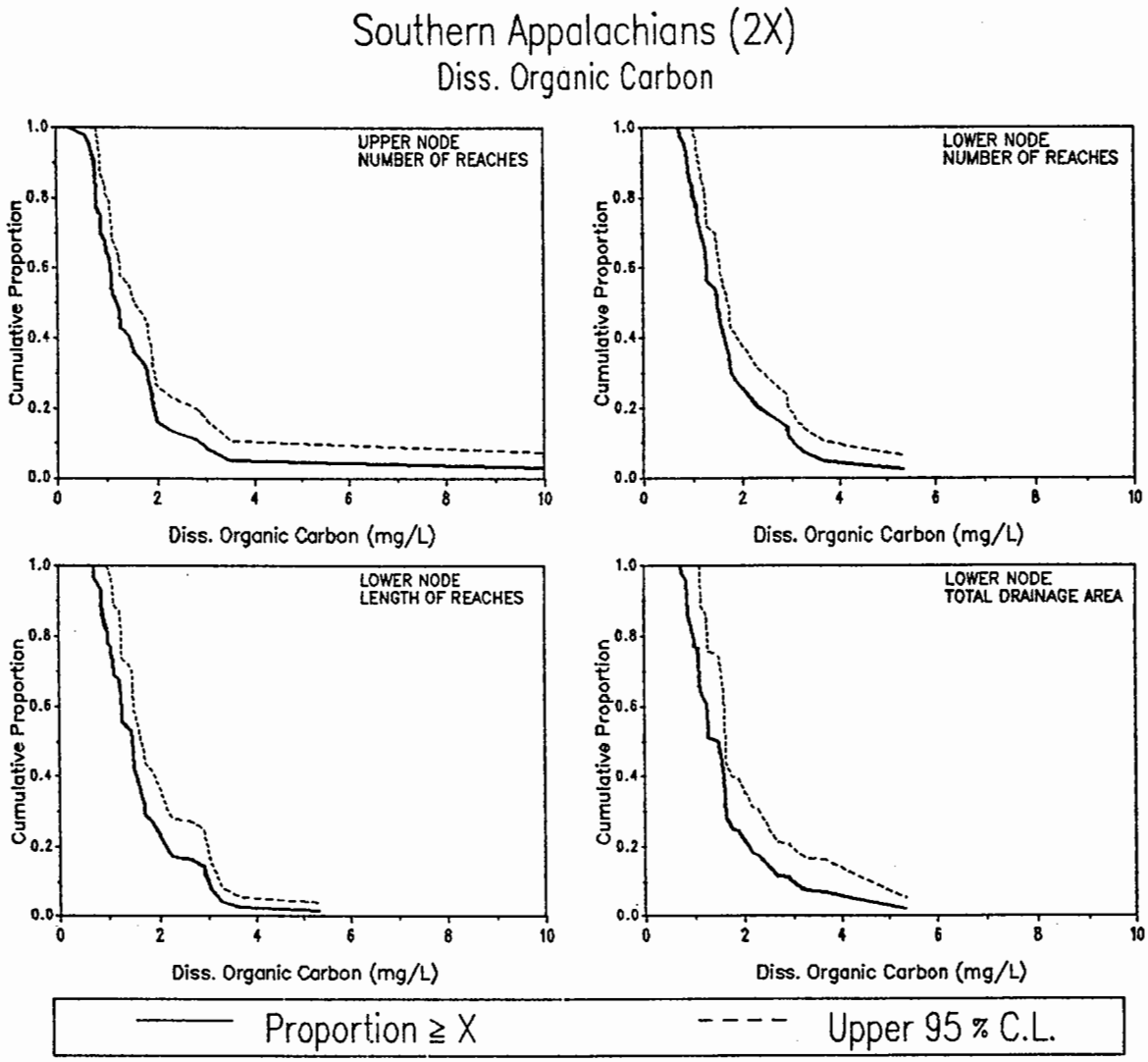
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (mg/L)	2.58	2.40	2.33	2.30
40 % (mg/L)	1.66	1.93	1.81	2.08
MEDIAN (mg/L)	1.36	1.59	1.56	1.80
60 % (mg/L)	1.19	1.38	1.30	1.40
80 % (mg/L)	0.90	0.99	0.98	1.00

SUMMARY STATISTICS (mg/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	0.49	5.35	1.83	1.15
LOWER	47	0.47	8.74	2.00	1.42

Figure 5-128. Population estimates for dissolved organic carbon (DOC11) for the Piedmont subregion (3A).



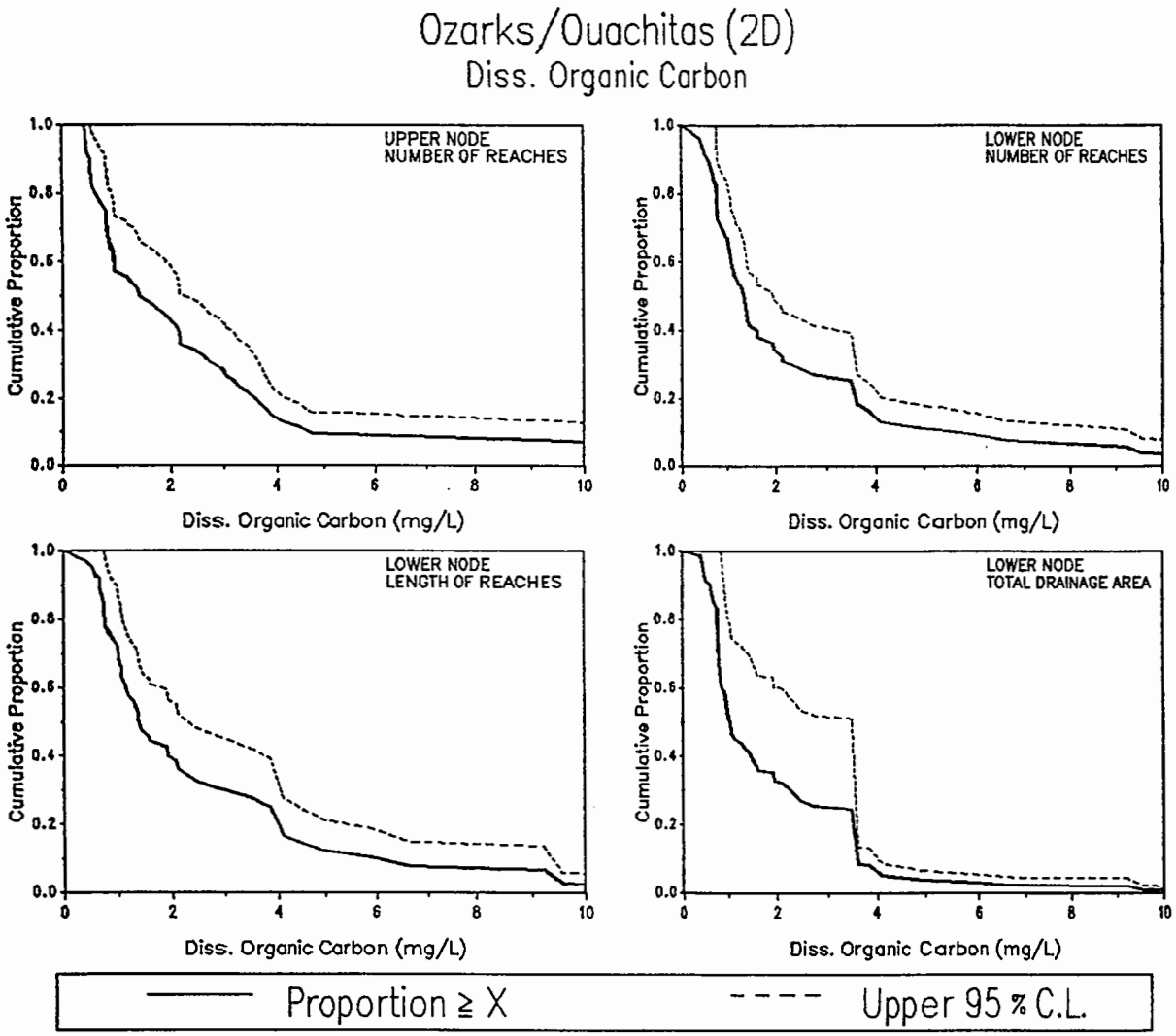
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (mg/L)	1.90	2.17	1.86	1.83
40 % (mg/L)	1.29	1.57	1.53	1.54
MEDIAN (mg/L)	1.11	1.47	1.46	1.35
60 % (mg/L)	1.06	1.24	1.25	1.14
80 % (mg/L)	0.80	0.99	0.94	0.91

SUMMARY STATISTICS (mg/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	0.27	11.60	1.62	1.73
LOWER	40	0.73	5.34	1.69	0.92

Figure 5-129. Population estimates for dissolved organic carbon (DOC11) for the Southern Appalachians subregion (2X).

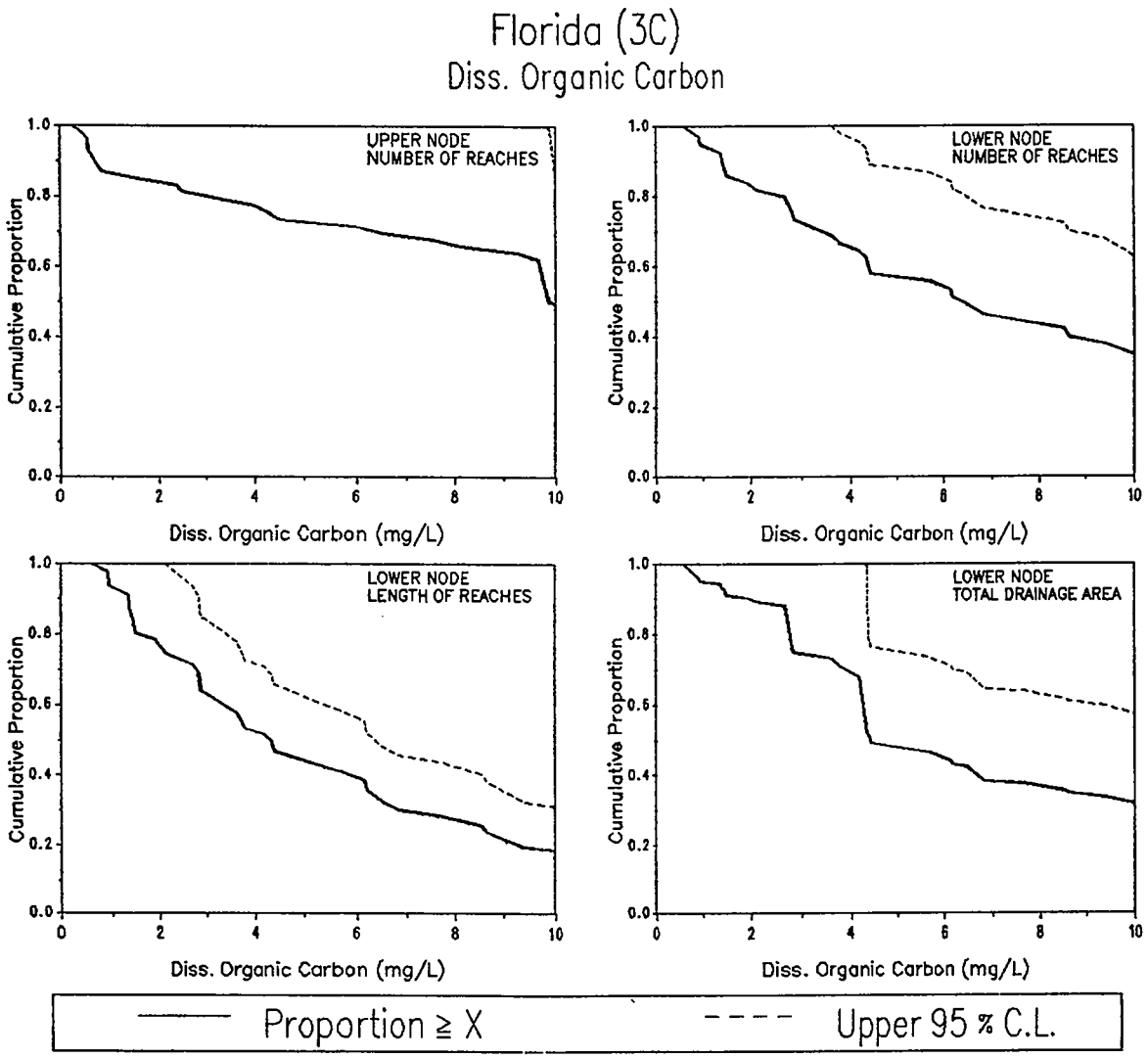


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (mg/L)	3.31	3.30	3.86	2.94
40 % (mg/L)	2.04	1.44	1.89	1.39
MEDIAN (mg/L)	1.39	1.32	1.37	1.01
60 % (mg/L)	0.93	1.07	1.09	0.79
80 % (mg/L)	0.57	0.73	0.77	0.71

SUMMARY STATISTICS (mg/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	0.38	21.05	2.58	3.49
LOWER	48	0.00	12.92	2.26	2.49

Figure 5-130. Population estimates for dissolved organic carbon (DOC11) for the Ozarks/Ouachitas subregion (2D).



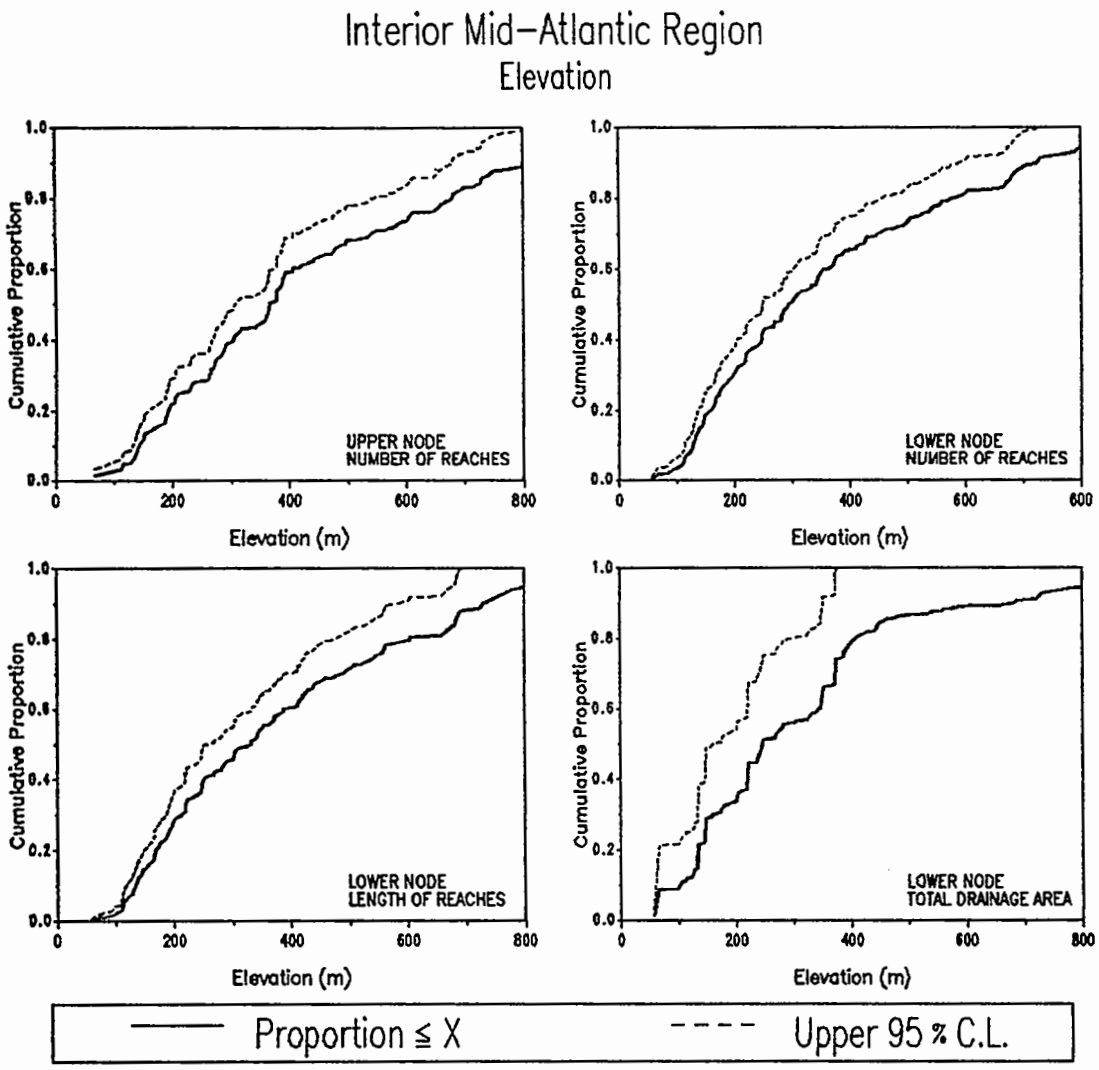
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (mg/L)	81.24	13.14	8.63	13.61
40 % (mg/L)	11.76	8.52	4.99	6.36
MEDIAN (mg/L)	9.67	6.18	4.11	4.36
60 % (mg/L)	9.33	4.34	2.98	3.98
80 % (mg/L)	2.41	2.10	1.45	2.50

SUMMARY STATISTICS (mg/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	0.22	171.00	43.75	64.42
LOWER	34	0.58	54.00	9.35	10.16

Figure 5-131. Population estimates for dissolved organic carbon (DOC11) for Florida subregion (3C).

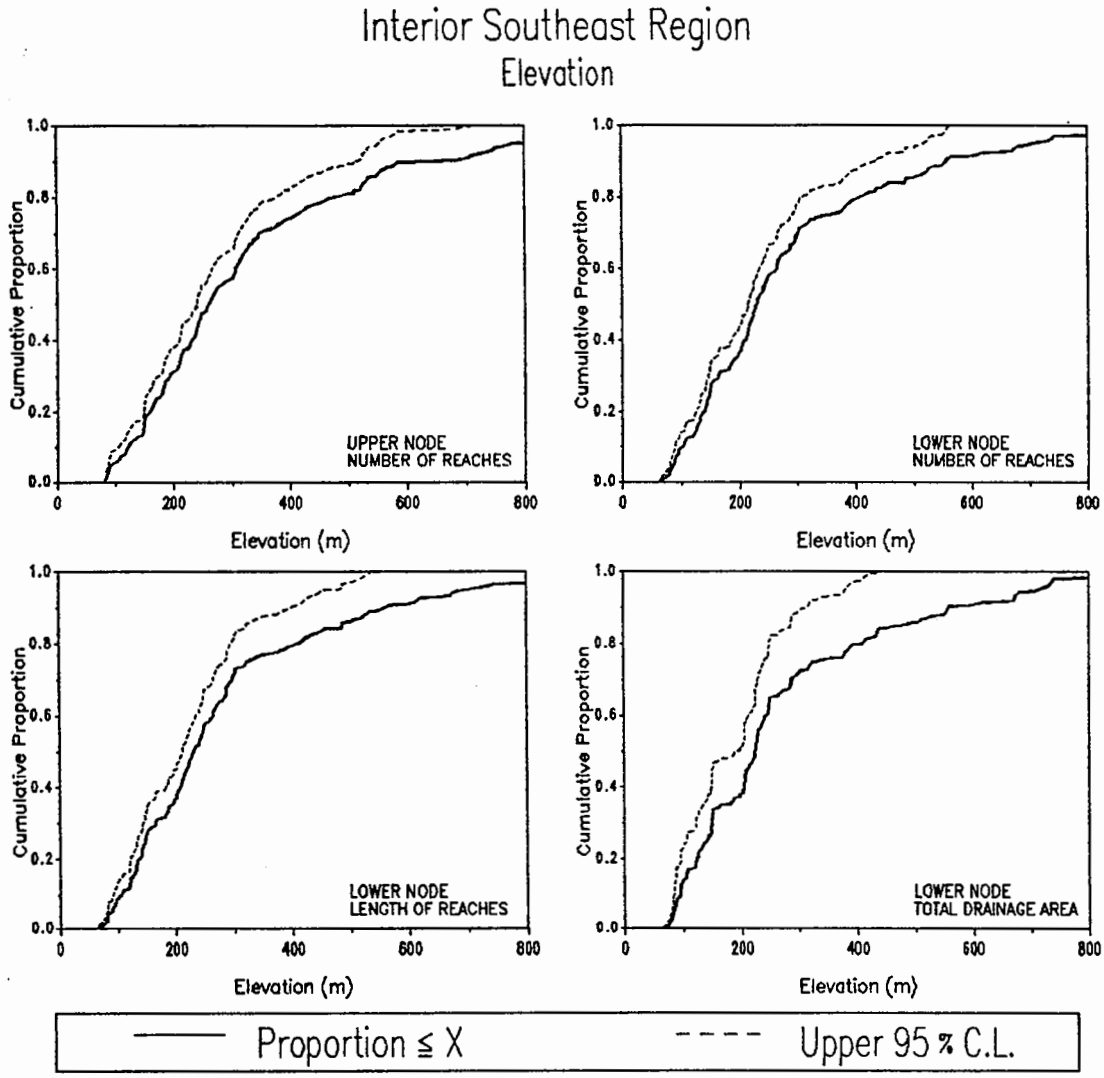


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (m)	191.26	159.15	167.52	134.22
40 % (m)	303.12	248.09	251.03	220.52
MEDIAN (m)	365.32	292.48	332.37	246.88
60 % (m)	405.77	362.92	388.04	345.63
80 % (m)	678.59	583.47	604.87	407.36

SUMMARY STATISTICS (m)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	66.75	1182.57	429.73	255.86
LOWER	164	57.91	937.21	367.38	229.22

Figure 5-132. Population estimates for site elevation (ELEV) for the Mid-Atlantic Region.

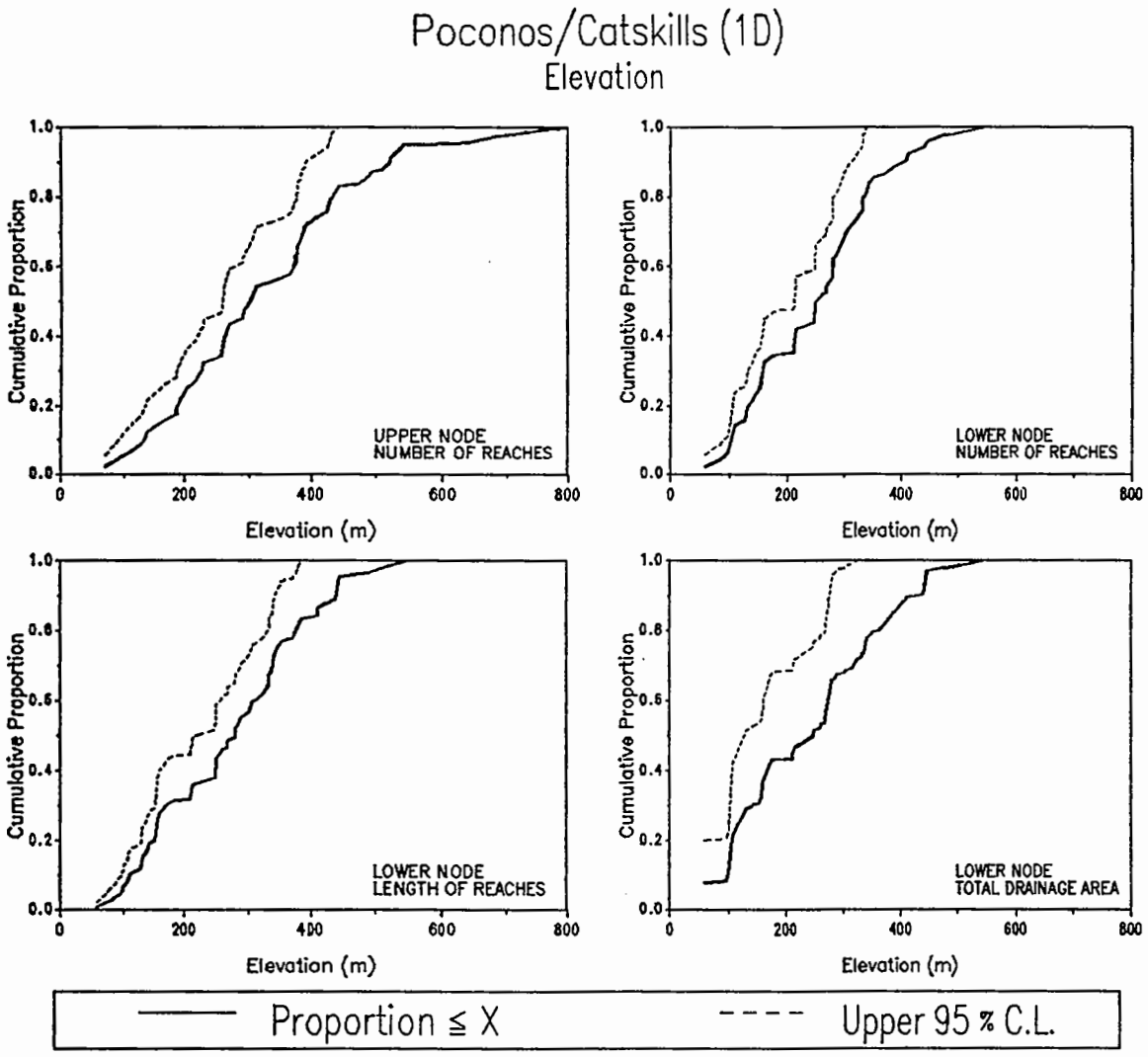


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (m)	158.09	139.56	135.12	121.80
40 % (m)	231.75	208.59	208.14	204.44
MEDIAN (m)	260.67	229.06	231.20	224.41
60 % (m)	306.57	263.32	264.59	243.83
80 % (m)	476.99	406.60	407.25	408.96

SUMMARY STATISTICS (m)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	81.99	1359.34	337.51	243.63
LOWER	189	65.22	1033.22	288.12	192.11

Figure 5-133. Population estimates for site elevation (ELEV) for the Southeastern Region.

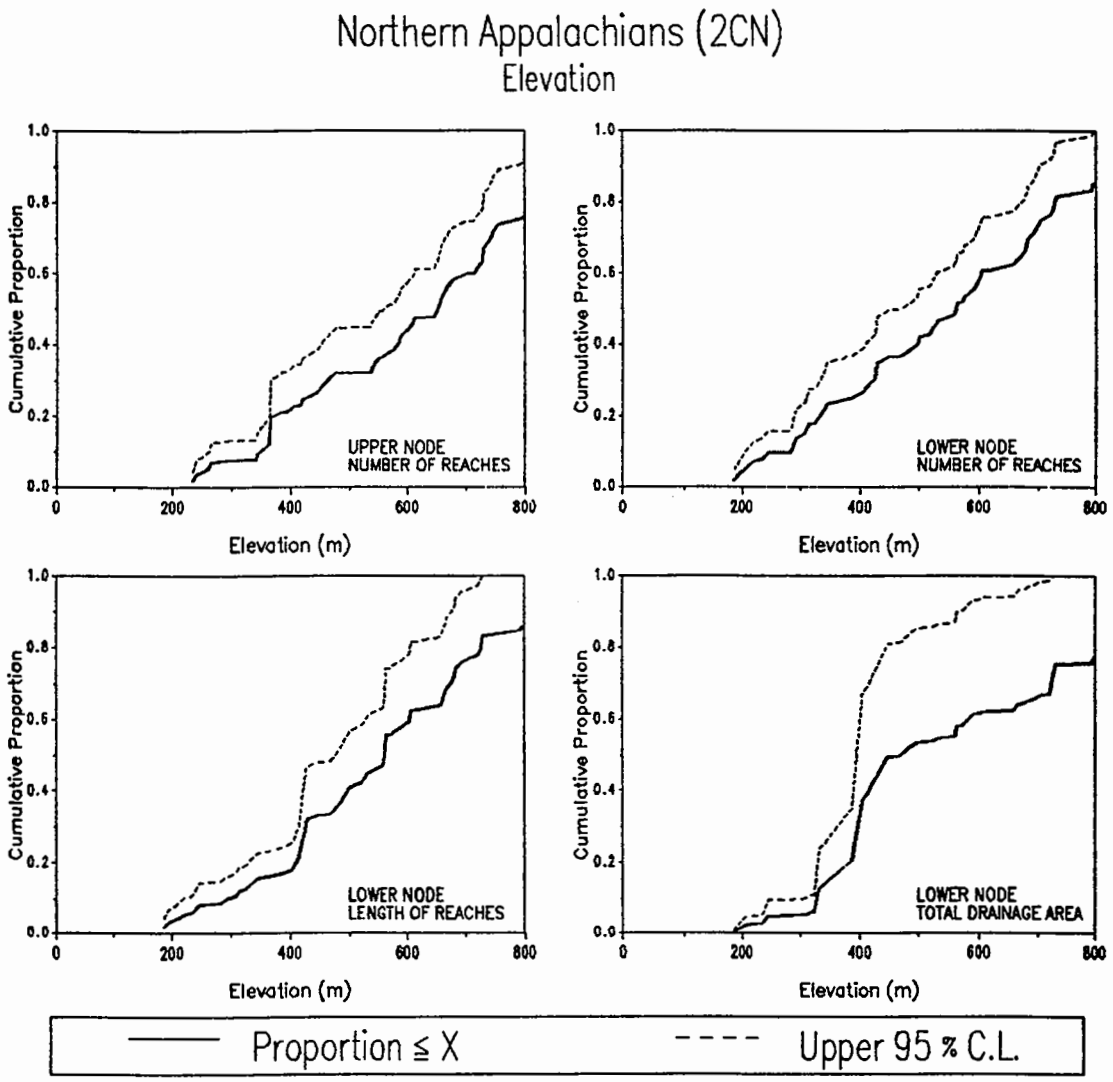


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (m)	187.74	133.18	151.27	106.29
40 % (m)	262.79	213.89	248.78	168.36
MEDIAN (m)	301.79	250.92	280.53	248.36
60 % (m)	372.68	280.75	310.81	274.41
80 % (m)	431.87	337.27	378.08	363.42

SUMMARY STATISTICS (m)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	71.62	816.82	327.71	152.10
LOWER	56	57.91	547.09	252.21	112.60

Figure 5-134. Population estimates for site elevation (ELEV) for the Poconos/Catskills subregion (1D).



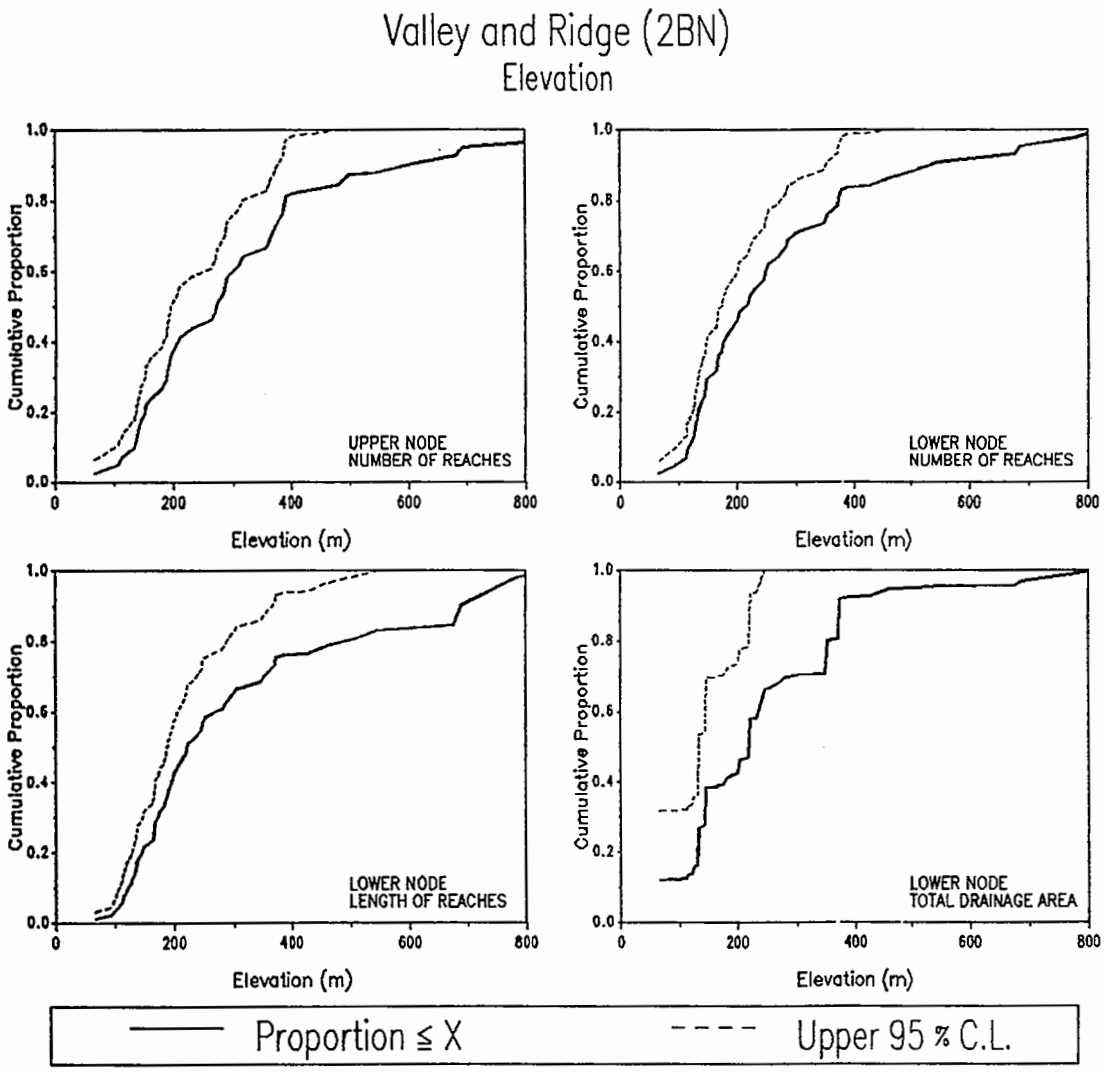
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (m)	373.00	333.70	410.16	382.75
40 % (m)	583.39	496.81	497.58	416.34
MEDIAN (m)	652.17	561.03	560.96	470.56
60 % (m)	713.34	605.20	603.99	582.65
80 % (m)	825.95	728.54	727.10	804.79

SUMMARY STATISTICS (m)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	234.07	1182.57	635.94	231.48
LOWER	61	185.92	937.21	557.76	210.36

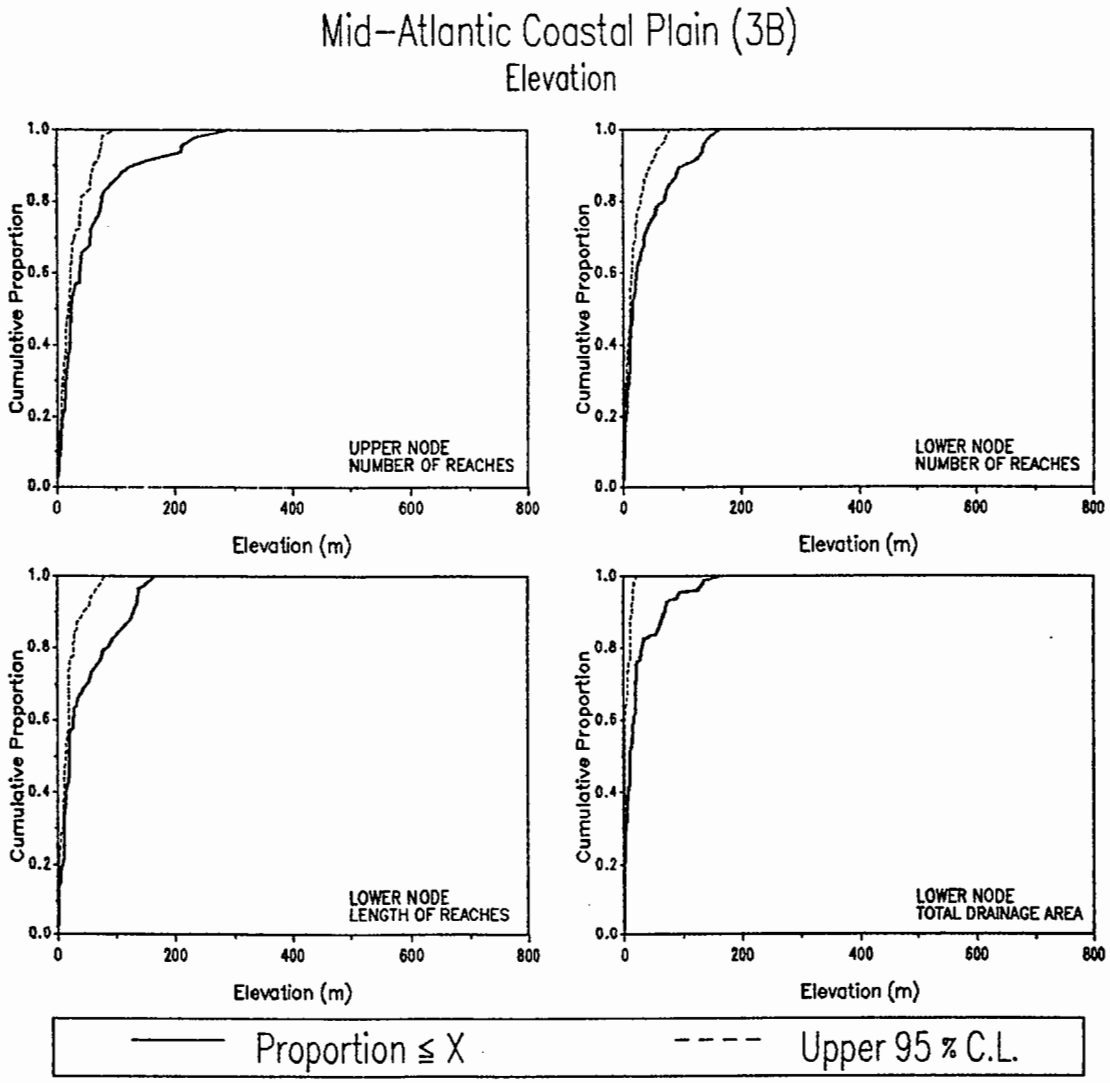
Figure 5-135. Population estimates for site elevation (ELEV) for the Northern Appalachians subregion (2Cn).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (m)	151.02	134.34	145.22	133.35
40 % (m)	206.79	177.63	195.39	178.41
MEDIAN (m)	272.86	213.84	221.46	220.30
60 % (m)	299.69	248.56	270.28	235.24
80 % (m)	390.58	372.89	490.91	352.01

	SUMMARY STATISTICS (m)				
	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	66.75	938.43	318.11	201.46
LOWER	47	66.14	822.92	278.52	183.95

Figure 5-136. Population estimates for site elevation (ELEV) for the Valley and Ridge subregion (2Bn).



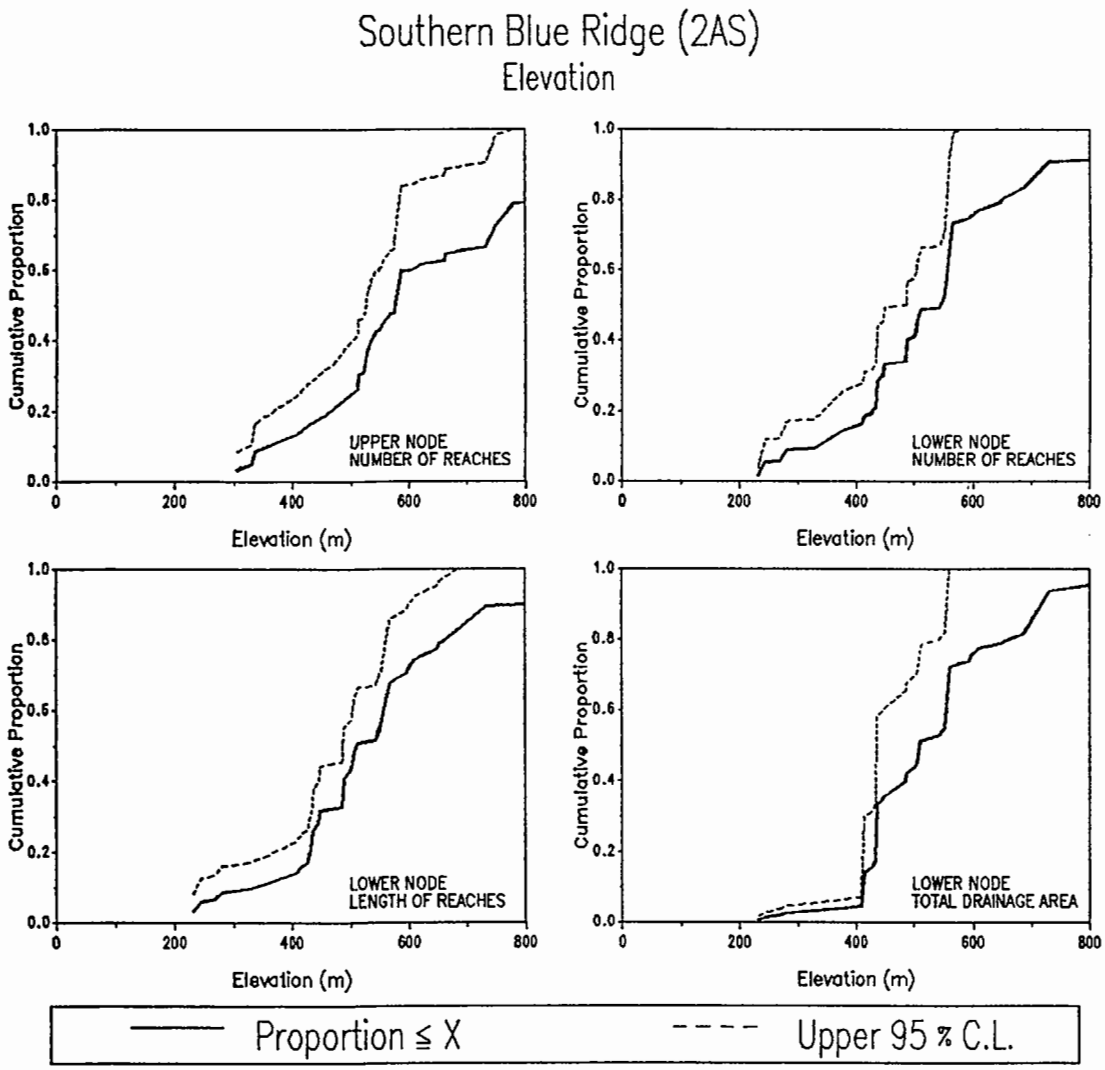
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (m)	8.79	3.76	7.45	0.91
40 % (m)	21.43	10.64	14.83	6.92
MEDIAN (m)	24.30	14.69	19.99	10.63
60 % (m)	39.00	21.68	28.03	16.42
80 % (m)	76.08	67.58	86.36	30.56

SUMMARY STATISTICS (m)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	1.22	290.16	54.25	65.86
LOWER	58	0.30	164.58	36.35	44.18

Figure 5-137. Population estimates for site elevation (ELEV) for the Mid-Atlantic Coastal Plain subregion (3B).



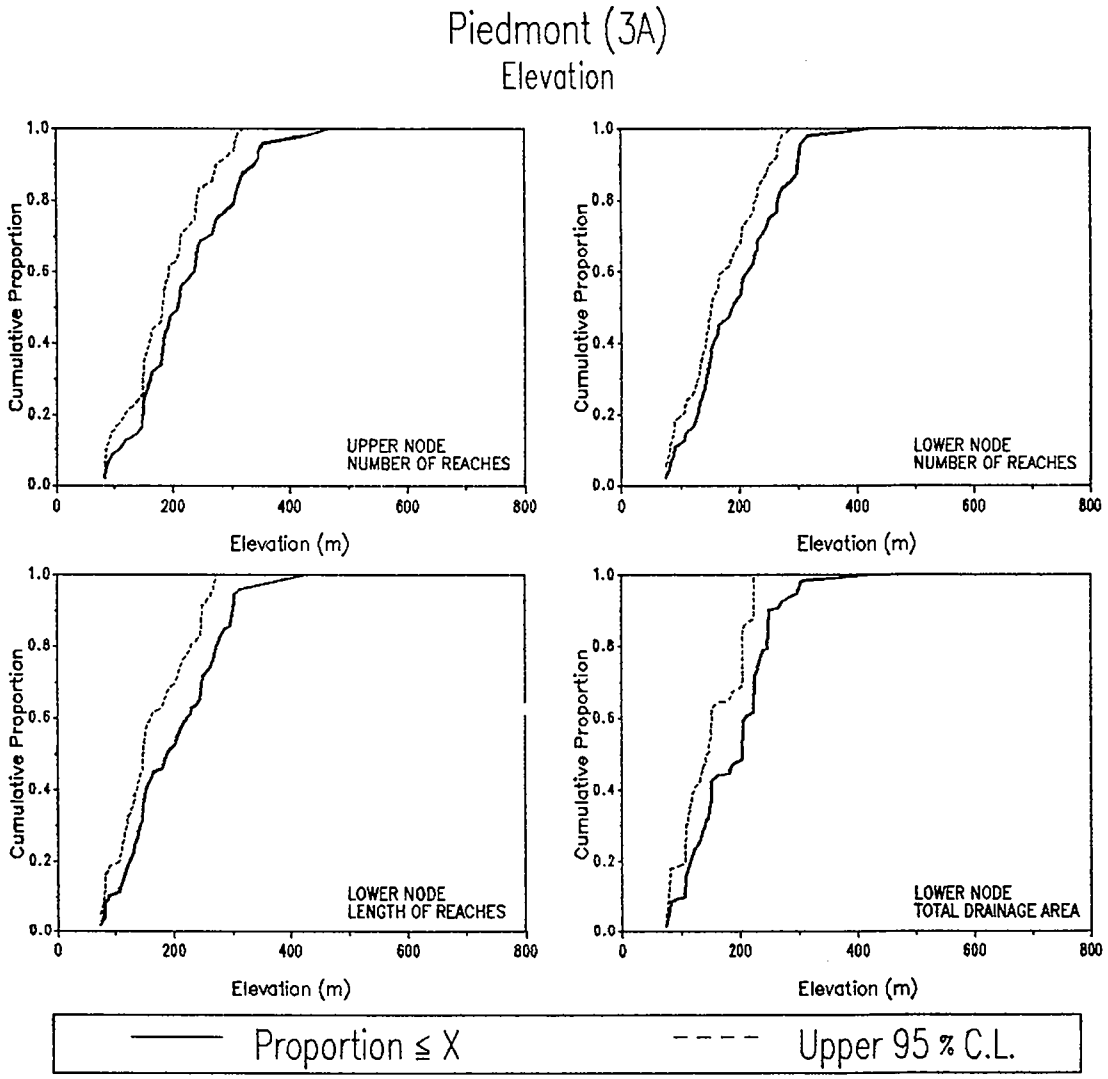
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (m)	465.40	428.43	430.40	433.27
40 % (m)	534.43	487.56	487.35	484.92
MEDIAN (m)	575.75	544.79	510.03	510.74
60 % (m)	601.97	555.91	557.18	554.42
80 % (m)	821.66	650.17	662.35	661.40

SUMMARY STATISTICS (m)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	304.79	1307.53	654.73	246.33
LOWER	54	231.64	960.07	540.95	165.12

Figure 5-138. Population estimates for site elevation (ELEV) for the Southern Blue Ridge subregion (2As).

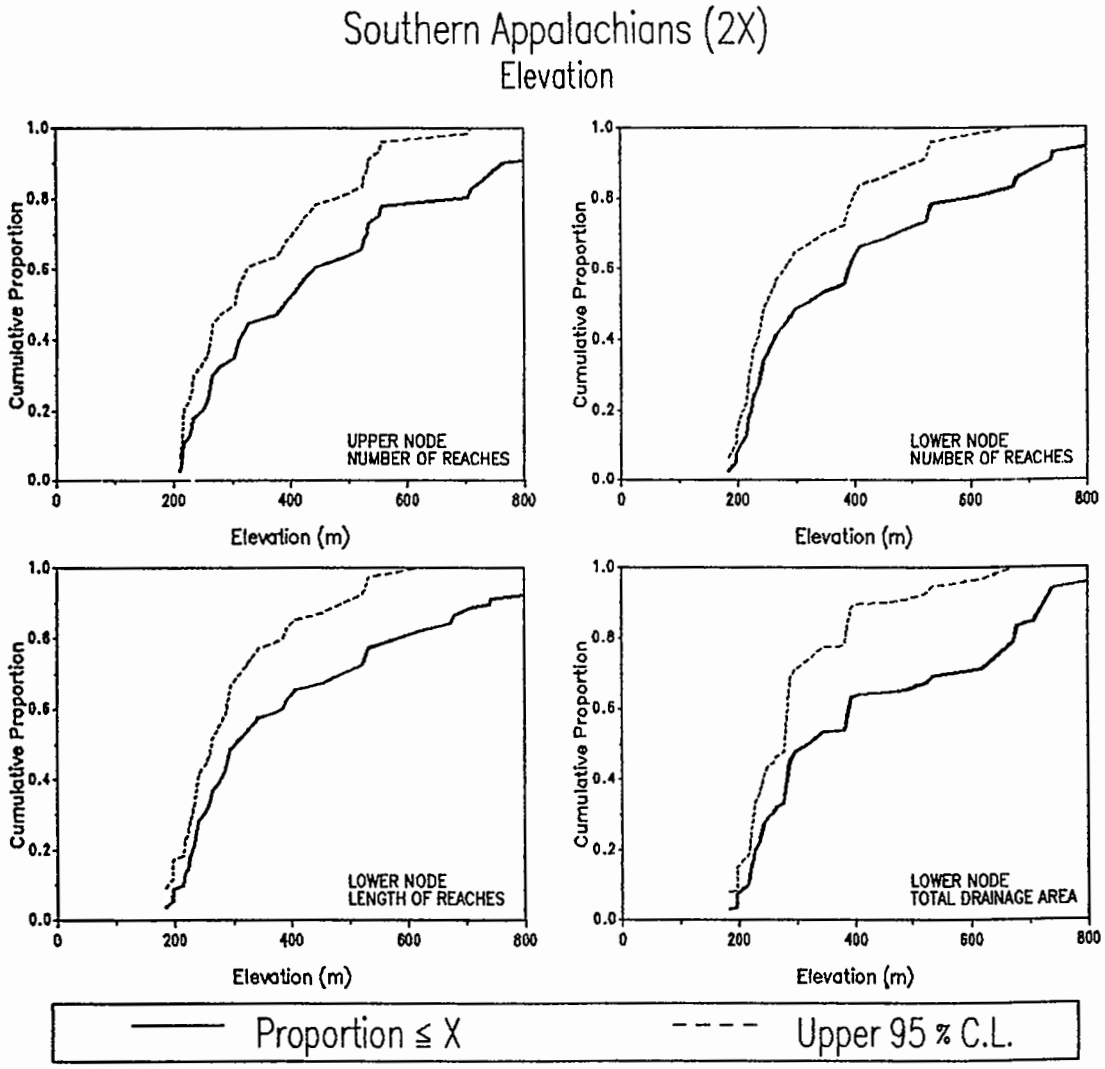


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (m)	148.56	128.84	124.53	116.01
40 % (m)	184.25	156.49	152.15	151.56
MEDIAN (m)	207.91	188.55	189.26	204.41
60 % (m)	237.39	214.61	223.83	210.19
80 % (m)	304.91	266.18	273.56	246.27

SUMMARY STATISTICS (m)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	83.82	467.85	222.27	87.89
LOWER	47	74.67	425.18	197.18	77.12

Figure 5-139. Population estimates for site elevation (ELEV) for the Piedmont subregion (3A).



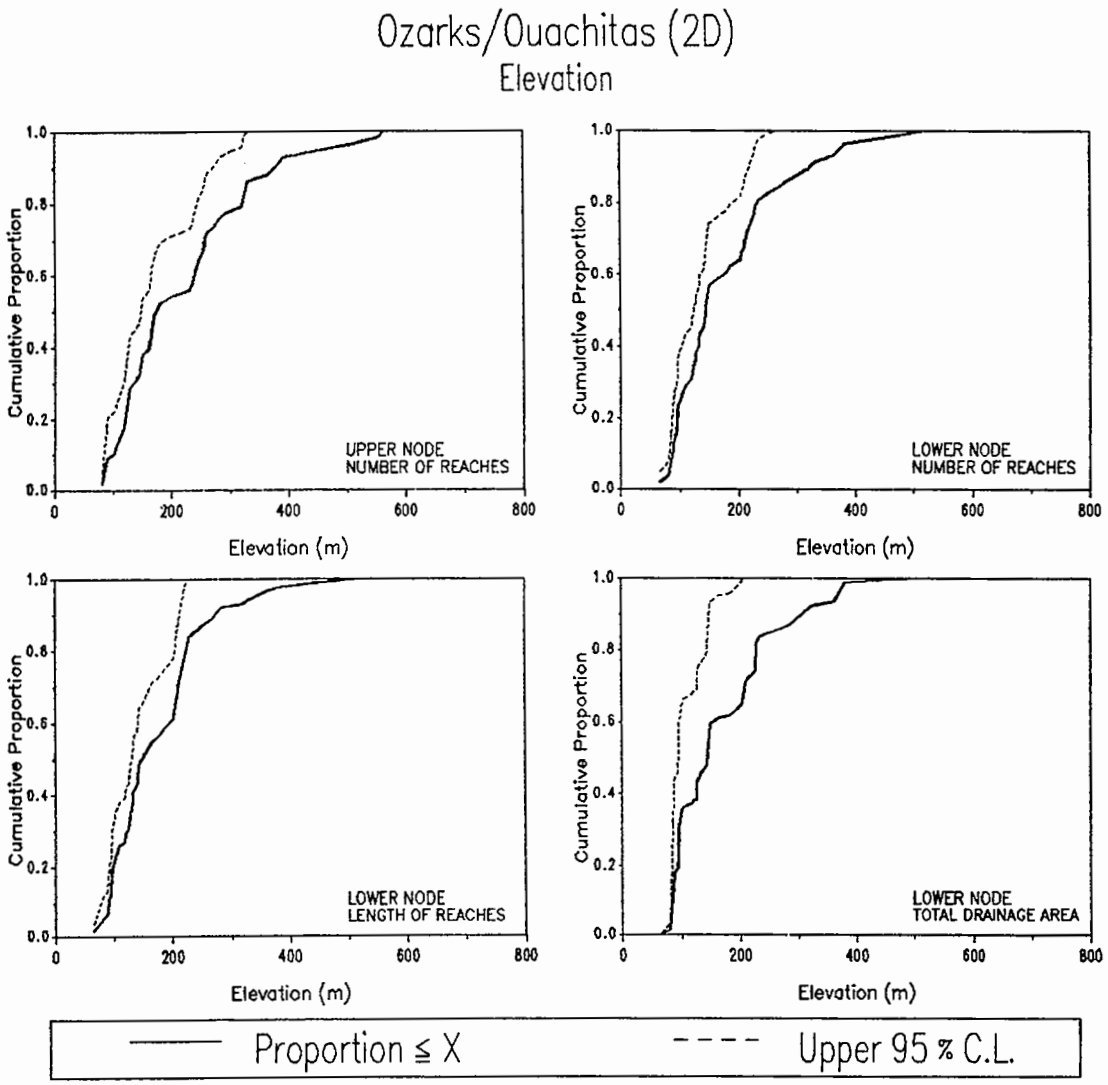
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (m)	247.40	222.70	231.47	227.20
40 % (m)	311.50	261.78	278.60	283.15
MEDIAN (m)	389.39	313.03	304.49	318.78
60 % (m)	440.95	389.12	385.94	388.00
80 % (m)	684.70	590.36	585.93	674.89

SUMMARY STATISTICS (m)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	210.30	1359.34	479.69	288.05
LOWER	40	184.39	1033.22	407.90	217.36

Figure 5-140. Population estimates for site elevation (ELEV) for the Southern Appalachians subregion (2X).

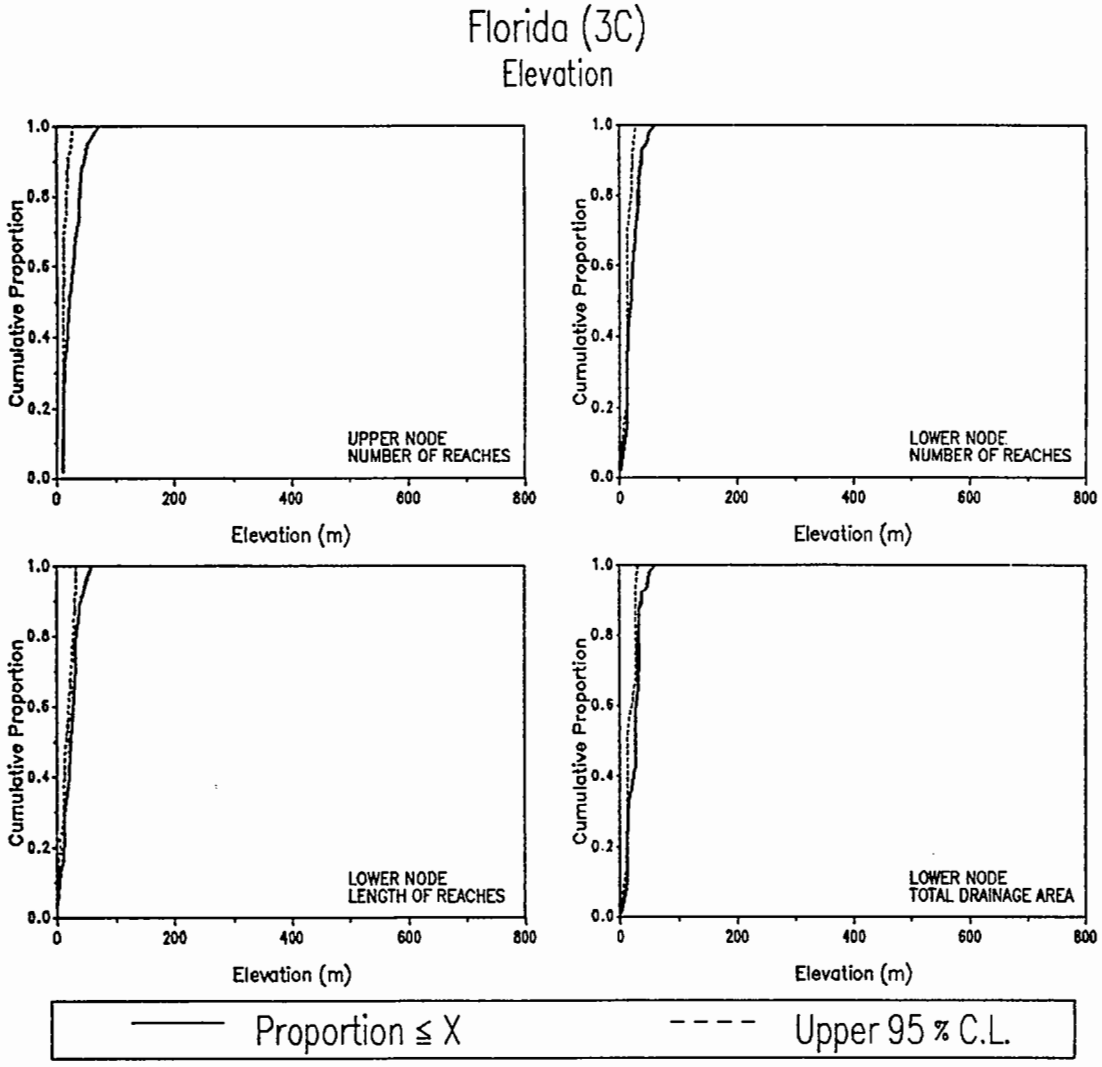


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (m)	120.63	95.59	97.69	94.63
40 % (m)	161.33	131.70	133.29	125.88
MEDIAN (m)	173.74	143.10	148.47	144.21
60 % (m)	238.43	175.63	194.84	154.81
80 % (m)	322.38	232.65	222.89	228.38

SUMMARY STATISTICS (m)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	81.99	563.85	223.34	119.05
LOWER	48	65.22	518.13	182.24	100.09

Figure 5-141. Population estimates for site elevation (ELEV) for the Ozarks/Ouachitas subregion (2D).

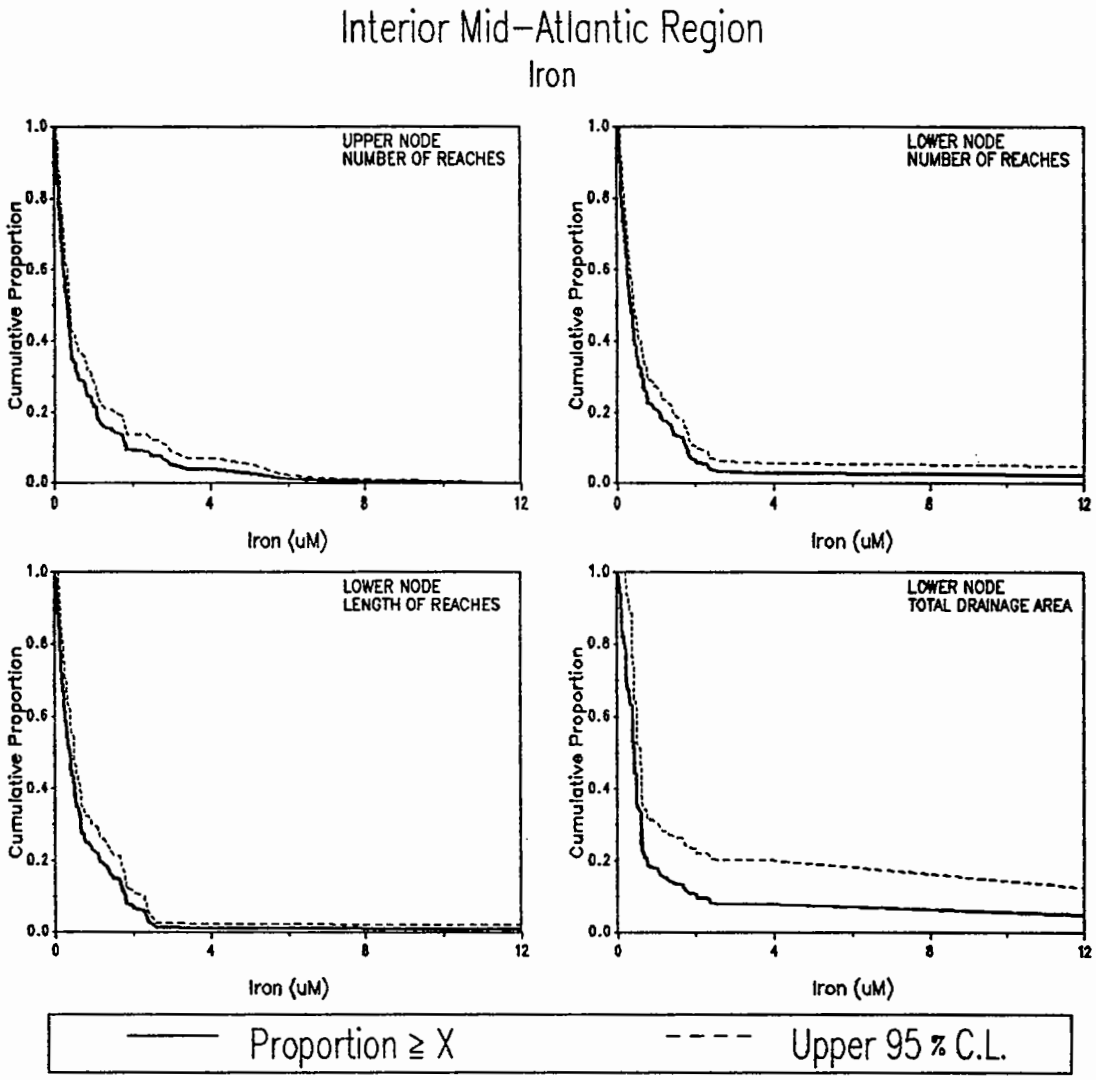


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (m)	10.35	11.71	11.73	12.27
40 % (m)	16.18	12.72	19.69	22.54
MEDIAN (m)	19.98	19.14	22.84	26.05
60 % (m)	28.15	22.00	27.84	27.11
80 % (m)	39.03	31.79	32.96	31.83

SUMMARY STATISTICS (m)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	10.06	71.62	26.48	16.23
LOWER	34	1.52	59.43	21.68	12.61

Figure 5-142. Population estimates for site elevation (ELEV) for Florida subregion (3C).



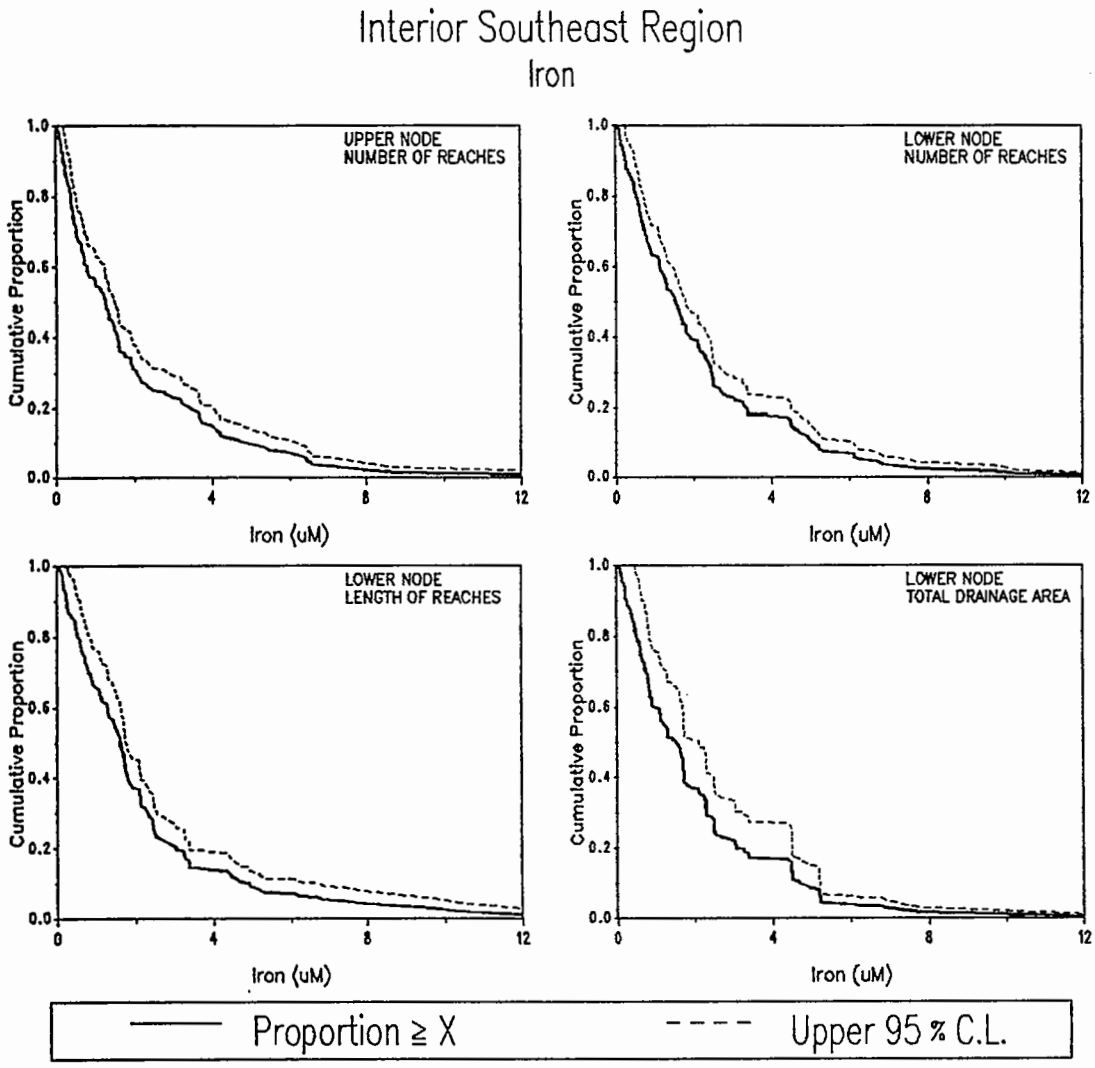
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (uM)	1.04	1.00	1.11	0.73
40 % (uM)	0.38	0.41	0.47	0.48
MEDIAN (uM)	0.30	0.31	0.35	0.41
60 % (uM)	0.21	0.23	0.24	0.36
80 % (uM)	0.10	0.12	0.13	0.17

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	0.00	10.99	0.73	1.16
LOWER	164	0.00	26.65	0.92	3.04

Figure 5-143. Population estimates for iron (FE16) for the Mid-Atlantic Region.



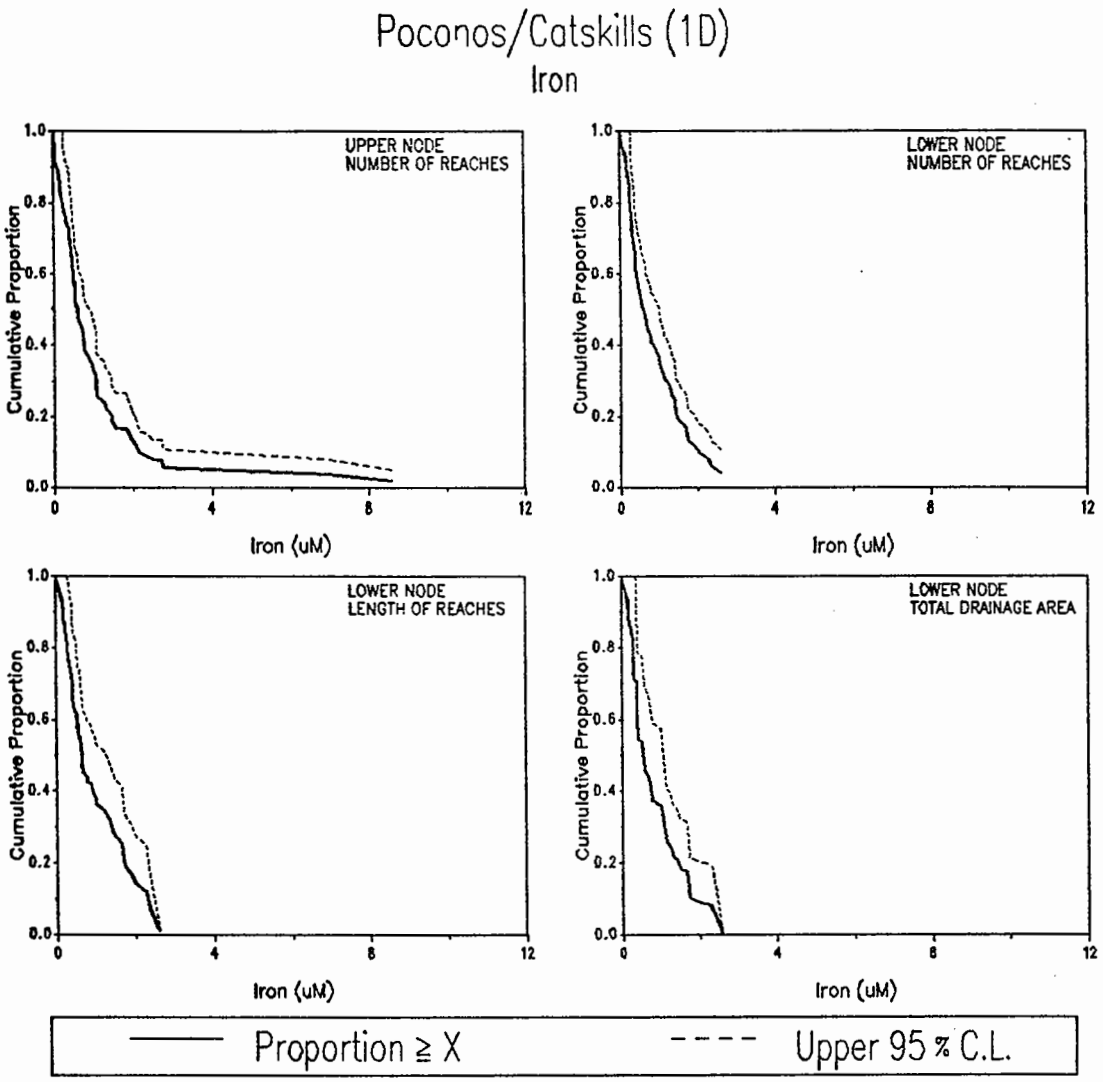
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (uM)	3.34	3.25	2.91	2.99
40 % (uM)	1.54	1.84	1.76	1.67
MEDIAN (uM)	1.22	1.52	1.58	1.51
60 % (uM)	0.78	1.10	1.27	0.92
80 % (uM)	0.35	0.51	0.52	0.49

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	0.00	15.06	1.88	2.09
LOWER	189	0.01	12.27	2.10	2.06

Figure 5-144. Population estimates for iron (FE16) for the Southeastern Region.



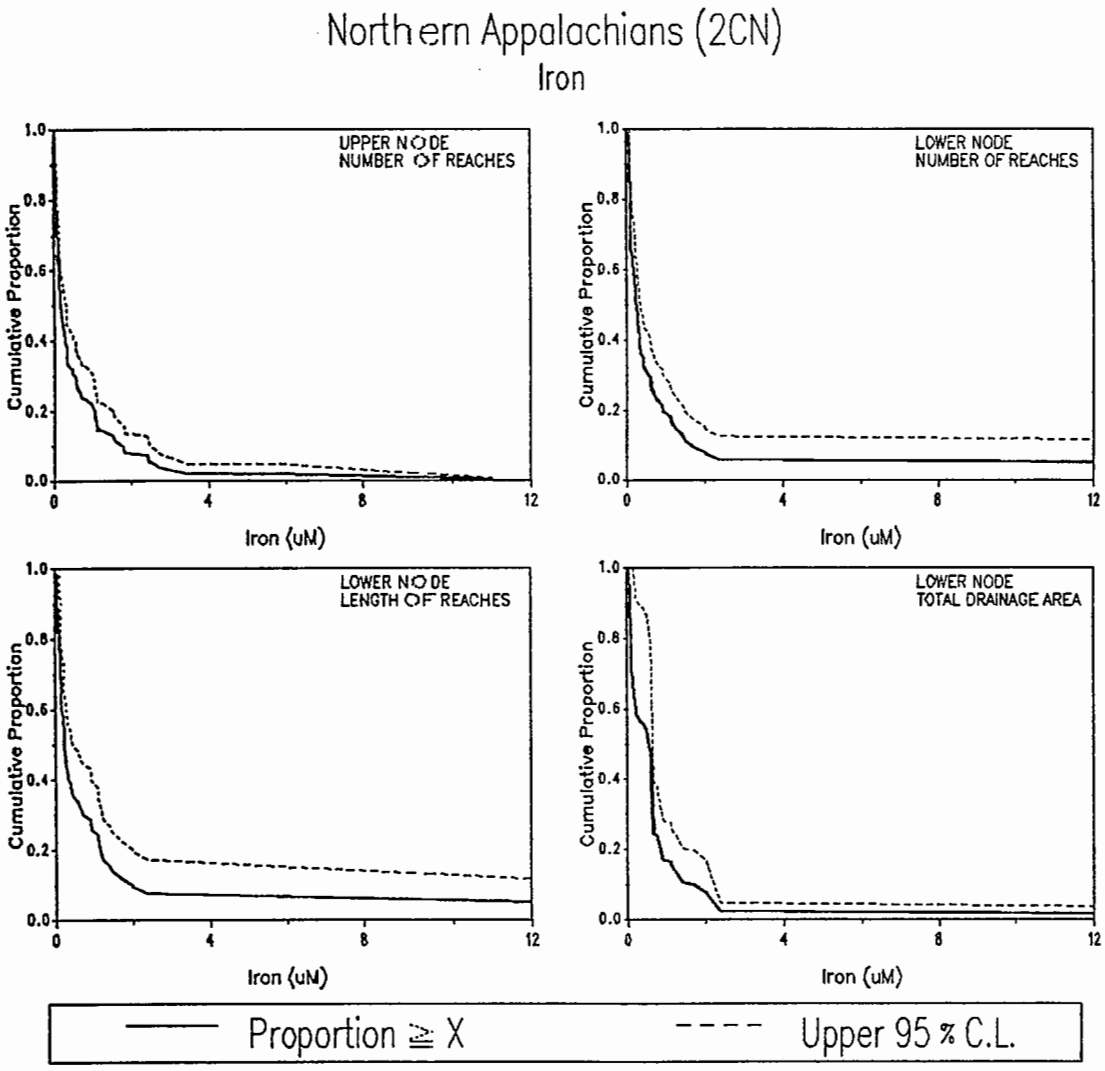
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (uM)	1.33	1.40	1.68	1.39
40 % (uM)	0.73	0.79	0.83	0.66
MEDIAN (uM)	0.53	0.56	0.58	0.51
60 % (uM)	0.41	0.39	0.44	0.39
80 % (uM)	0.15	0.24	0.27	0.27

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	0.02	8.57	1.02	1.49
LOWER	56	0.00	2.58	0.83	0.71

Figure 5-145. Population estimates for iron (FE16) for the Poconos/Catskills subregion (1D).



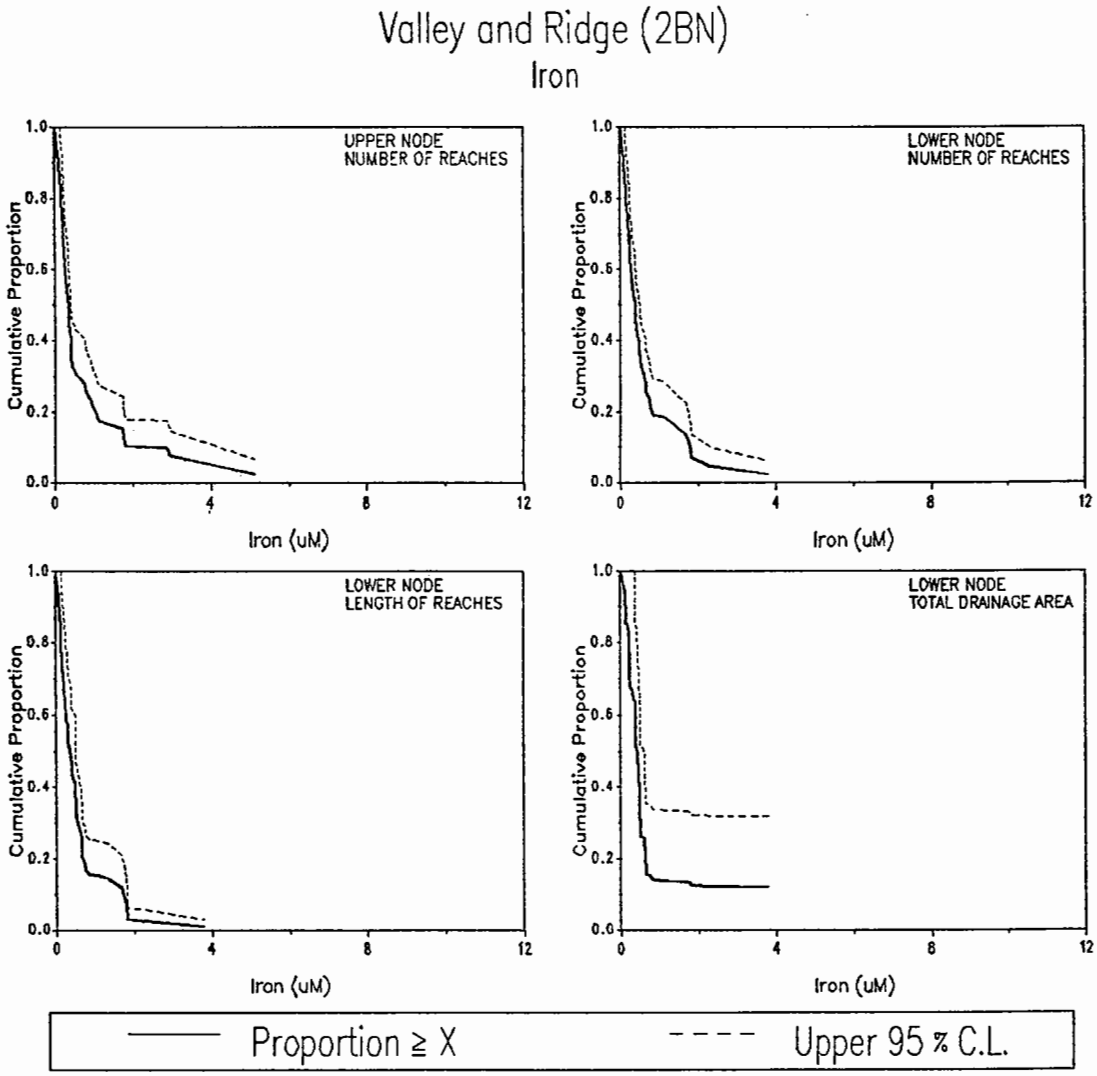
POPULATION ESTIMATES

	UPPER NODE		LOWER NODE	
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (uM)	0.96	0.88	1.10	0.72
40 % (uM)	0.24	0.29	0.32	0.59
MEDIAN (uM)	0.15	0.21	0.21	0.48
60 % (uM)	0.12	0.15	0.14	0.17
80 % (uM)	0.04	0.08	0.09	0.08

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	0.00	10.99	0.59	1.07
LOWER	61	0.00	26.65	1.48	5.14

Figure 5-146. Population estimates for iron (FE16) for the Northern Appalachians subregion (2Cn).



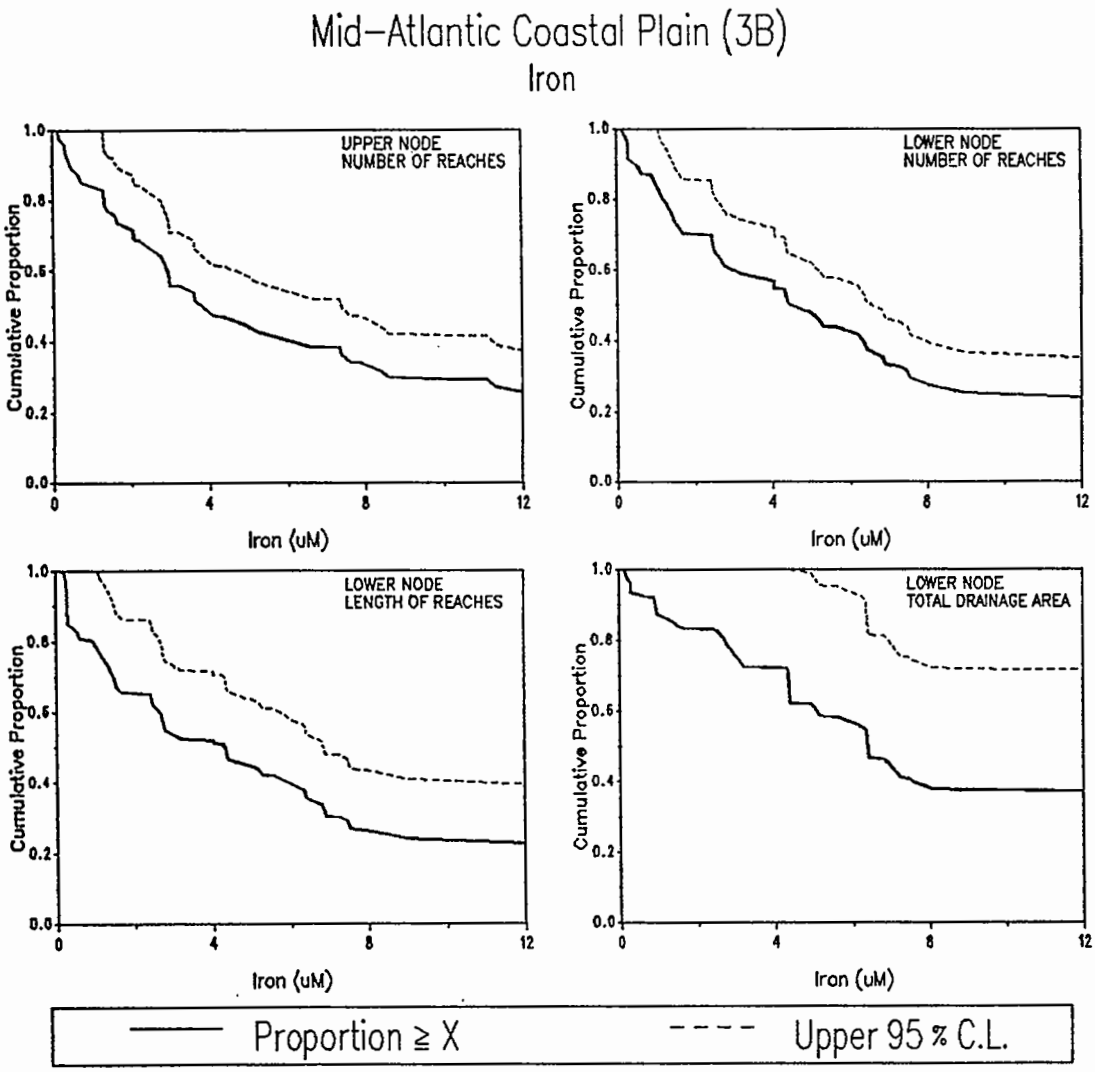
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (uM)	0.92	0.75	0.64	0.57
40 % (uM)	0.36	0.41	0.43	0.42
MEDIAN (uM)	0.32	0.34	0.32	0.39
60 % (uM)	0.24	0.24	0.23	0.34
80 % (uM)	0.15	0.13	0.12	0.20

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	0.01	5.10	0.75	1.10
LOWER	47	0.00	3.78	0.61	0.73

Figure 5-147. Population estimates for iron (FE16) for the Valley and Ridge subregion (2Bn).



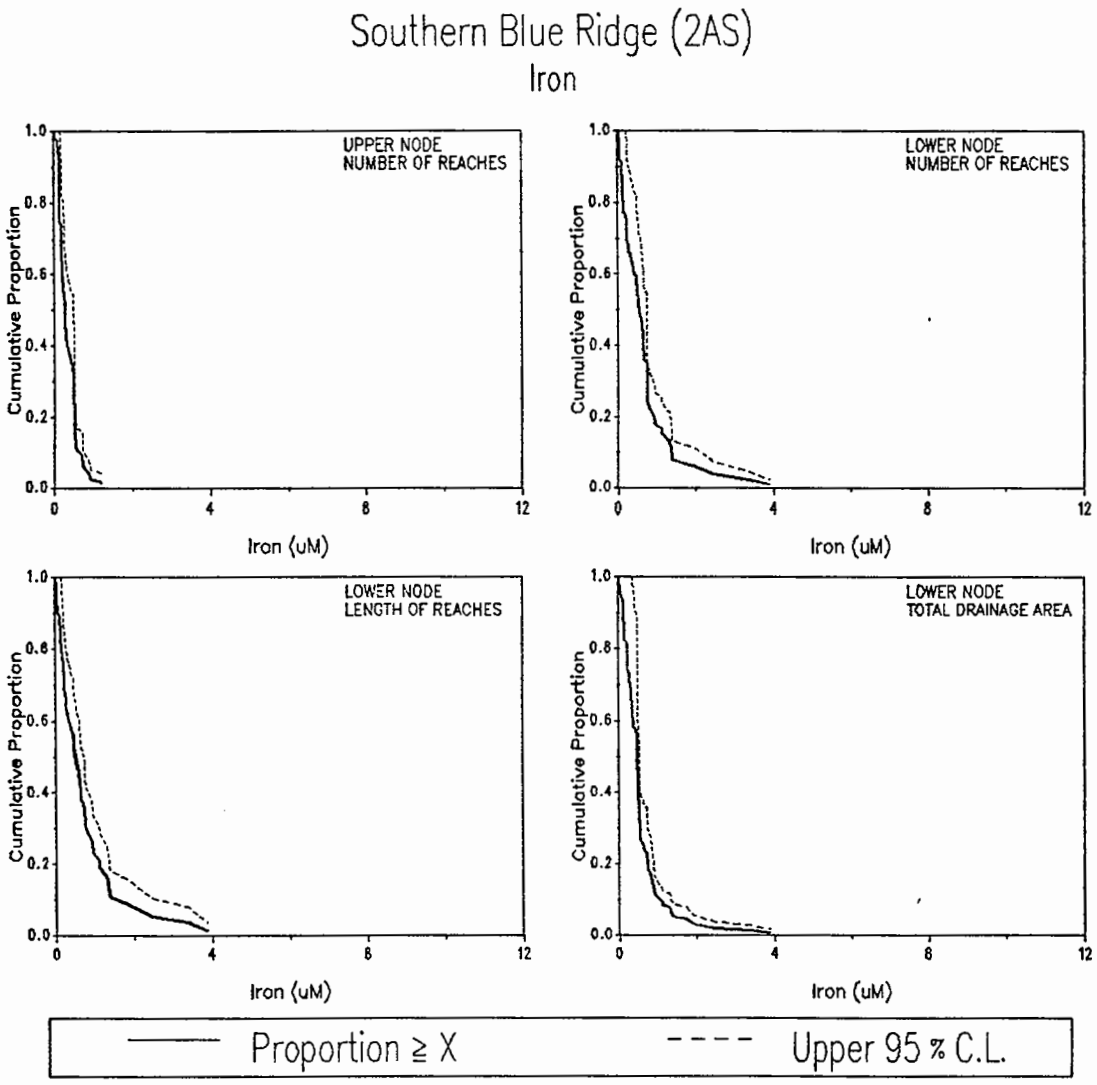
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (uM)	14.42	13.92	14.08	14.12
40 % (uM)	5.46	6.07	5.46	7.45
MEDIAN (uM)	3.62	4.33	4.21	6.27
60 % (uM)	2.85	2.71	2.50	4.90
80 % (uM)	1.18	1.09	0.87	2.56

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	0.13	42.73	8.59	10.25
LOWER	58	0.11	58.35	7.24	9.45

Figure 5-148. Population estimates for iron (FE16) for the Mid-Atlantic Coastal Plain subregion (3B).

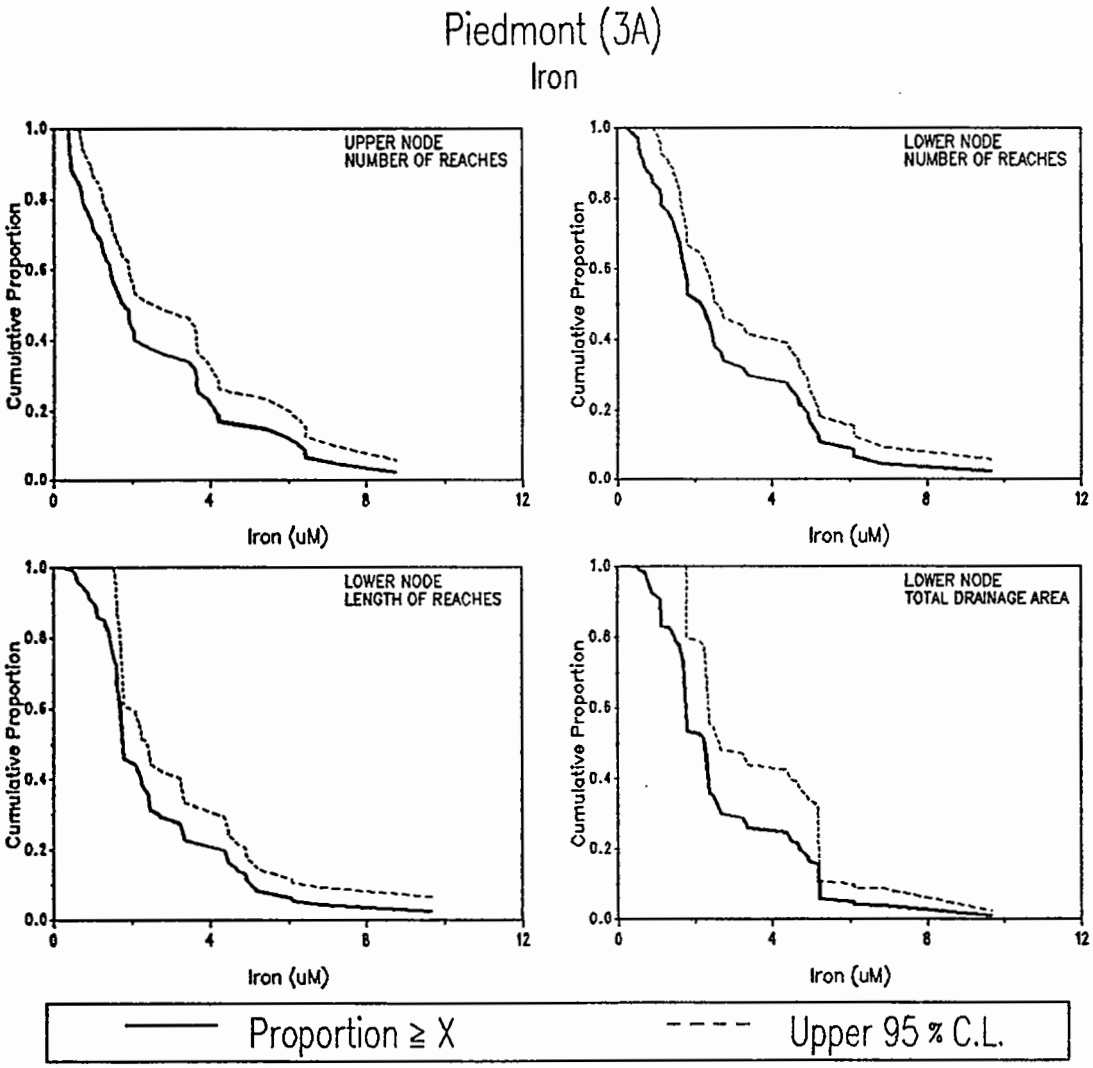


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (uM)	0.49	0.78	1.03	0.69
40 % (uM)	0.30	0.62	0.62	0.46
MEDIAN (uM)	0.26	0.49	0.48	0.46
60 % (uM)	0.18	0.34	0.31	0.31
80 % (uM)	0.13	0.12	0.13	0.21

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	0.00	1.18	0.33	0.23
LOWER	54	0.01	3.87	0.63	0.65

Figure 5-149. Population estimates for iron (FE16) for the Southern Blue Ridge subregion (2As).



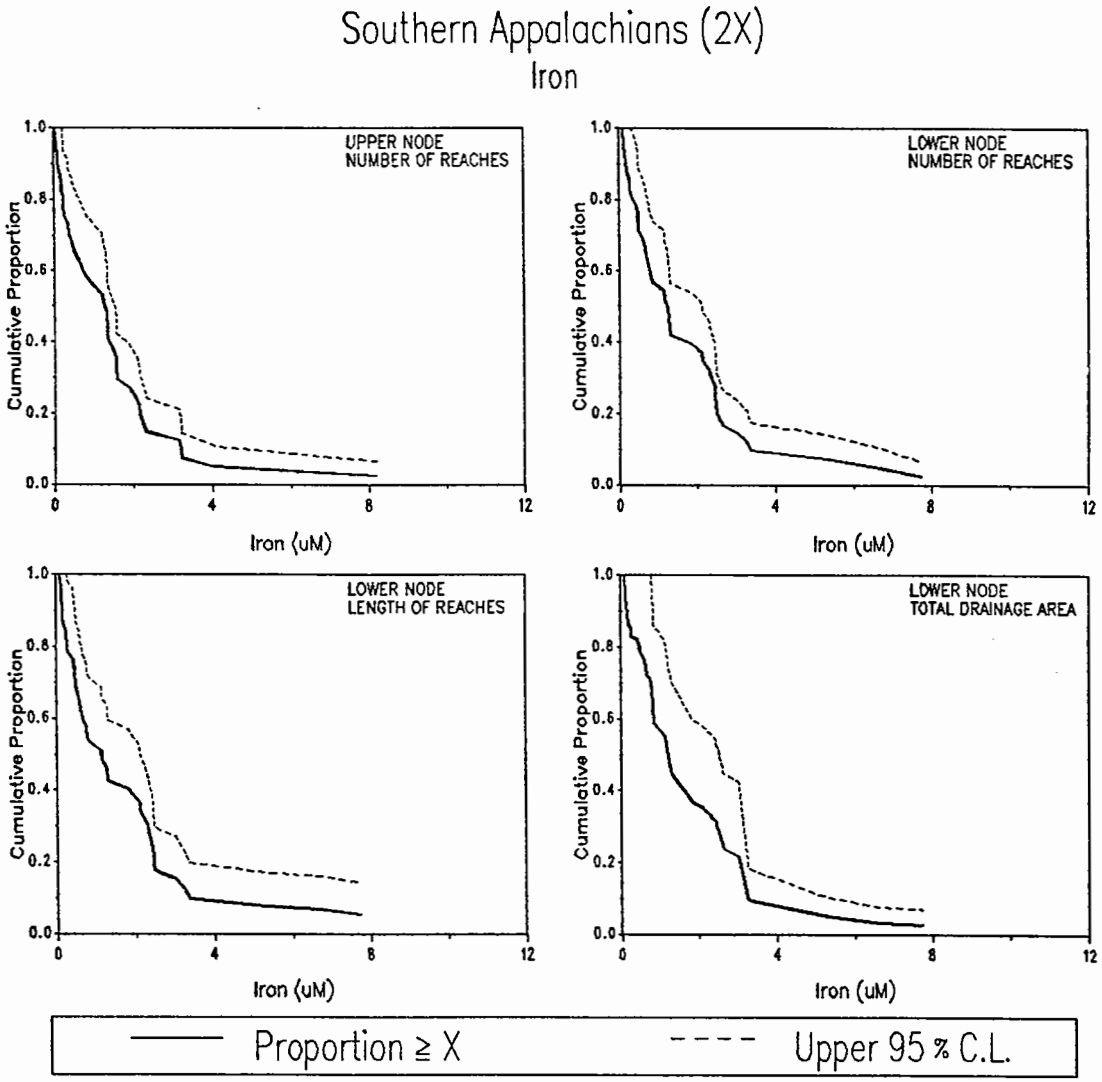
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (uM)	3.99	4.69	3.34	4.61
40 % (uM)	2.03	2.42	2.10	2.25
MEDIAN (uM)	1.62	1.88	1.68	2.11
60 % (uM)	1.33	1.65	1.64	1.67
80 % (uM)	0.68	1.08	1.31	1.33

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	0.36	8.75	2.50	2.10
LOWER	47	0.23	9.67	2.70	2.01

Figure 5-150. Population estimates for iron (FE16) for the Piedmont subregion (3A).



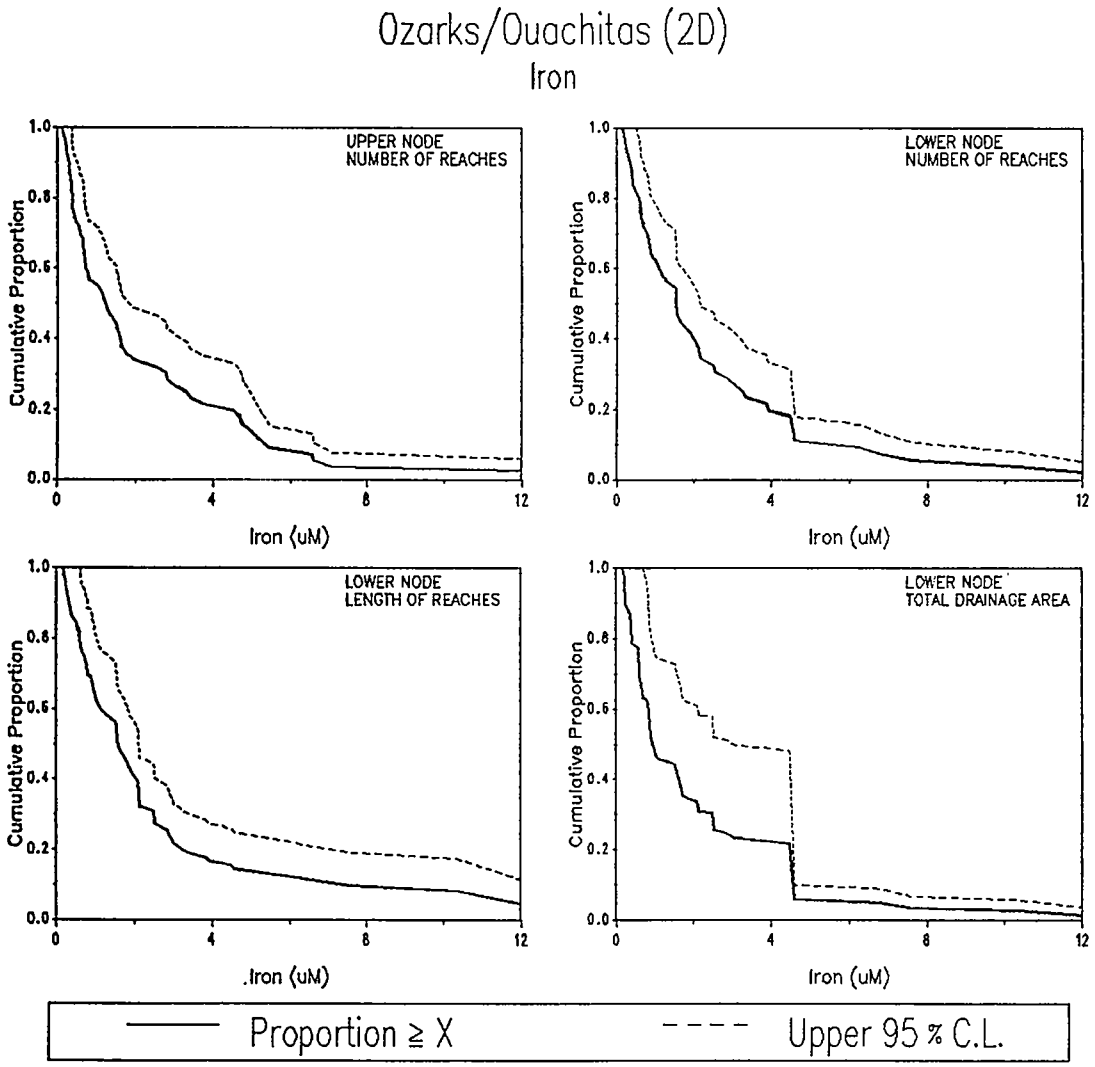
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (uM)	2.12	2.46	2.43	2.67
40 % (uM)	1.33	1.29	1.32	1.28
MEDIAN (uM)	1.21	1.14	0.93	1.14
60 % (uM)	0.63	0.73	0.62	0.78
80 % (uM)	0.19	0.28	0.25	0.43

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	0.02	8.17	1.36	1.48
LOWER	40	0.09	7.74	1.65	1.69

Figure 5-151. Population estimates for iron (FE16) for the Southern Appalachians subregion (2X).



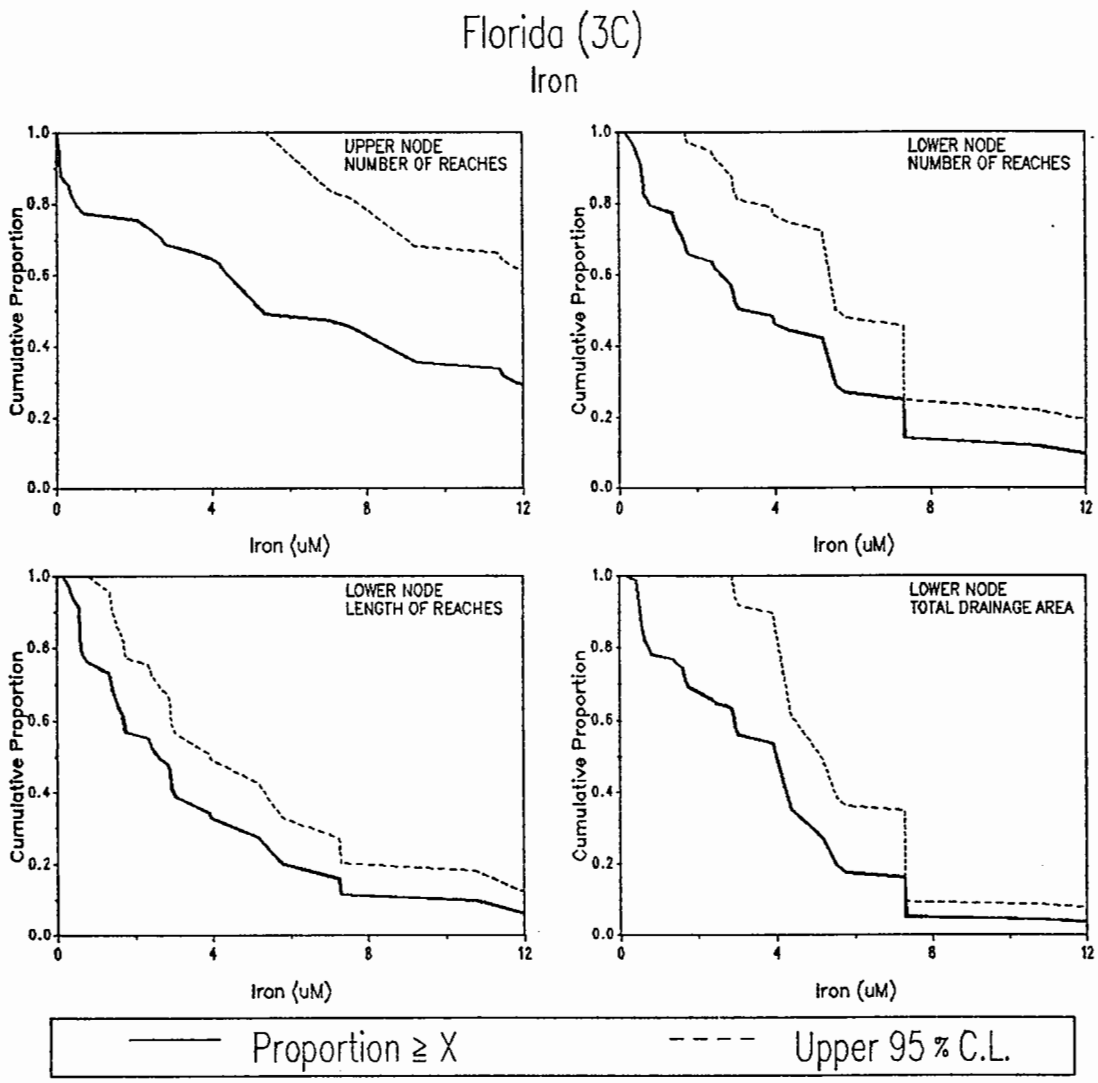
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (uM)	3.69	3.80	3.04	3.96
40 % (uM)	1.53	1.80	1.85	1.54
MEDIAN (uM)	1.12	1.51	1.53	0.84
60 % (uM)	0.66	1.00	1.06	0.79
80 % (uM)	0.34	0.49	0.55	0.37

SUMMARY STATISTICS (uM)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	0.11	15.06	2.14	2.57
LOWER	48	0.14	12.27	2.30	2.48

Figure 5-152. Population estimates for iron (FE16) for the Ozarks/Ouachitas subregion (2D).

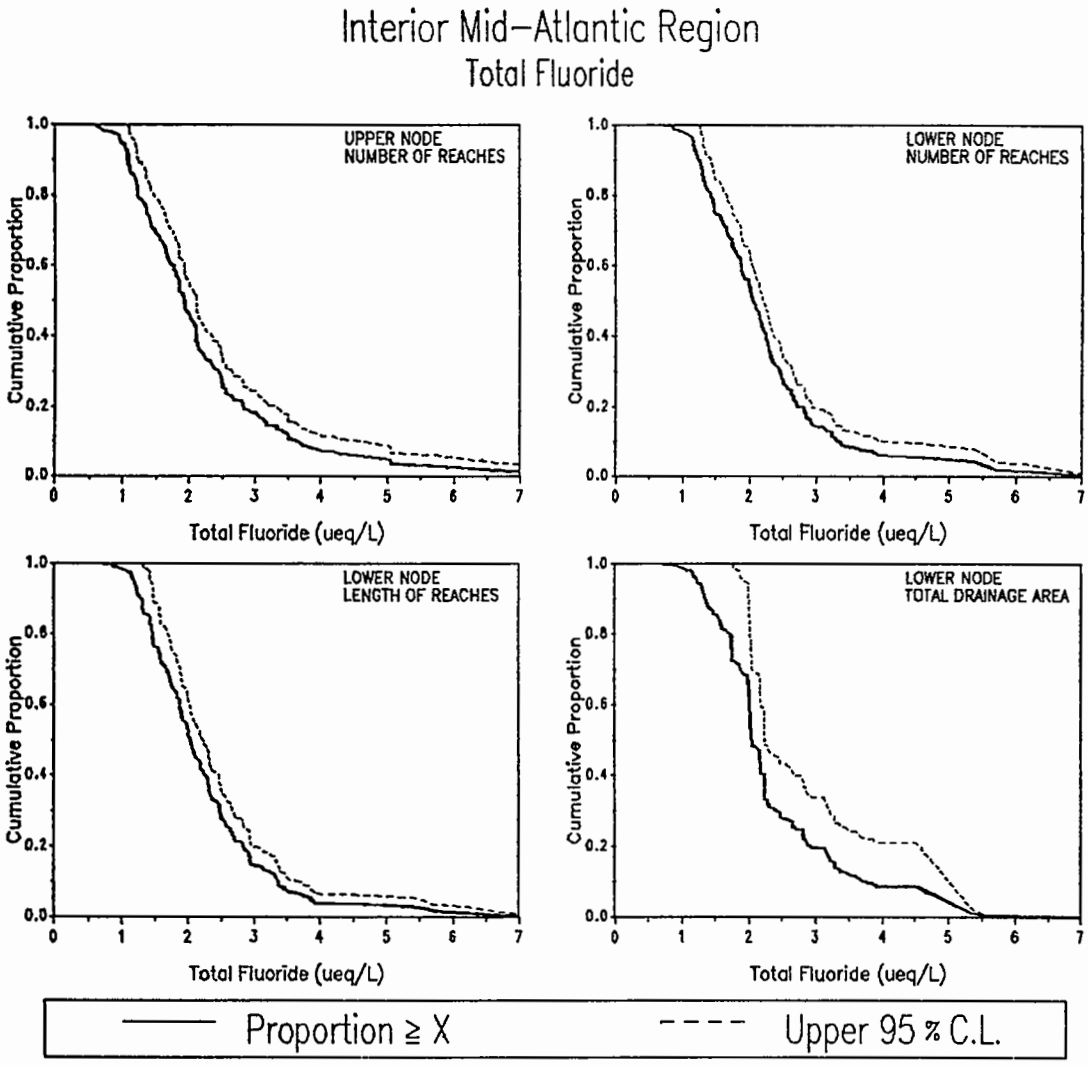


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (uM)	12.46	6.42	5.53	5.12
40 % (uM)	7.35	4.51	2.92	3.93
MEDIAN (uM)	4.29	2.96	2.42	3.91
60 % (uM)	4.18	2.41	1.61	2.86
80 % (uM)	0.34	0.63	0.59	0.62

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	0.00	19.16	6.80	5.59
LOWER	34	0.14	17.30	4.59	4.44

Figure 5-153. Population estimates for iron (FE16) for Florida subregion (3C).



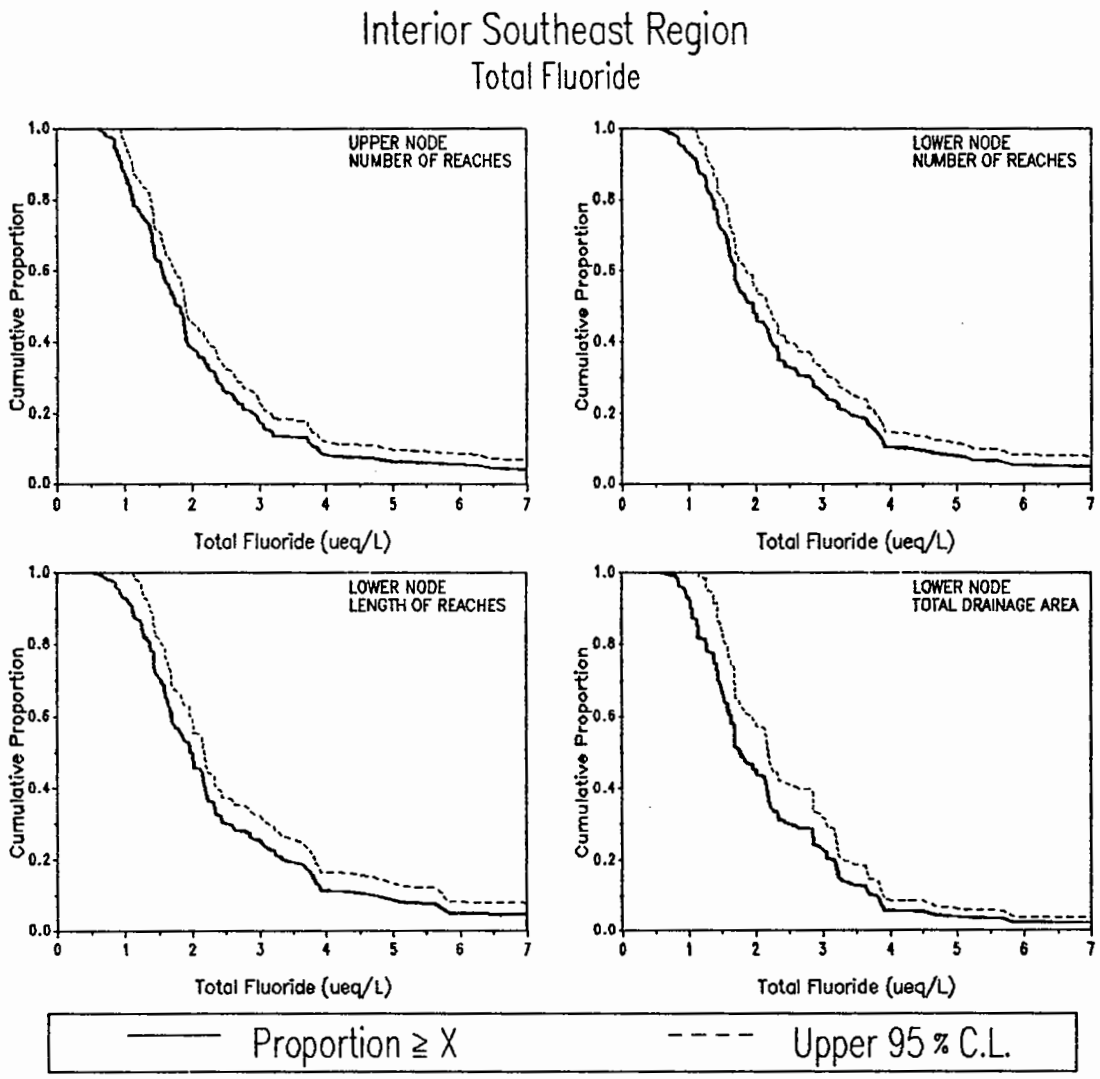
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (ueq/L)	2.80	2.69	2.81	2.90
40 % (ueq/L)	2.10	2.20	2.23	2.19
MEDIAN (ueq/L)	1.91	2.03	2.00	2.02
60 % (ueq/L)	1.74	1.86	1.86	2.00
80 % (ueq/L)	1.21	1.41	1.46	1.68

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	0.55	8.71	2.19	1.27
LOWER	164	0.59	7.05	2.23	1.03

Figure 5-154. Population estimates for fluoride (FTL16) for the Mid-Atlantic Region.

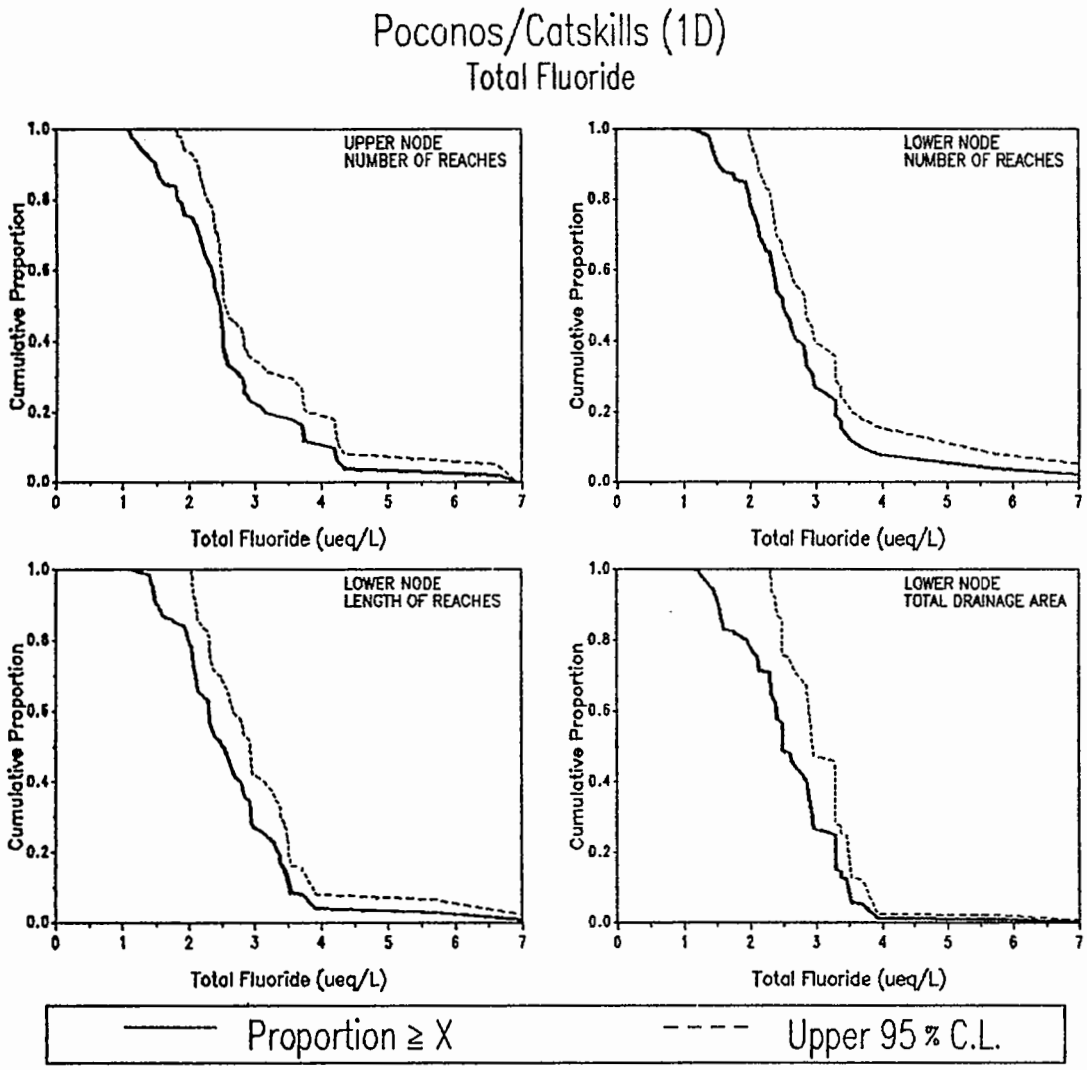


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (ueq/L)	2.81	3.33	3.31	3.06
40 % (ueq/L)	1.89	2.20	2.15	2.14
MEDIAN(ueq/L)	1.78	1.95	1.95	1.74
60 % (ueq/L)	1.52	1.67	1.68	1.61
80 % (ueq/L)	1.12	1.35	1.36	1.24

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	0.59	13.27	2.25	1.83
LOWER	189	0.52	14.00	2.52	1.94

Figure 5-155. Population estimates for fluoride (FTL16) for the Southeastern Region.



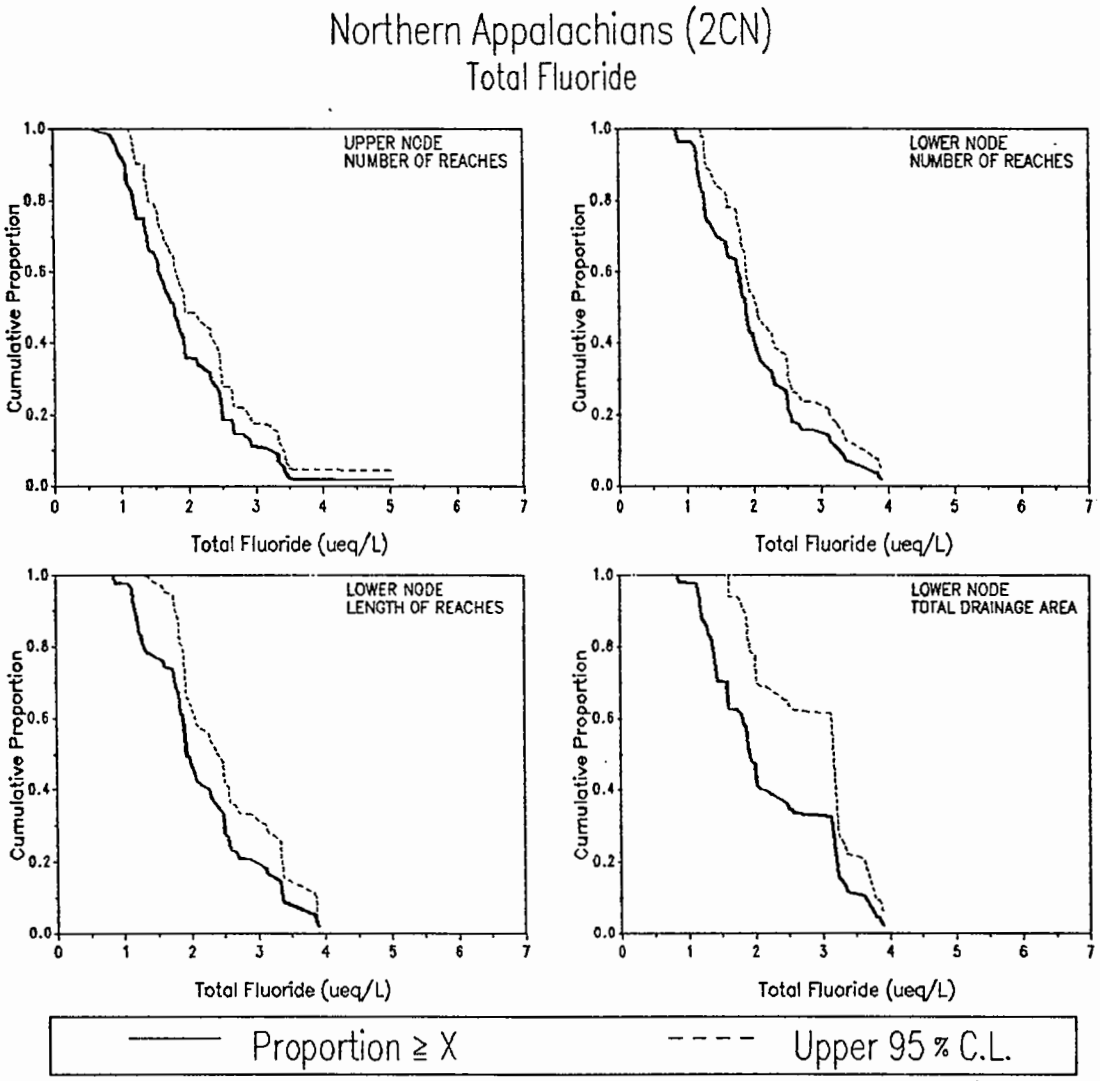
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (ueq/L)	3.03	3.24	3.29	3.21
40 % (ueq/L)	2.49	2.65	2.67	2.82
MEDIAN(ueq/L)	2.43	2.47	2.47	2.46
60 % (ueq/L)	2.30	2.30	2.29	2.34
80 % (ueq/L)	1.80	1.96	1.96	1.88

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	1.08	6.90	2.55	0.99
LOWER	56	1.11	7.05	2.64	1.00

Figure 5-156.Population estimates for fluoride (FTL16) for the Poconos/Catskills subregion (1D).

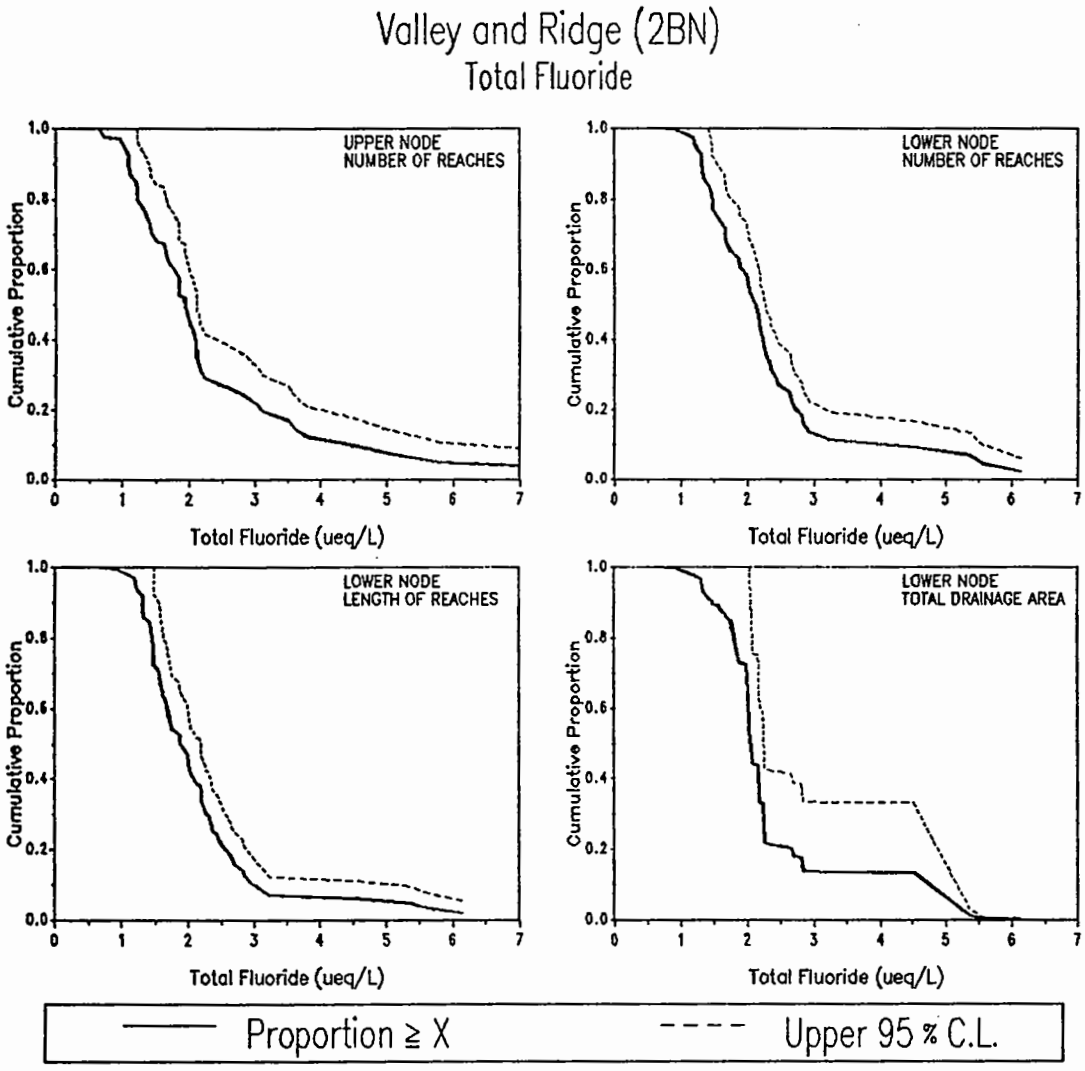


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (ueq/L)	2.46	2.50	2.76	3.13
40 % (ueq/L)	1.90	1.99	2.25	2.06
MEDIAN(ueq/L)	1.76	1.85	1.89	1.88
60 % (ueq/L)	1.55	1.74	1.85	1.78
80 % (ueq/L)	1.15	1.25	1.28	1.32

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	0.55	5.05	1.90	0.83
LOWER	61	0.84	3.90	1.98	0.77

Figure 5-157. Population estimates for fluoride (FTL16) for the Northern Appalachians subregion (2Cn).



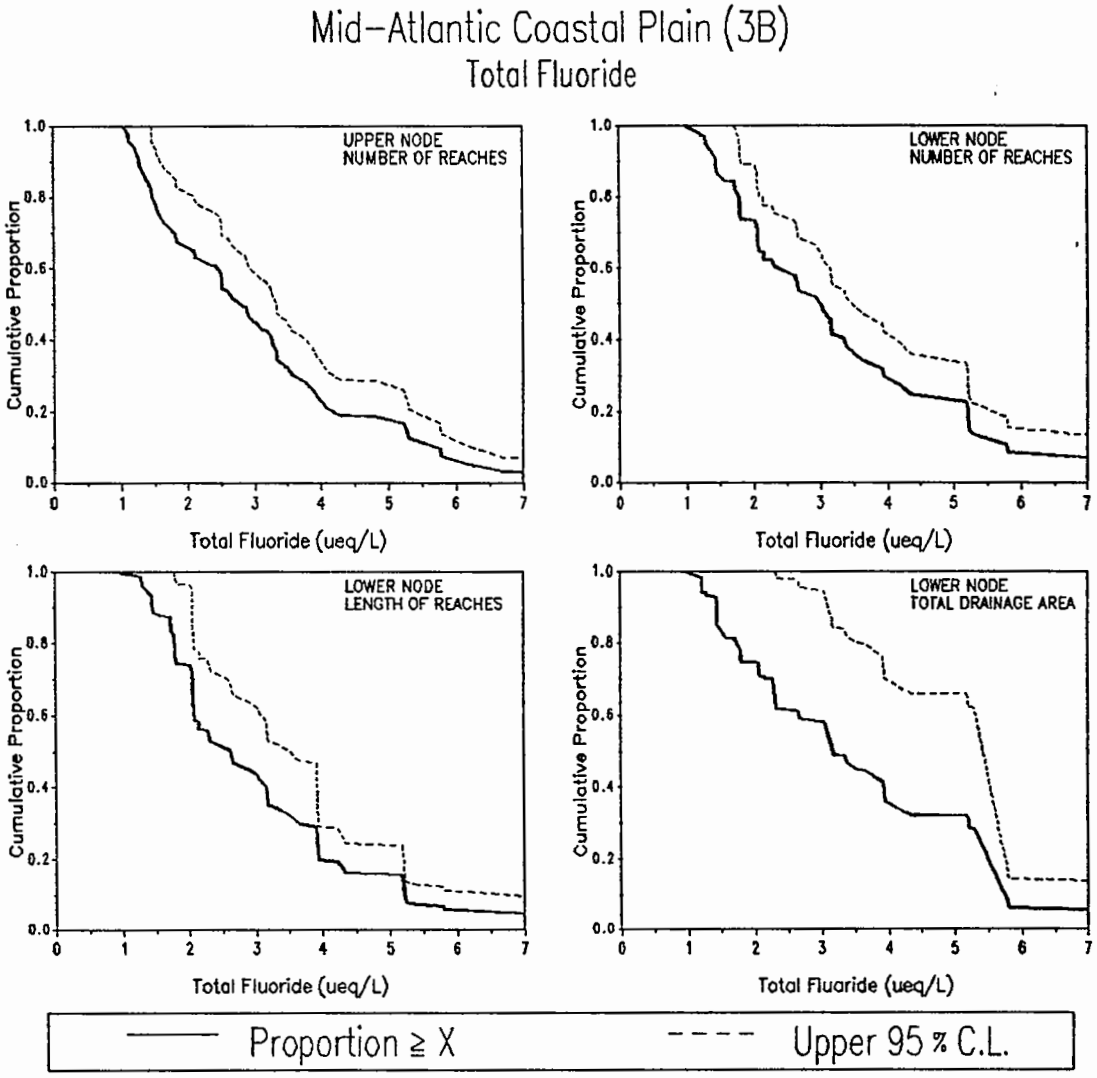
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (ueq/L)	2.95	2.66	2.44	2.63
40 % (ueq/L)	2.05	2.19	2.03	2.14
MEDIAN (ueq/L)	1.91	2.06	1.87	2.01
60 % (ueq/L)	1.68	1.87	1.66	1.99
80 % (ueq/L)	1.21	1.44	1.42	1.71

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	0.64	8.71	2.29	1.51
LOWER	47	0.59	6.14	2.28	1.13

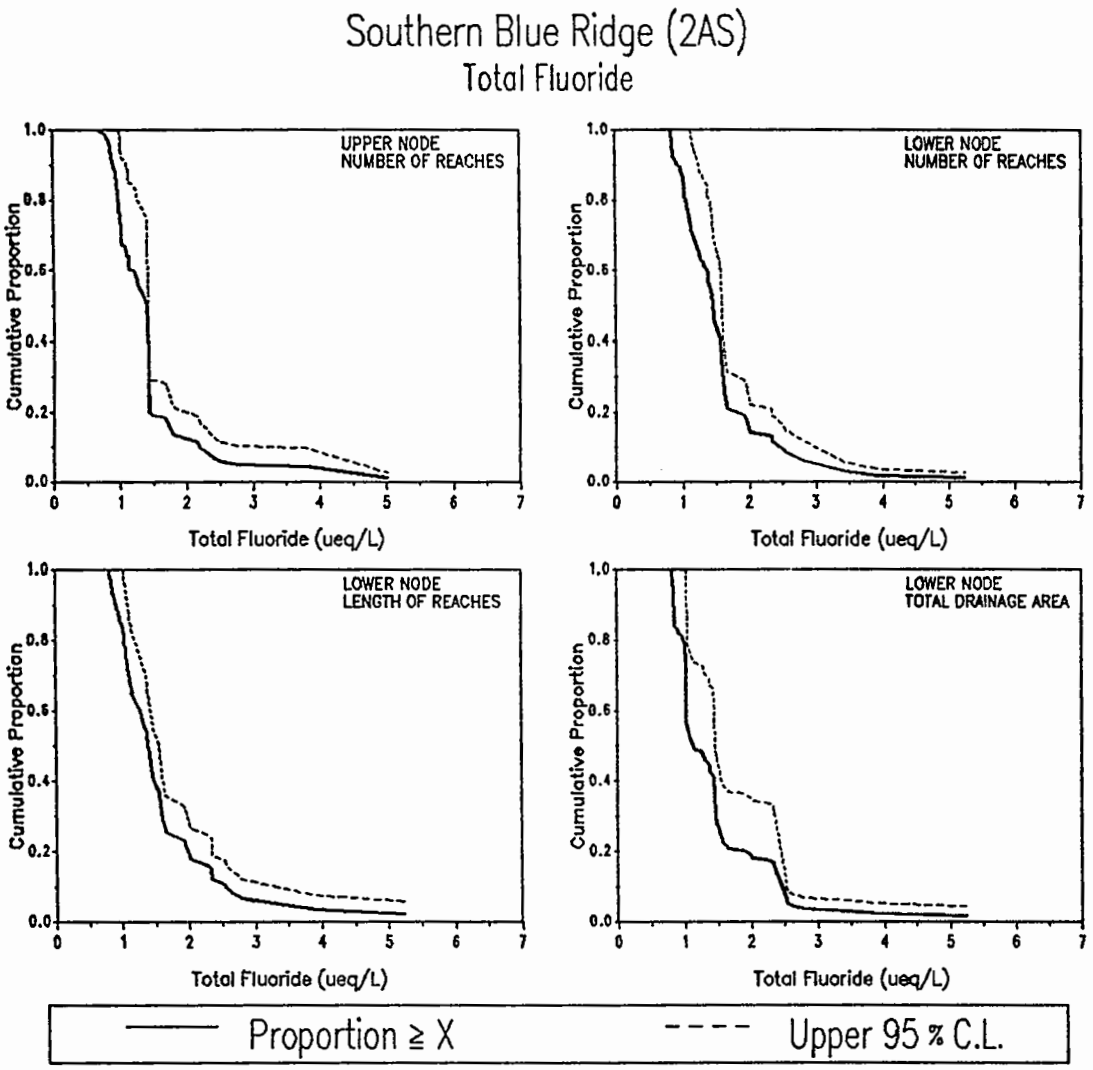
Figure 5-158. Population estimates for fluoride (FTL16) for the Valley and Ridge subregion (2Bn).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (ueq/L)	4.03	5.18	3.90	5.26
40 % (ueq/L)	3.19	3.20	3.03	3.70
MEDIAN (ueq/L)	2.65	2.88	2.40	3.15
60 % (ueq/L)	2.41	2.32	2.05	2.62
80 % (ueq/L)	1.46	1.73	1.75	1.72

	SUMMARY STATISTICS (ueq/L)				
	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	1.04	8.49	3.03	1.68
LOWER	58	0.95	25.26	3.68	3.63

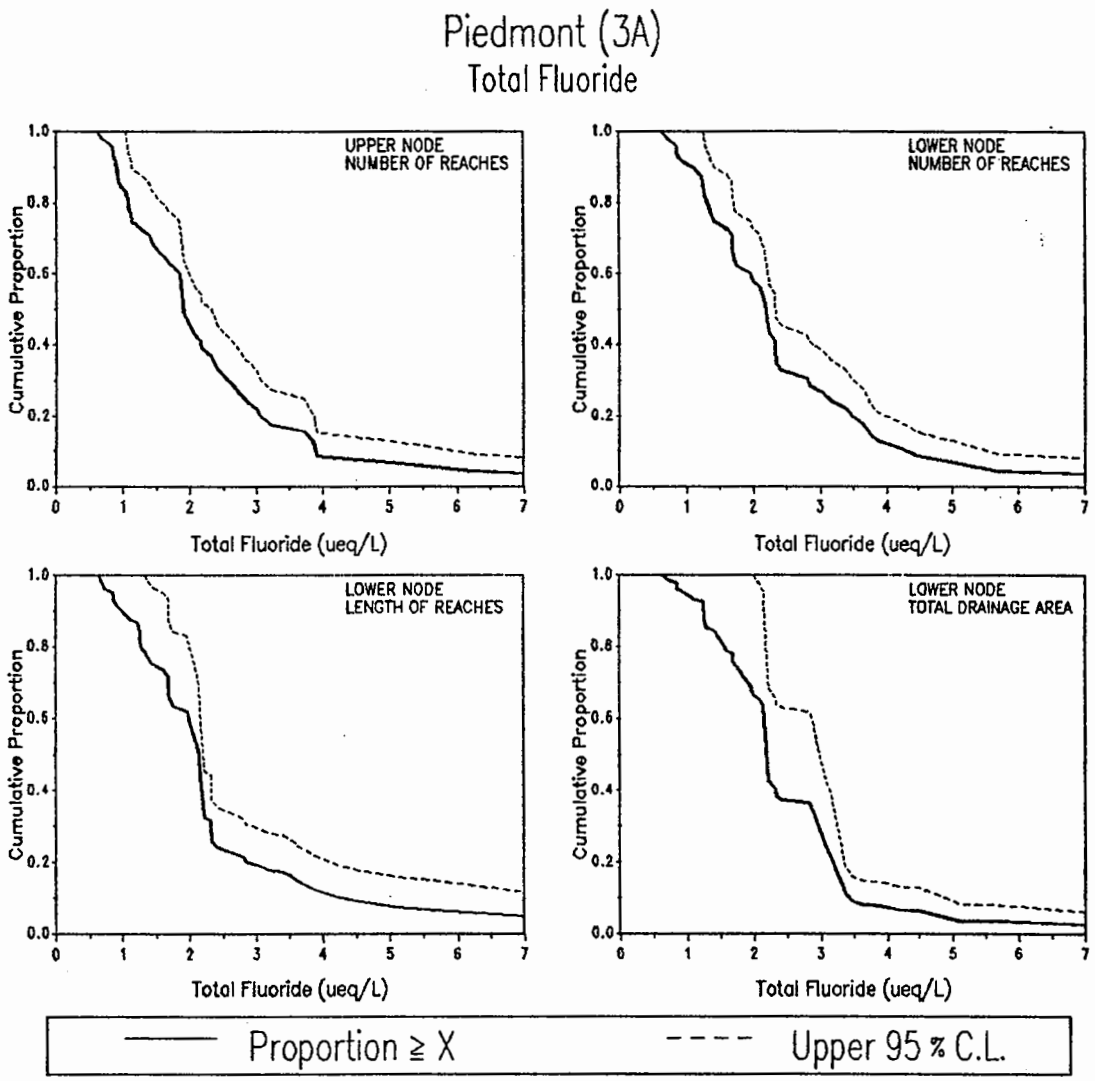
Figure 5-159. Population estimates for fluoride (FTL16) for the Mid-Atlantic Coastal Plain subregion (3B).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (ueq/L)	1.42	1.65	1.93	1.66
40 % (ueq/L)	1.41	1.55	1.46	1.41
MEDIAN (ueq/L)	1.36	1.42	1.37	1.11
60 % (ueq/L)	1.13	1.31	1.16	1.02
80 % (ueq/L)	0.97	1.03	1.02	0.97

SUMMARY STATISTICS (ueq/L)					
		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	0.68	5.00	1.42	0.68
LOWER	54	0.82	5.24	1.53	0.66

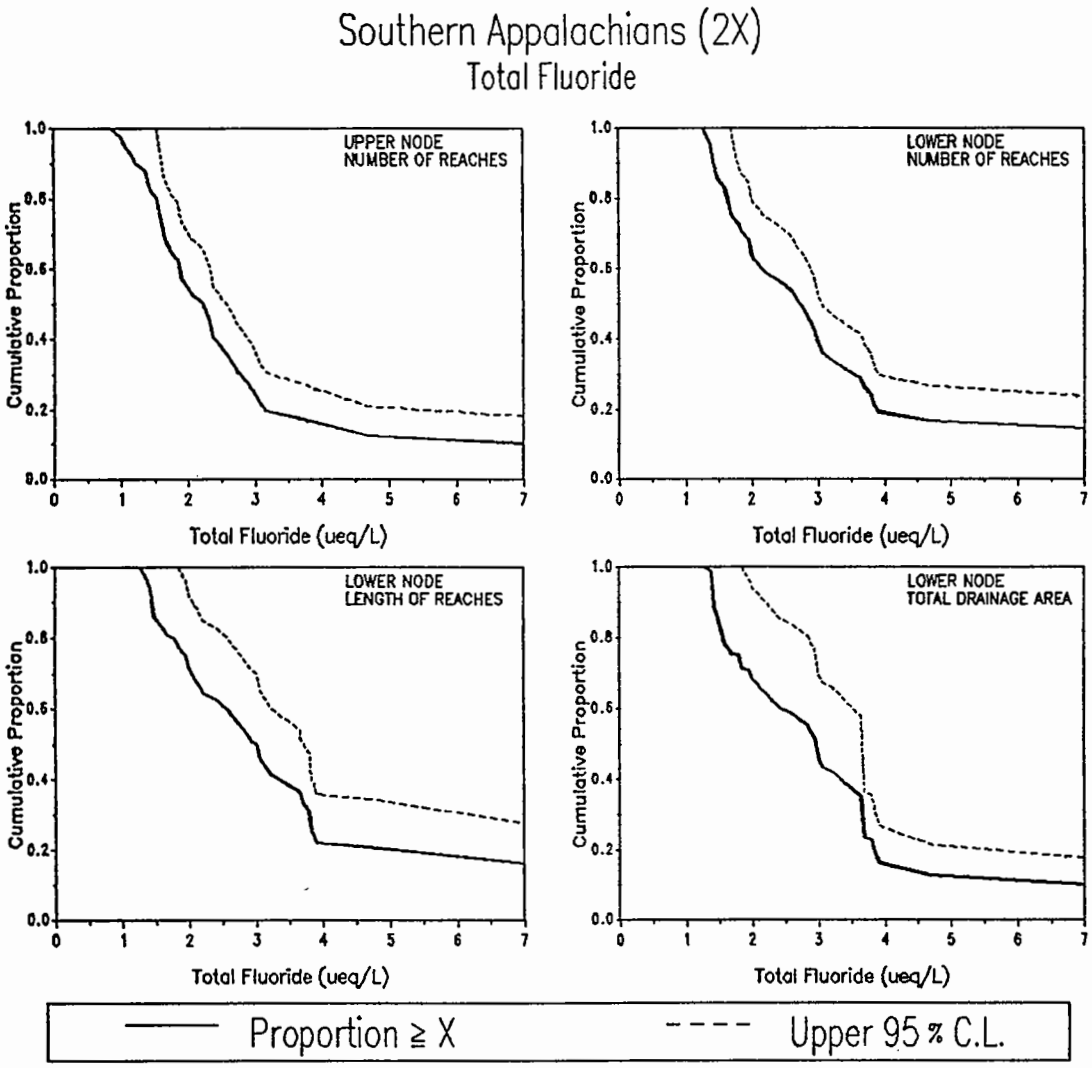
Figure 5-160. Population estimates for fluoride (FTL16) for the Southern Blue Ridge subregion (2As).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (ueq/L)	2.98	3.36	2.80	3.05
40 % (ueq/L)	2.11	2.28	2.15	2.32
MEDIAN(ueq/L)	1.88	2.14	2.10	2.15
60 % (ueq/L)	1.73	1.75	1.86	2.12
80 % (ueq/L)	1.05	1.27	1.26	1.41

SUMMARY STATISTICS (ueq/L)					
		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	0.59	8.75	2.25	1.51
LOWER	47	0.62	9.88	2.45	1.58

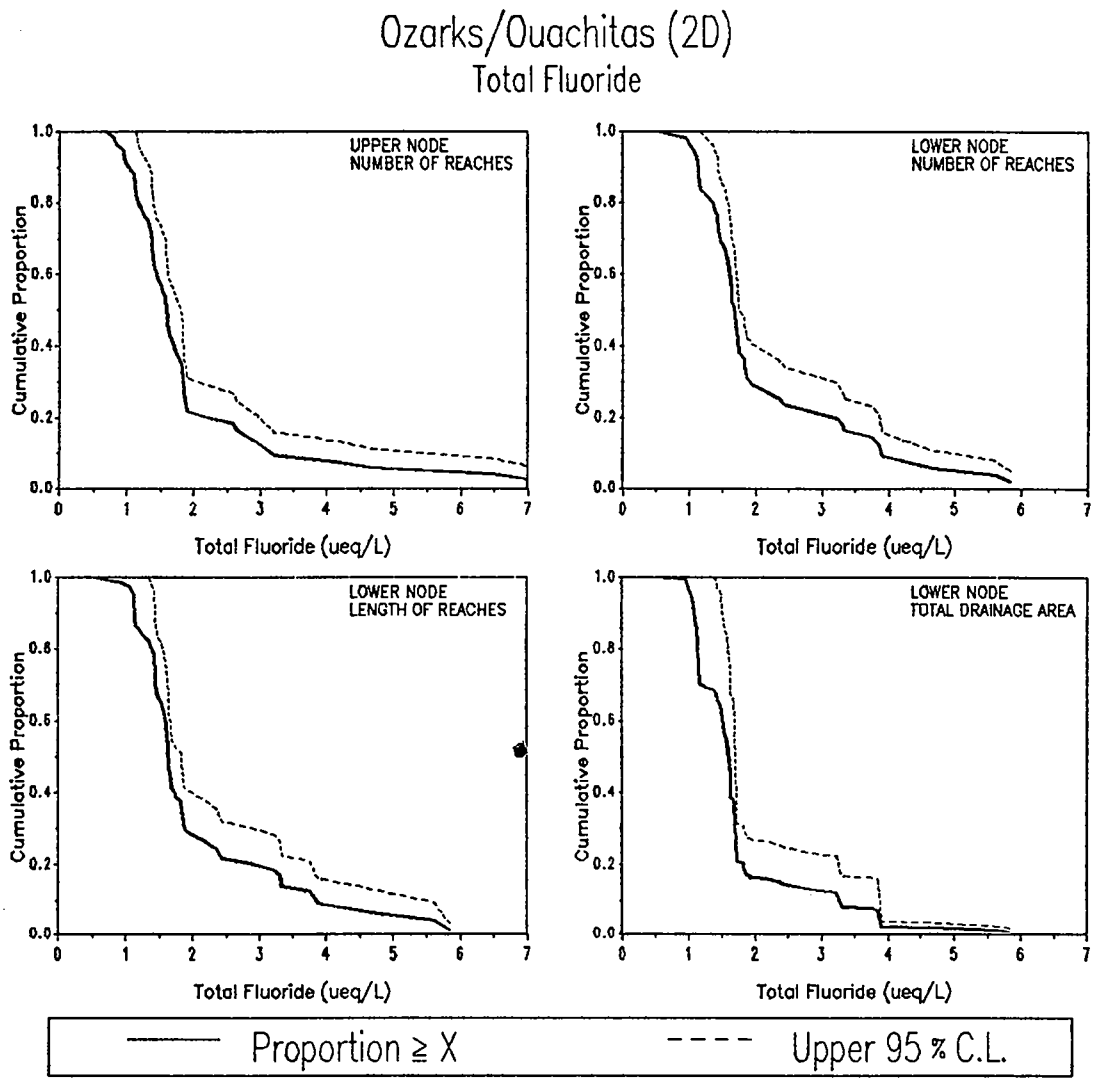
Figure 5-161. Population estimates for fluoride (FTL16) for the Piedmont subregion (3A).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (ueq/L)	3.04	3.81	4.03	3.79
40 % (ueq/L)	2.33	2.92	3.10	3.10
MEDIAN (ueq/L)	2.06	2.51	2.94	2.91
60 % (ueq/L)	1.79	1.99	2.38	2.20
80 % (ueq/L)	1.42	1.52	1.65	1.46

SUMMARY STATISTICS (ueq/L)					
	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	0.84	13.27	2.90	2.63
LOWER	40	1.26	14.00	3.41	2.77

Figure 5-162. Population estimates for fluoride (FTL16) for the Southern Appalachians subregion (2X).

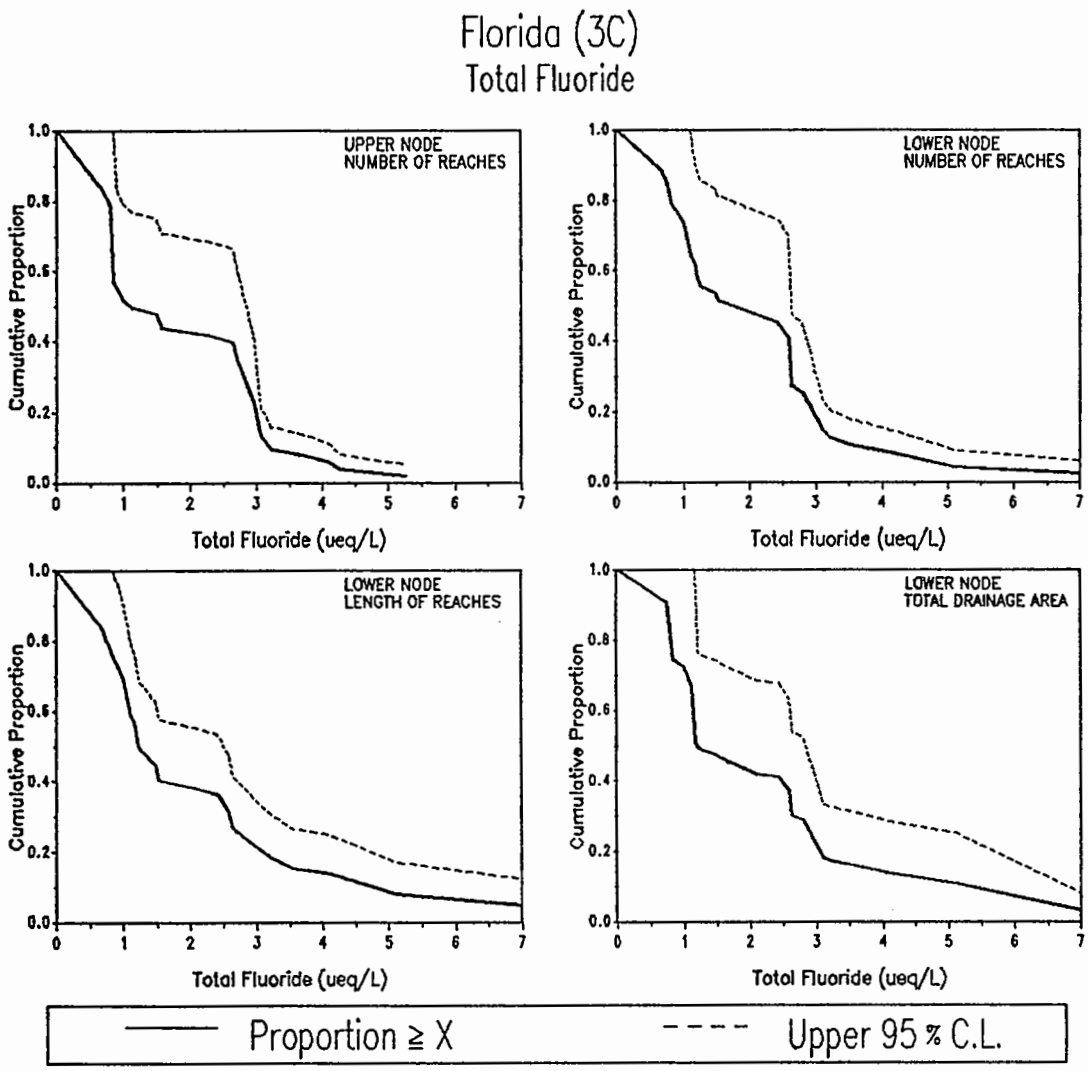


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (ueq/L)	1.89	2.82	2.51	1.77
40 % (ueq/L)	1.65	1.71	1.68	1.62
MEDIAN (ueq/L)	1.57	1.65	1.60	1.55
60 % (ueq/L)	1.41	1.55	1.54	1.46
80 % (ueq/L)	1.14	1.25	1.35	1.13

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	0.69	7.16	1.90	1.24
LOWER	48	0.52	5.83	2.06	1.15

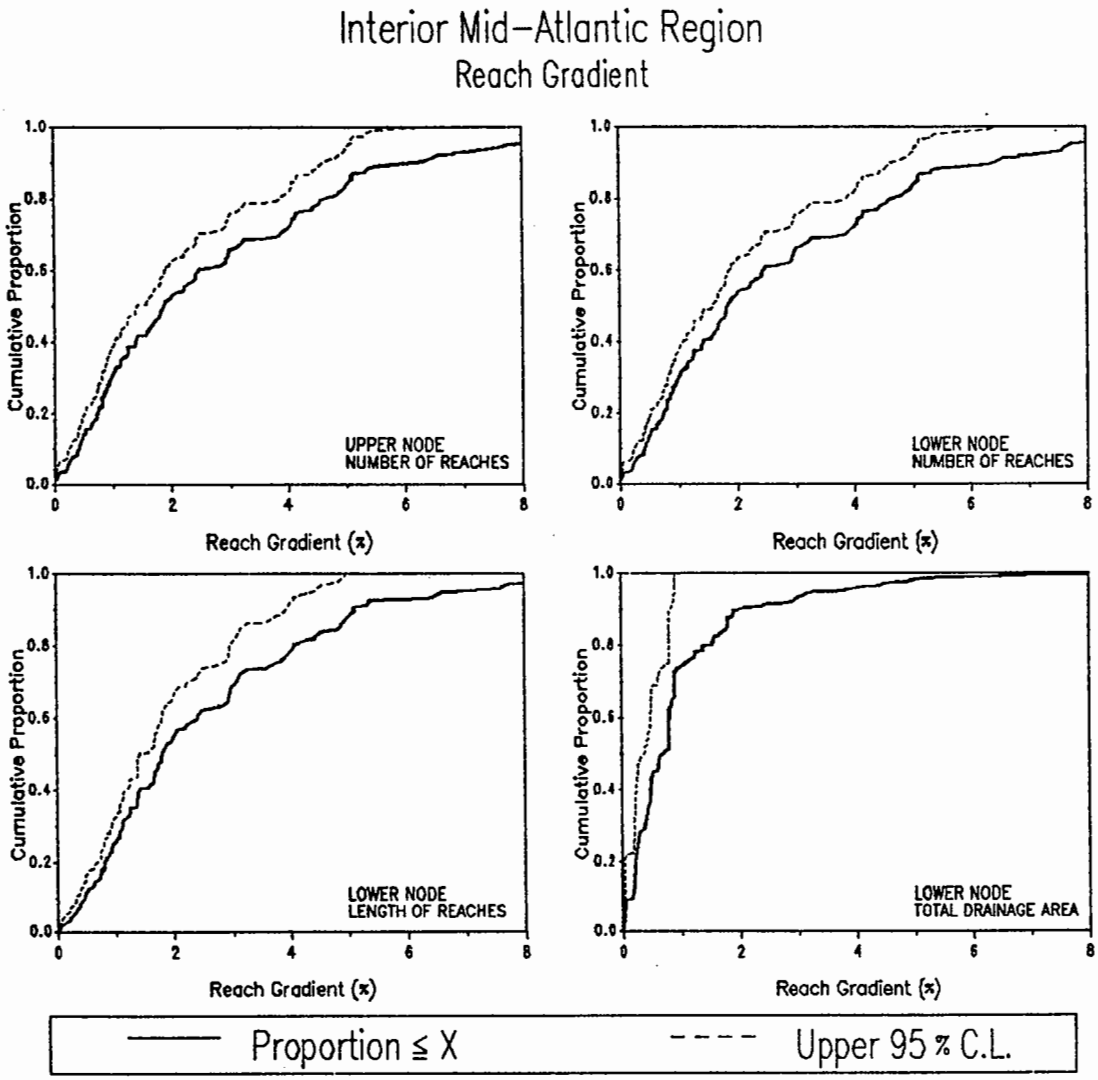
Figure 5-163. Population estimates for fluoride (FTL16) for the Ozarks/Ouachitas subregion (2D).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (ueq/L)	2.76	2.71	2.78	2.76
40 % (ueq/L)	2.22	2.43	1.48	2.20
MEDIAN (ueq/L)	1.00	1.49	1.18	1.14
60 % (ueq/L)	0.78	1.13	0.98	1.05
80 % (ueq/L)	0.67	0.73	0.69	0.72

SUMMARY STATISTICS (ueq/L)					
		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	0.00	5.26	1.72	1.26
LOWER	34	0.00	7.26	1.95	1.38

Figure 5-164. Population estimates for fluoride (FTL16) for Florida subregion (3C).



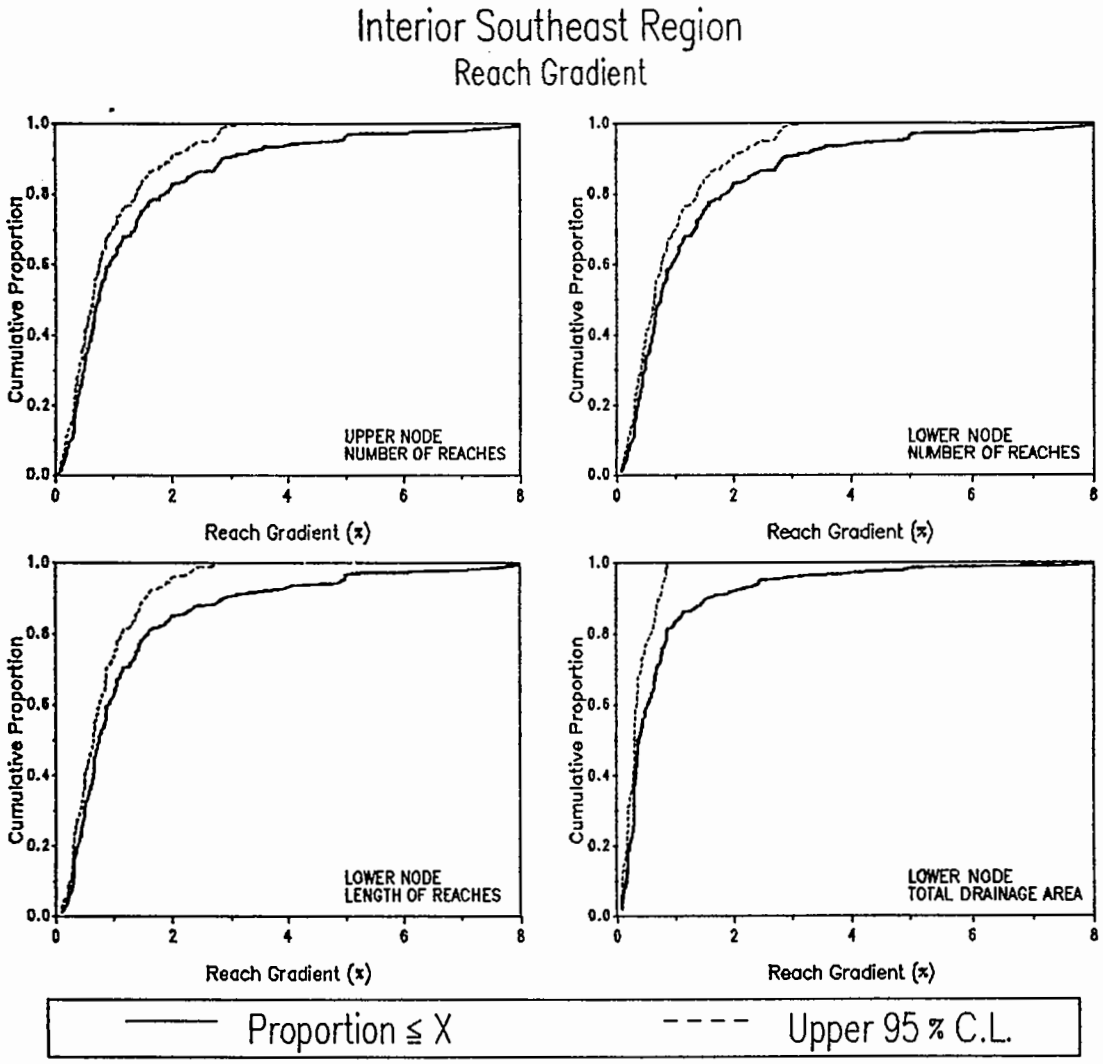
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (%)	0.72	0.74	0.80	0.22
40 % (%)	1.37	1.40	1.41	0.48
MEDIAN (%)	1.86	1.82	1.79	0.70
60 % (%)	2.46	2.43	2.40	0.80
80 % (%)	4.62	4.63	4.07	1.53

SUMMARY STATISTICS (%)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	0.02	19.76	2.91	3.11
LOWER	164	0.02	19.76	2.93	3.10

Figure 5-165. Population estimates for stream Gradient (GRADE) for the Mid-Atlantic Region.



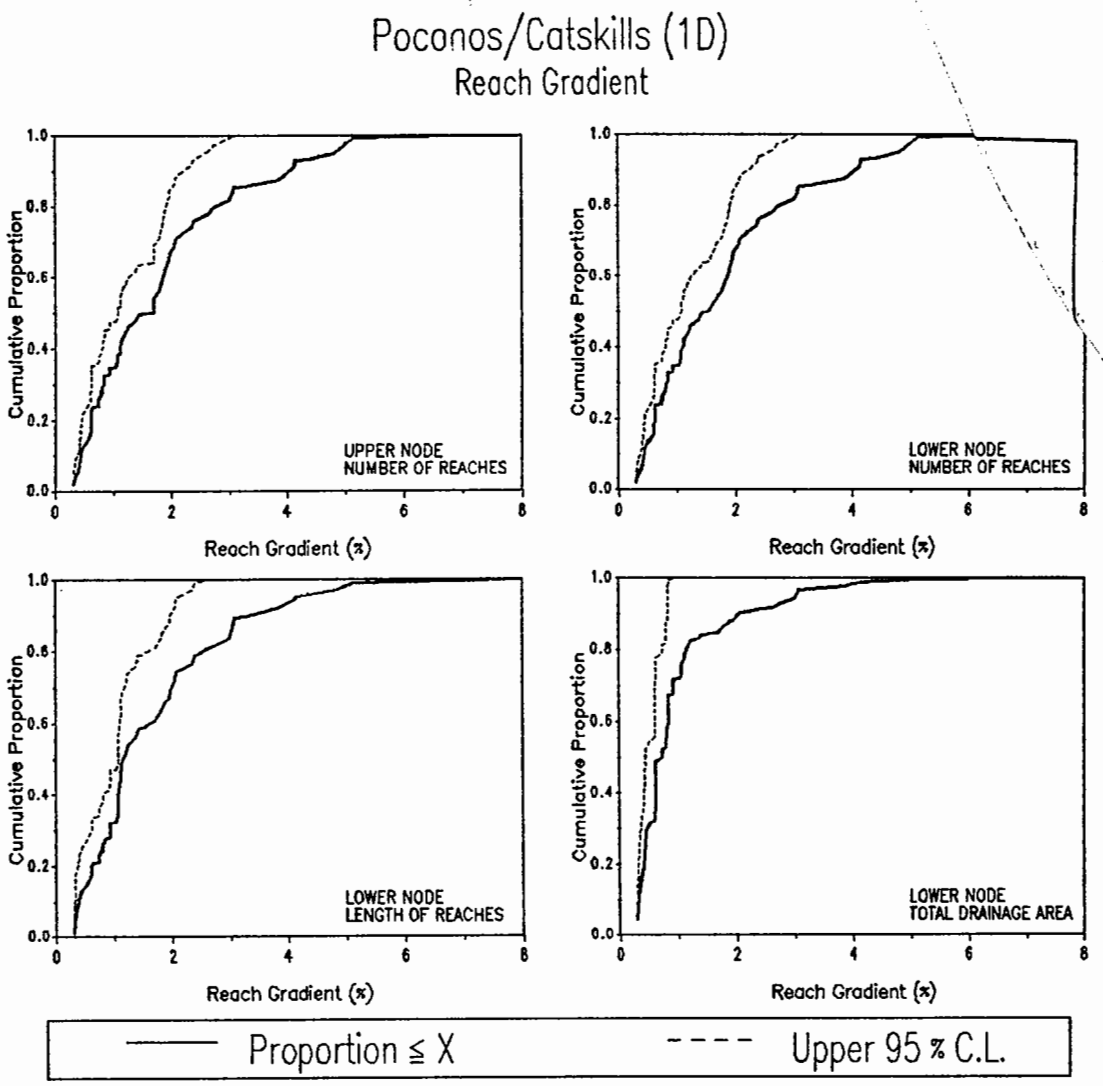
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (%)	0.35	0.36	0.36	0.22
40 % (%)	0.61	0.62	0.64	0.32
MEDIAN (%)	0.74	0.74	0.75	0.36
60 % (%)	0.92	0.93	0.91	0.54
80 % (%)	1.86	1.86	1.58	0.85

SUMMARY STATISTICS (%)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	0.04	17.65	1.33	1.75
LOWER	189	0.09	17.65	1.34	1.75

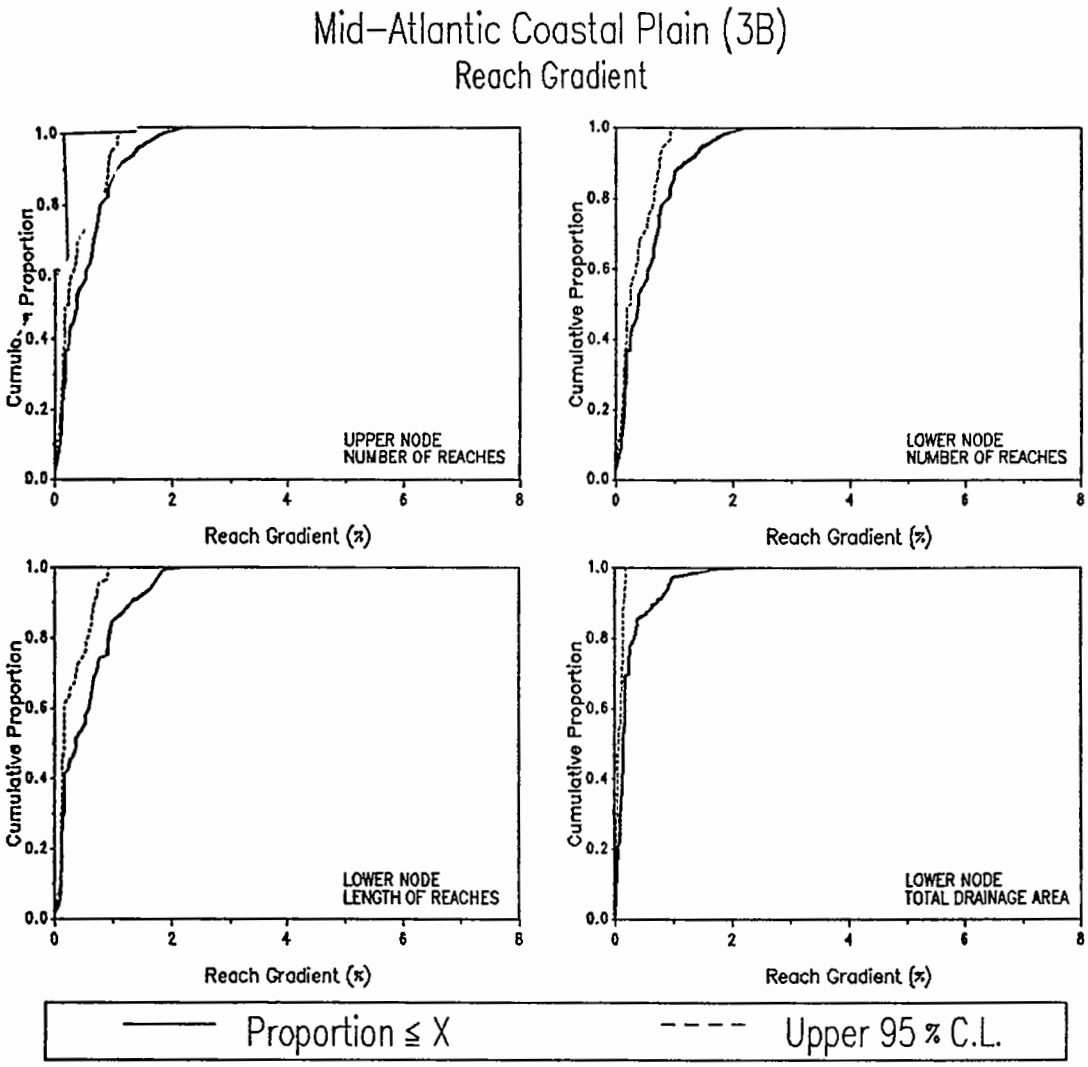
Figure 5-166. Population estimates for stream Gradient (GRADE) for the Southeastern Region.



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (%)	0.61	0.61	0.61	0.40
40 % (%)	1.11	1.10	1.06	0.61
MEDIAN (%)	1.55	1.53	1.15	0.73
60 % (%)	1.86	1.86	1.62	0.83
80 % (%)	2.76	2.77	2.54	1.15

SUMMARY STATISTICS (%)					
		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	0.30	11.12	1.86	1.45
LOWER	56	0.30	11.12	1.86	1.45

Figure 5-167. Population estimates for stream Gradient (GRADE) for the Poconos/Catskills subregion (1D).



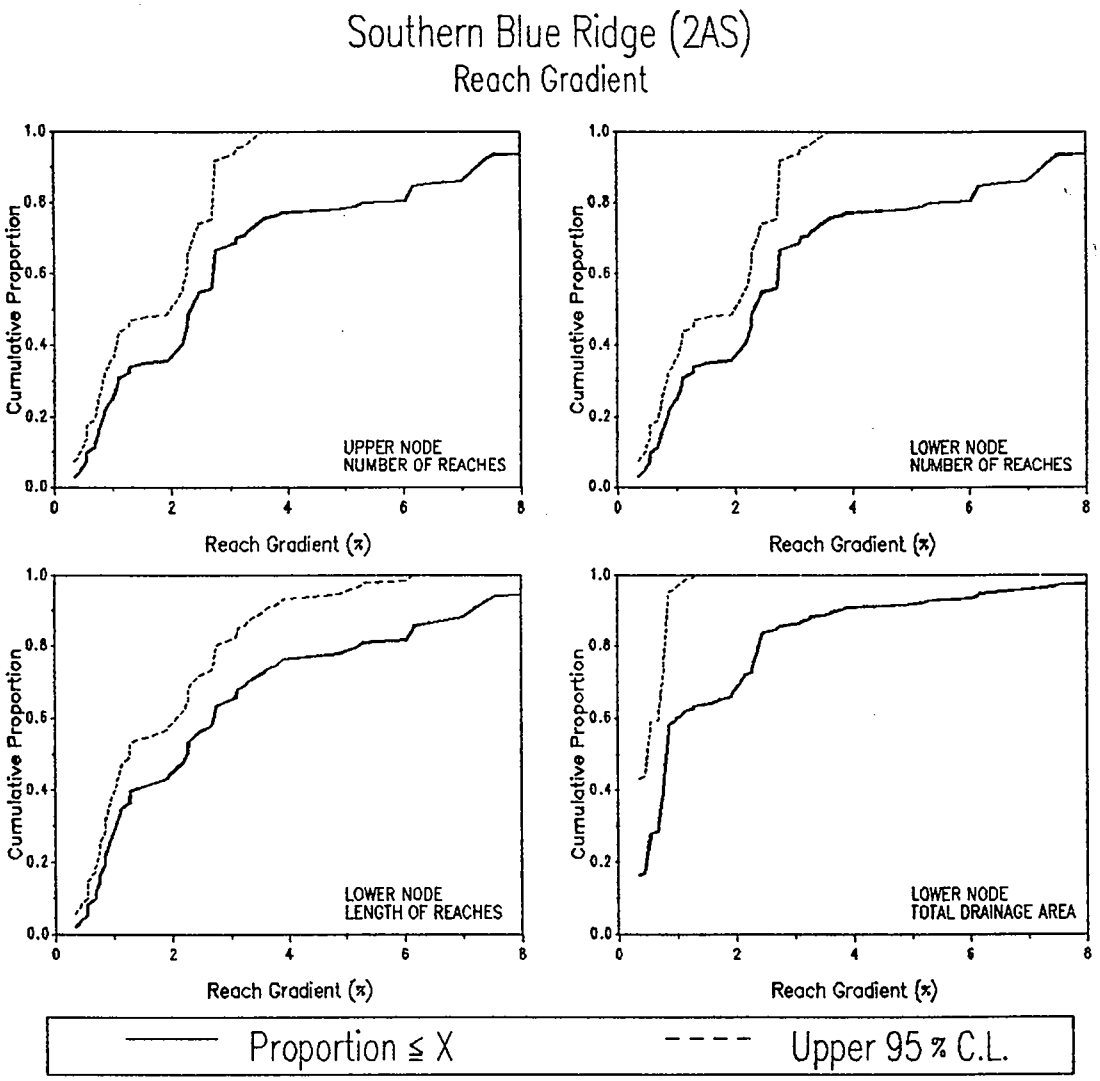
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (%)	0.12	0.12	0.12	0.05
40 % (%)	0.23	0.23	0.17	0.12
MEDIAN (%)	0.36	0.36	0.36	0.13
60 % (%)	0.55	0.55	0.58	0.16
80 % (%)	0.87	0.87	0.93	0.31

SUMMARY STATISTICS (%)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	-0.07	2.19	0.53	0.50
LOWER	58	-0.07	2.19	0.53	0.50

Figure 5-170. Population estimates for stream Gradient (GRADE) for the Mid-Atlantic Coastal Plain subregion (3B).



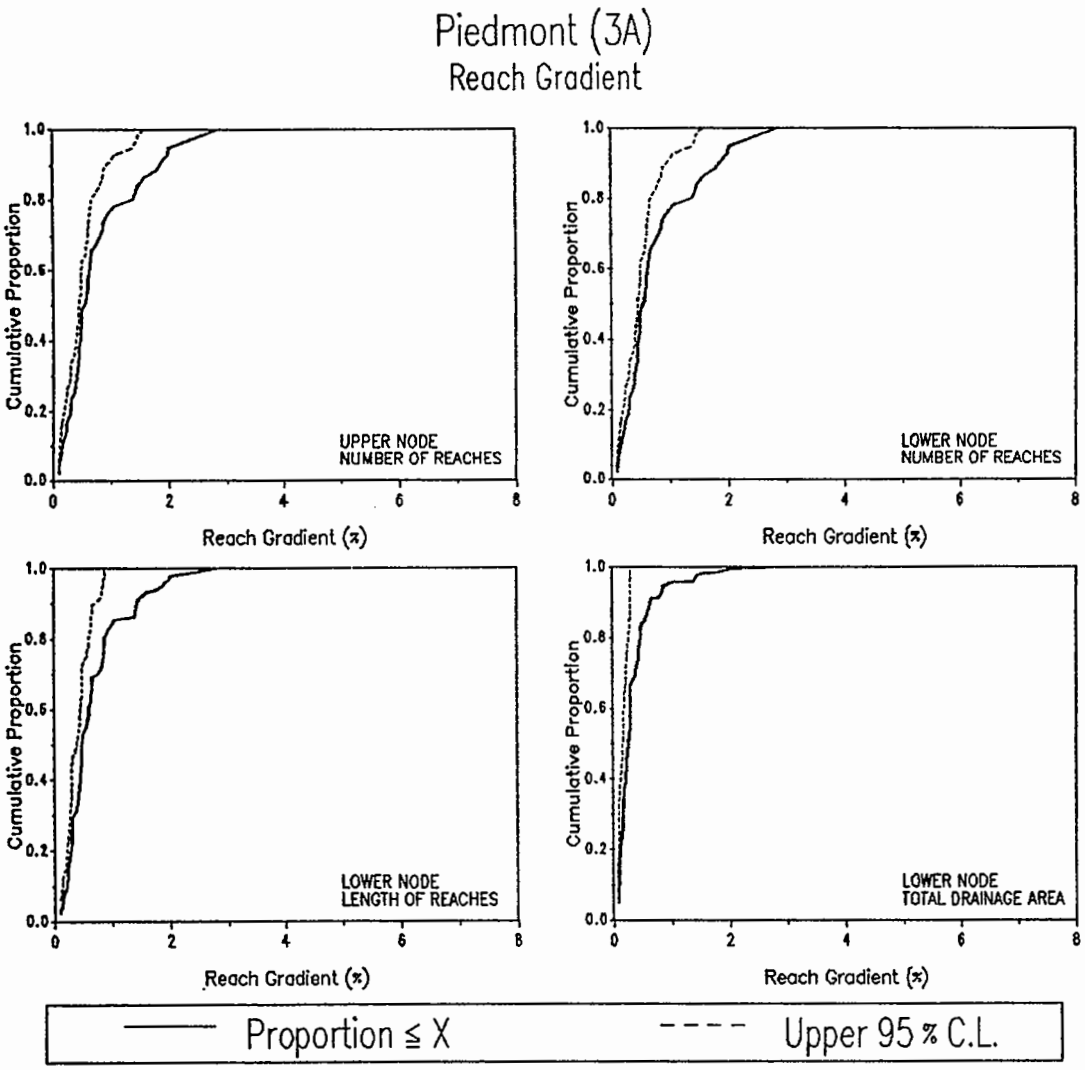
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (%)	0.83	0.83	0.85	0.47
40 % (%)	2.15	2.15	1.34	0.76
MEDIAN (%)	2.31	2.31	2.26	0.81
60 % (%)	2.72	2.72	2.71	1.00
80 % (%)	5.44	5.44	5.22	2.39

SUMMARY STATISTICS (%)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	0.34	17.65	3.39	3.45
LOWER	54	0.34	17.65	3.39	3.45

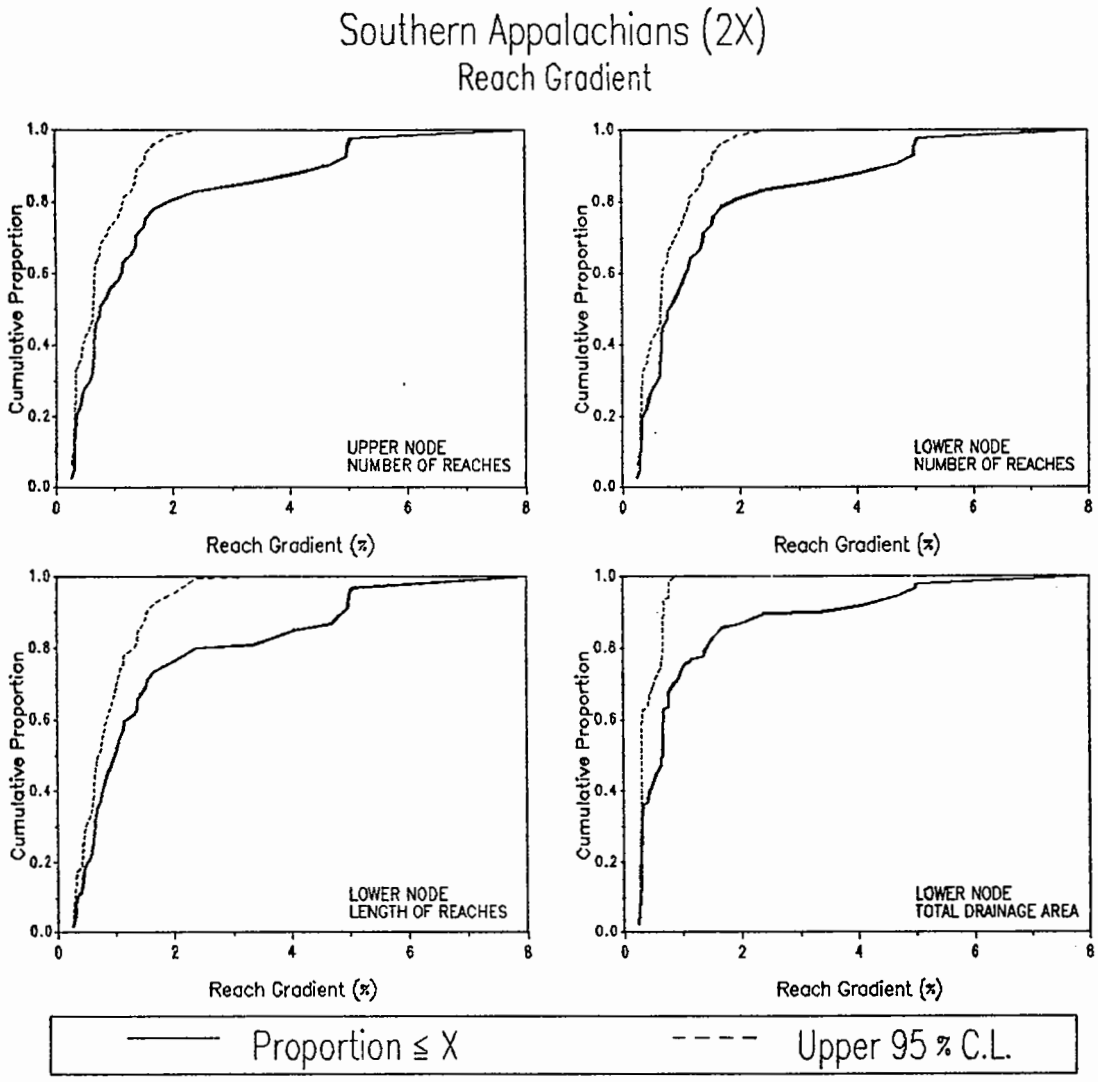
Figure 5-171. Population estimates for stream Gradient (GRADE) for the Southern Blue Ridge subregion (2As).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (%)	0.29	0.29	0.27	0.12
40 % (%)	0.47	0.47	0.44	0.22
MEDIAN (%)	0.54	0.54	0.48	0.26
60 % (%)	0.62	0.62	0.60	0.29
80 % (%)	1.37	1.37	0.87	0.48

SUMMARY STATISTICS (%)					
	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	0.09	2.84	0.80	0.70
LOWER	47	0.09	2.84	0.80	0.70

Figure 5-172. Population estimates for stream Gradient (GRADE) for the Piedmont subregion (3A).

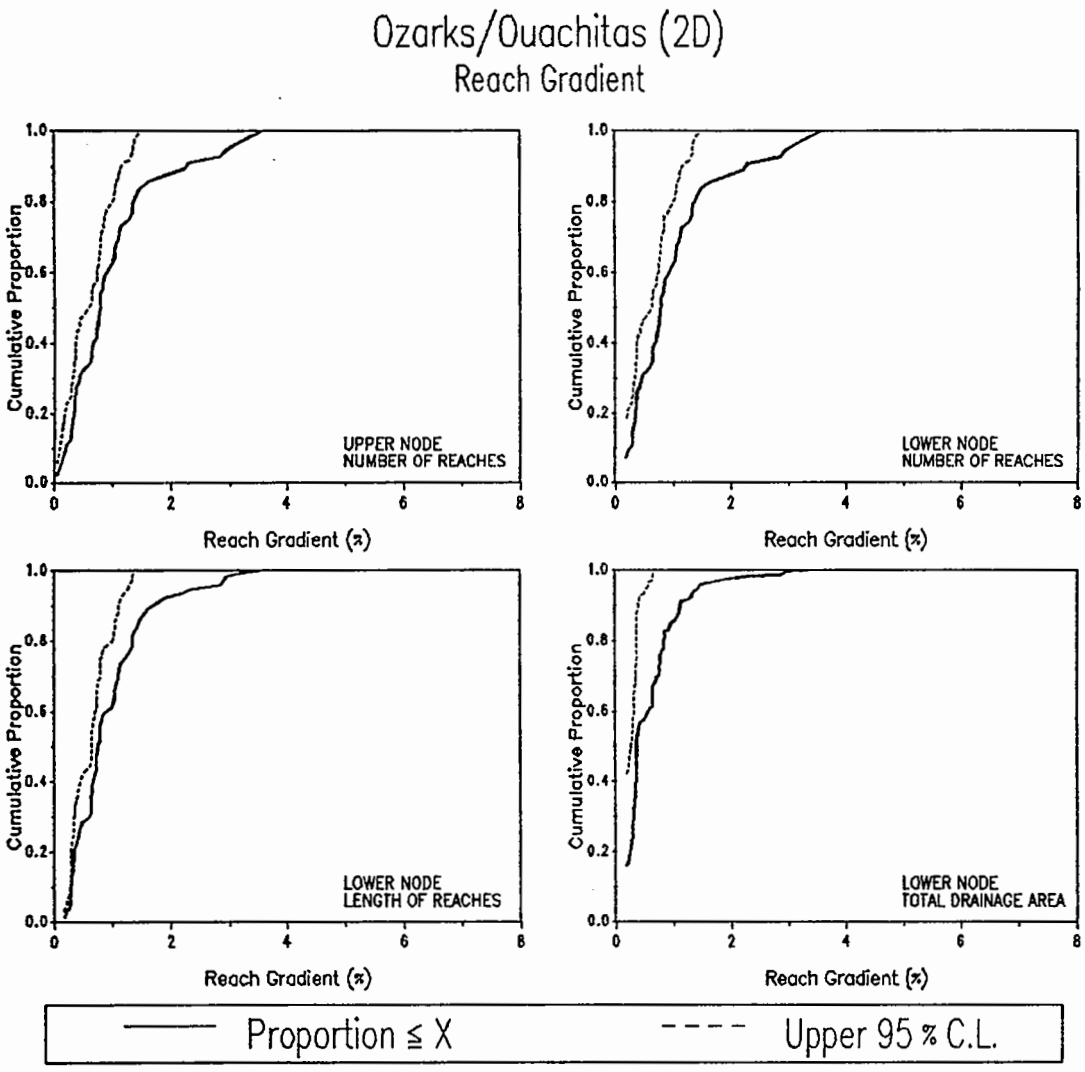


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (%)	0.32	0.33	0.51	0.30
40 % (%)	0.66	0.66	0.78	0.43
MEDIAN (%)	0.76	0.78	0.99	0.66
60 % (%)	1.12	1.09	1.20	0.68
80 % (%)	1.93	1.87	2.48	1.41

SUMMARY STATISTICS (%)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	0.25	7.95	1.56	1.74
LOWER	40	0.25	7.95	1.55	1.72

Figure 5-173. Population estimates for stream Gradient (GRADE) for the Southern Appalachians subregion (2X).

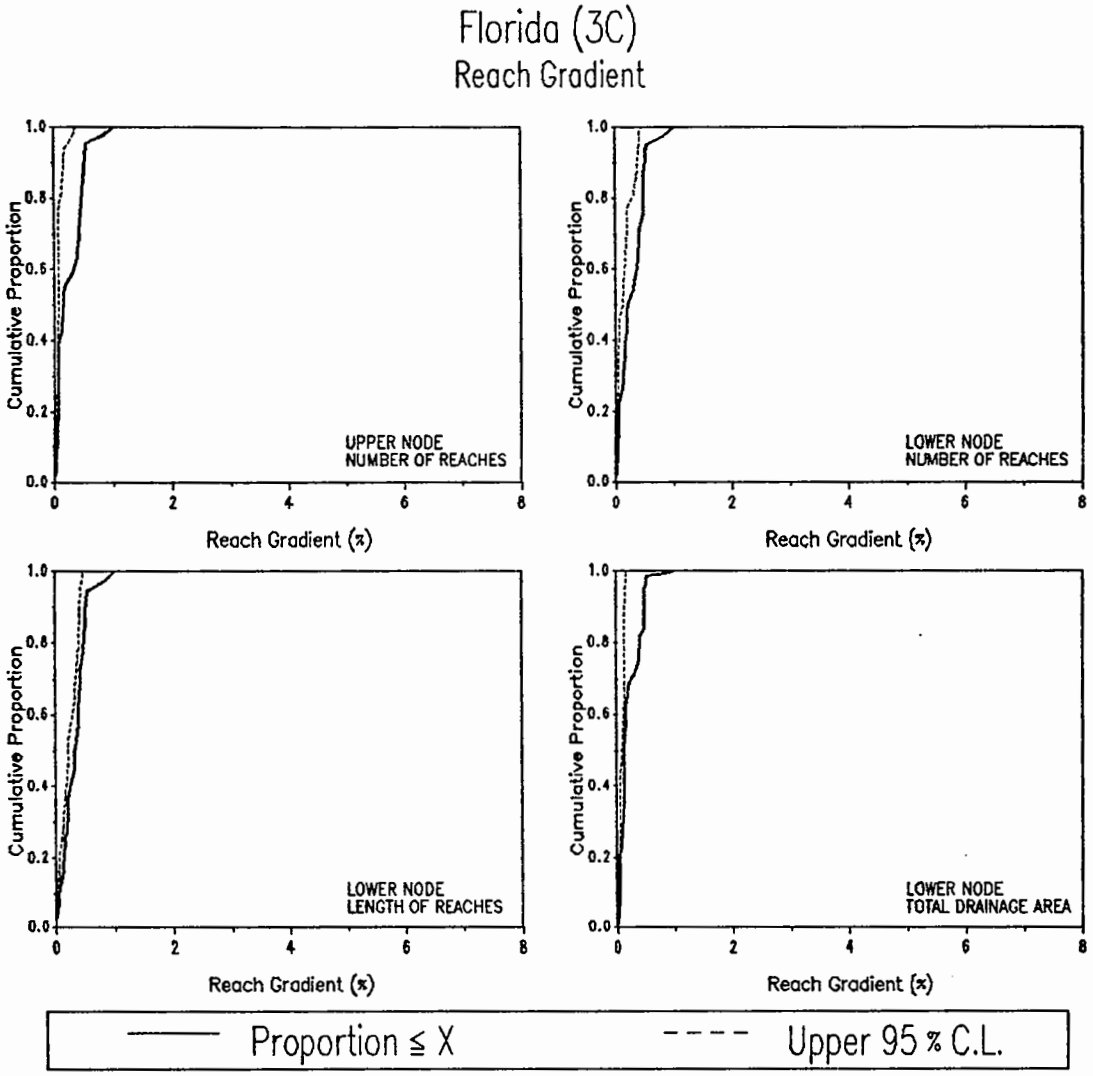


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (%)	0.34	0.35	0.35	0.24
40 % (%)	0.65	0.70	0.67	0.35
MEDIAN (%)	0.78	0.78	0.75	0.36
60 % (%)	0.89	0.93	0.89	0.57
80 % (%)	1.36	1.37	1.34	0.84

SUMMARY STATISTICS (%)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	0.04	3.57	1.02	0.85
LOWER	48	0.18	3.57	1.04	0.85

Figure 5-174. Population estimates for stream Gradient (GRADE) for the Ozarks/Ouachitas subregion (2D).



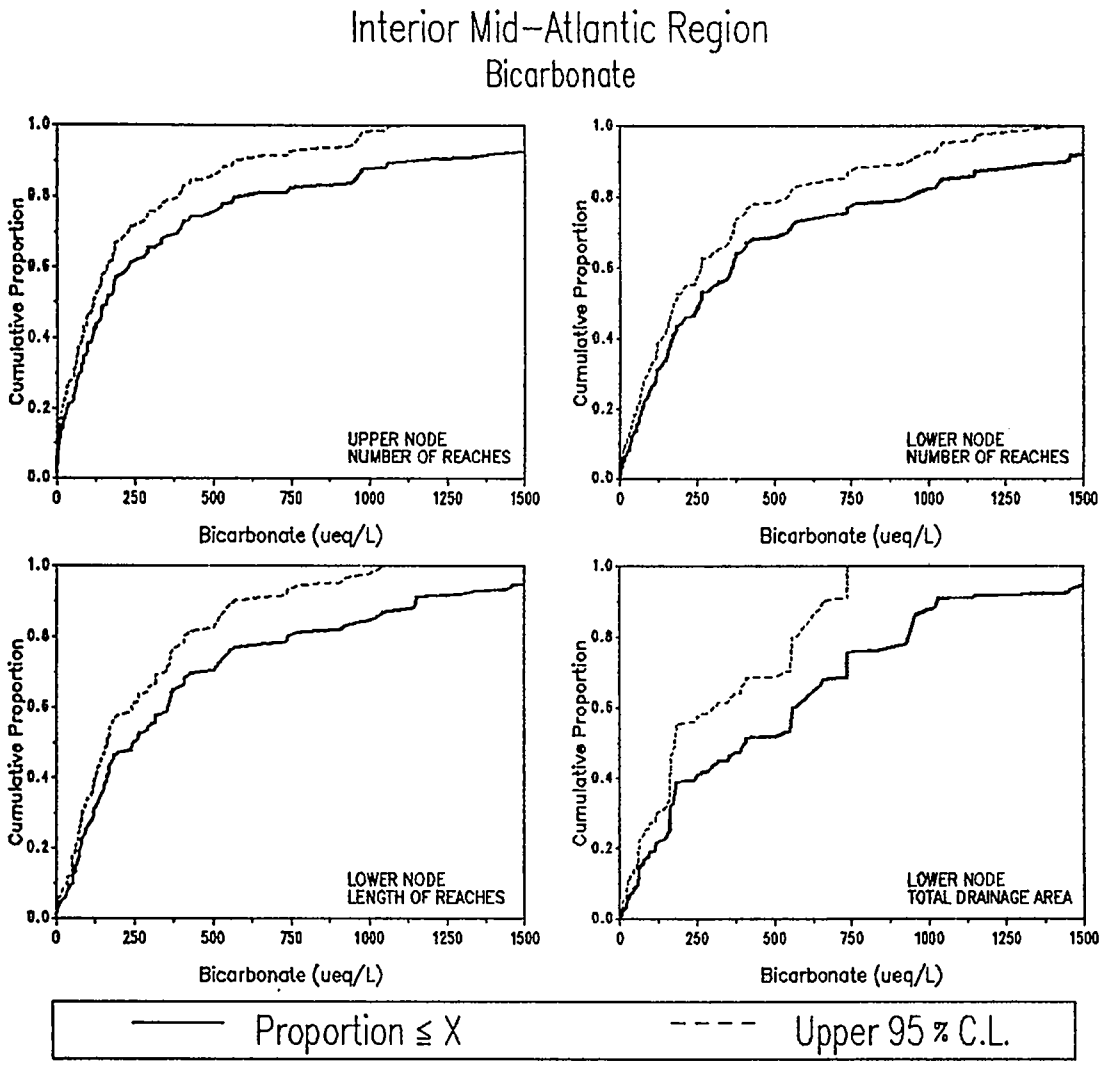
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (%)	0.05	0.05	0.13	0.05
40 % (%)	0.08	0.18	0.25	0.13
MEDIAN (%)	0.15	0.20	0.33	0.13
60 % (%)	0.33	0.37	0.38	0.16
80 % (%)	0.47	0.48	0.48	0.40

SUMMARY STATISTICS (%)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	0.01	1.01	0.26	0.23
LOWER	34	0.01	1.01	0.29	0.22

Figure 5-175. Population estimates for stream Gradient (GRADE) for Florida subregion (3C).

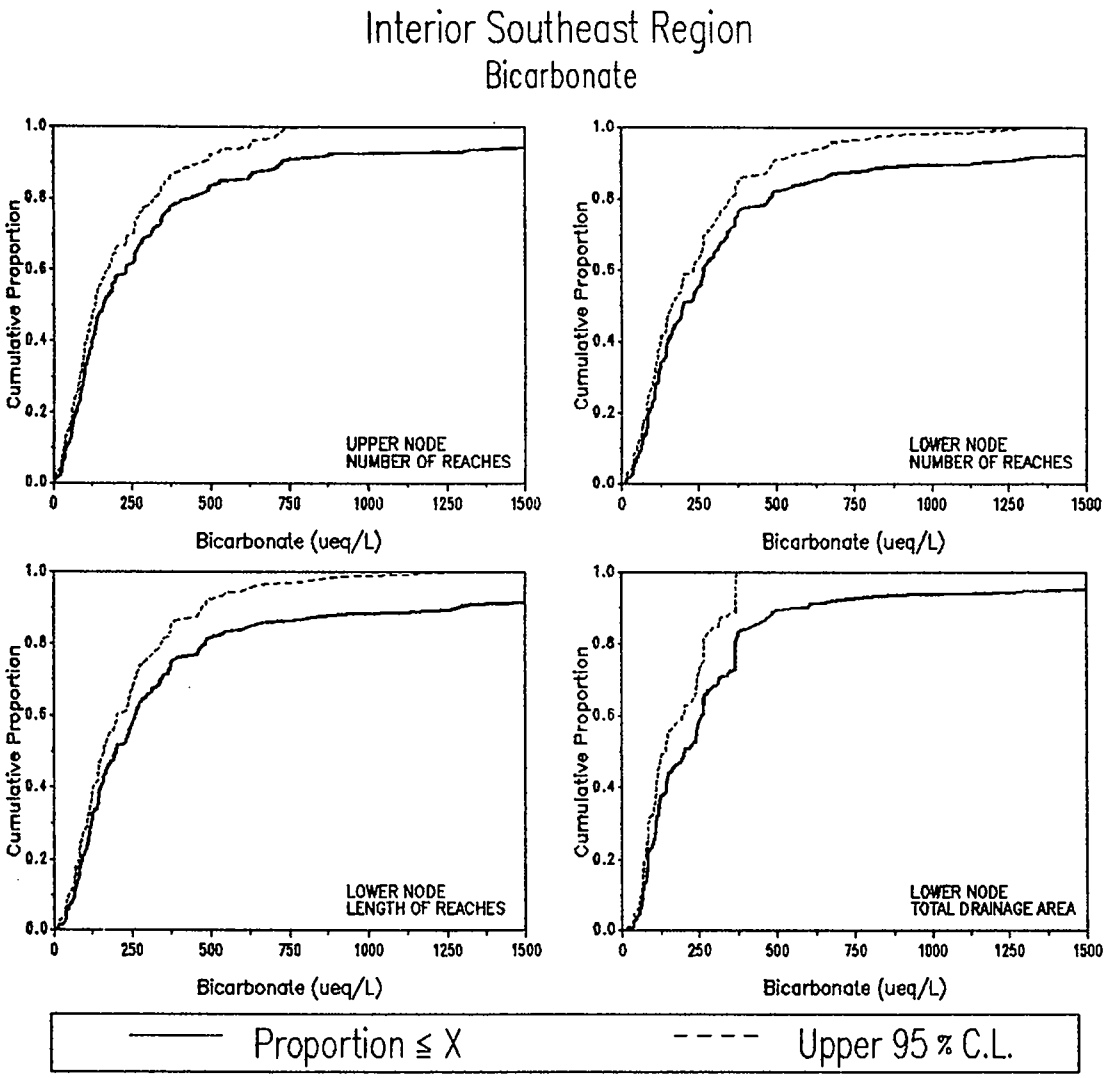


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (ueq/L)	33.75	69.01	77.48	116.52
40 % (ueq/L)	114.14	168.75	162.75	246.15
MEDIAN(ueq/L)	159.78	257.35	247.73	404.69
60 % (ueq/L)	229.52	358.98	357.91	557.62
80 % (ueq/L)	590.51	937.80	739.27	936.08

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	0.17	4675.11	448.66	745.38
LOWER	164	0.32	4775.78	561.19	805.99

Figure 5-176.Population estimates for Bicarbonate Ion (HCO316) for the Mid-Atlantic Region.

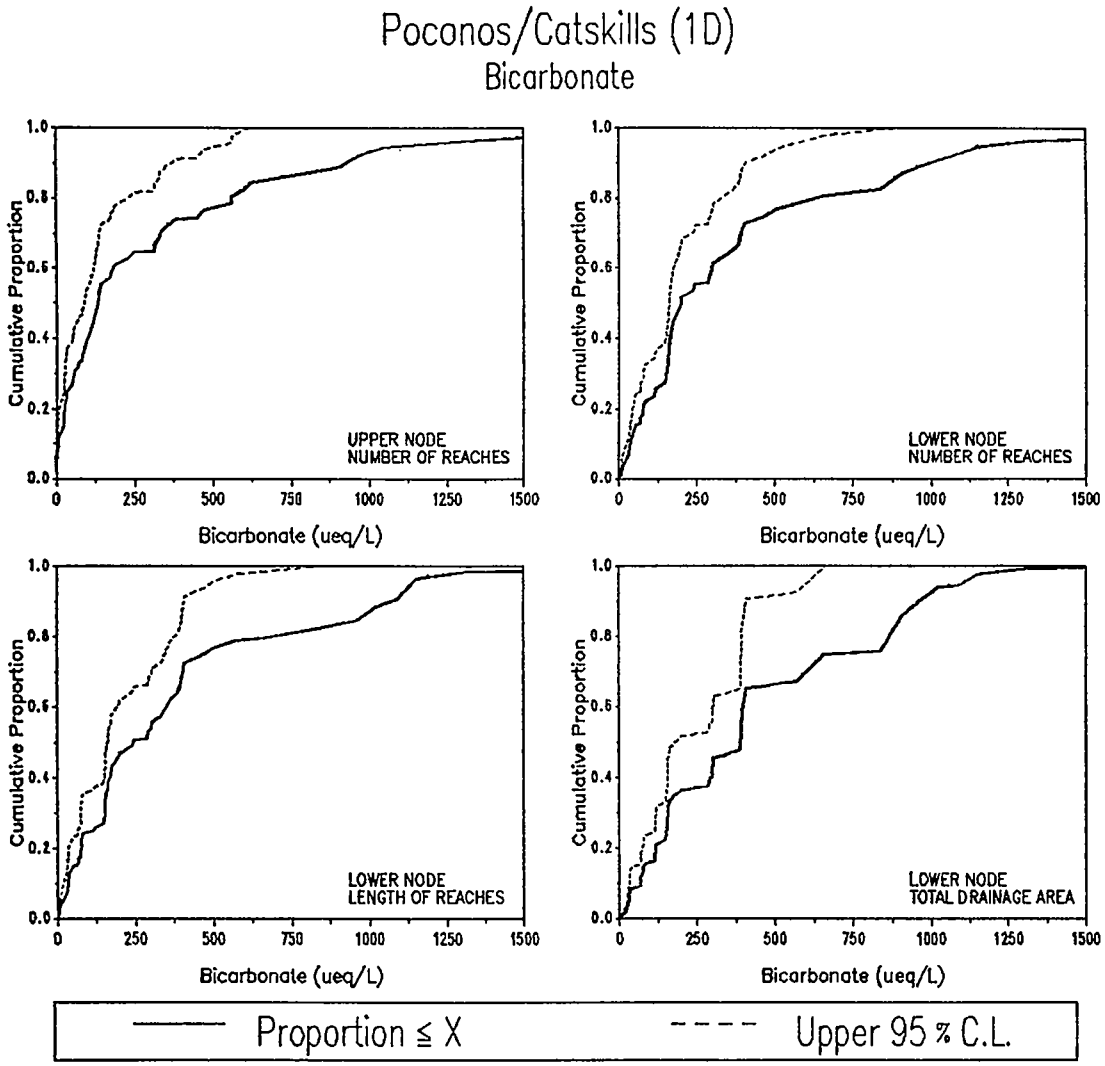


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (ueq/L)	73.05	87.71	90.29	82.32
40 % (ueq/L)	125.07	150.51	154.57	142.18
MEDIAN (ueq/L)	162.35	201.59	200.97	204.67
60 % (ueq/L)	232.40	264.33	260.84	256.14
80 % (ueq/L)	434.50	479.05	485.80	365.94

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	3.81	3694.84	363.02	561.71
LOWER	189	11.65	3808.00	445.81	693.09

Figure 5-177. Population estimates for Bicarbonate Ion (HCO316) for the Southeastern Region.

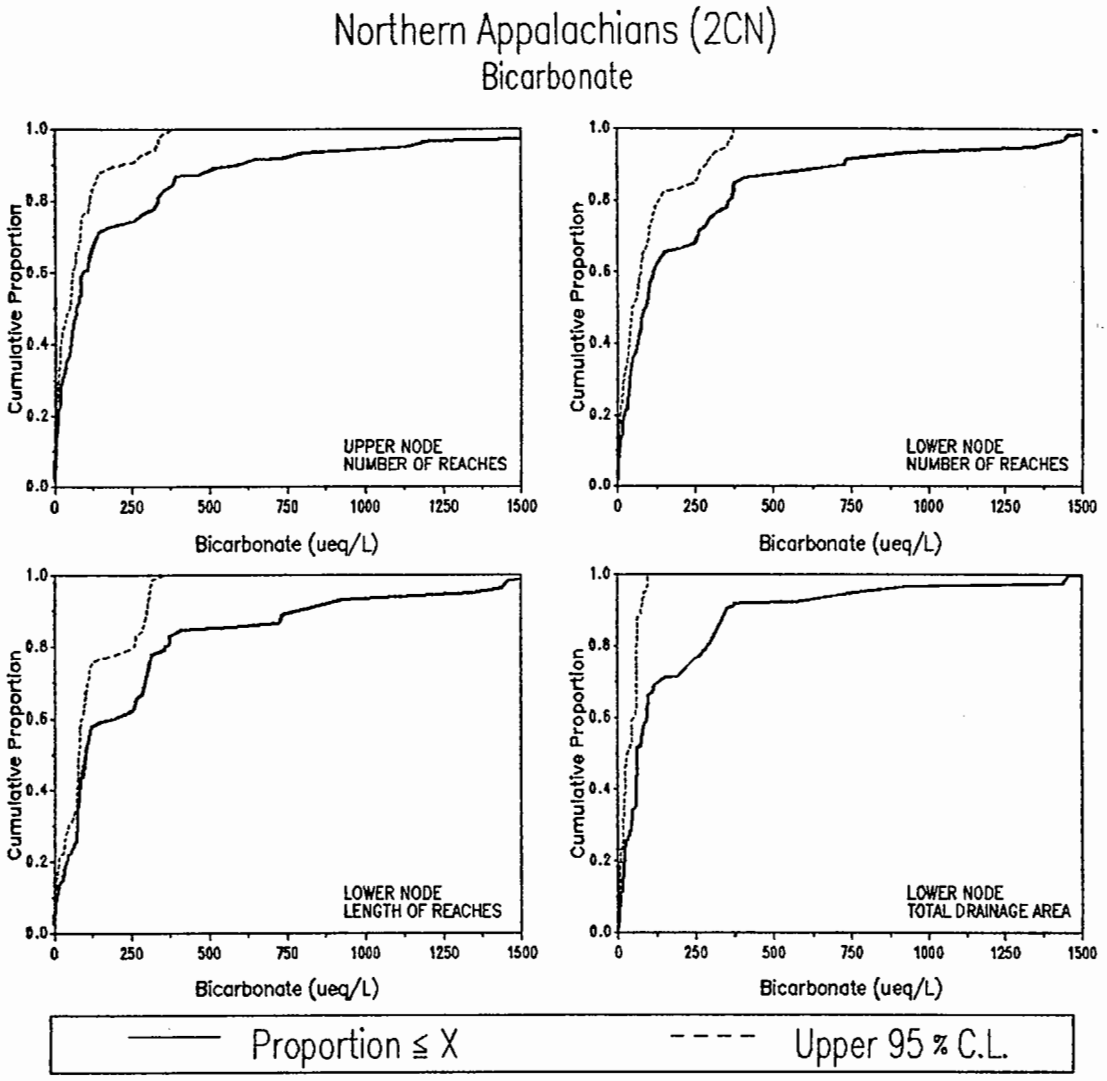


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (ueq/L)	26.35	77.18	76.62	118.39
40 % (ueq/L)	100.34	164.54	168.28	293.05
MEDIAN (ueq/L)	131.54	199.37	243.44	390.56
60 % (ueq/L)	182.42	301.06	350.55	397.57
80 % (ueq/L)	560.76	635.51	694.02	866.57

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	0.28	3550.26	361.64	574.50
LOWER	56	1.95	3789.08	438.60	605.78

Figure 5-178. Population estimates for Bicarbonate Ion (HCO316) for the Poconos/Catskills subregion (1D).

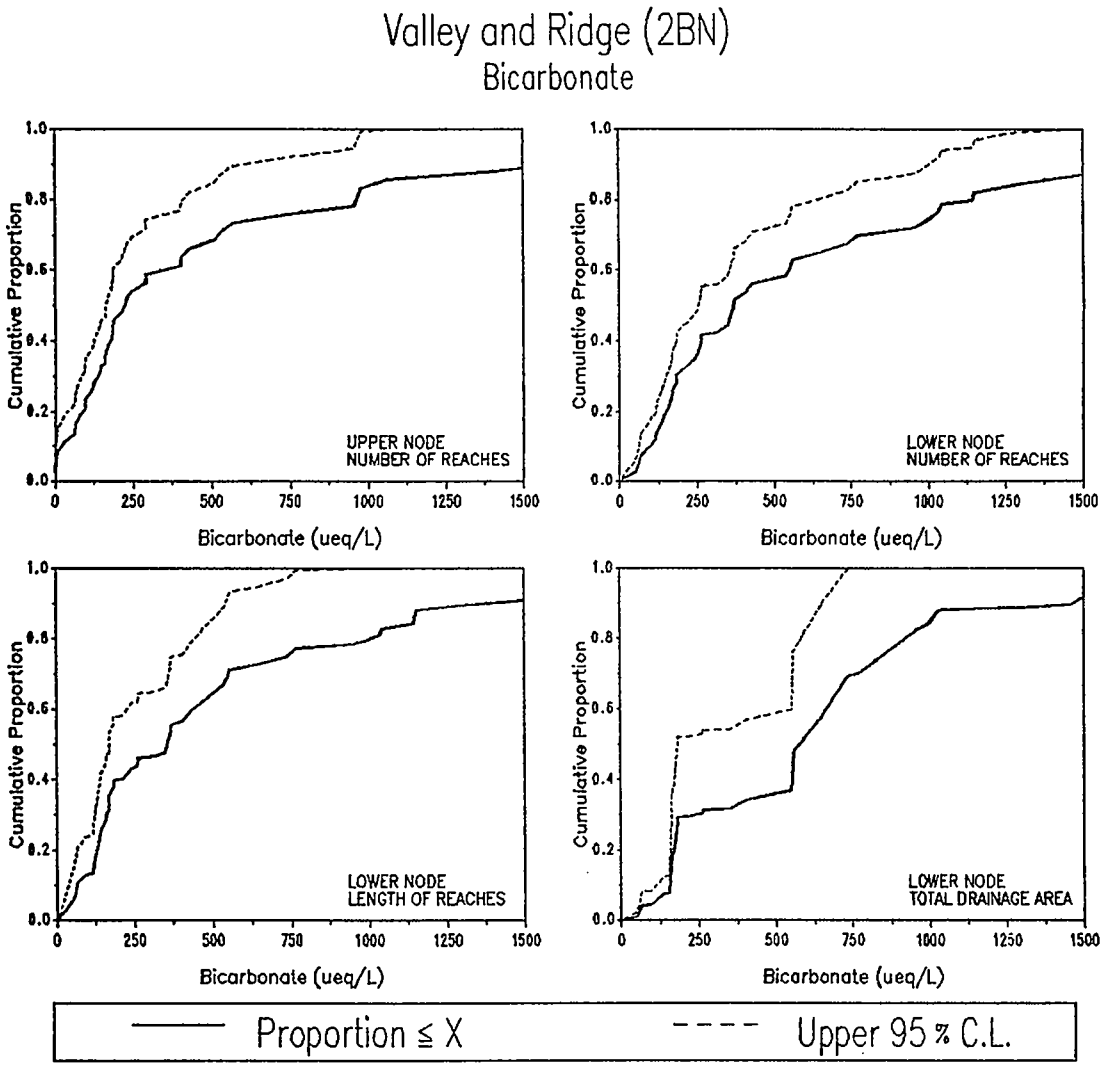


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (ueq/L)	11.26	21.76	39.88	21.28
40 % (ueq/L)	53.60	63.66	81.88	58.62
MEDIAN (ueq/L)	67.80	89.21	101.32	61.35
60 % (ueq/L)	89.59	116.33	193.87	93.67
80 % (ueq/L)	334.29	358.11	358.31	289.51

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	0.17	2187.02	237.59	435.56
LOWER	61	0.32	1732.51	255.68	390.57

Figure 5-179. Population estimates for Bicarbonate Ion (HCO316) for the Northern Appalachians subregion (2Cn).

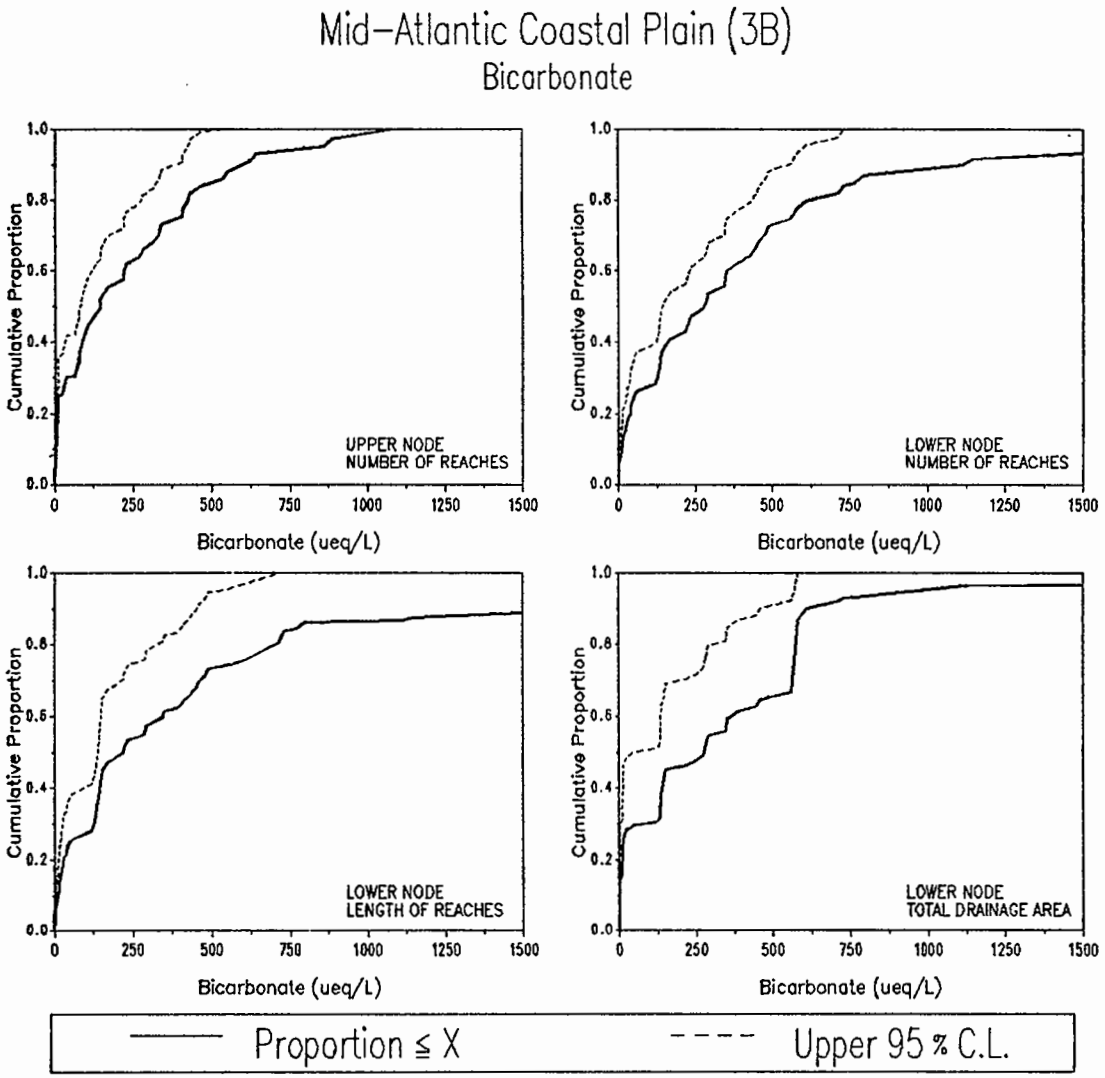


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (ueq/L)	88.79	151.16	129.18	170.08
40 % (ueq/L)	175.50	262.56	201.78	552.06
MEDIAN (ueq/L)	221.28	366.67	357.89	577.91
60 % (ueq/L)	350.89	546.47	439.96	666.63
80 % (ueq/L)	966.60	1147.22	1009.88	922.43

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	0.68	4675.11	610.55	892.81
LOWER	47	7.99	4775.78	774.89	954.34

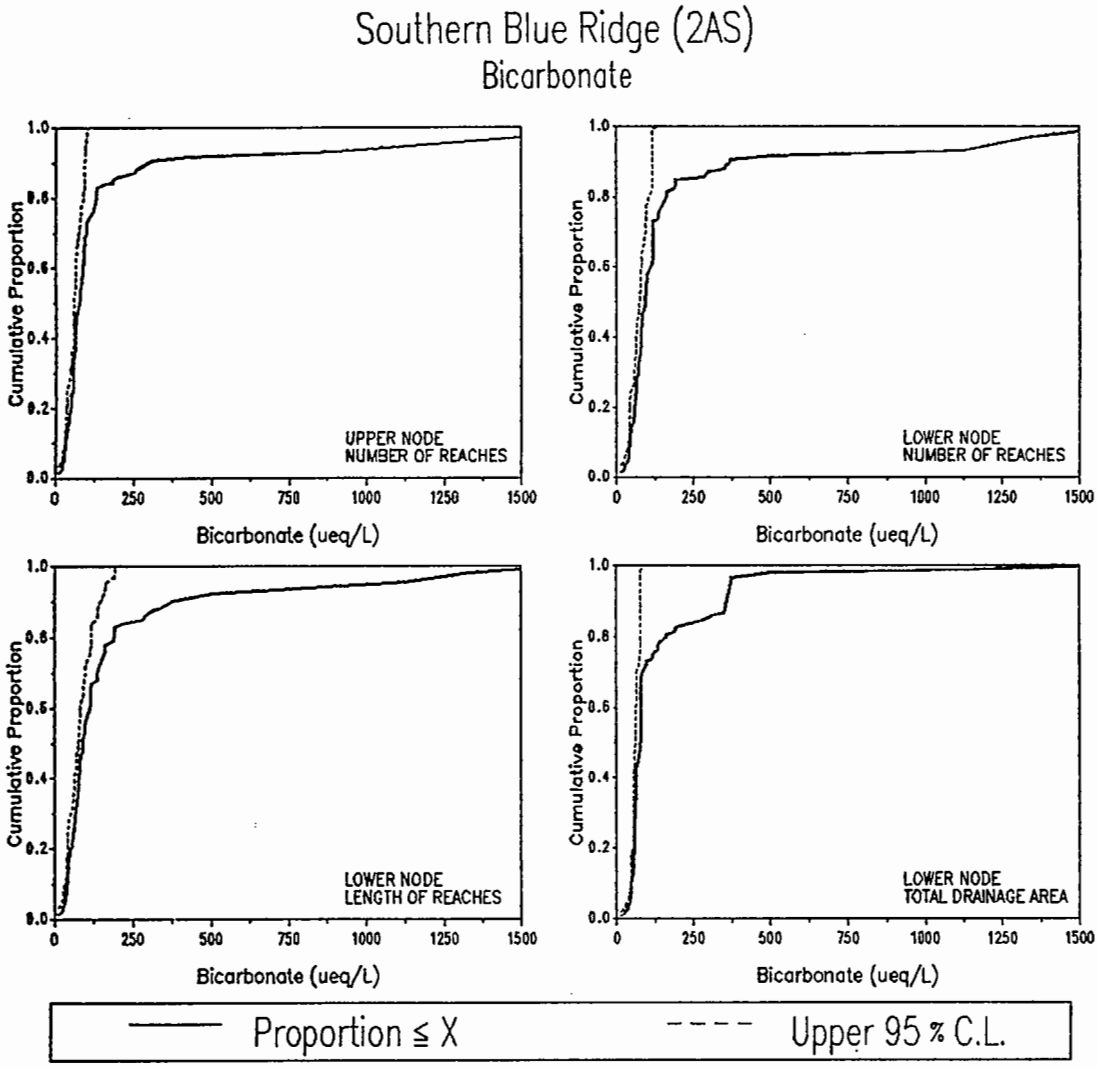
Figure 5-180. Population estimates for Bicarbonate Ion (HCO316) for the Valley and Ridge subregion (2Bn).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (ueq/L)	8.08	38.91	28.19	12.31
40 % (ueq/L)	86.63	162.19	144.74	138.50
MEDIAN (ueq/L)	144.38	275.86	219.83	274.44
60 % (ueq/L)	220.94	351.72	345.85	364.99
80 % (ueq/L)	426.08	623.48	704.79	575.82

SUMMARY STATISTICS (ueq/L)					
	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	0.19	1082.36	247.33	271.24
LOWER	58	0.23	2108.56	435.98	499.58

Figure 5-181. Population estimates for Bicarbonate Ion (HCO316) for the Mid-Atlantic Coastal Plain subregion (3B).

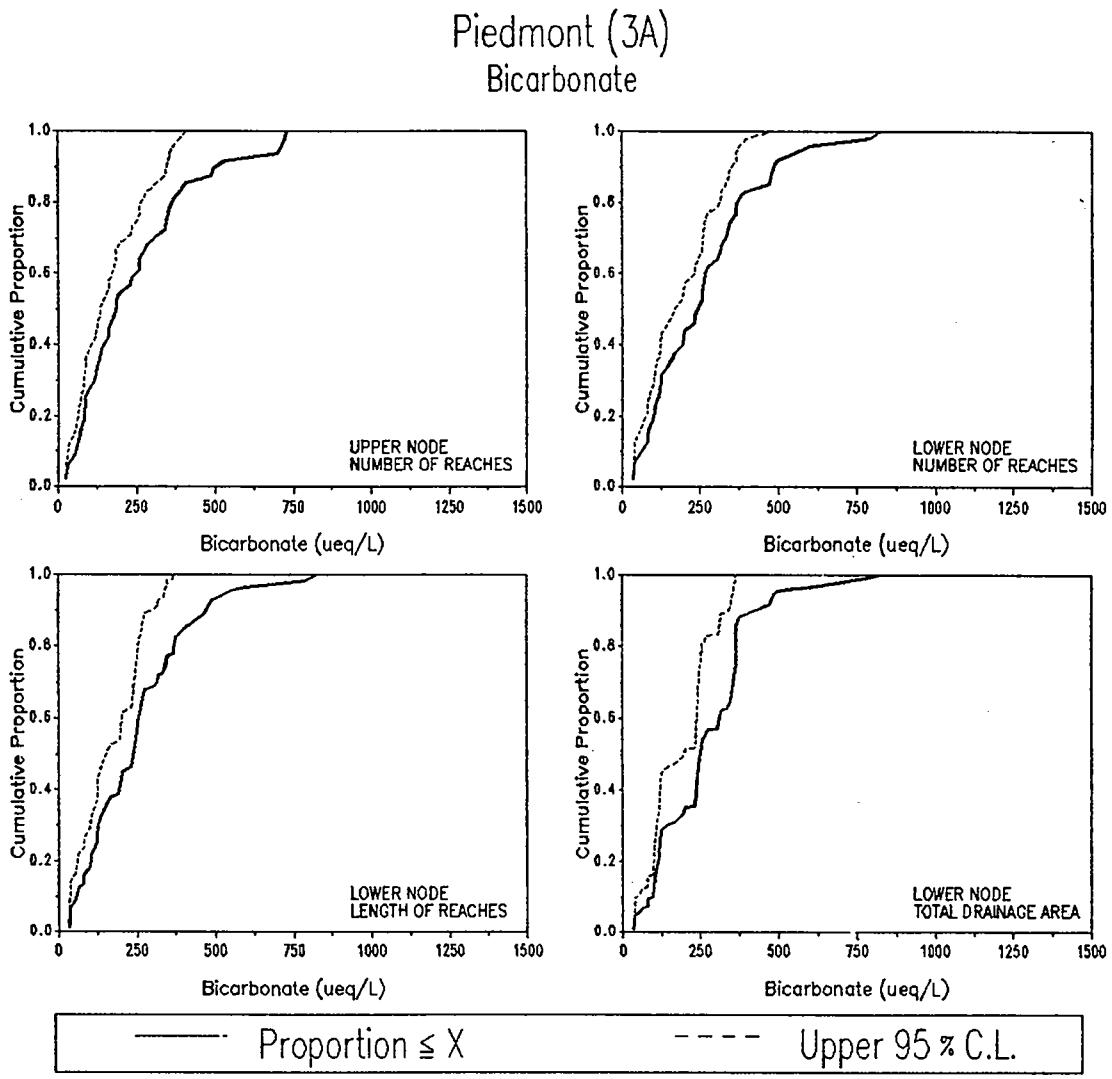


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (ueq/L)	50.30	60.29	53.24	56.86
40 % (ueq/L)	63.22	78.68	78.68	64.66
MEDIAN(ueq/L)	74.61	91.16	89.98	77.52
60 % (ueq/L)	89.16	110.53	115.16	78.65
80 % (ueq/L)	132.43	161.72	191.52	162.58

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	12.17	2033.22	214.31	433.77
LOWER	54	11.65	1646.23	219.20	375.08

Figure 5-182.Population estimates for Bicarbonate Ion (HCO316) for the Southern Blue Ridge subregion (2As).

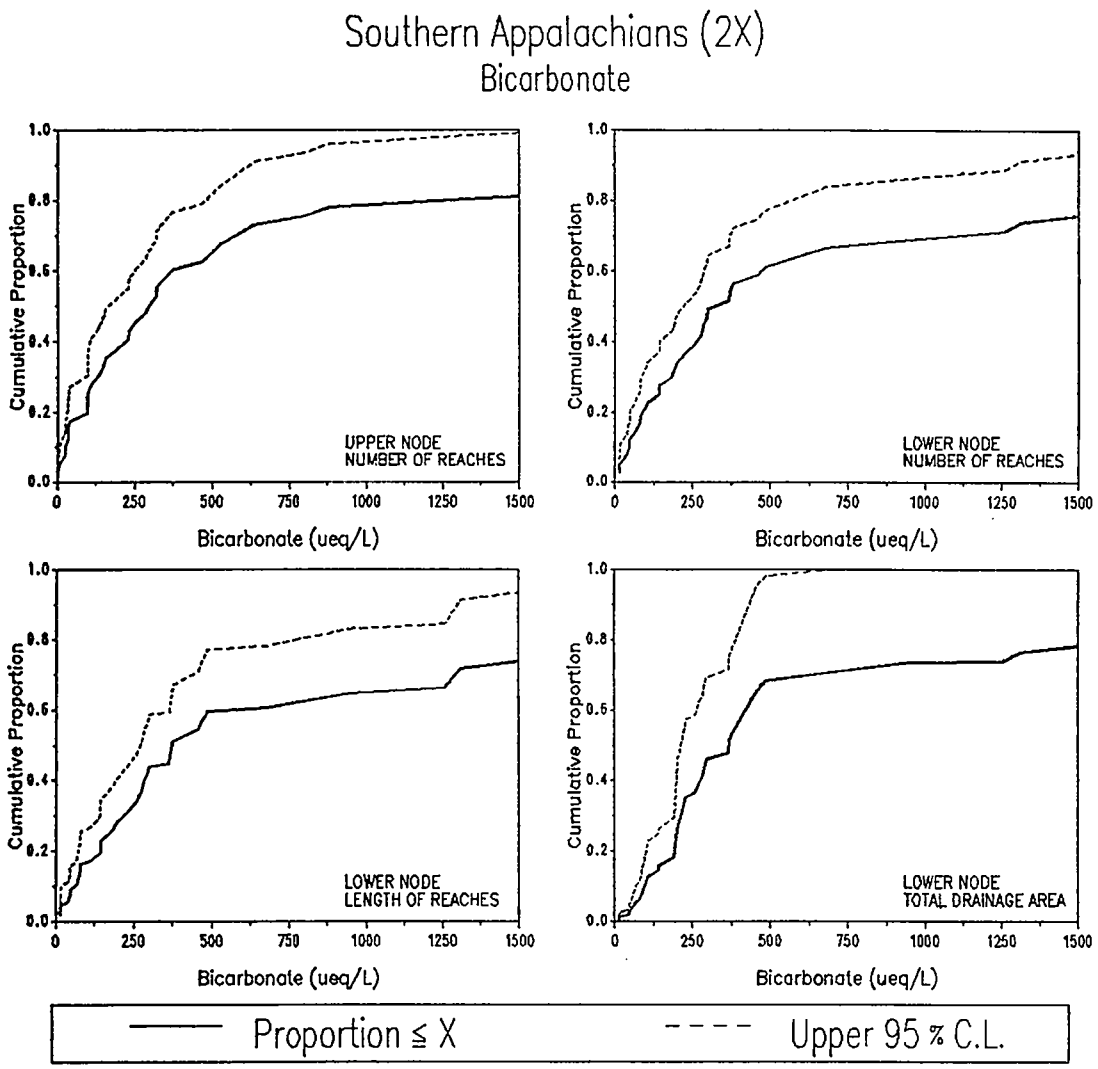


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (ueq/L)	83.12	100.86	103.69	115.42
40 % (ueq/L)	148.71	193.44	196.92	238.61
MEDIAN (ueq/L)	183.90	243.06	238.29	249.83
60 % (ueq/L)	247.78	266.16	255.24	312.27
80 % (ueq/L)	364.76	371.83	369.08	365.82

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	27.71	732.61	249.47	192.02
LOWER	47	34.69	823.45	267.25	183.34

Figure 5-183. Population estimates for Bicarbonate Ion (HCO316) for the Piedmont subregion (3A).



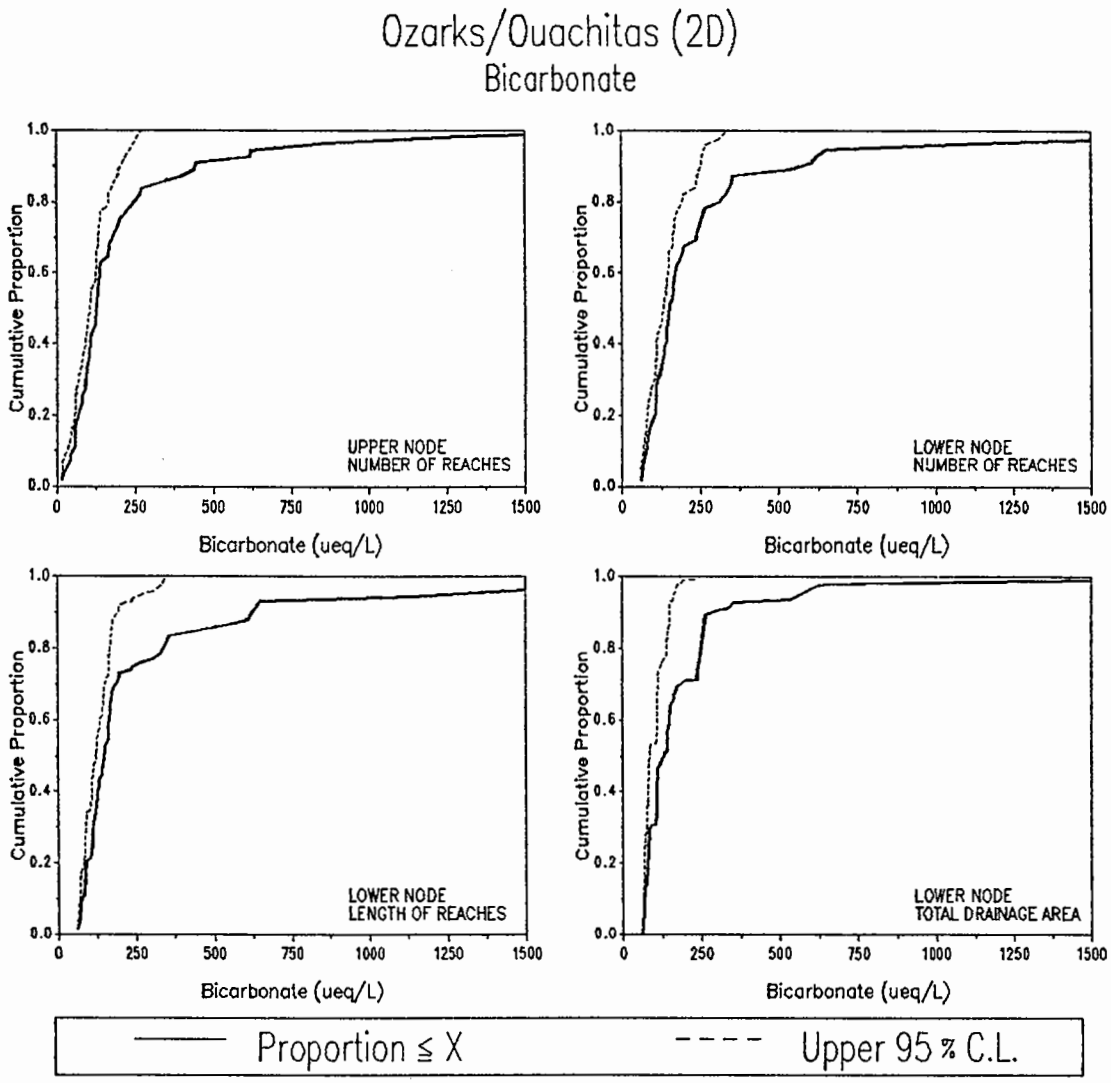
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (ueq/L)	96.40	86.97	143.29	193.93
40 % (ueq/L)	222.32	263.14	286.80	275.31
MEDIAN (ueq/L)	296.50	323.73	376.83	367.14
60 % (ueq/L)	369.39	473.46	584.88	422.69
80 % (ueq/L)	1268.31	2016.47	1947.20	1820.38

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	3.81	3694.84	710.76	899.85
LOWER	40	15.36	3808.00	928.47	1092.94

Figure 5-184. Population estimates for Bicarbonate Ion (HCO316) for the Southern Appalachians subregion (2X).

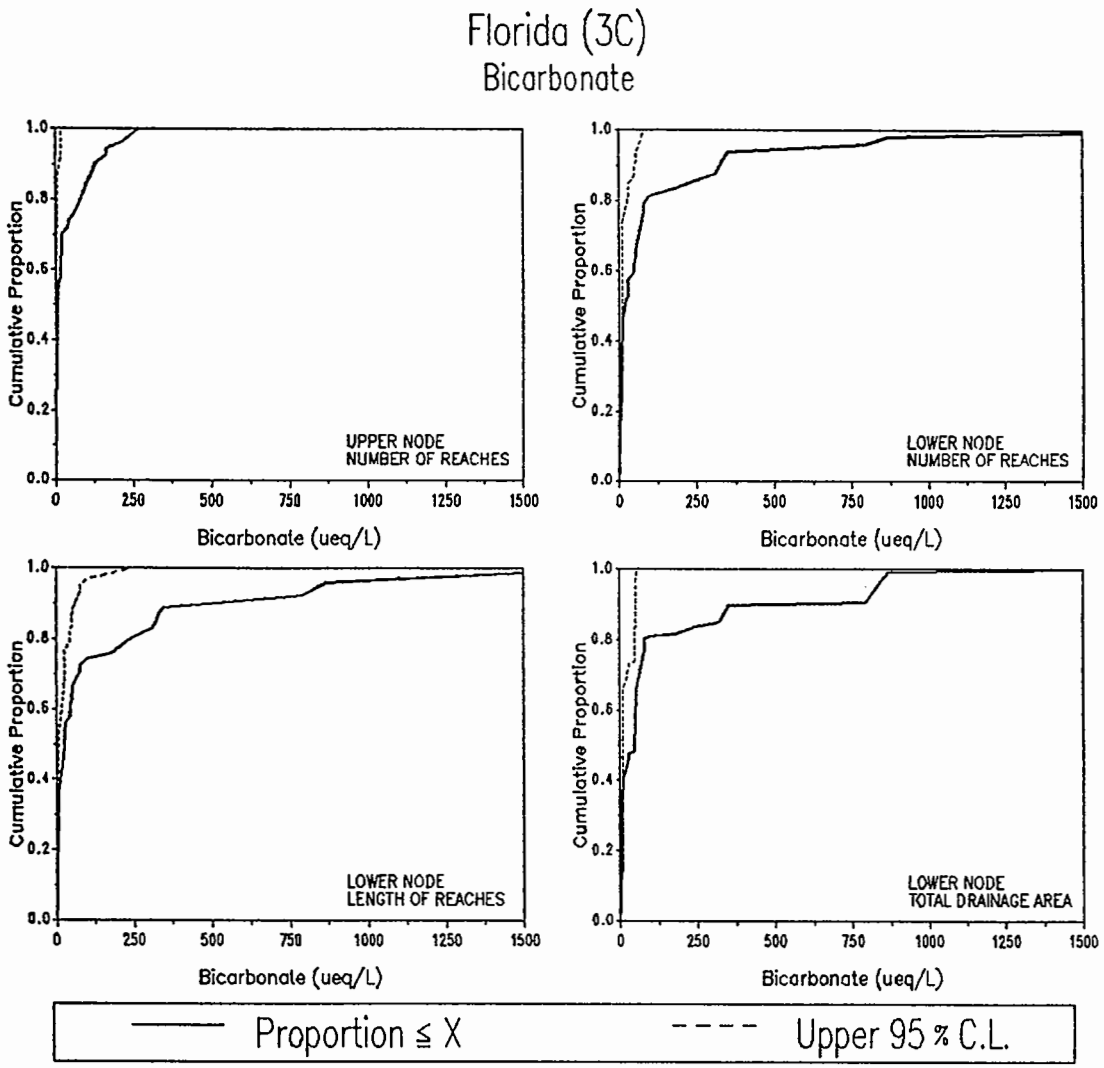


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (ueq/L)	67.66	103.13	90.54	79.86
40 % (ueq/L)	108.41	138.18	127.03	110.70
MEDIAN (ueq/L)	126.87	150.71	147.57	130.08
60 % (ueq/L)	137.65	169.34	164.98	150.21
80 % (ueq/L)	249.33	311.92	340.98	249.41

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	17.99	1927.38	229.55	318.35
LOWER	48	59.93	2797.90	290.61	438.62

Figure 5-185. Population estimates for Bicarbonate Ion (HCO316) for the Ozarks/Ouachitas subregion (2D).



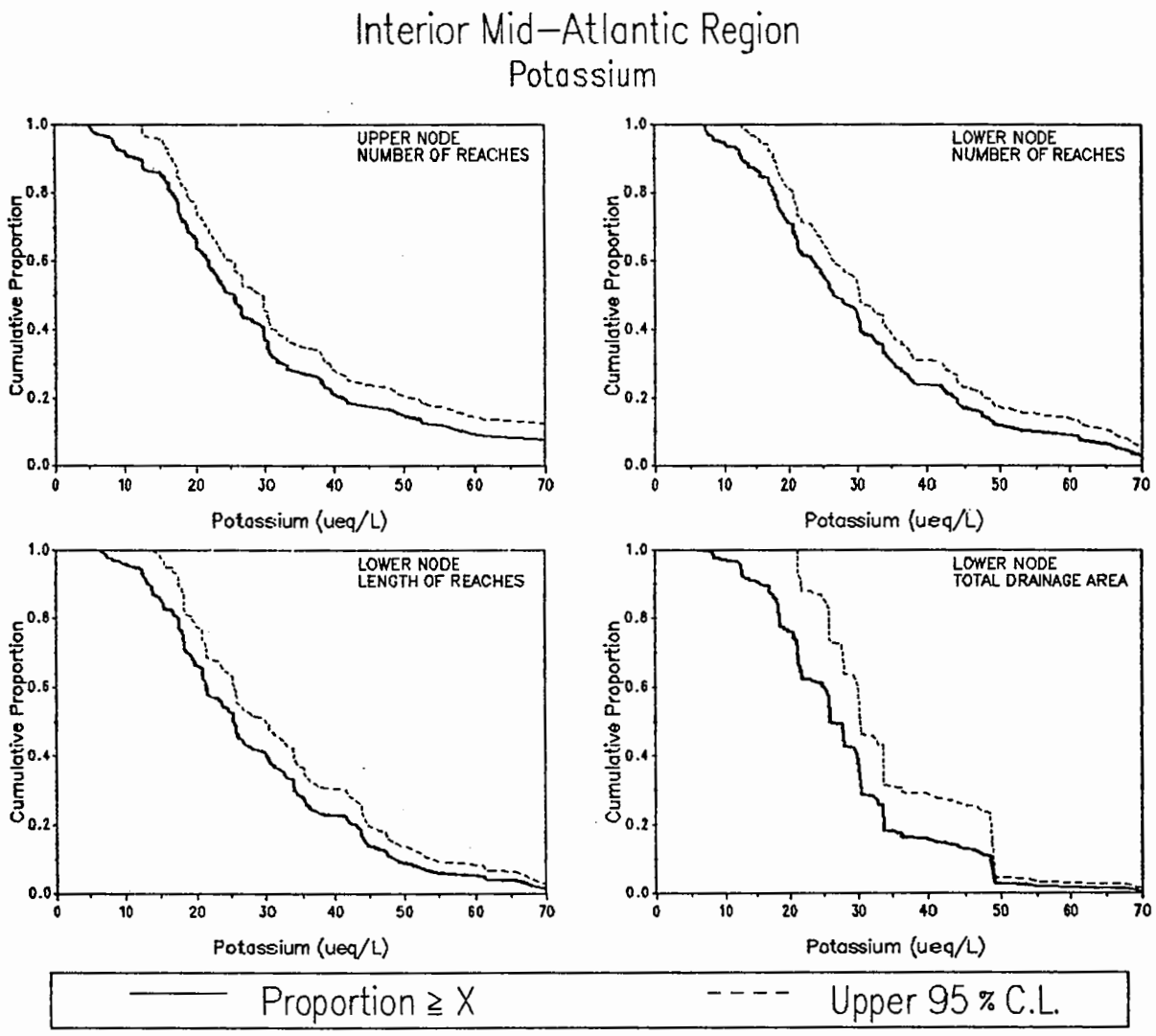
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (ueq/L)	0.10	3.70	3.89	7.12
40 % (ueq/L)	4.90	8.18	15.38	8.69
MEDIAN (ueq/L)	6.08	17.57	27.43	47.06
60 % (ueq/L)	18.45	46.20	46.64	50.45
80 % (ueq/L)	82.18	86.73	239.73	78.96

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	0.09	266.41	44.07	68.20
LOWER	34	0.16	1784.23	128.99	299.65

Figure 5-186. Population estimates for Bicarbonate Ion (HCO316) for Florida subregion (3C).

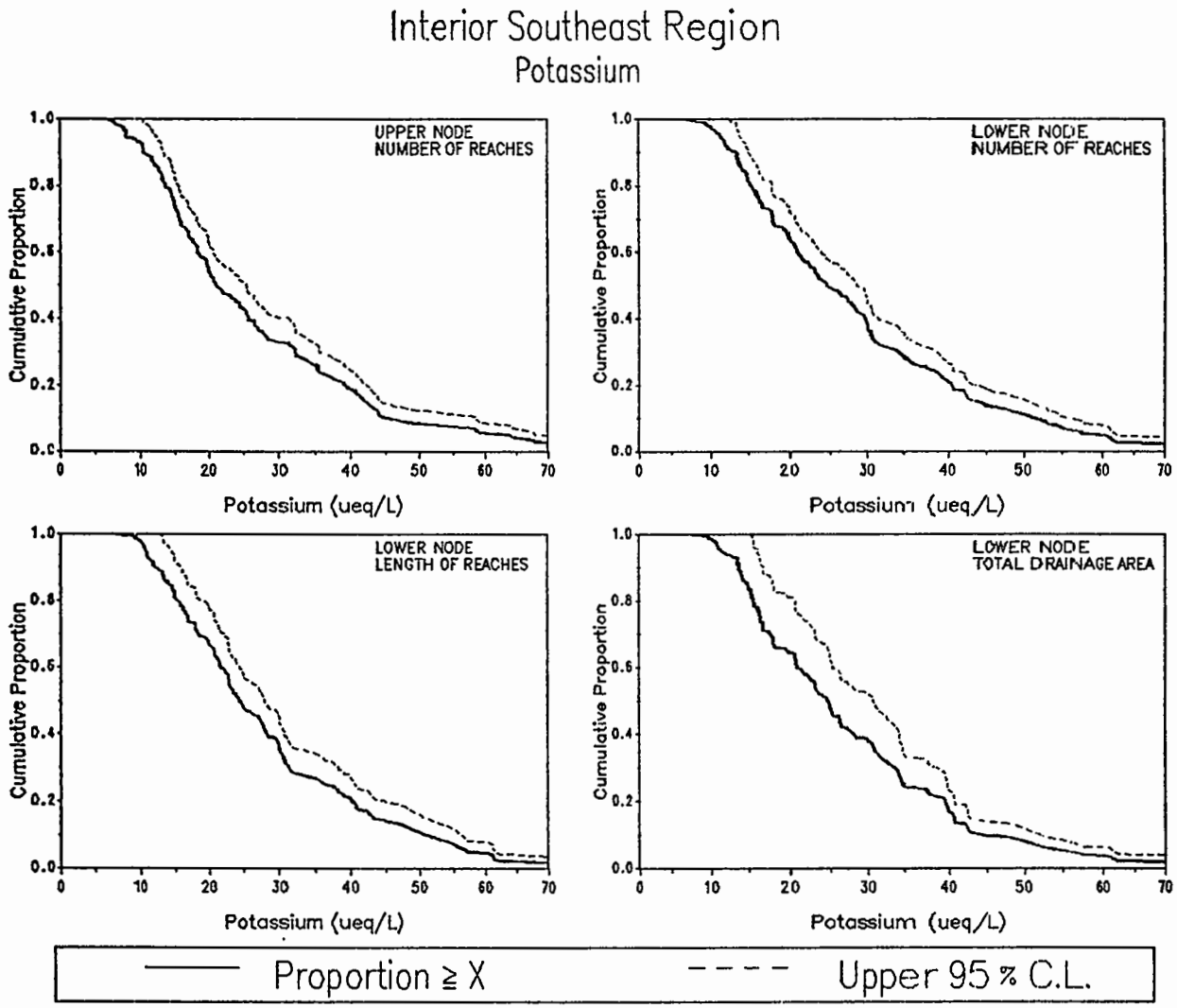


	POPULATION ESTIMATES			
	UPPER NODE		LOWER NODE	
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (ueq/L)	40.38	43.24	42.27	33.53
40 % (ueq/L)	29.55	30.36	29.95	29.21
MEDIAN (ueq/L)	24.91	26.44	25.32	25.82
60 % (ueq/L)	21.58	23.39	21.30	24.70
80 % (ueq/L)	16.64	17.61	17.39	18.25

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	4.24	206.35	30.34	20.53
LOWER	164	6.60	77.99	30.39	16.07

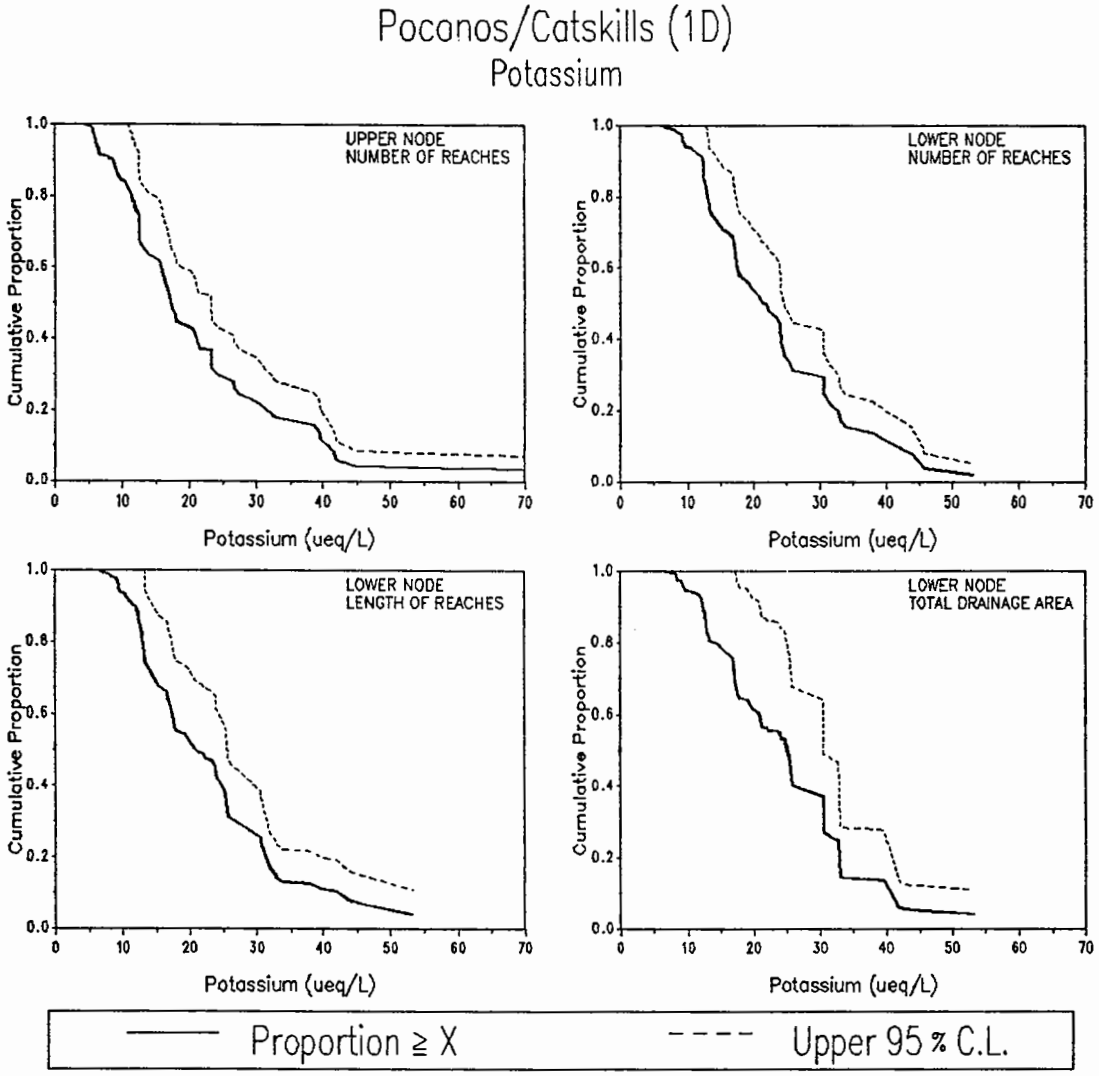
Figure 5-187. Population estimates for Potassium (K16) for the Mid-Atlantic Region.



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (ueq/L)	39.08	40.26	39.85	39.01
40 % (ueq/L)	25.69	29.56	27.98	27.71
MEDIAN (ueq/L)	20.74	24.31	24.28	24.42
60 % (ueq/L)	18.18	20.76	21.47	20.72
80 % (ueq/L)	13.82	15.22	15.22	15.61

SUMMARY STATISTICS (ueq/L)					
	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	6.14	130.02	27.09	18.72
LOWER	189	6.62	100.23	28.53	15.66

Figure 5-188. Population estimates for Potassium (K16) for the Southeastern Region.



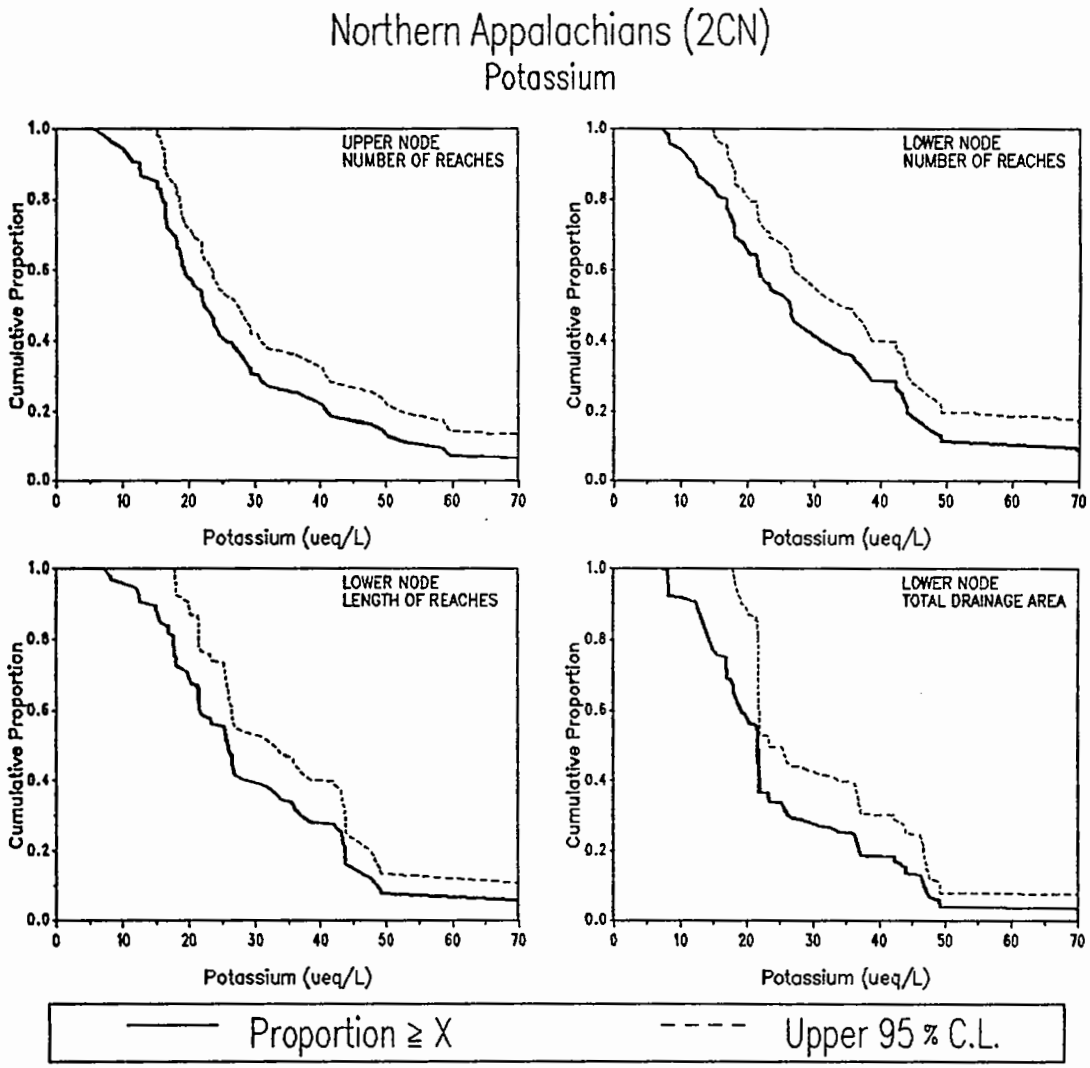
POPULATION ESTIMATES

	UPPER NODE		LOWER NODE	
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (ueq/L)	28.73	31.52	30.69	32.24
40 % (ueq/L)	20.81	23.79	24.08	25.43
MEDIAN(ueq/L)	17.09	20.99	19.87	24.33
60 % (ueq/L)	15.34	17.44	17.22	19.95
80 % (ueq/L)	10.91	12.94	12.96	13.37

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	4.24	206.35	23.55	27.67
LOWER	56	6.60	53.19	23.02	10.76

Figure 5-189. Population estimates for Potassium (K16) for the Poconos/Catskills subregion (1D).



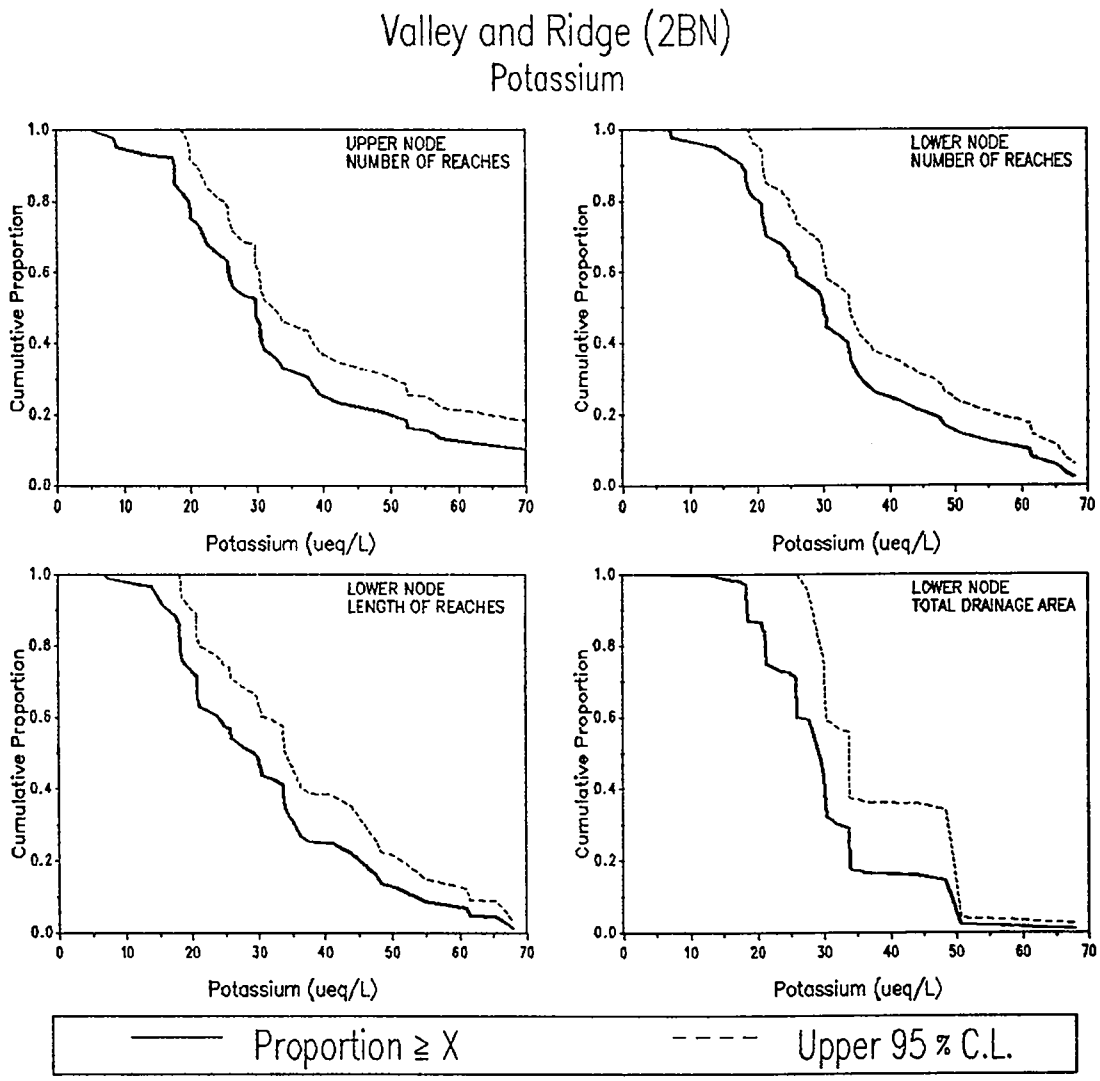
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (ueq/L)	40.25	43.76	43.41	36.25
40 % (ueq/L)	24.58	28.26	27.17	21.64
MEDIAN (ueq/L)	21.95	25.71	24.74	21.60
60 % (ueq/L)	19.04	21.49	21.53	18.04
80 % (ueq/L)	15.70	16.25	17.04	12.50

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	5.54	87.45	28.47	19.03
LOWER	61	7.13	77.99	30.62	18.37

Figure 5-190. Population estimates for Potassium (K16) for the Northern Appalachians subregion (2Cn).



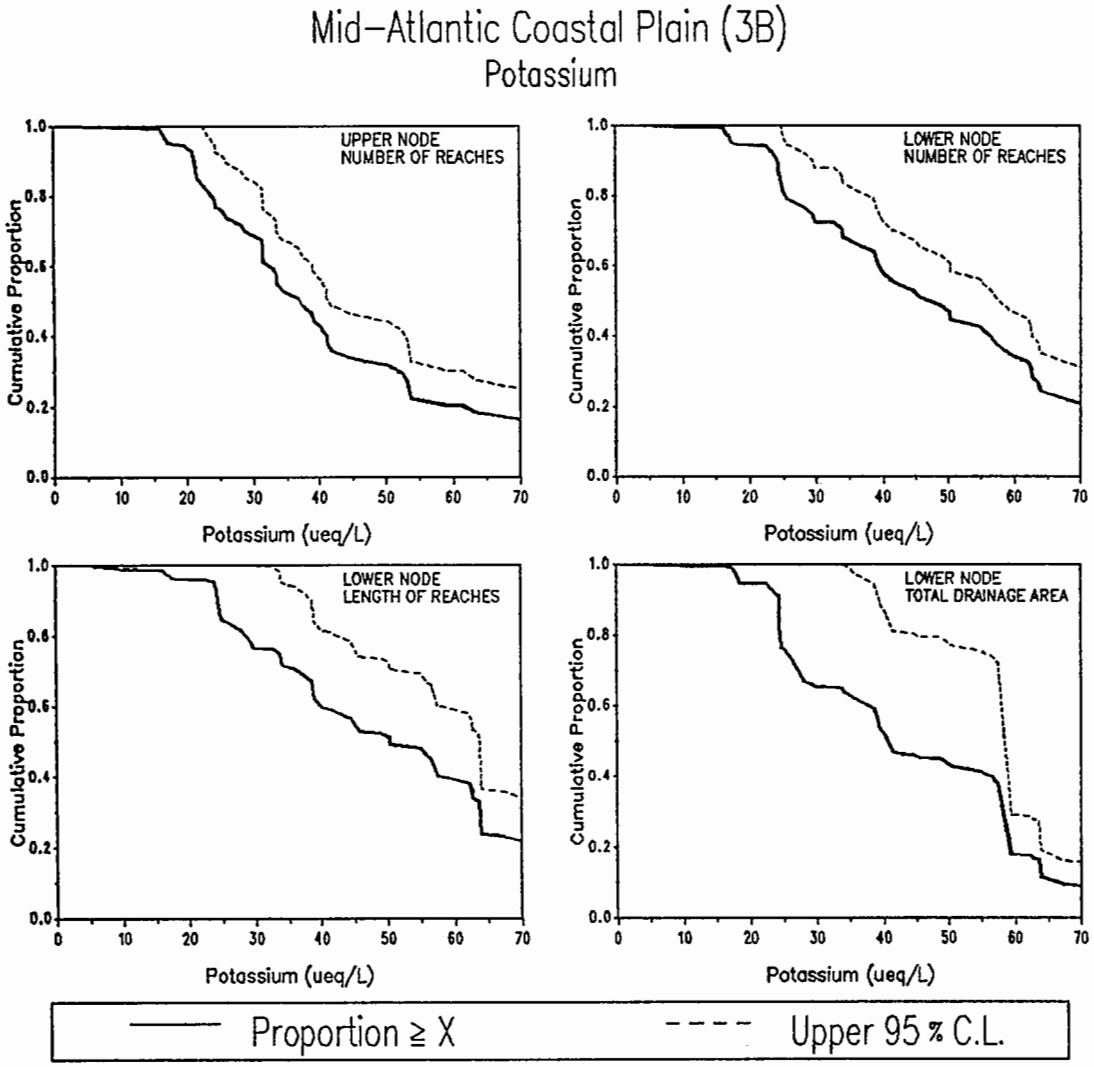
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (ueq/L)	44.27	43.00	42.44	33.36
40 % (ueq/L)	30.38	32.13	32.90	29.95
MEDIAN (ueq/L)	29.65	29.75	27.65	27.47
60 % (ueq/L)	25.67	25.25	21.79	25.75
80 % (ueq/L)	18.76	19.02	18.11	20.89

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	5.02	83.60	33.26	18.78
LOWER	47	6.96	67.97	31.95	15.12

Figure 5-191. Population estimates for Potassium (K16) for the Valley and Ridge subregion (2Bn).

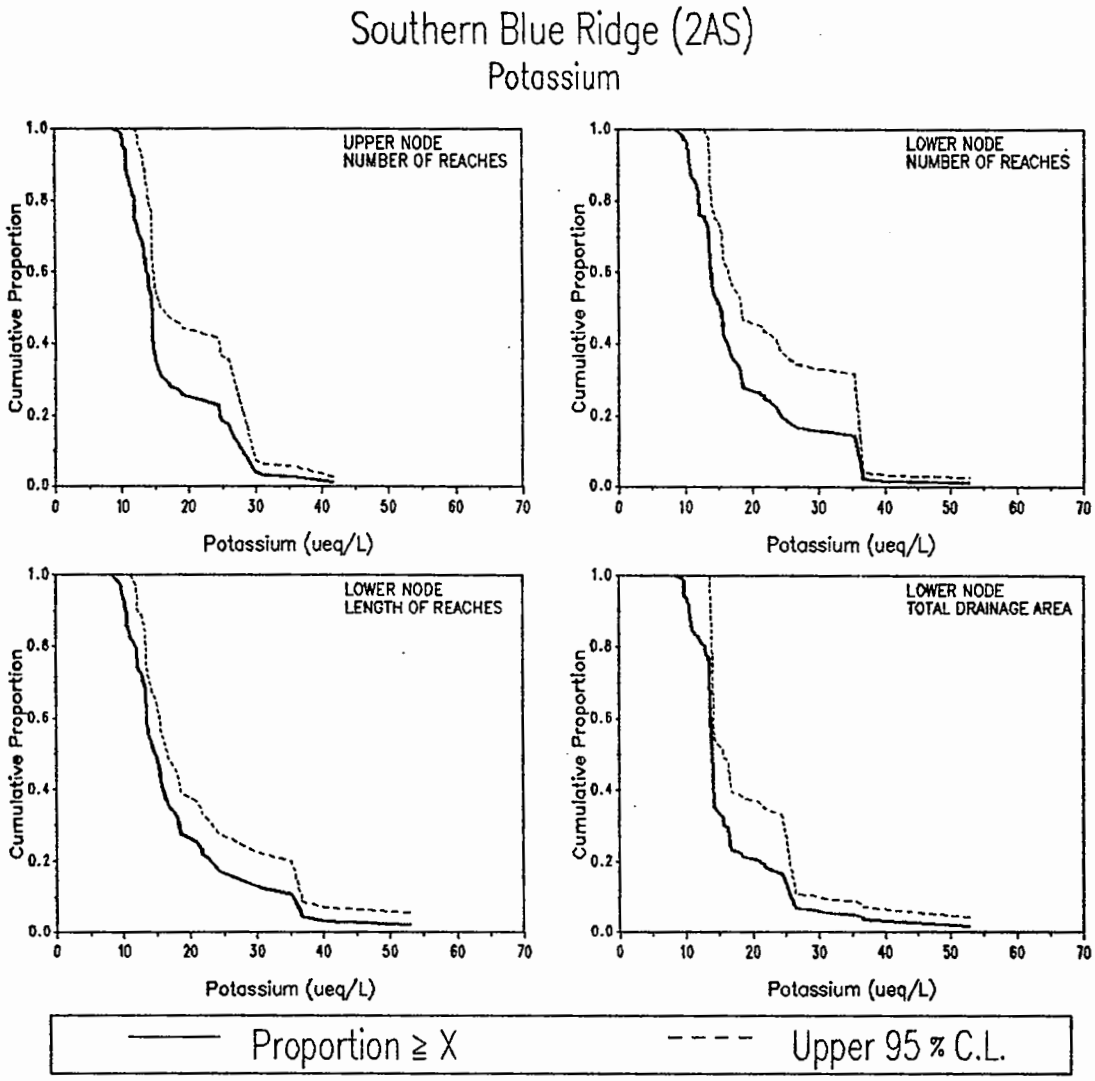


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (ueq/L)	59.37	67.69	71.75	57.31
40 % (ueq/L)	40.34	55.38	56.77	55.03
MEDIAN (ueq/L)	35.50	44.99	49.72	39.63
60 % (ueq/L)	31.47	38.91	39.30	35.20
80 % (ueq/L)	22.95	24.84	26.74	24.28

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	1.05	222.62	44.23	29.16
LOWER	58	5.46	149.23	50.16	25.79

Figure 5-192. Population estimates for Potassium (K16) for the Mid-Atlantic Coastal Plain subregion (3B).



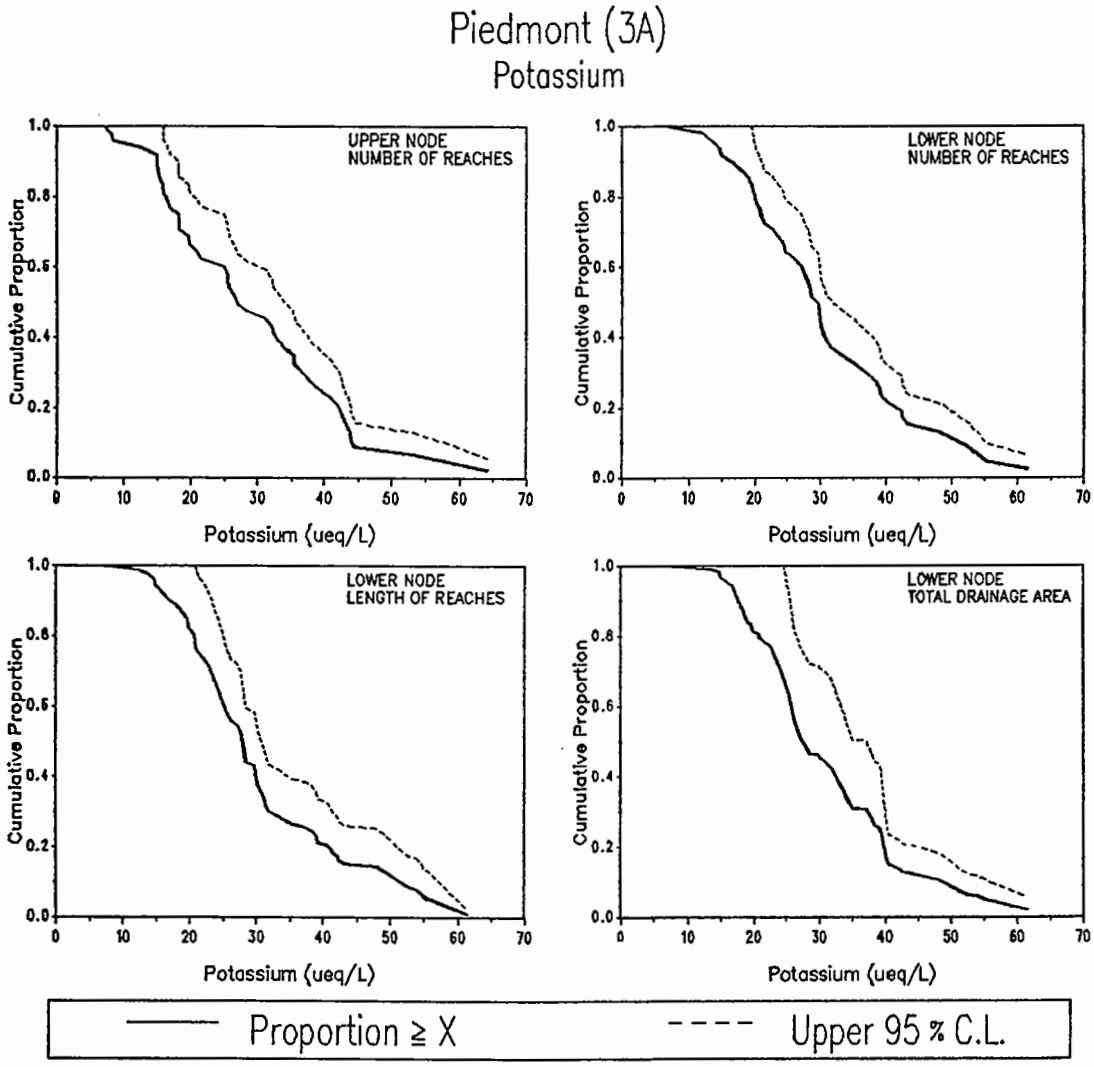
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (ueq/L)	24.40	23.32	22.13	20.44
40 % (ueq/L)	14.54	15.75	15.66	13.85
MEDIAN (ueq/L)	14.23	14.77	14.54	13.83
60 % (ueq/L)	13.52	13.55	13.51	13.52
80 % (ueq/L)	11.73	11.70	11.40	12.48

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	8.59	41.68	16.57	6.53
LOWER	54	8.41	52.84	18.25	8.76

Figure 5-193. Population estimates for Potassium (K16) for the Southern Blue Ridge subregion (2As).

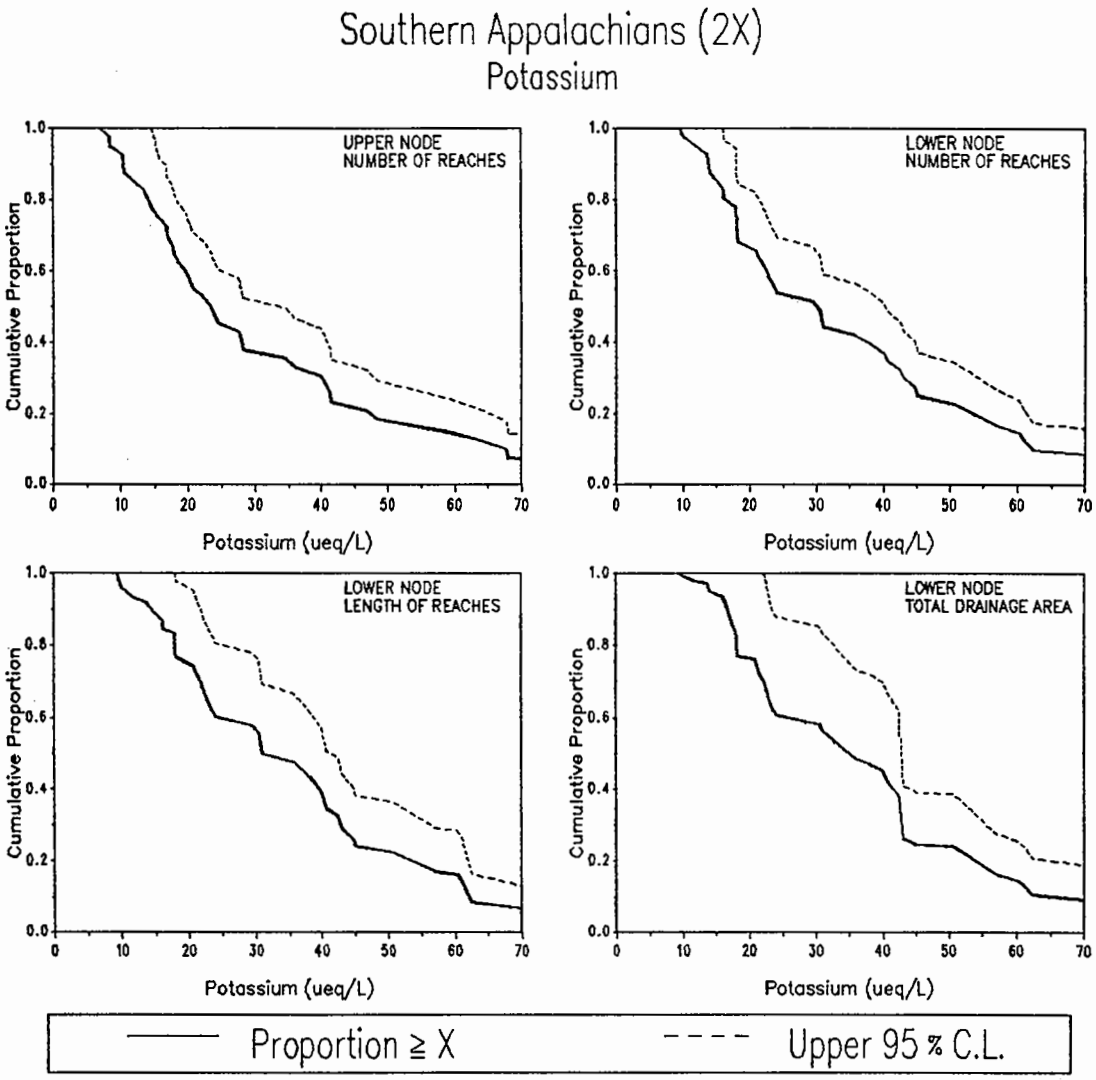


	POPULATION ESTIMATES			
	UPPER NODE		LOWER NODE	
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (ueq/L)	41.26	39.92	39.39	39.07
40 % (ueq/L)	32.10	30.25	29.78	31.10
MEDIAN (ueq/L)	26.36	28.46	27.38	26.78
60 % (ueq/L)	21.83	26.16	24.50	24.59
80 % (ueq/L)	15.88	19.67	20.16	20.35

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	7.08	64.21	28.81	13.34
LOWER	47	6.62	61.44	30.31	12.29

Figure 5-194.Population estimates for Potassium (K16) for the Piedmont subregion (3A).

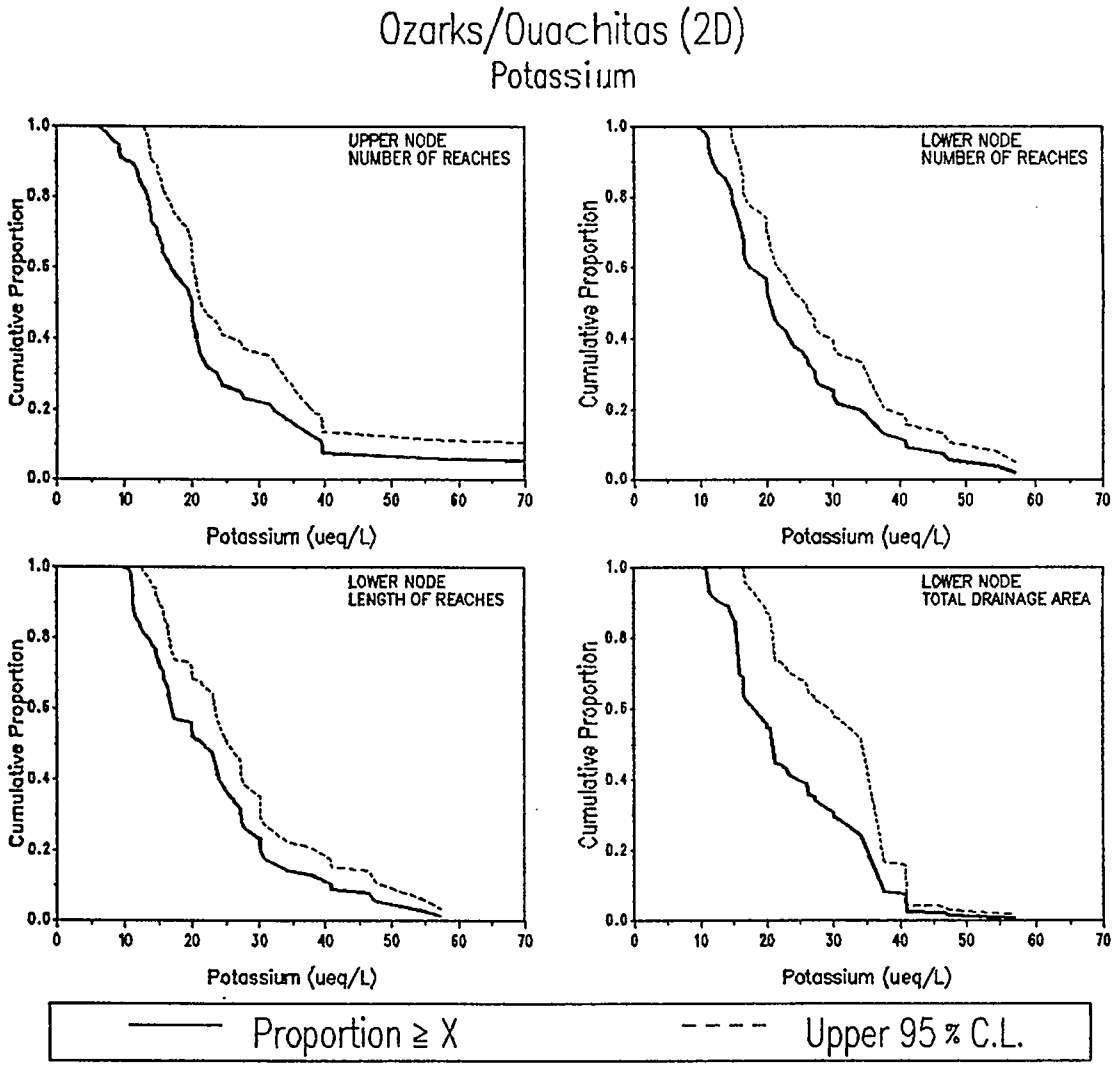


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (ueq/L)	43.21	47.59	47.53	47.94
40 % (ueq/L)	27.67	34.83	37.83	40.29
MEDIAN(ueq/L)	22.34	27.44	30.41	30.84
60 % (ueq/L)	18.59	21.67	23.37	23.57
80 % (ueq/L)	12.69	16.04	17.89	17.93

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	6.88	115.06	31.07	23.09
LOWER	40	9.36	100.23	34.17	21.22

Figure 5-195. Population estimates for Potassium (K16) for the Southern Appalachians subregion (2X).



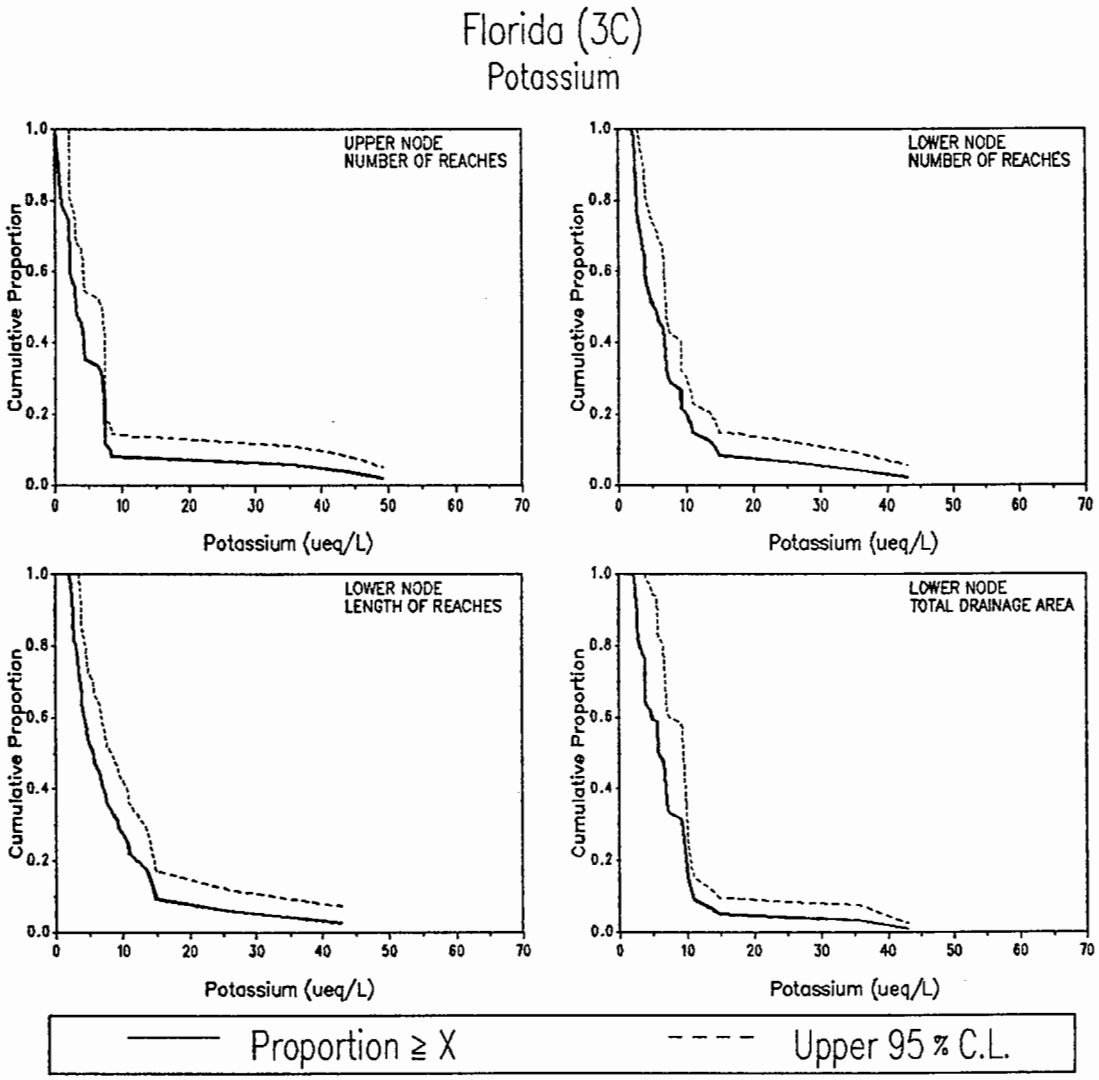
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (ueq/L)	30.84	30.63	29.75	31.59
40 % (ueq/L)	20.32	22.93	23.50	23.67
MEDIAN (ueq/L)	19.28	19.96	20.89	20.23
60 % (ueq/L)	15.55	16.74	16.49	16.88
80 % (ueq/L)	13.02	14.59	12.47	15.11

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	6.14	130.02	24.43	22.54
LOWER	48	9.54	57.20	23.43	11.23

Figure 5-196. Population estimates for Potassium (K16) for the Ozarks/Ouachitas subregion (2D).



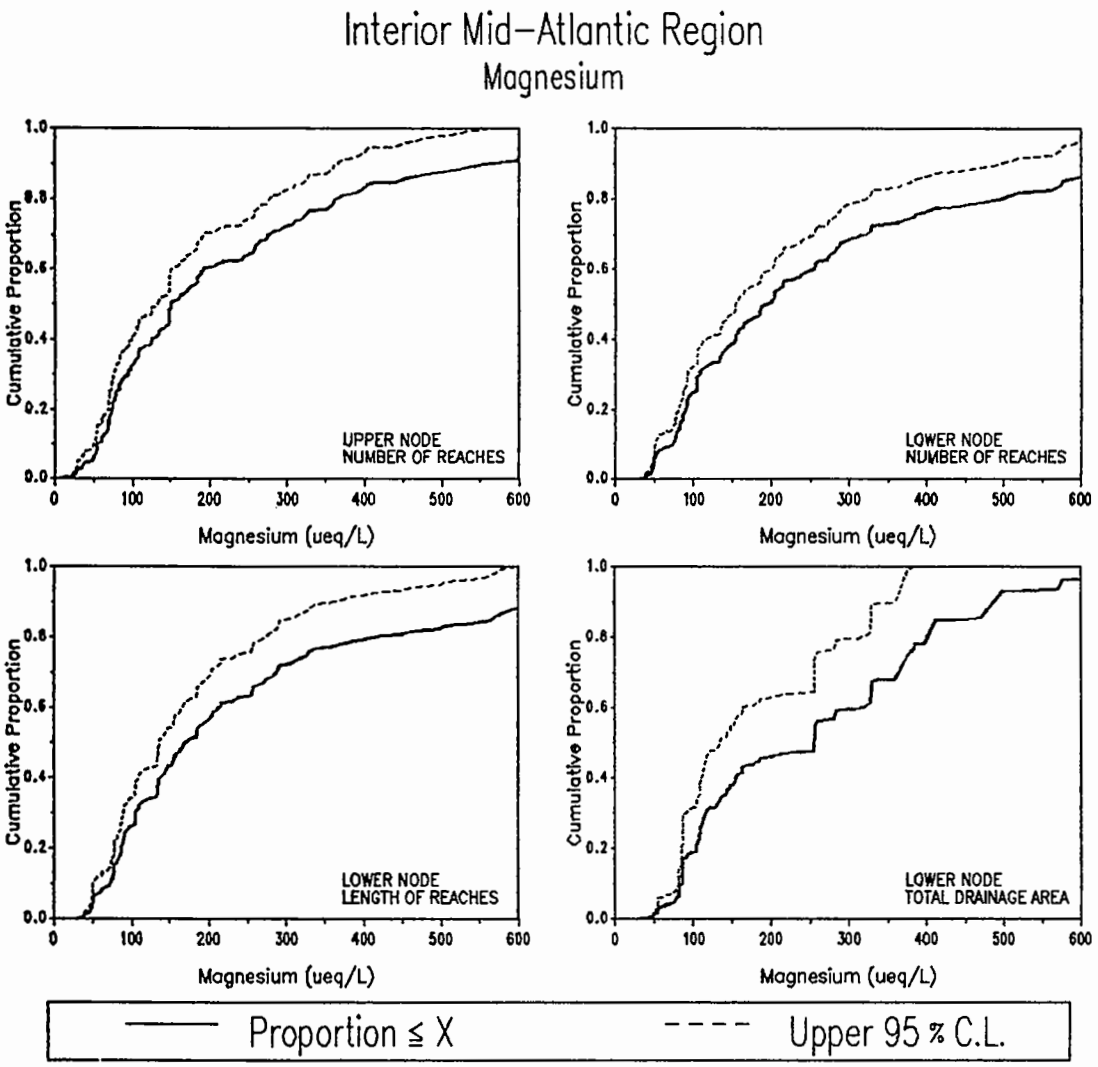
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (ueq/L)	7.25	9.26	10.80	9.25
40 % (ueq/L)	3.96	6.06	6.76	6.31
MEDIAN (ueq/L)	2.93	4.72	5.13	5.58
60 % (ueq/L)	2.09	3.75	3.96	4.48
80 % (ueq/L)	0.80	2.56	2.80	2.75

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	0.03	49.09	5.85	9.48
LOWER	34	1.94	42.96	7.46	7.97

Figure 5-197. Population estimates for Potassium (K16) for Florida subregion (3C).

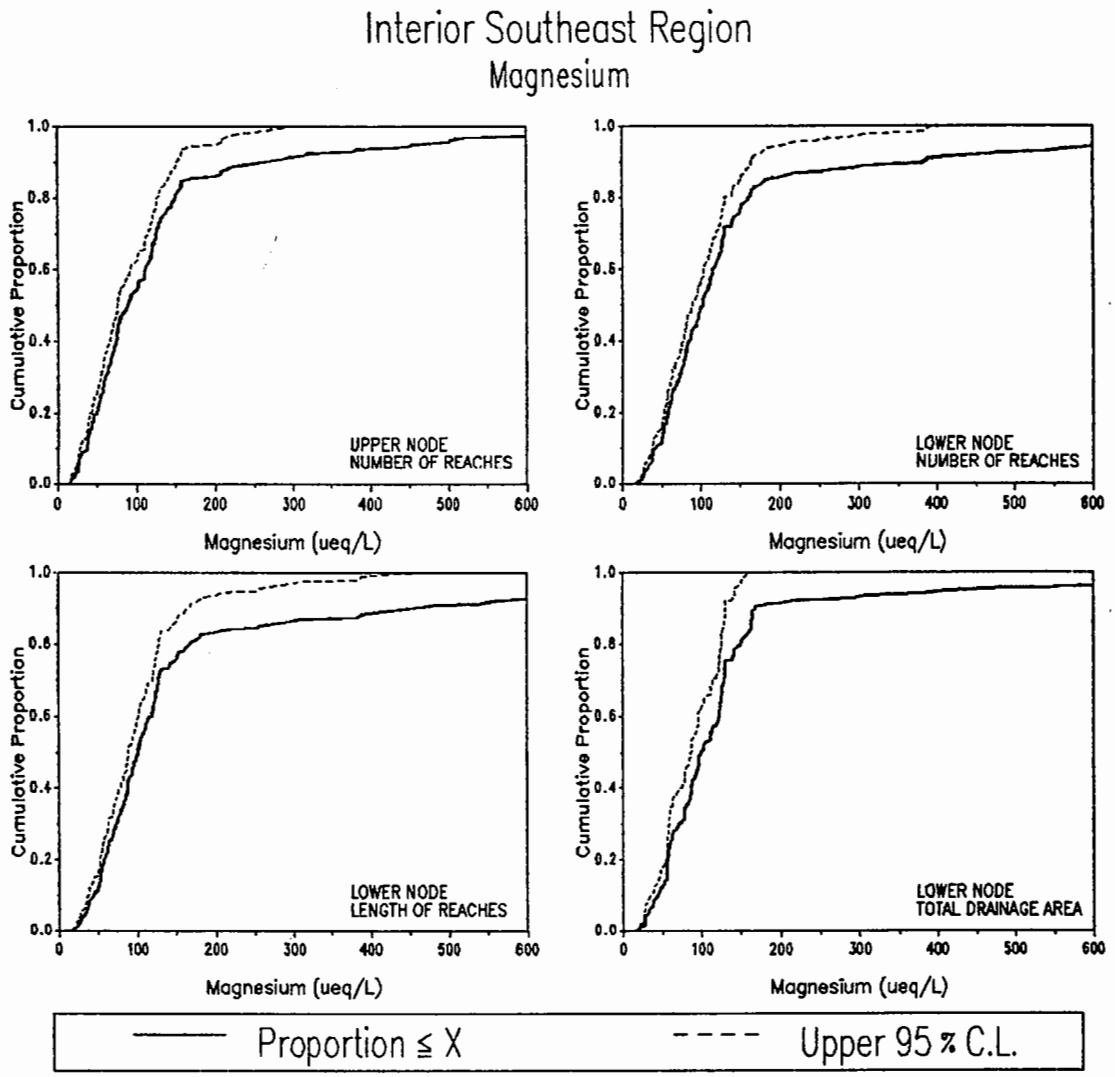


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (ueq/L)	72.86	89.84	86.57	104.26
40 % (ueq/L)	124.68	154.02	137.91	154.30
MEDIAN (ueq/L)	150.17	192.99	170.43	255.22
60 % (ueq/L)	192.50	252.96	212.99	317.21
80 % (ueq/L)	365.87	496.66	416.52	401.12

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	8.31	2393.77	265.30	297.12
LOWER	164	31.83	2451.35	317.45	341.40

Figure 5-198. Population estimates for Magnesium (MG16) for the Mid-Atlantic Region.



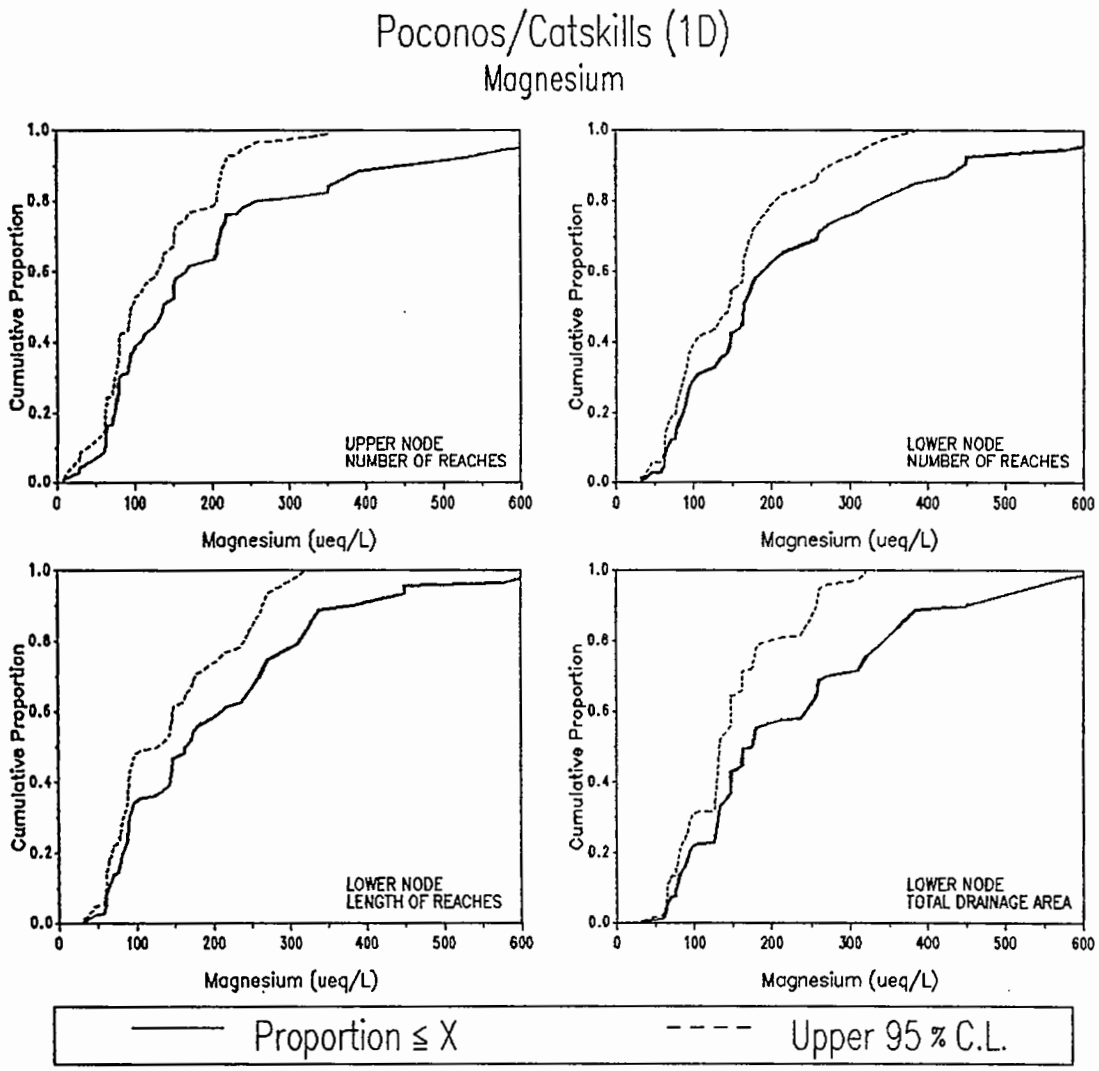
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (ueq/L)	49.43	57.75	58.11	56.91
40 % (ueq/L)	73.81	85.24	87.31	87.48
MEDIAN (ueq/L)	87.09	102.61	100.65	100.56
60 % (ueq/L)	111.45	115.35	118.77	122.62
80 % (ueq/L)	150.04	162.24	168.25	151.30

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	15.38	1834.40	147.99	229.74
LOWER	189	16.51	1949.56	179.06	278.15

Figure 5-199. Population estimates for Magnesium (MG16) for the Southeastern Region.

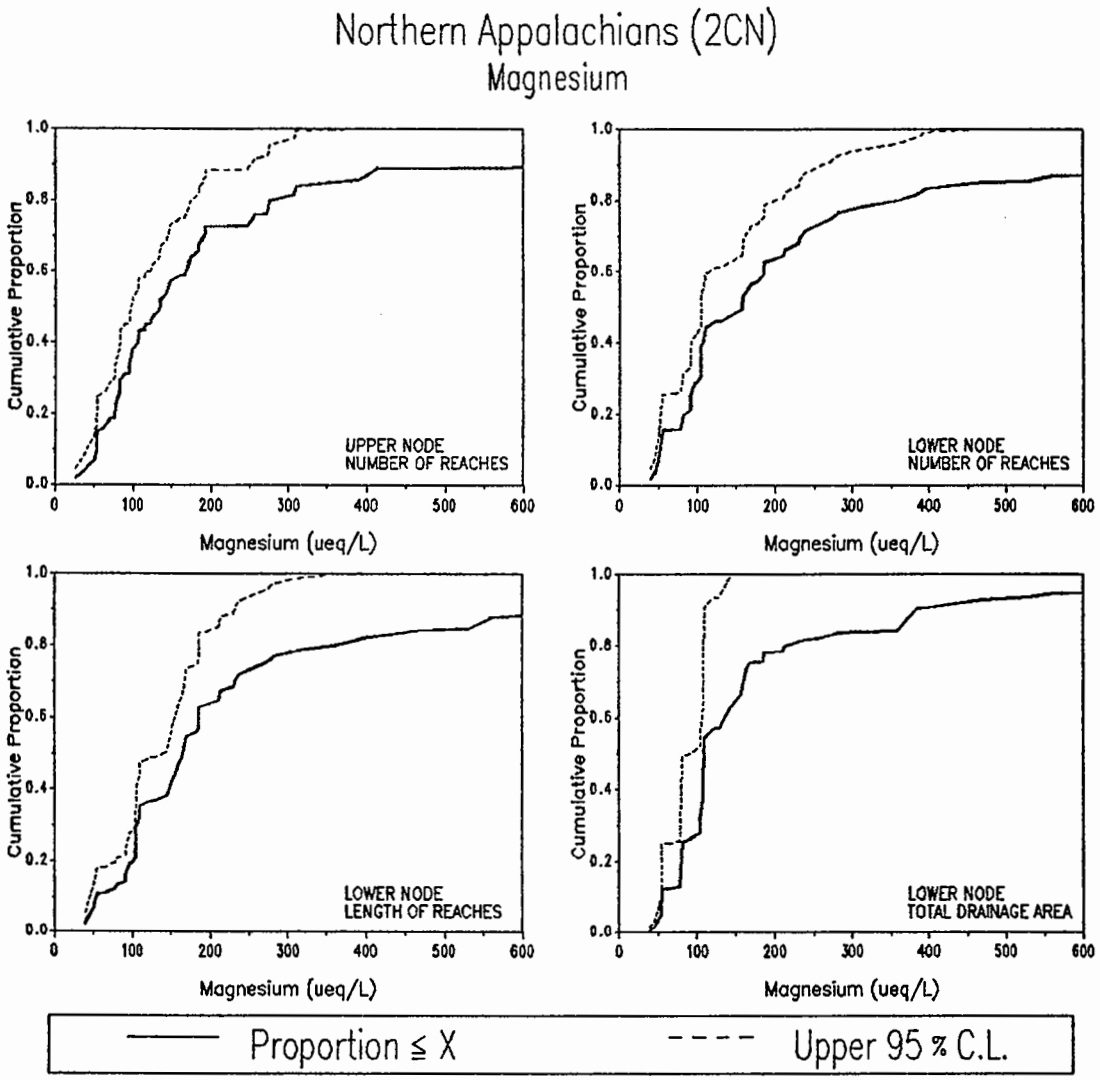


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (ueq/L)	73.75	86.10	82.86	84.06
40 % (ueq/L)	105.32	146.63	143.43	147.68
MEDIAN (ueq/L)	137.05	164.11	164.16	174.92
60 % (ueq/L)	165.98	187.93	210.26	243.66
80 % (ueq/L)	258.88	335.00	312.83	343.76

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	8.31	2393.77	240.34	351.96
LOWER	56	31.83	2451.35	267.34	360.56

Figure 5-200. Population estimates for Magnesium (MG16) for the Poconos/Catskills subregion (1D).



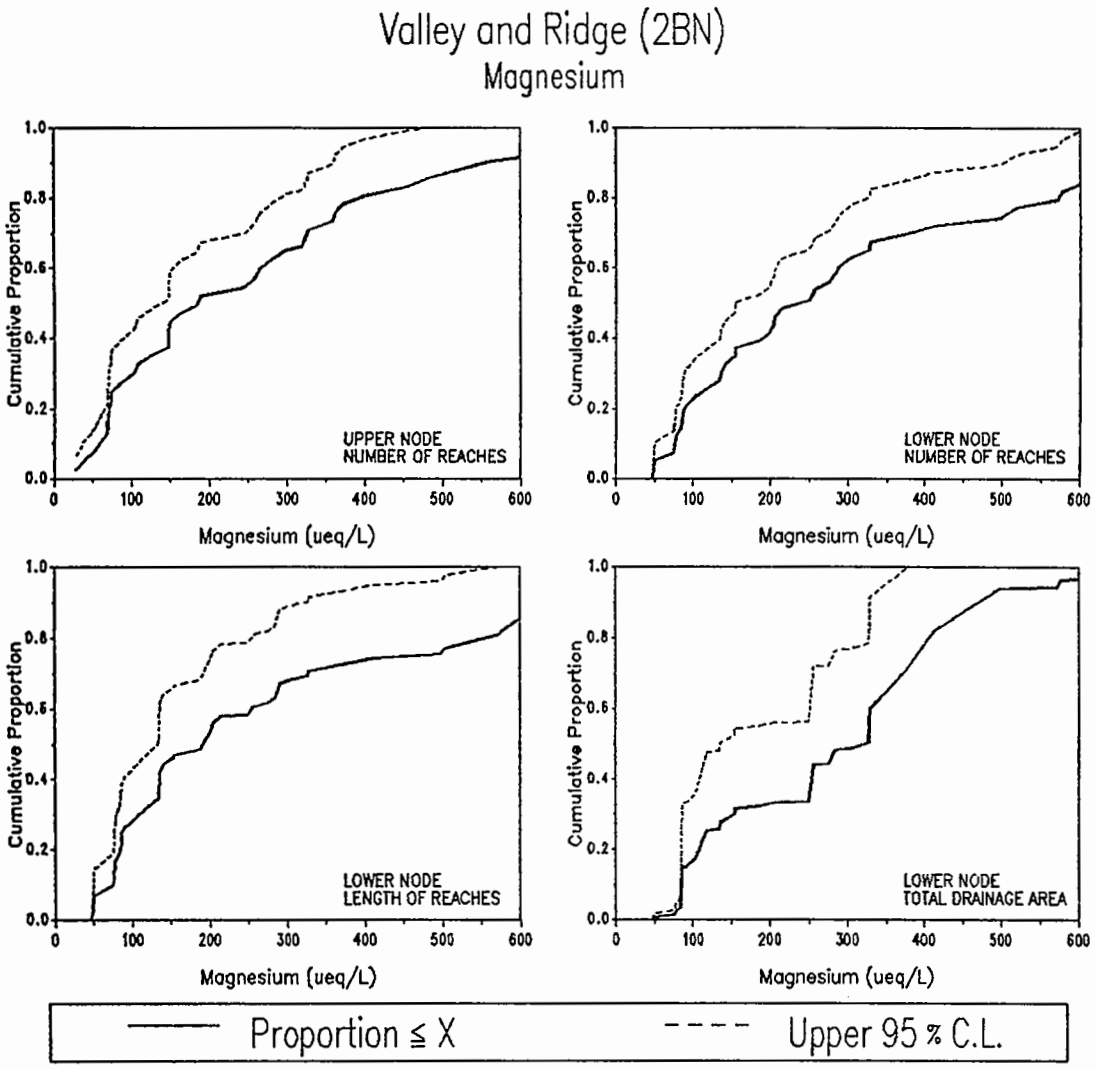
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (ueq/L)	77.01	84.60	100.63	80.27
40 % (ueq/L)	105.53	106.89	147.16	107.93
MEDIAN (ueq/L)	134.43	157.42	165.20	108.68
60 % (ueq/L)	168.28	184.86	185.53	136.37
80 % (ueq/L)	279.86	360.59	362.64	215.57

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	25.75	1427.21	253.22	326.67
LOWER	61	39.73	1361.40	275.17	315.95

Figure 5-201. Population estimates for Magnesium (MG16) for the Northern Appalachians subregion (2Cn).



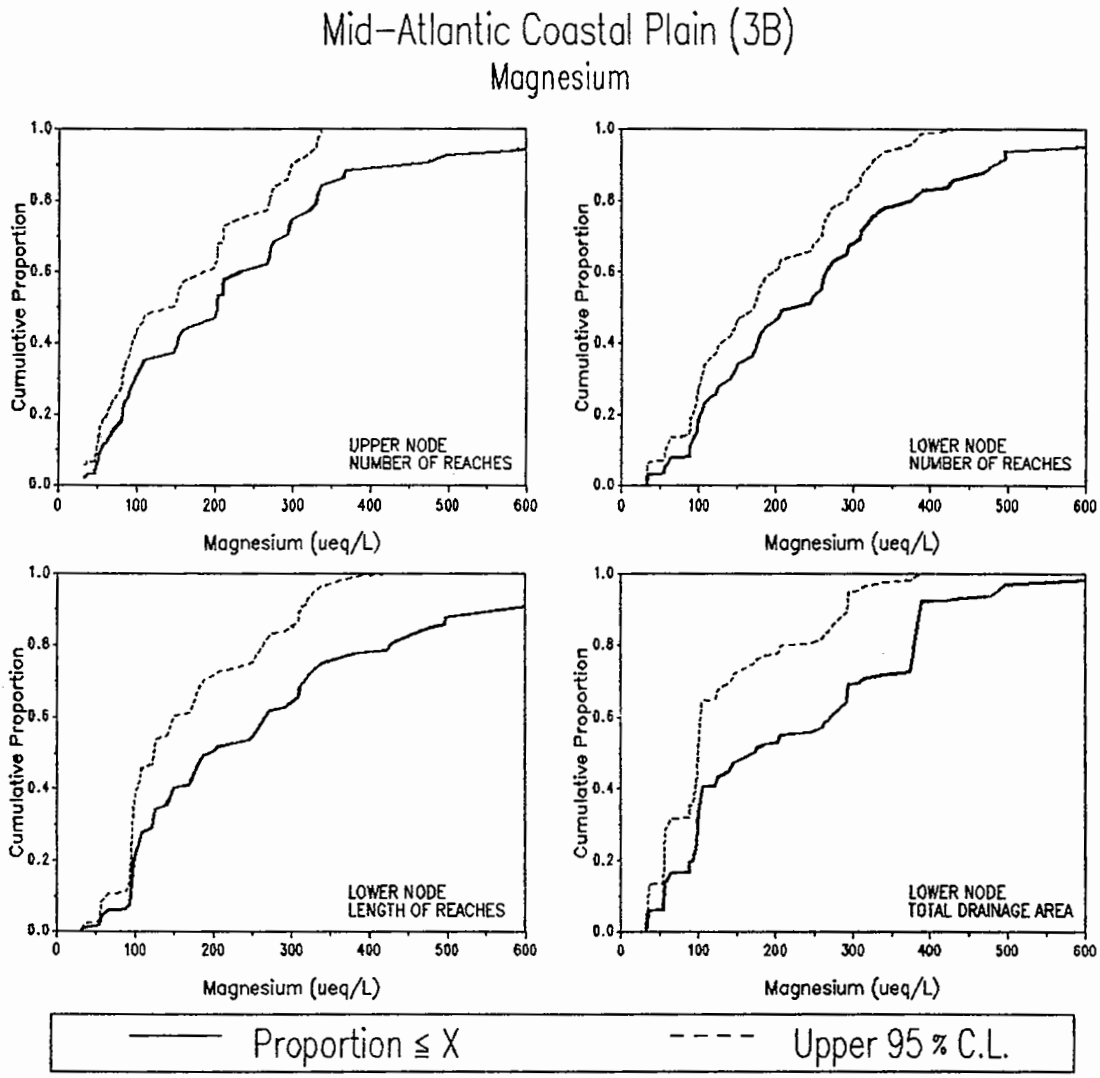
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (ueq/L)	70.57	89.27	84.83	109.28
40 % (ueq/L)	148.10	190.92	135.59	253.41
MEDIAN(ueq/L)	184.72	237.51	191.64	322.47
60 % (ueq/L)	266.38	288.58	255.69	329.94
80 % (ueq/L)	394.37	573.01	556.43	405.96

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	29.04	1313.57	279.53	258.29
LOWER	47	46.97	1720.22	354.69	347.19

Figure 5-202. Population estimates for Magnesium (MG16) for the Valley and Ridge subregion (2Bn).

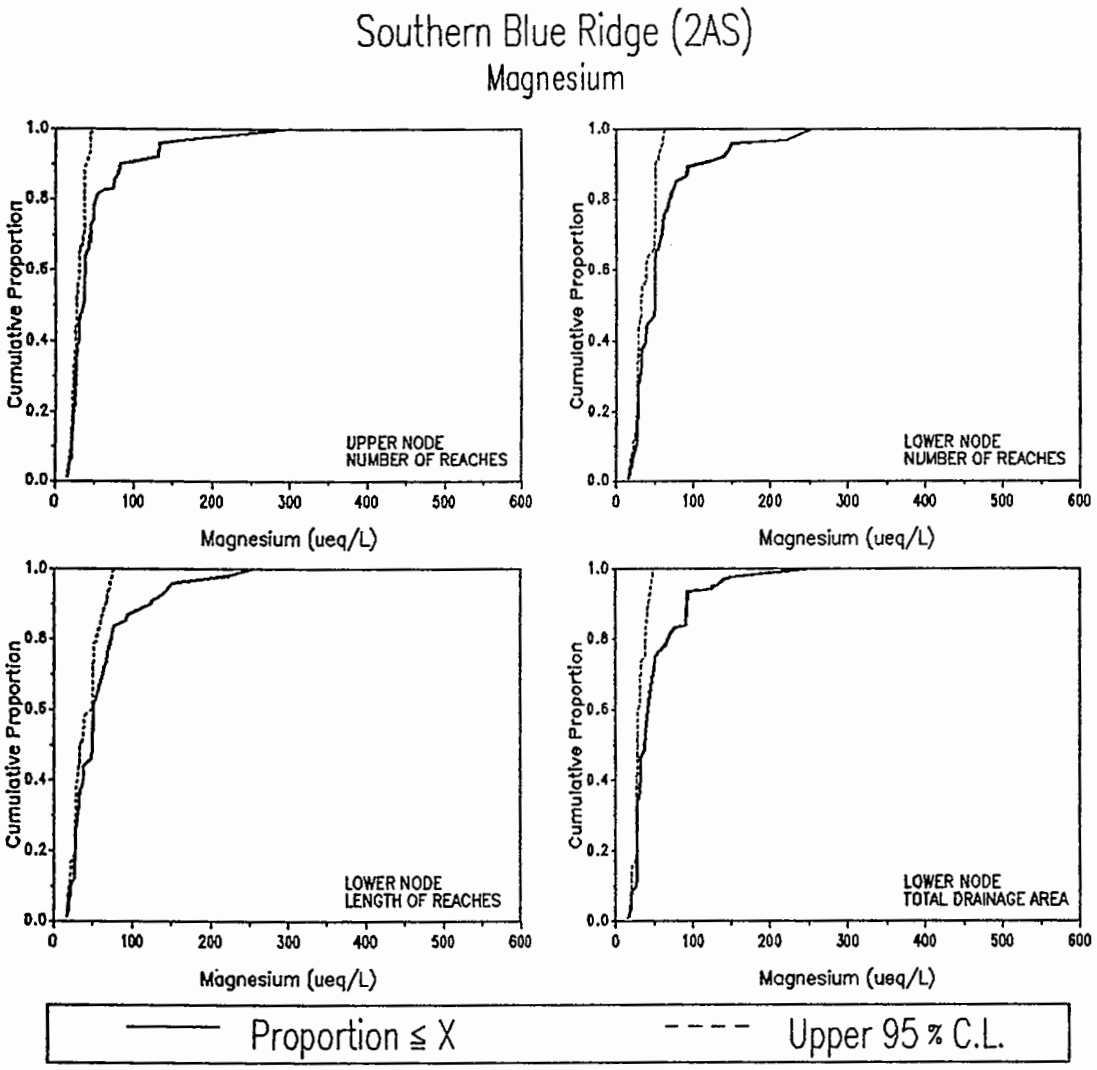


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (ueq/L)	81.21	102.40	98.93	93.54
40 % (ueq/L)	151.98	176.74	149.82	105.88
MEDIAN(ueq/L)	202.22	223.47	193.51	170.34
60 % (ueq/L)	232.31	264.71	266.04	271.09
80 % (ueq/L)	331.19	375.40	428.38	379.84

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	33.03	672.64	229.49	165.56
LOWER	58	32.51	1000.03	264.98	189.01

Figure 5-203. Population estimates for Magnesium (MG16) for the Mid-Atlantic Coastal Plain subregion (3B).



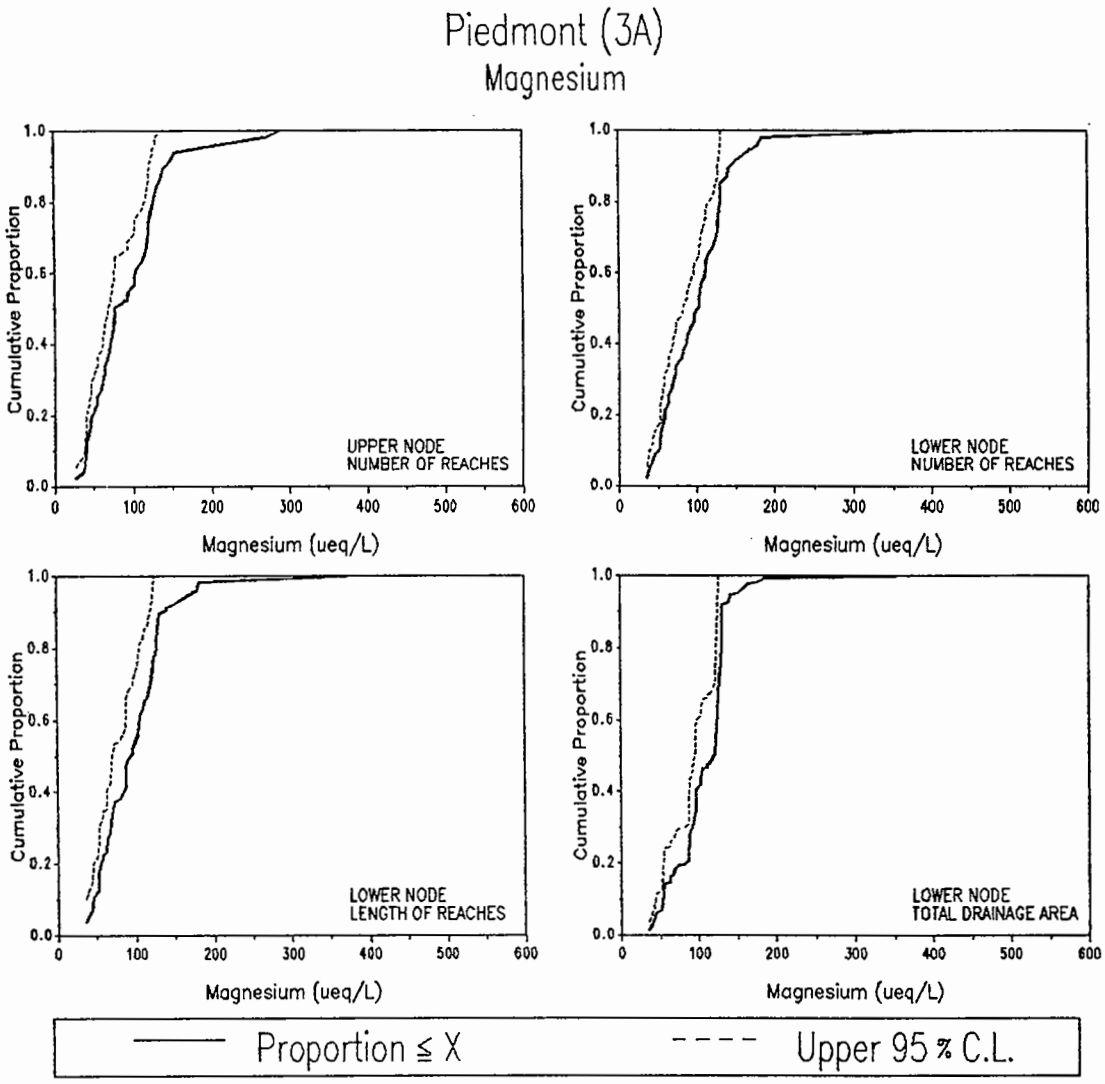
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (ueq/L)	23.44	27.65	27.53	27.67
40 % (ueq/L)	29.84	37.96	37.45	31.99
MEDIAN (ueq/L)	35.17	49.39	49.50	38.12
60 % (ueq/L)	37.57	49.75	50.58	42.27
80 % (ueq/L)	52.34	69.64	72.91	68.62

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	15.38	296.96	51.20	53.12
LOWER	54	16.51	253.09	59.58	49.02

Figure 5-204. Population estimates for Magnesium (MG16) for the Southern Blue Ridge subregion (2As).



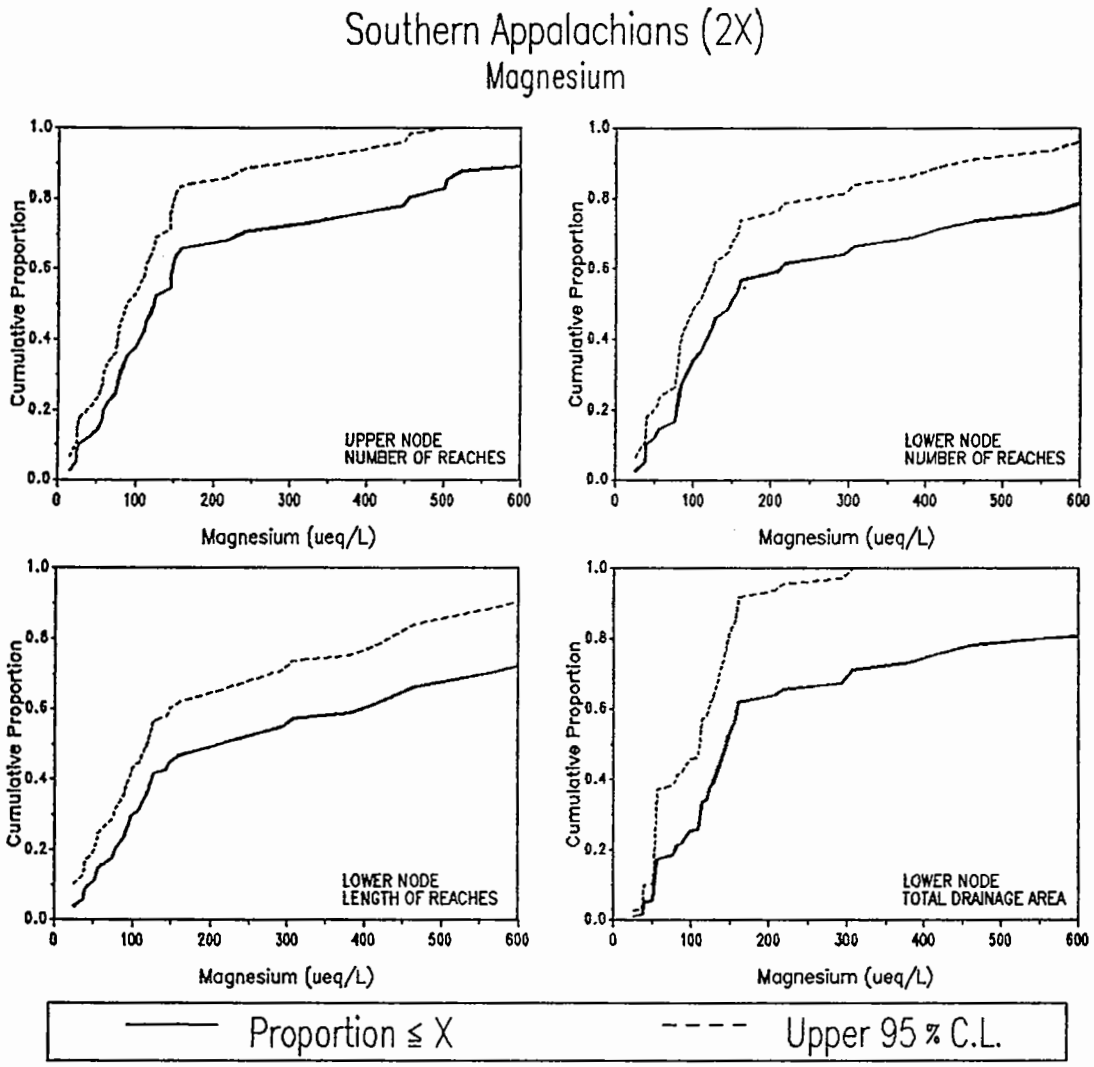
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (ueq/L)	47.81	57.75	55.66	83.86
40 % (ueq/L)	71.30	87.23	84.03	96.55
MEDIAN(ueq/L)	77.34	101.49	93.12	119.69
60 % (ueq/L)	102.78	110.30	104.86	123.70
80 % (ueq/L)	126.05	130.47	127.35	130.17

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	26.24	289.80	96.86	54.58
LOWER	47	35.45	387.61	104.22	55.64

Figure 5-205. Population estimates for Magnesium (MG16) for the Piedmont subregion (3A).



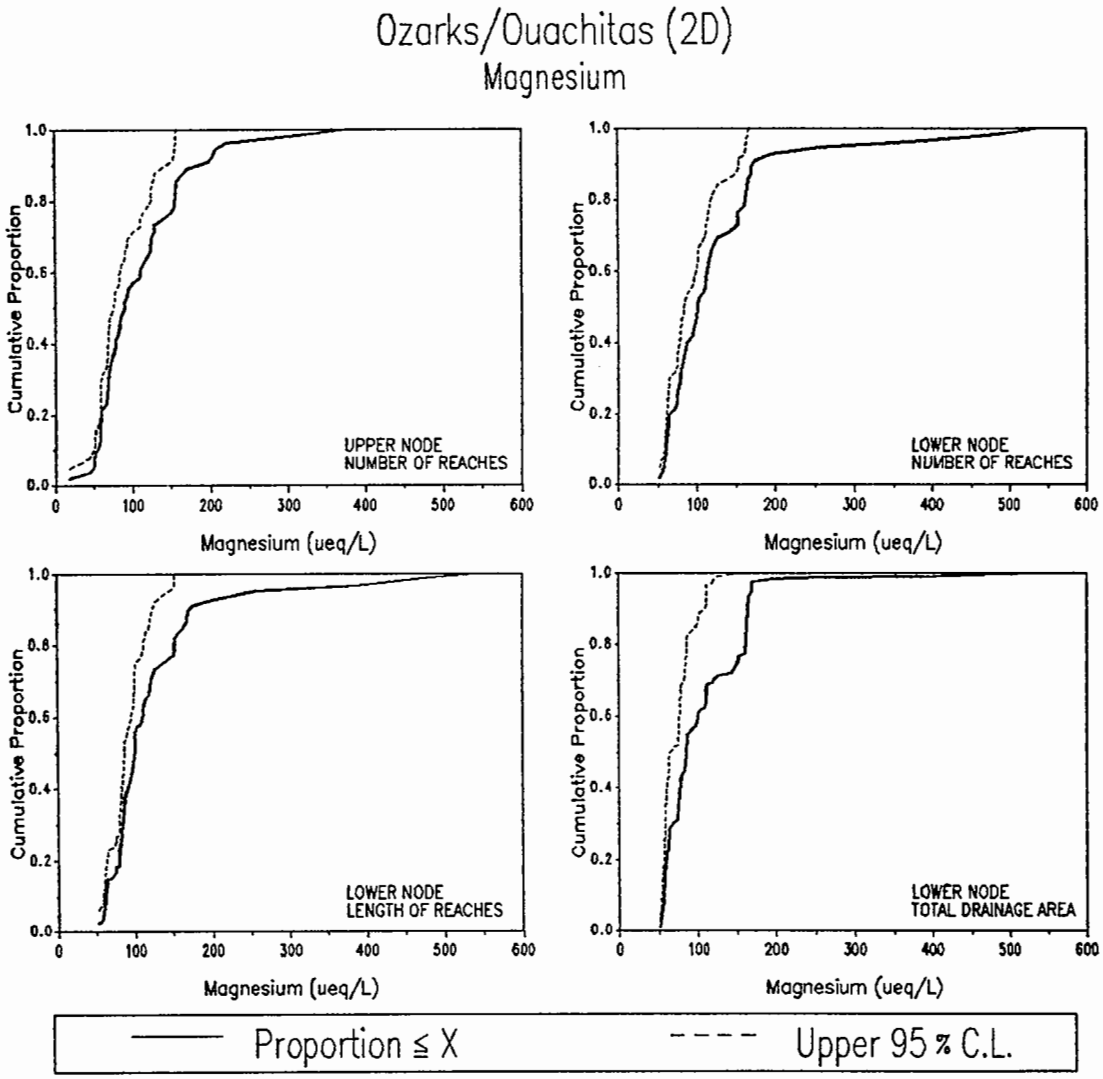
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (ueq/L)	59.36	78.54	78.13	79.61
40 % (ueq/L)	105.30	116.65	125.18	129.45
MEDIAN (ueq/L)	122.90	146.26	213.19	145.23
60 % (ueq/L)	146.37	210.88	398.28	159.10
80 % (ueq/L)	454.63	623.57	696.46	551.39

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	16.29	1834.40	296.45	399.29
LOWER	40	25.83	1949.56	379.16	466.40

Figure 5-206. Population estimates for Magnesium (MG16) for the Southern Appalachians subregion (2X).

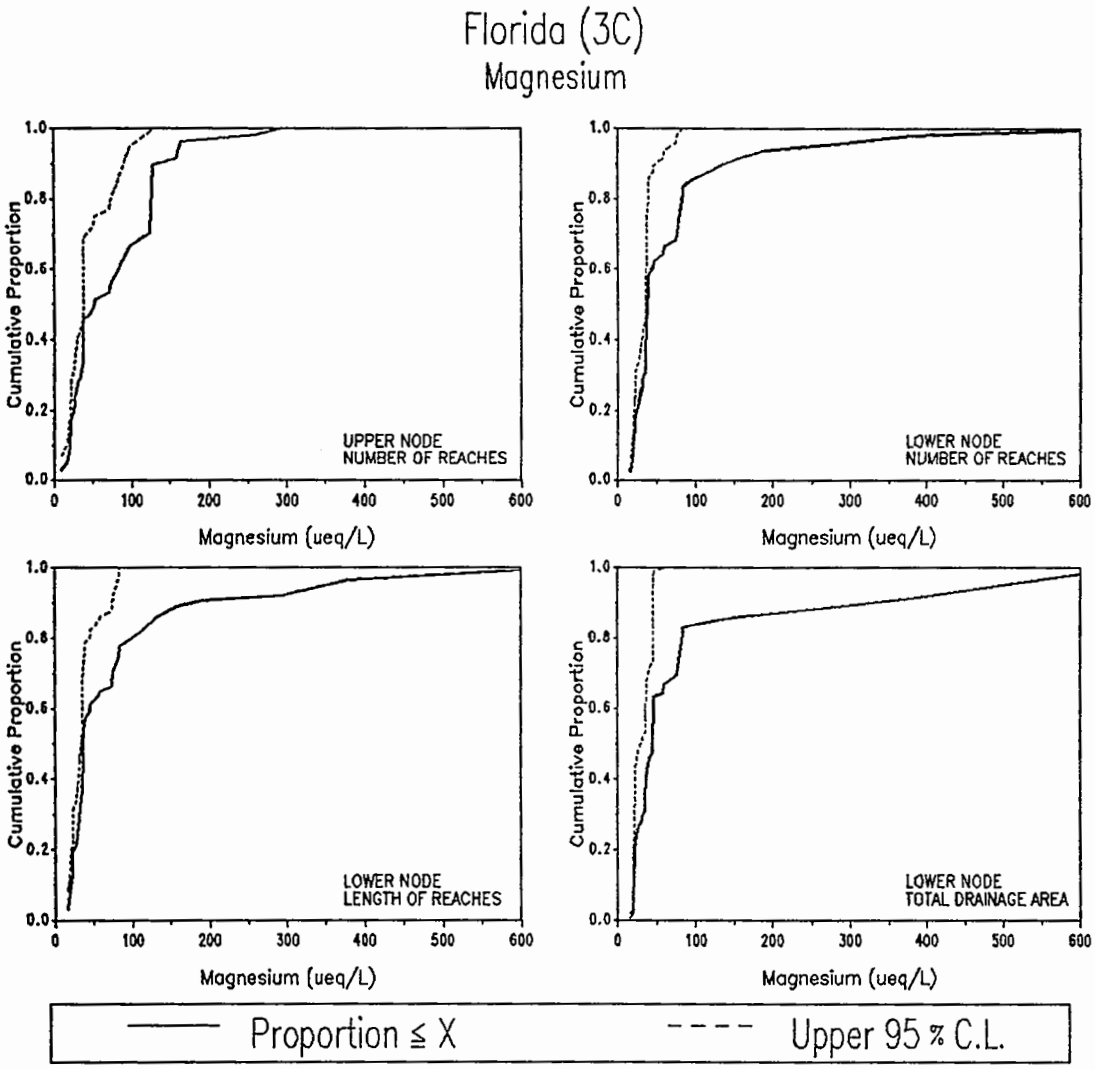


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (ueq/L)	58.55	66.47	79.30	60.07
40 % (ueq/L)	77.63	87.11	90.83	78.48
MEDIAN(ueq/L)	89.93	100.64	100.10	85.73
60 % (ueq/L)	110.86	113.55	110.93	100.69
80 % (ueq/L)	155.63	162.29	152.39	161.98

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	17.27	375.11	111.83	65.77
LOWER	48	52.32	537.98	128.80	93.58

Figure 5-207. Population estimates for Magnesium (MG16) for the Ozarks/Ouachitas subregion (2D).

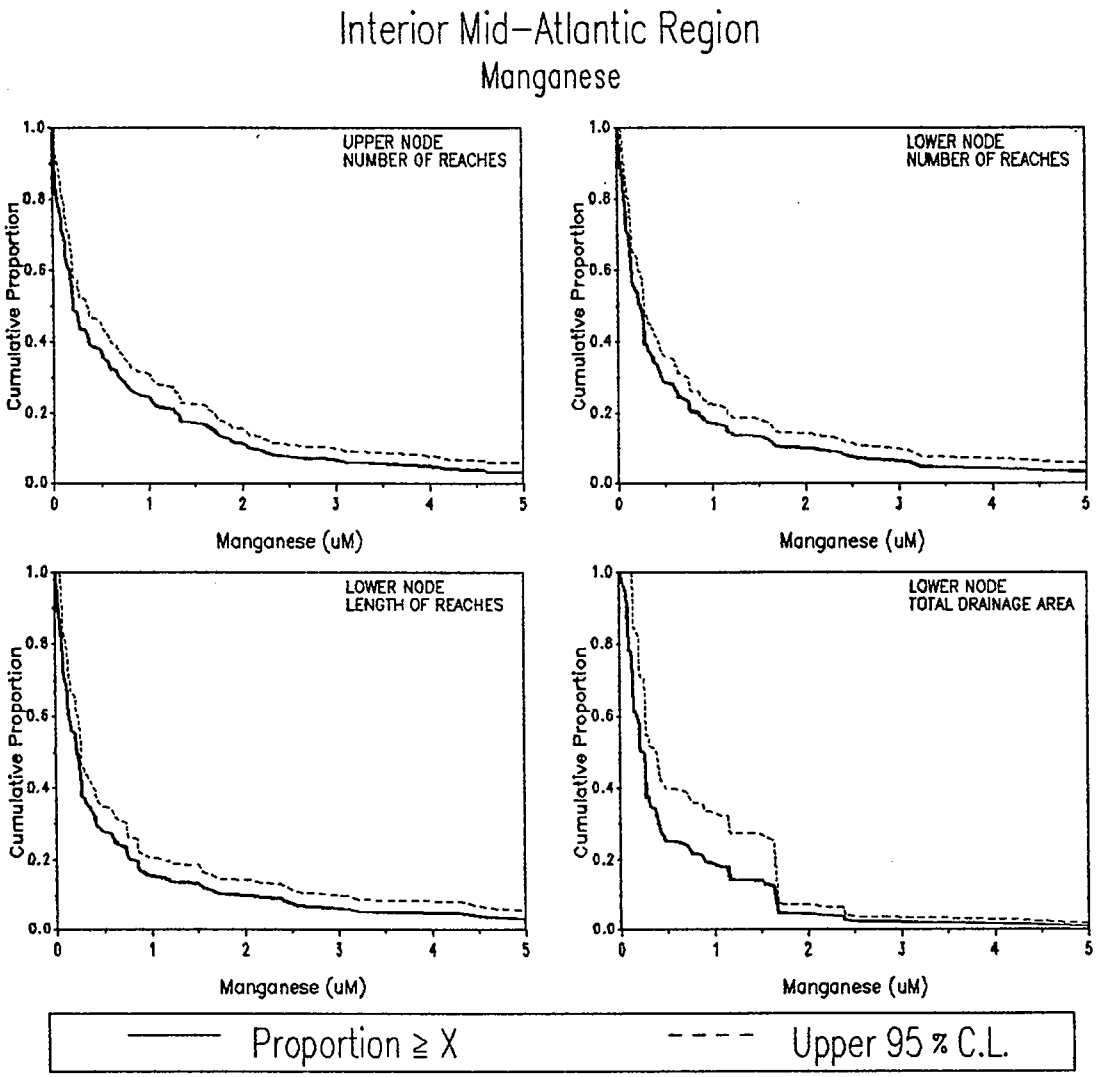


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (ueq/L)	24.91	24.10	24.49	22.55
40 % (ueq/L)	37.21	35.98	35.21	36.70
MEDIAN (ueq/L)	51.42	37.46	35.88	45.07
60 % (ueq/L)	83.29	44.47	45.39	45.70
80 % (ueq/L)	125.43	82.15	99.95	82.46

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	9.87	292.02	79.35	61.13
LOWER	34	16.29	658.08	77.70	108.01

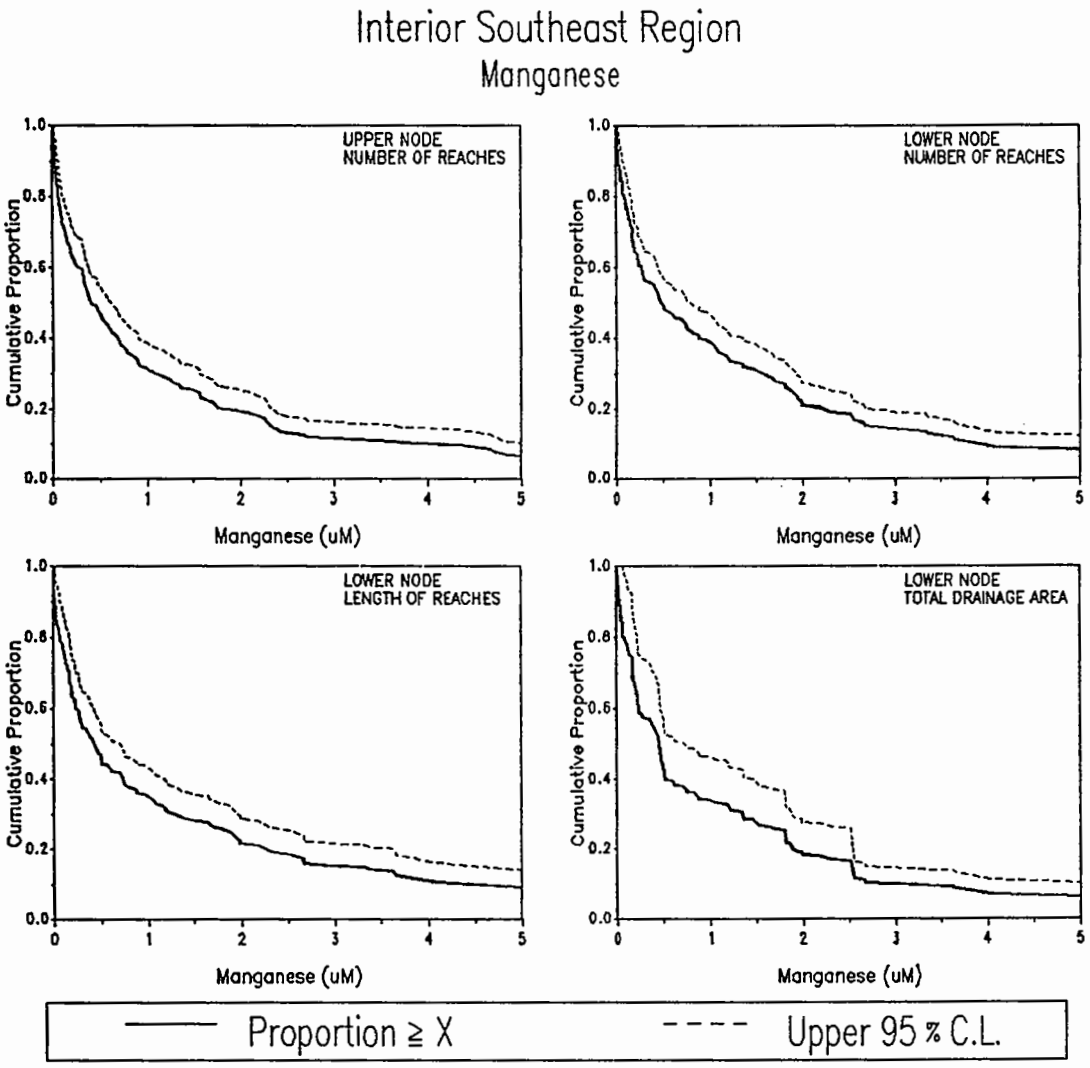
Figure 5-208. Population estimates for Magnesium (MG16) for Florida subregion (3C).



	POPULATION ESTIMATES			
	UPPER NODE		LOWER NODE	
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (uM)	1.25	0.78	0.76	0.87
40 % (uM)	0.35	0.26	0.26	0.25
MEDIAN (uM)	0.19	0.23	0.22	0.23
60 % (uM)	0.16	0.12	0.14	0.17
80 % (uM)	0.03	0.06	0.06	0.08

SUMMARY STATISTICS (uM)					
		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	0.00	8.50	0.80	1.44
LOWER	164	0.00	23.09	0.77	1.82

Figure 5-209. Population estimates for Manganese (MN16) for the Mid-Atlantic Region.



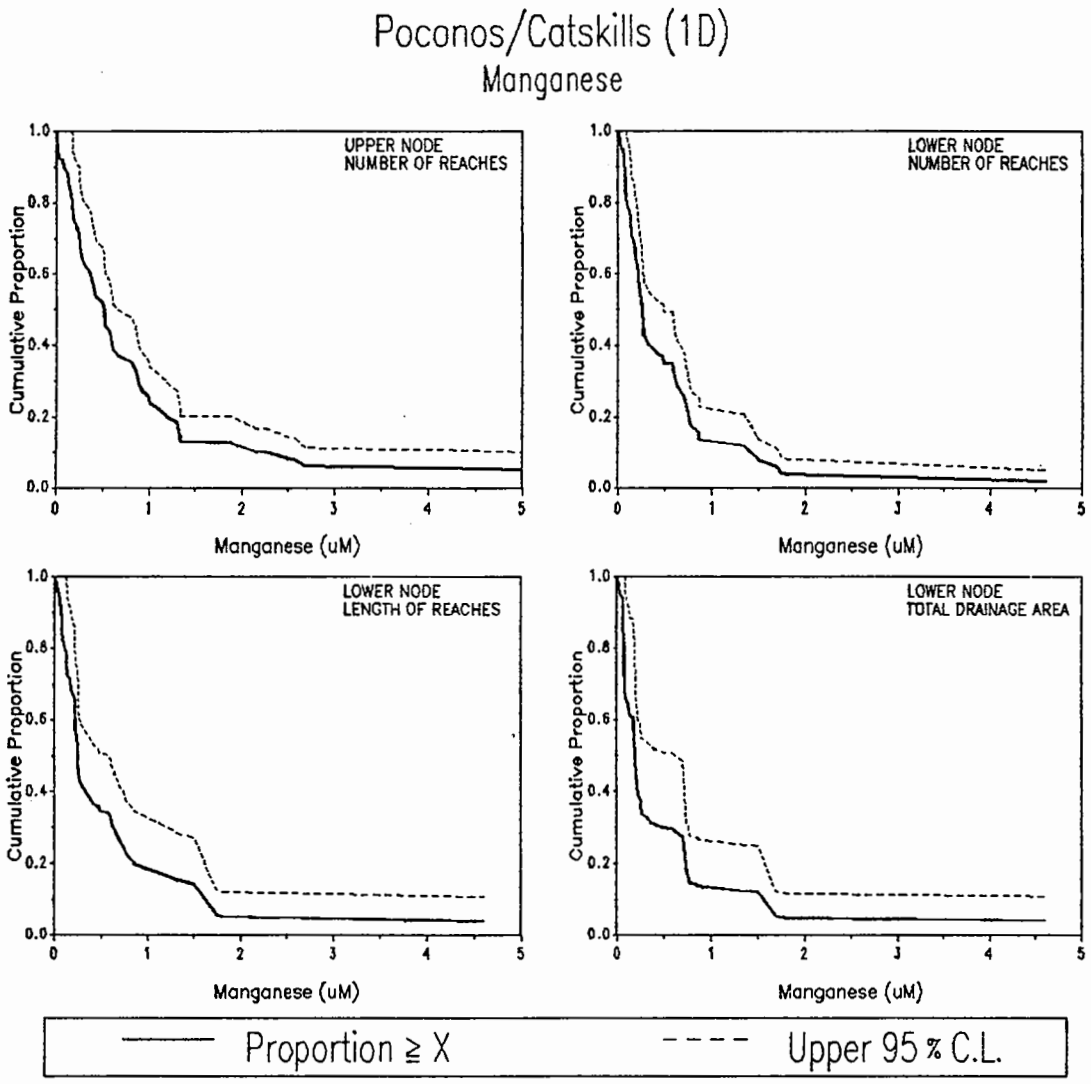
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (uM)	1.71	2.02	2.09	1.85
40 % (uM)	0.66	0.87	0.73	0.49
MEDIAN (uM)	0.38	0.45	0.40	0.42
60 % (uM)	0.25	0.24	0.22	0.21
80 % (uM)	0.05	0.06	0.05	0.05

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	0.00	13.33	1.25	2.13
LOWER	189	0.00	30.22	1.52	3.02

Figure 5-210. Population estimates for Manganese (MN16) for the Southeastern Region.



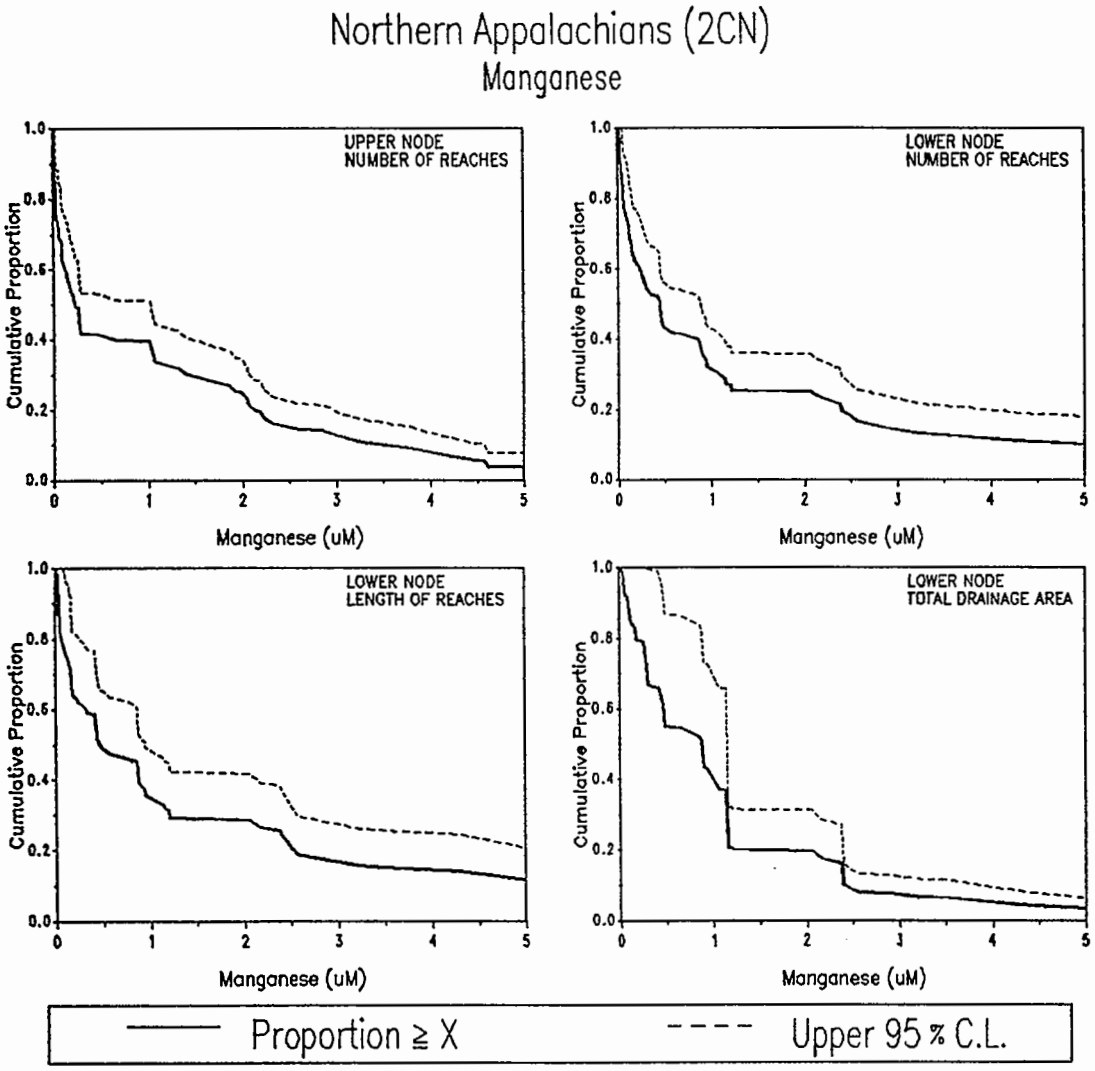
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (uM)	1.12	0.72	0.83	0.69
40 % (uM)	0.56	0.29	0.29	0.21
MEDIAN (uM)	0.49	0.24	0.24	0.18
60 % (uM)	0.32	0.20	0.21	0.15
80 % (uM)	0.15	0.08	0.09	0.07

SUMMARY STATISTICS (uM)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	0.00	8.50	0.95	1.58
LOWER	56	0.00	4.61	0.51	0.72

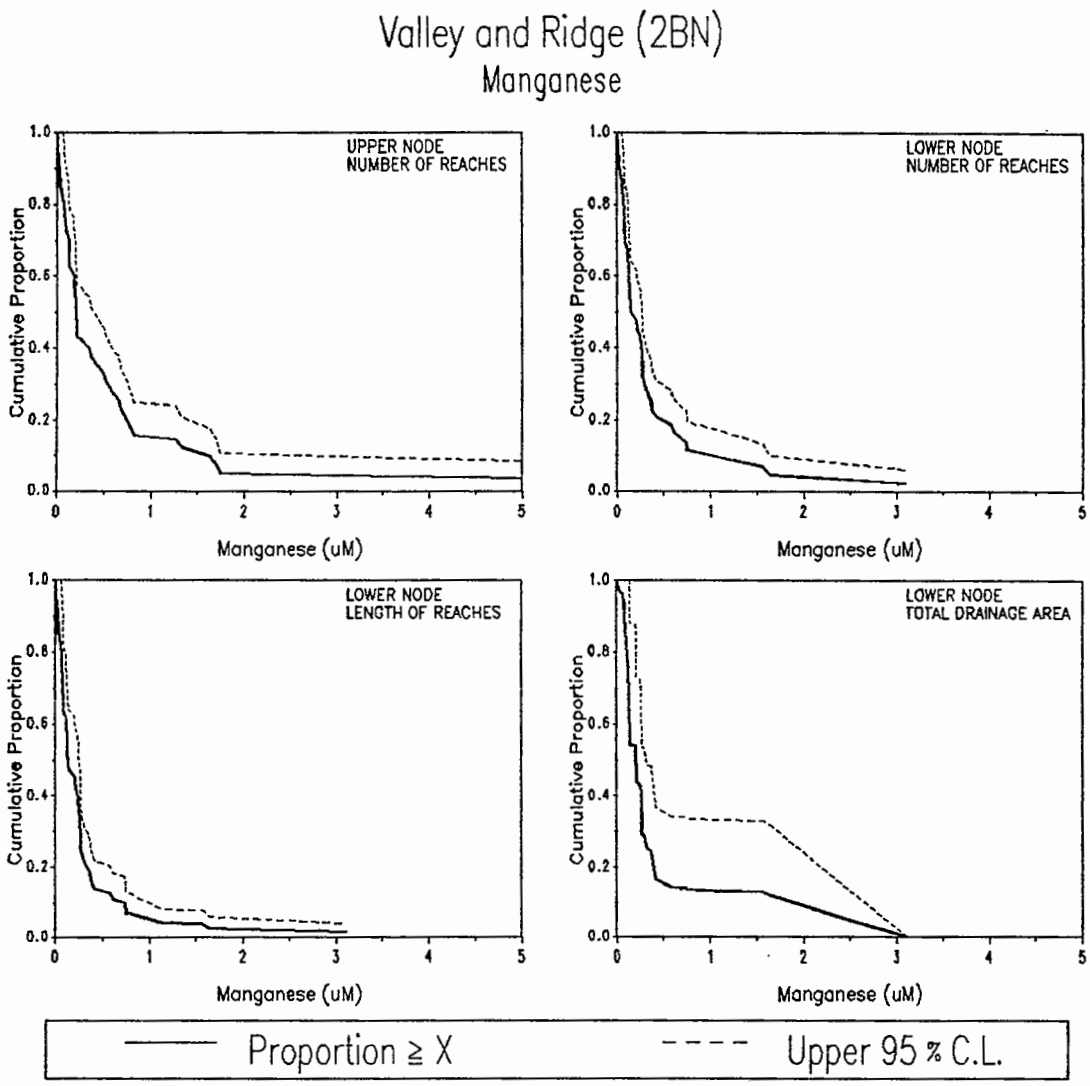
Figure 5-211. Population estimates for Manganese (MN16) for the Poconos/Catskills subregion (1D).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (uM)	2.05	2.35	2.44	1.20
40 % (uM)	0.45	0.65	0.84	0.94
MEDIAN (uM)	0.19	0.42	0.44	0.86
60 % (uM)	0.09	0.18	0.27	0.44
80 % (uM)	0.01	0.05	0.05	0.15

SUMMARY STATISTICS (uM)					
	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	0.00	8.21	1.10	1.62
LOWER	61	0.01	23.09	1.56	2.90

Figure 5-212. Population estimates for Manganese (MN16) for the Northern Appalachians subregion (2Cn).



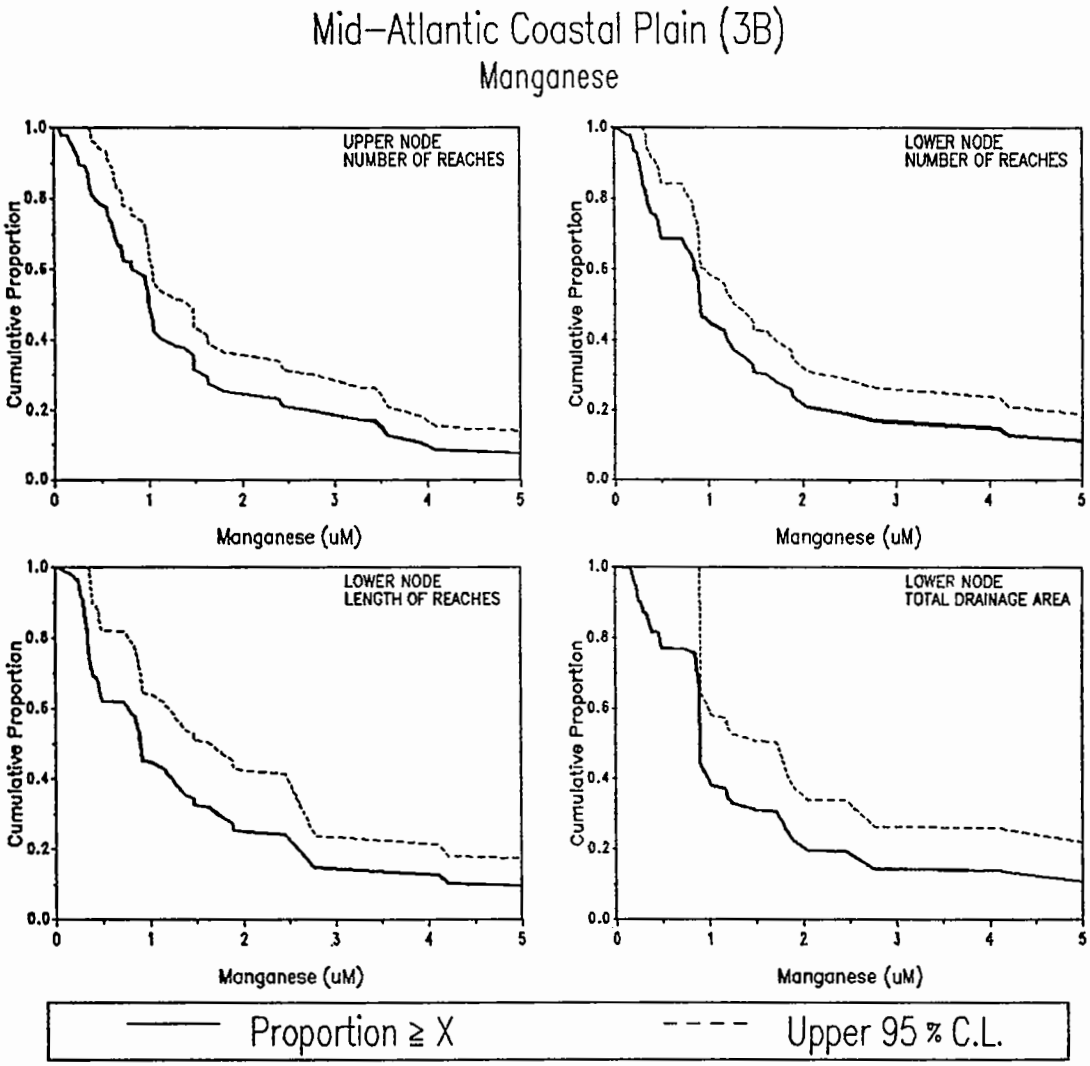
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (uM)	0.68	0.38	0.31	0.37
40 % (uM)	0.25	0.24	0.20	0.25
MEDIAN (uM)	0.19	0.14	0.12	0.16
60 % (uM)	0.13	0.11	0.09	0.12
80 % (uM)	0.03	0.06	0.05	0.08

SUMMARY STATISTICS (uM)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	0.00	7.62	0.57	1.21
LOWER	47	0.00	3.10	0.35	0.56

Figure 5-213. Population estimates for Manganese (MN16) for the Valley and Ridge subregion (2Bn).

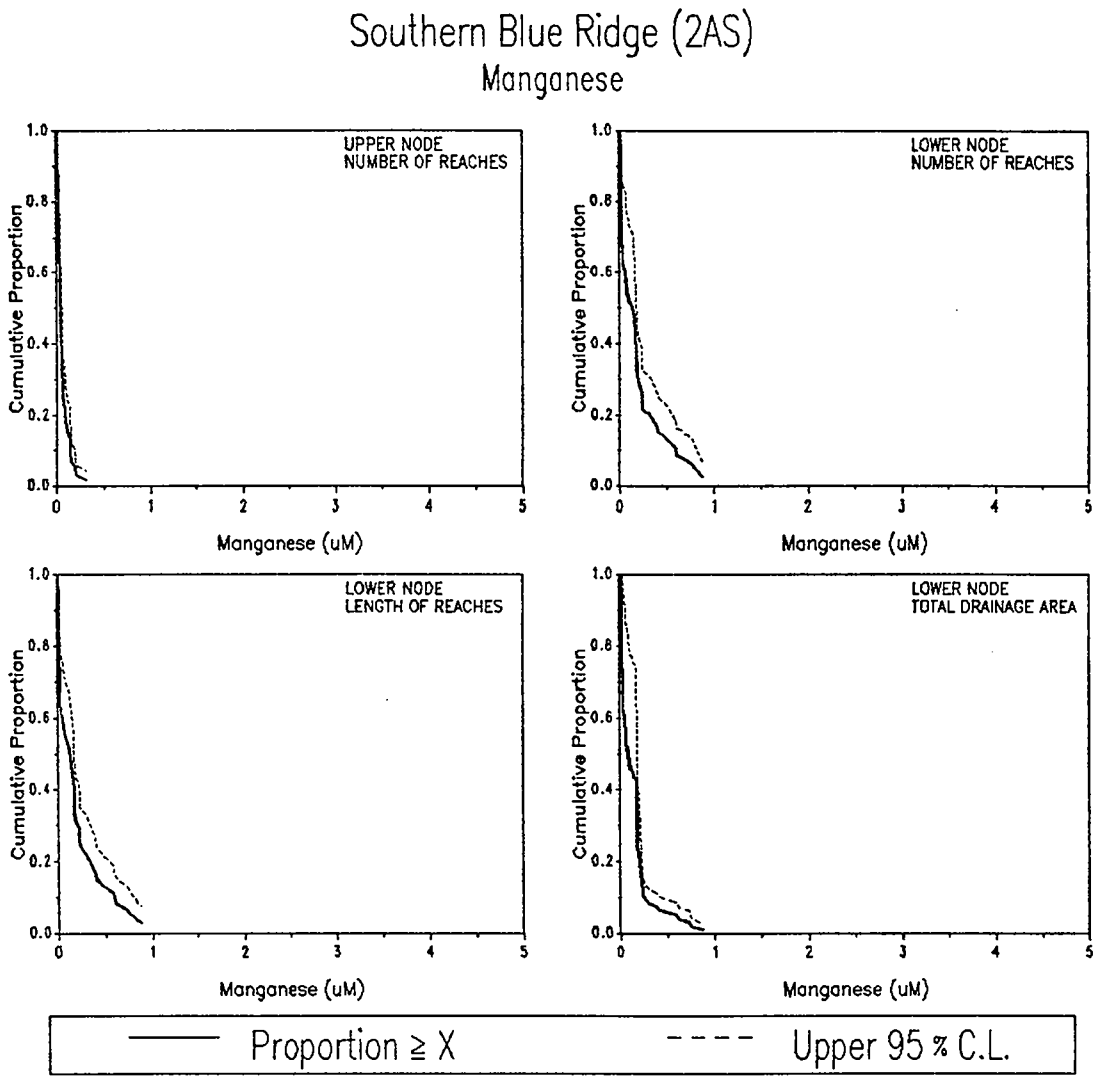


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (uM)	2.43	1.96	2.22	1.89
40 % (uM)	1.06	1.17	1.18	0.92
MEDIAN (uM)	0.99	0.90	0.89	0.89
60 % (uM)	0.80	0.84	0.73	0.89
80 % (uM)	0.38	0.33	0.32	0.44

SUMMARY STATISTICS (uM)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	0.05	32.15	2.14	4.66
LOWER	58	0.01	9.14	1.67	2.00

Figure 5-214. Population estimates for Manganese (MN16) for the Mid-Atlantic Coastal Plain subregion (3B).

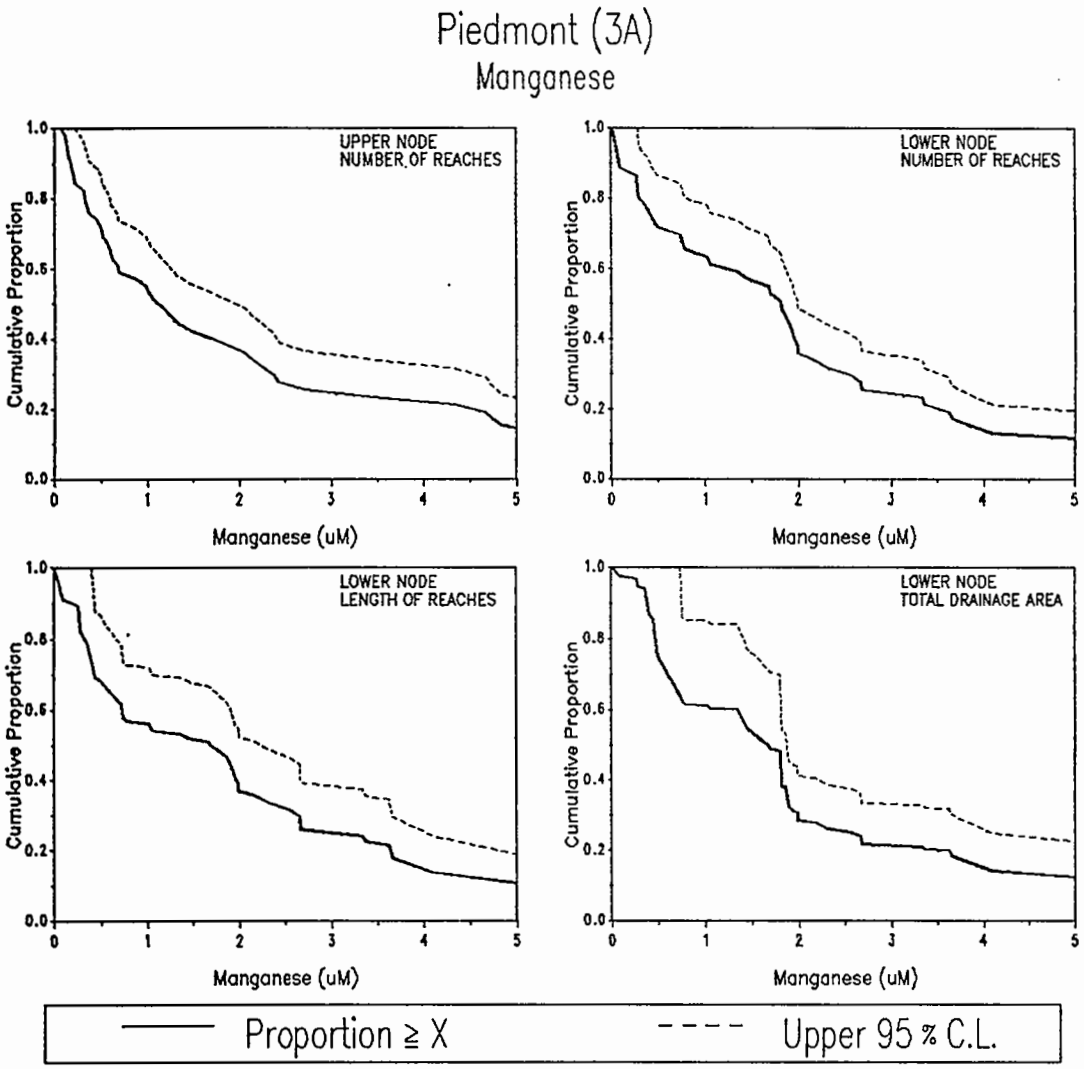


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (uM)	0.08	0.27	0.28	0.18
40 % (uM)	0.04	0.14	0.17	0.17
MEDIAN (uM)	0.03	0.11	0.11	0.06
60 % (uM)	0.03	0.05	0.04	0.04
80 % (uM)	0.02	0.01	0.01	0.02

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	0.00	0.31	0.05	0.06
LOWER	54	0.00	0.87	0.18	0.22

Figure 5-215. Population estimates for Manganese (MN16) for the Southern Blue Ridge subregion (2As).



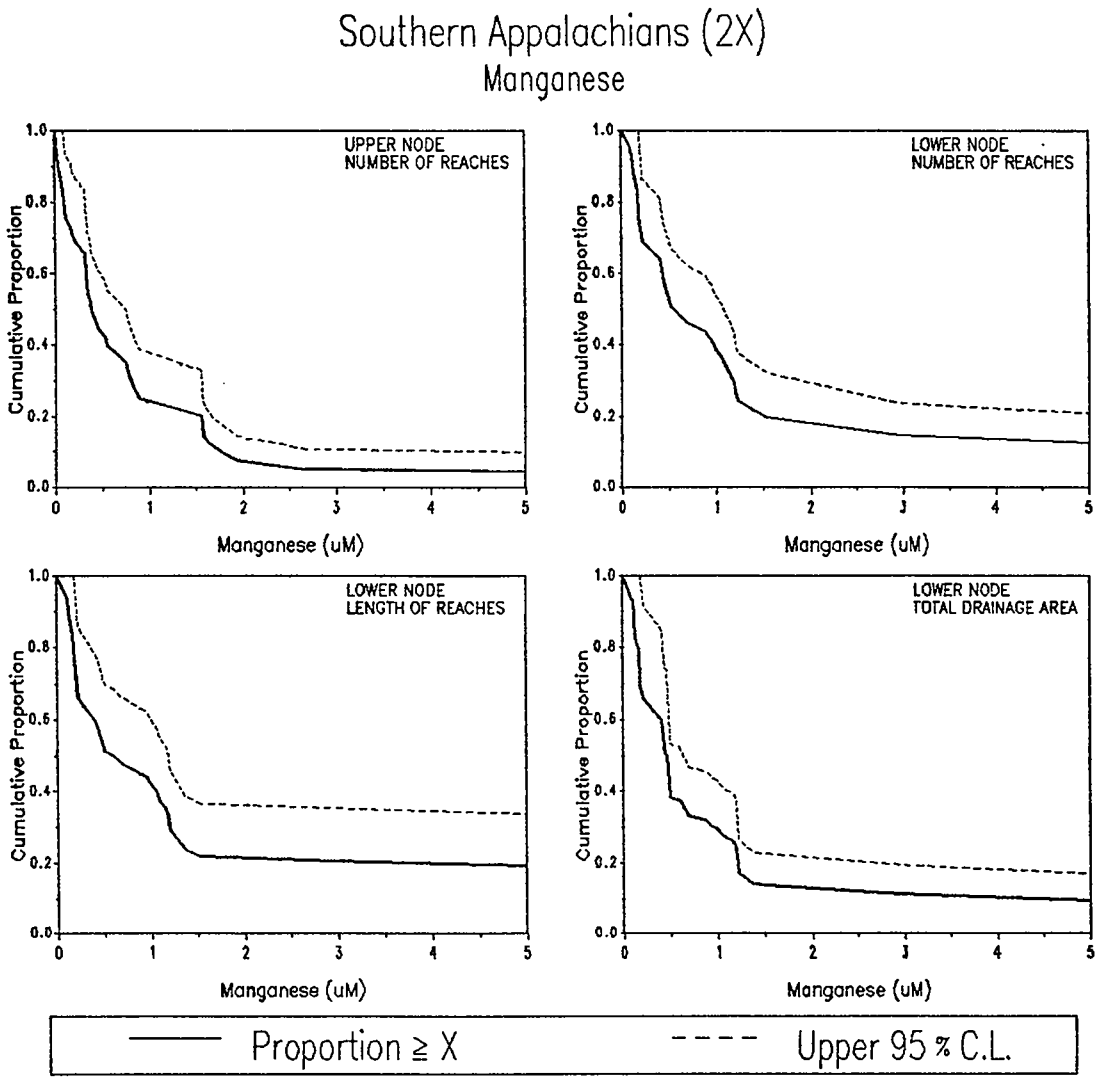
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (uM)	3.99	3.35	3.47	3.36
40 % (uM)	1.48	1.93	1.94	1.78
MEDIAN (uM)	1.04	1.73	1.65	1.45
60 % (uM)	0.65	1.04	0.59	1.06
80 % (uM)	0.31	0.27	0.29	0.42

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	0.06	10.52	2.15	2.53
LOWER	47	0.00	8.01	2.08	2.10

Figure 5-216. Population estimates for Manganese (MN16) for the Piedmont subregion (3A).

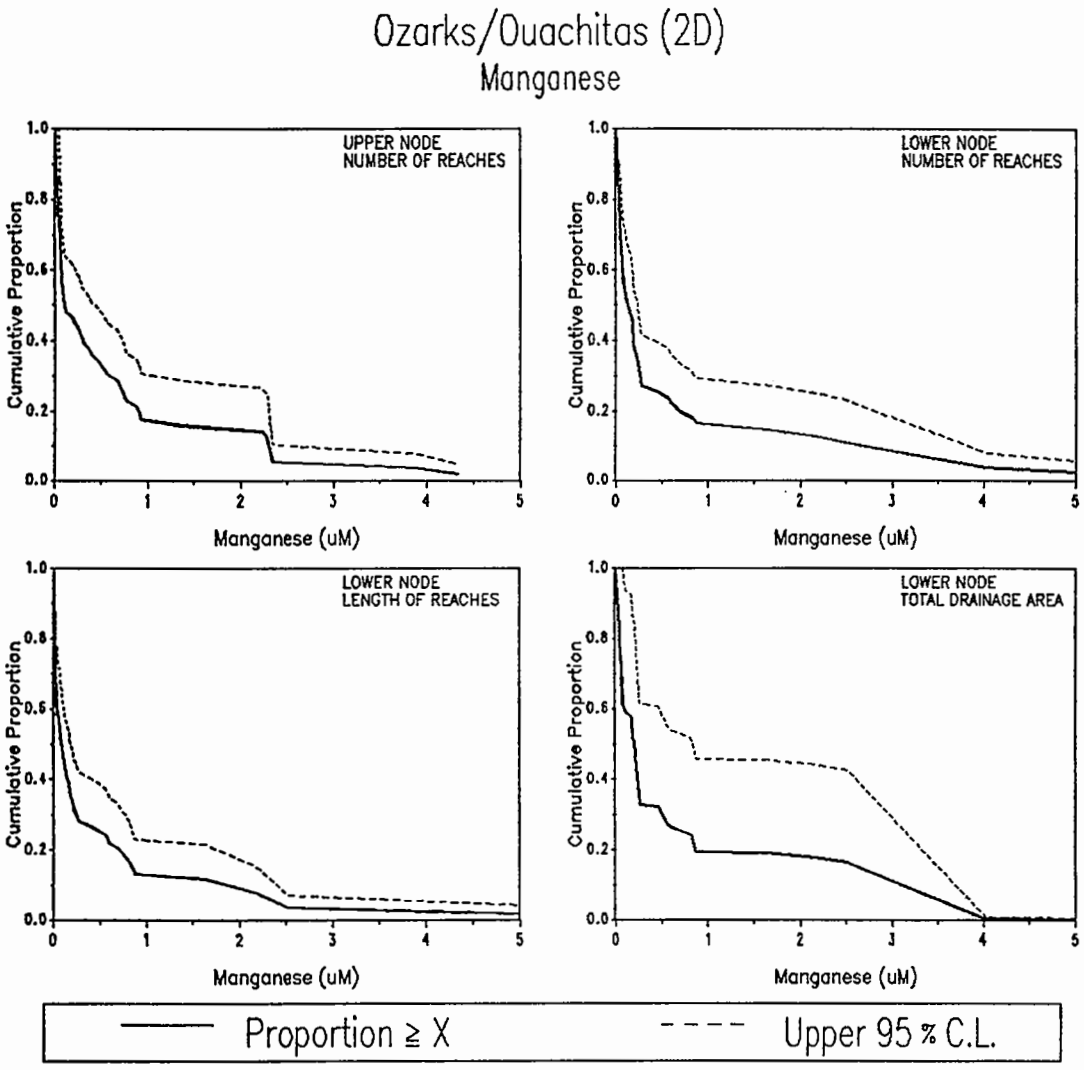


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (uM)	1.25	1.35	2.17	1.19
40 % (uM)	0.52	0.91	0.98	0.45
MEDIAN (uM)	0.37	0.50	0.51	0.44
60 % (uM)	0.30	0.34	0.22	0.22
80 % (uM)	0.07	0.15	0.15	0.14

SUMMARY STATISTICS (uM)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	0.00	13.33	0.93	2.07
LOWER	40	0.00	30.22	2.01	4.91

Figure 5-217. Population estimates for Manganese (MN16) for the Southern Appalachians subregion (2X).



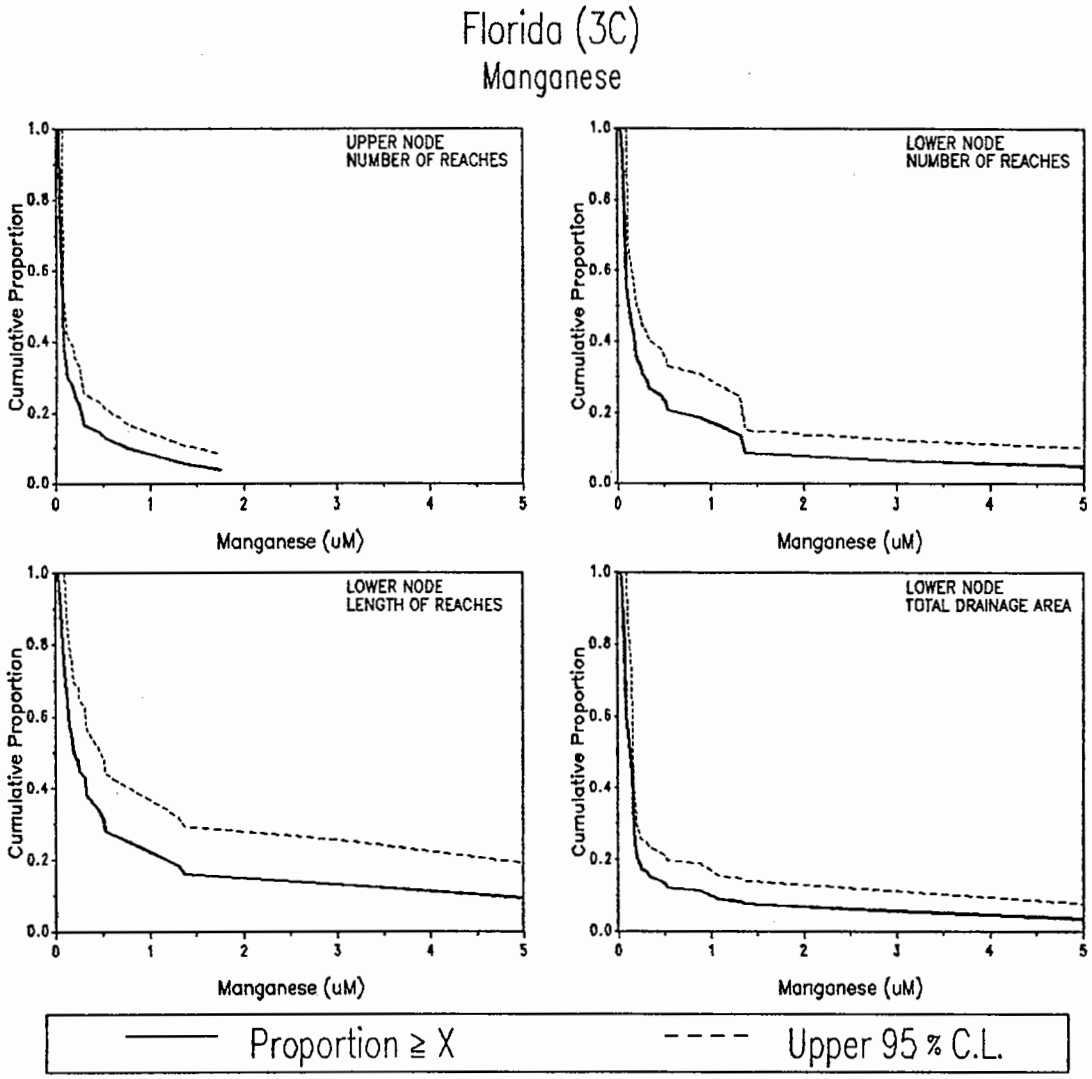
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (uM)	0.84	0.61	0.63	0.80
40 % (uM)	0.28	0.16	0.12	0.21
MEDIAN (uM)	0.08	0.10	0.07	0.18
60 % (uM)	0.05	0.04	0.04	0.08
80 % (uM)	0.01	0.00	.	0.03

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	0.00	4.33	0.59	0.97
LOWER	48	0.00	5.42	0.55	1.08

Figure 5-218. Population estimates for Manganese (MN16) for the Ozarks/Ouachitas subregion (2D).



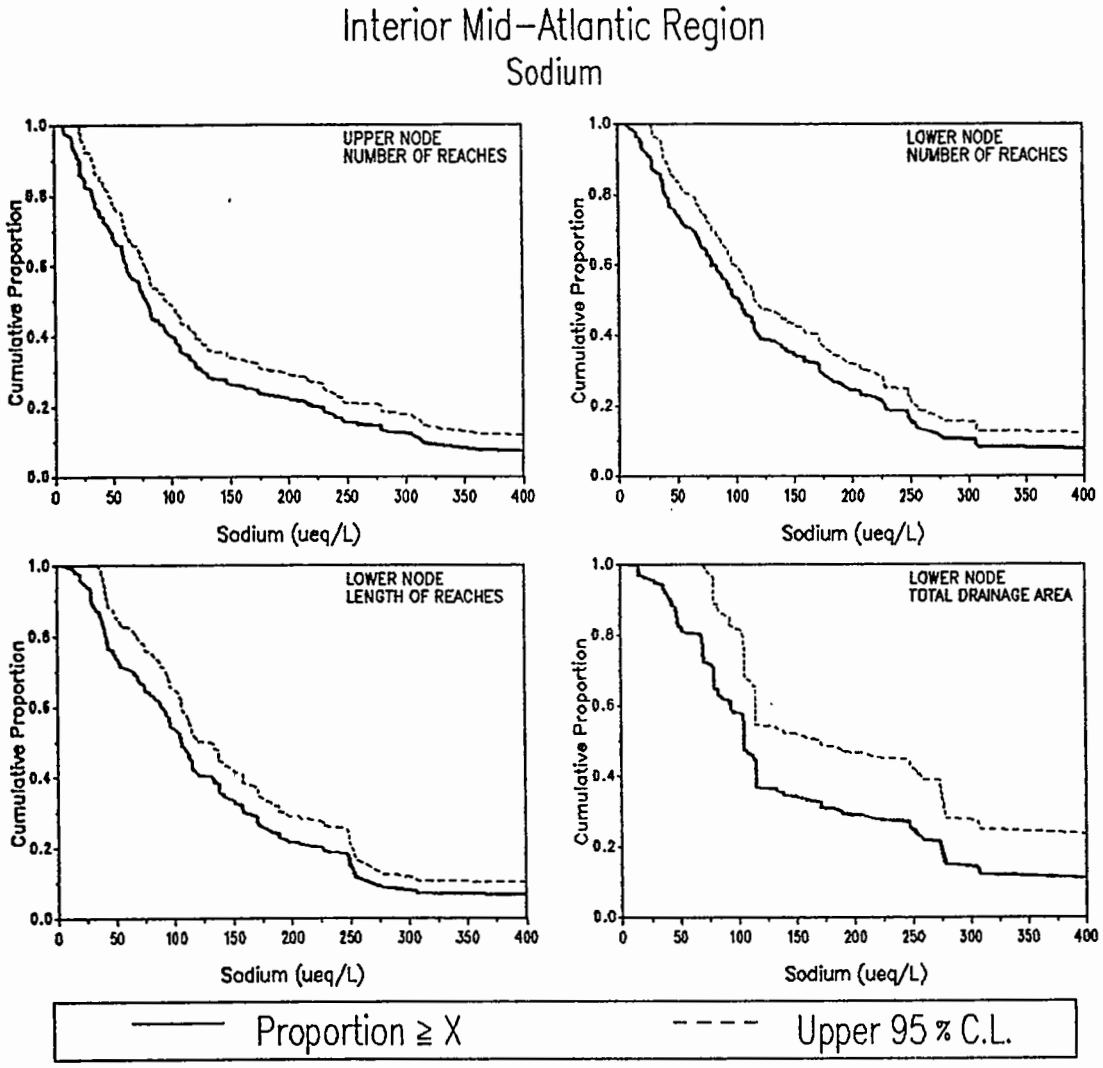
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (uM)	0.21	0.52	0.96	0.19
40 % (uM)	0.05	0.16	0.29	0.12
MEDIAN (uM)	0.05	0.09	0.17	0.10
60 % (uM)	0.04	0.07	0.10	0.07
80 % (uM)	.	0.04	0.05	0.05

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	0.02	1.75	0.21	0.40
LOWER	34	0.02	7.15	0.59	1.34

Figure 5-219. Population estimates for Manganese (MN16) for Florida subregion (3C).

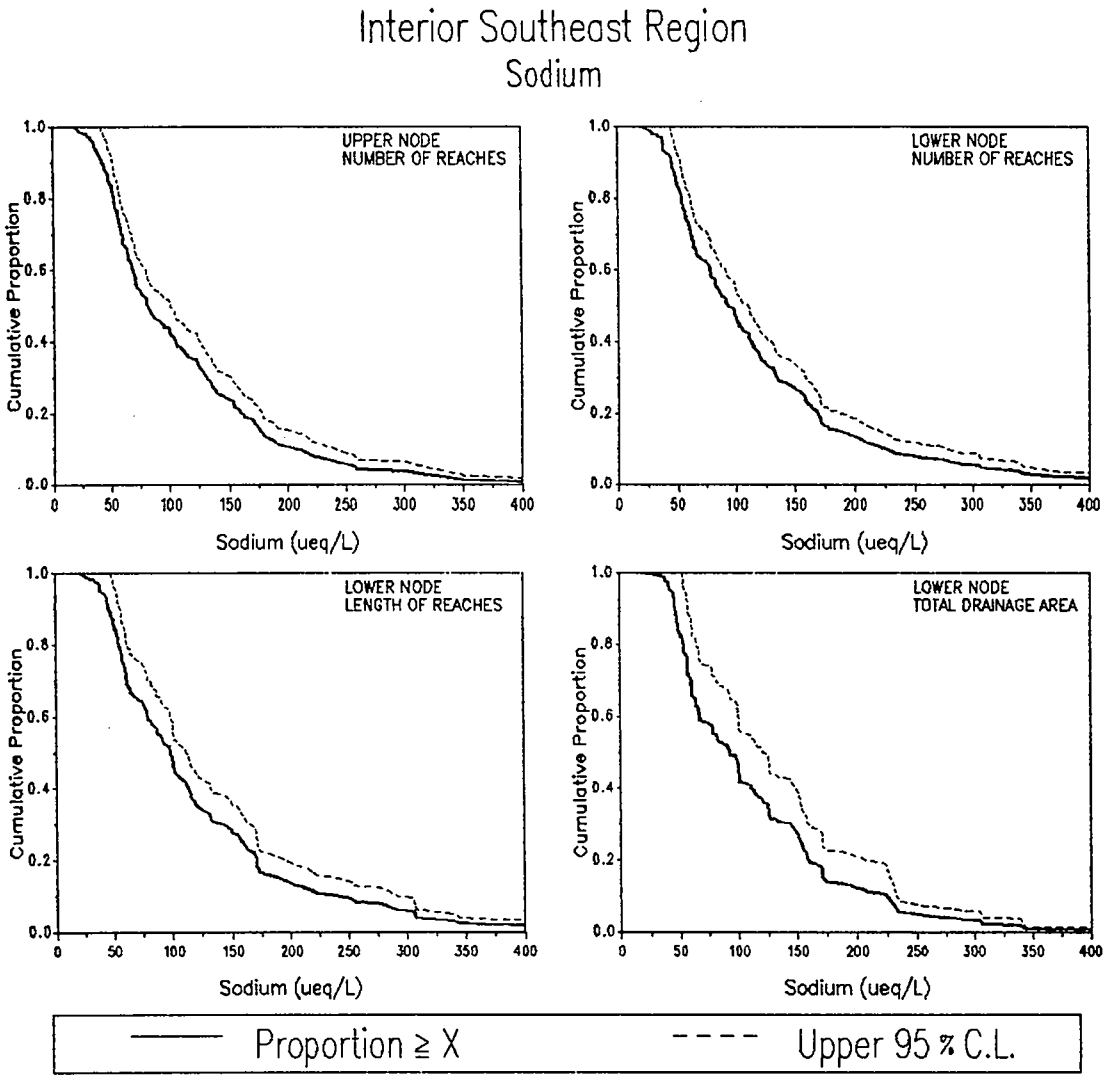


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (ueq/L)	219.71	225.14	222.78	262.33
40 % (ueq/L)	95.60	115.91	131.57	114.78
MEDIAN(ueq/L)	75.30	100.50	105.18	104.52
60 % (ueq/L)	61.27	79.59	86.93	92.30
80 % (ueq/L)	31.96	39.20	39.55	67.69

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	6.24	928.72	134.53	159.15
LOWER	164	7.42	1442.87	161.82	210.34

Figure 5-220. Population estimates for Sodium (NA16) for the Mid-Atlantic Region.



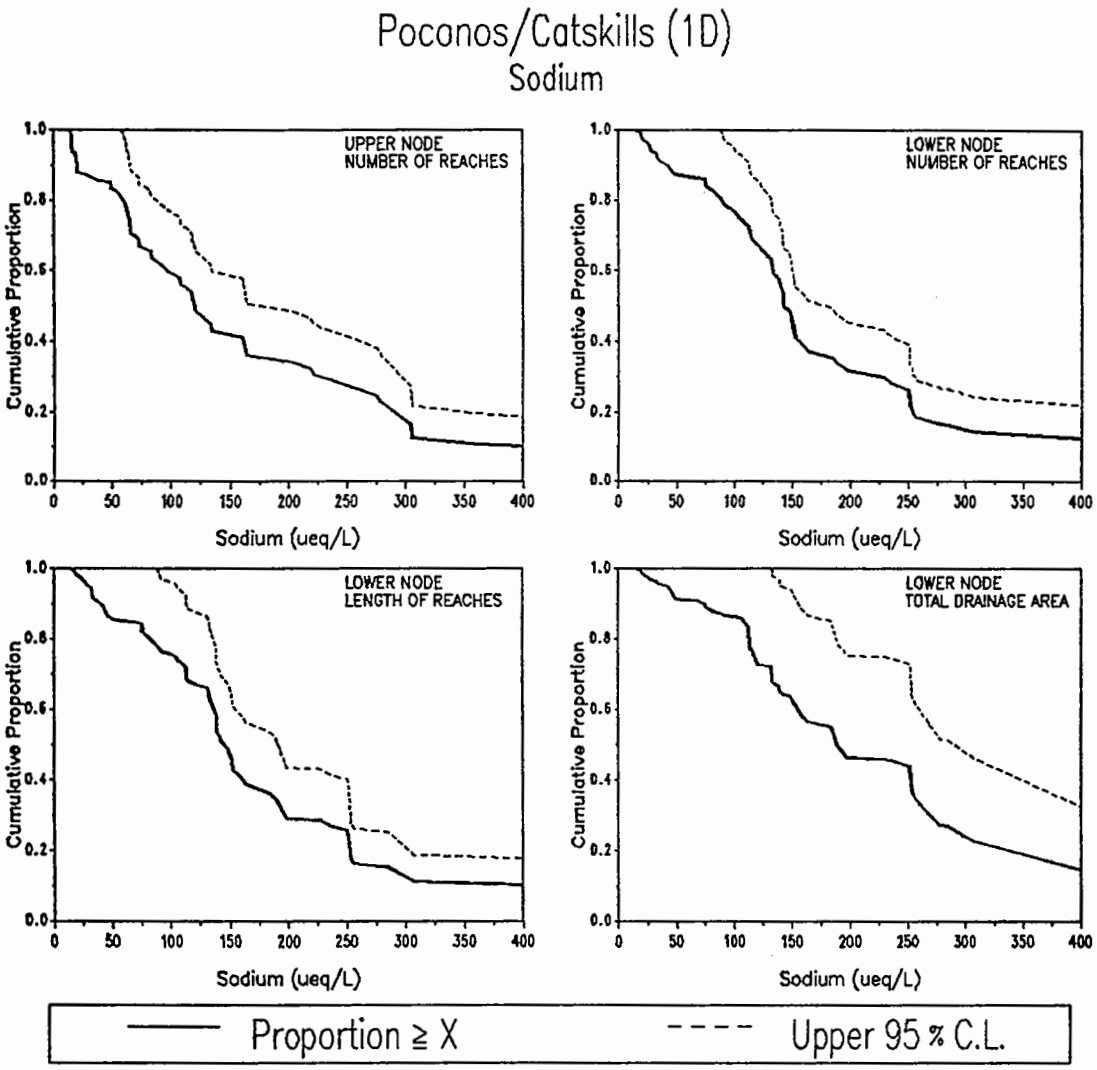
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (ueq/L)	158.10	166.38	170.16	158.10
40 % (ueq/L)	103.64	112.23	112.34	111.06
MEDIAN (ueq/L)	80.12	91.65	98.01	91.51
60 % (ueq/L)	67.62	77.71	78.38	66.45
80 % (ueq/L)	52.16	53.50	53.98	53.11

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	18.79	547.32	108.02	74.84
LOWER	189	20.18	726.45	118.65	89.60

Figure 5-221. Population estimates for Sodium (NA16) for the Southeastern Region.



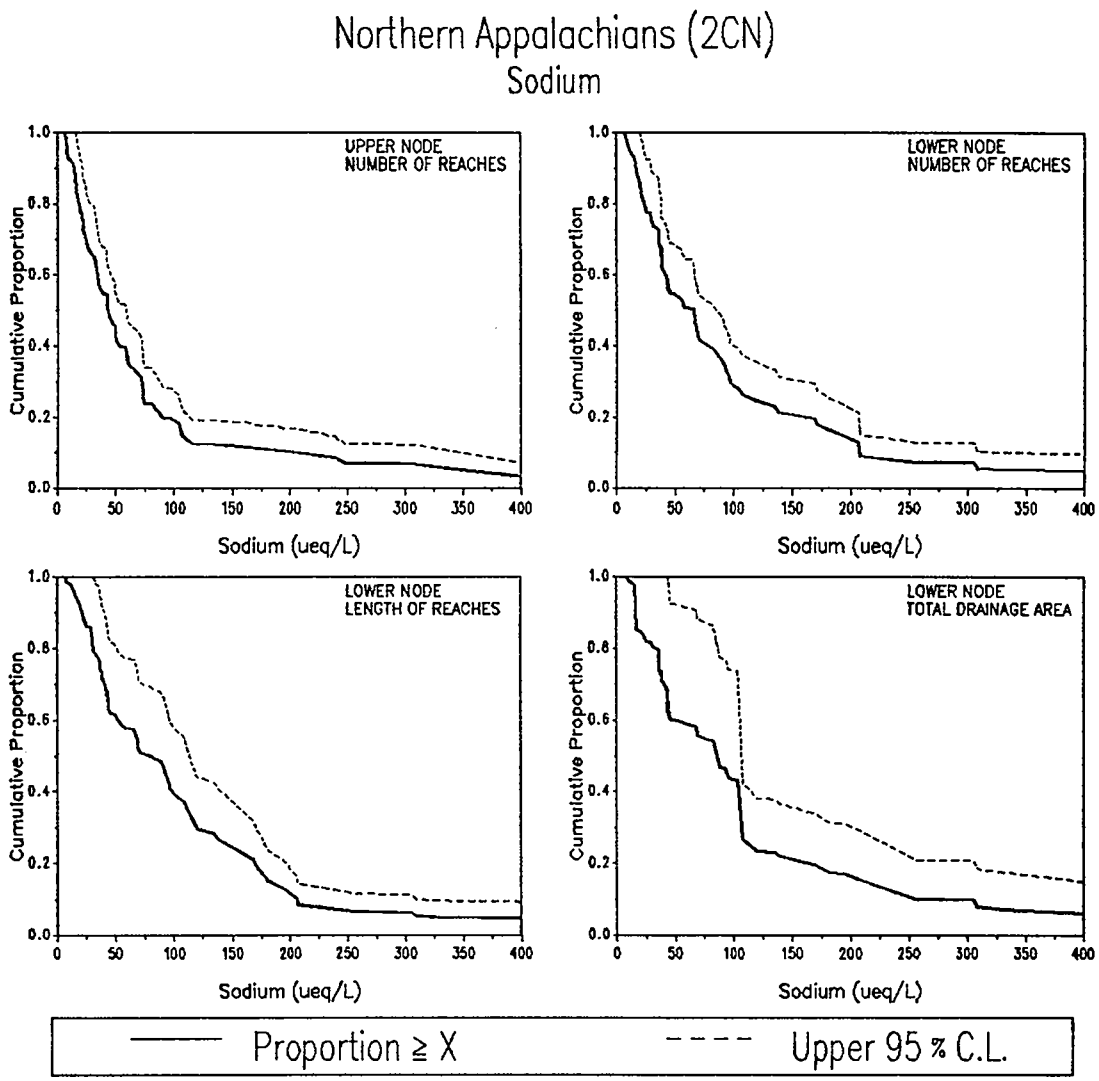
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (ueq/L)	277.55	251.72	250.84	291.02
40 % (ueq/L)	140.14	151.84	155.30	250.79
MEDIAN (ueq/L)	117.78	141.72	142.06	182.01
60 % (ueq/L)	89.96	131.88	132.86	151.75
80 % (ueq/L)	55.28	84.18	75.44	109.85

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	12.59	928.72	173.63	160.01
LOWER	56	14.79	643.17	189.71	152.63

Figure 5-222. Population estimates for Sodium (NA16) for the Poconos/Catskills subregion (1D).



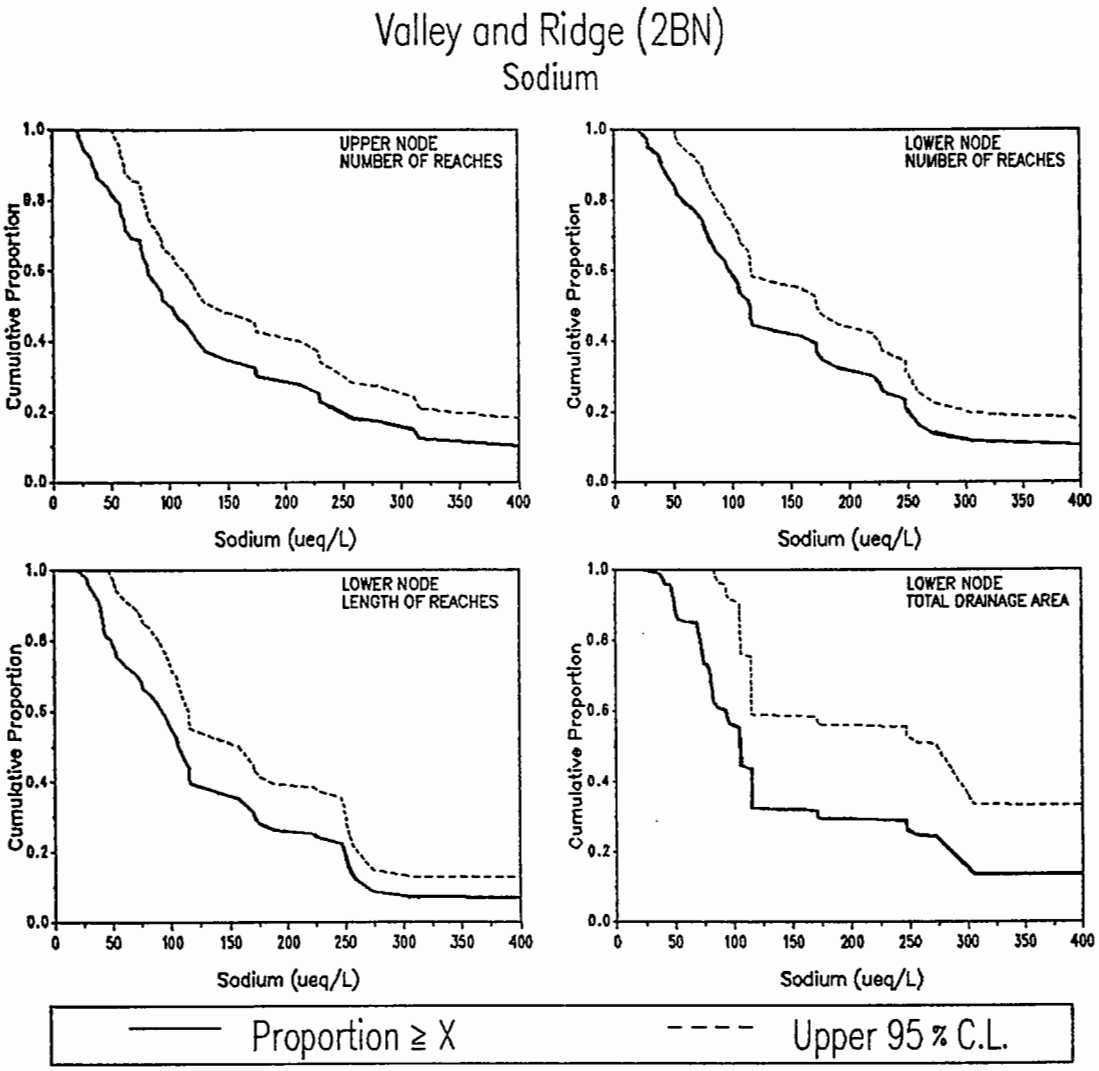
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (ueq/L)	82.65	137.21	154.17	137.78
40 % (ueq/L)	49.94	70.45	95.79	97.47
MEDIAN (ueq/L)	42.06	59.08	71.17	81.23
60 % (ueq/L)	33.05	38.98	47.72	45.10
80 % (ueq/L)	16.84	21.48	29.45	32.10

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	6.24	817.80	79.53	124.73
LOWER	61	7.42	1150.57	110.37	178.20

Figure 5-223. Population estimates for Sodium (NA16) for the Northern Appalachians subregion (2Cn).

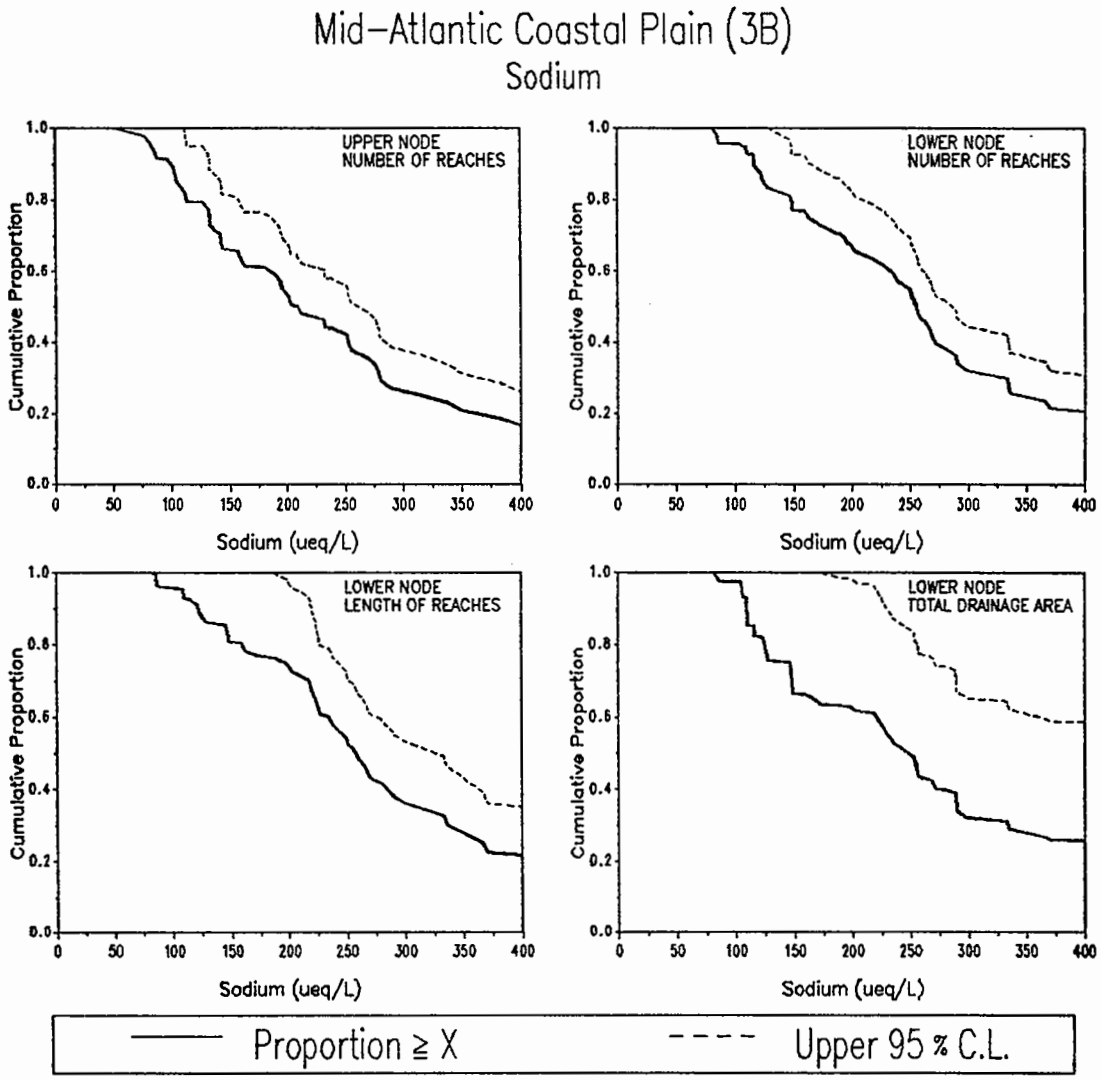


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (ueq/L)	232.14	247.88	247.84	264.44
40 % (ueq/L)	118.87	153.28	114.94	113.54
MEDIAN (ueq/L)	93.35	110.56	104.74	102.90
60 % (ueq/L)	79.81	93.43	86.35	87.35
80 % (ueq/L)	49.22	52.84	43.65	68.81

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	21.62	907.56	161.34	169.24
LOWER	47	19.57	1442.87	186.59	232.93

Figure 5-224. Population estimates for Sodium (NA16) for the Valley and Ridge subregion (2Bn).



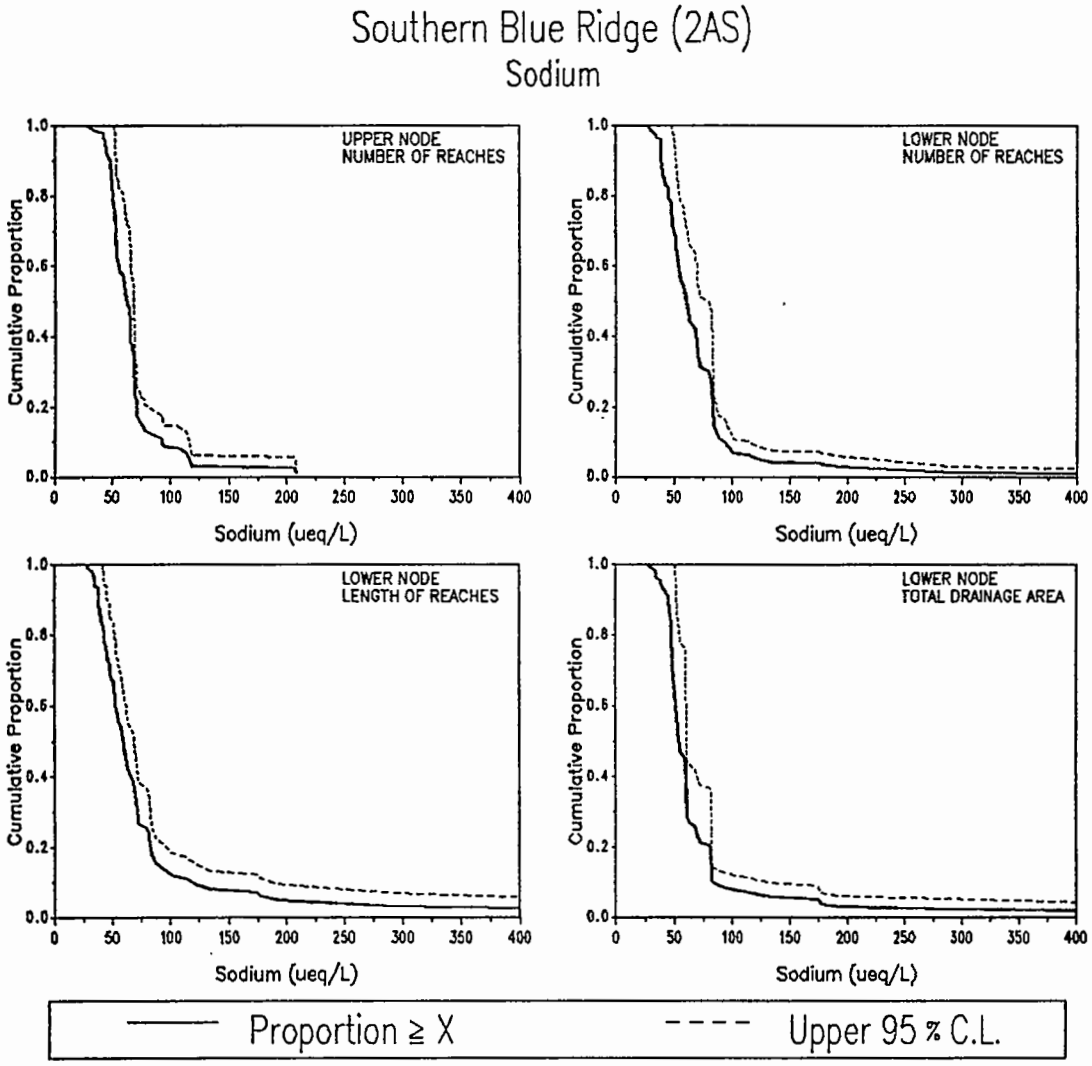
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (ueq/L)	342.51	369.02	394.42	731.18
40 % (ueq/L)	251.47	268.76	276.27	270.72
MEDIAN (ueq/L)	203.23	252.79	255.19	238.43
60 % (ueq/L)	173.18	223.83	227.33	206.75
80 % (ueq/L)	110.62	138.11	150.68	122.40

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	50.46	1119.52	265.13	206.21
LOWER	58	81.15	2836.11	365.53	438.21

Figure 5-225. Population estimates for Sodium (NA16) for the Mid-Atlantic Coastal Plain subregion (3B).

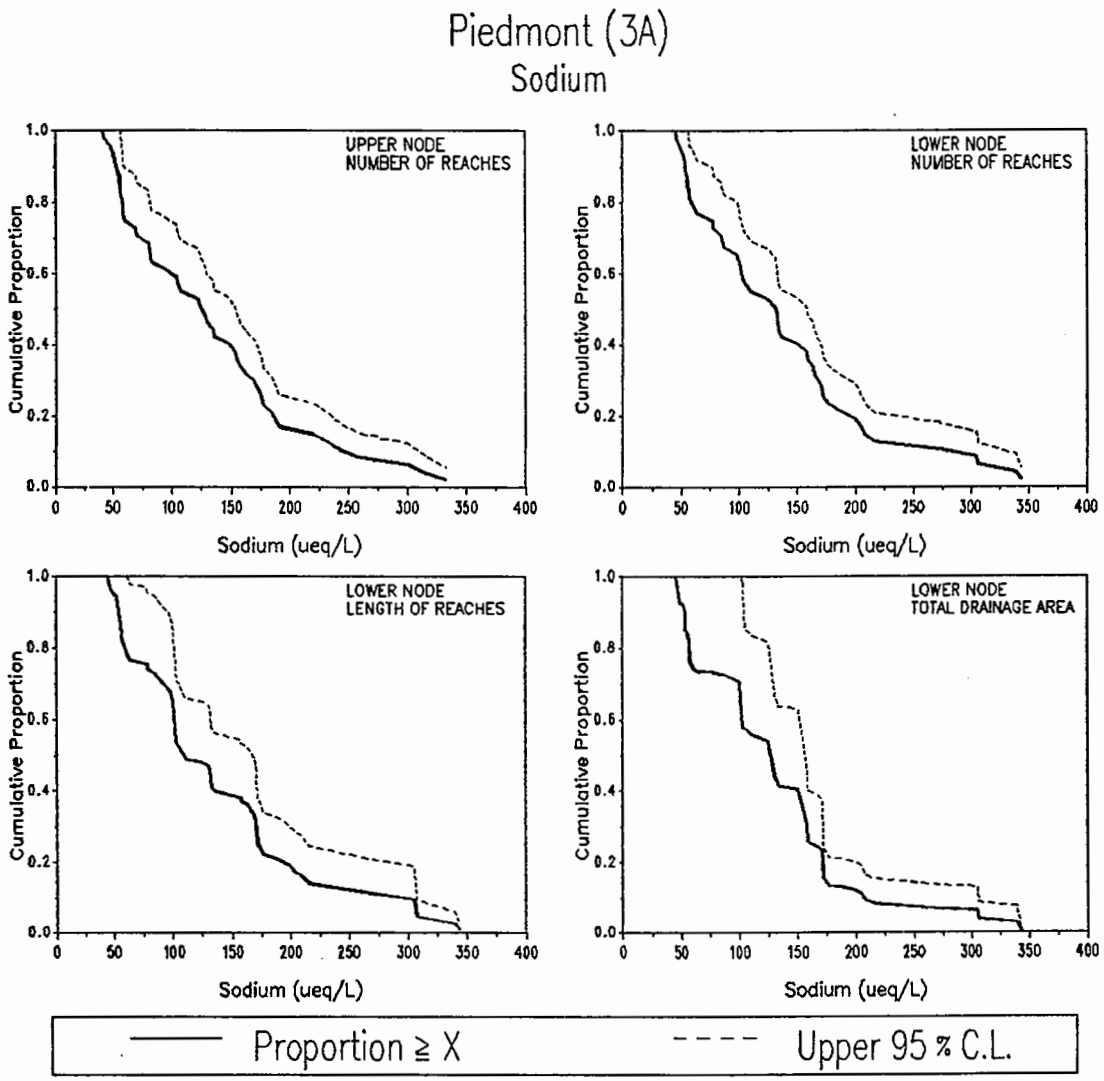


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (ueq/L)	69.11	81.53	81.59	78.89
40 % (ueq/L)	64.66	67.90	63.49	59.04
MEDIAN(ueq/L)	60.51	59.08	57.89	53.00
60 % (ueq/L)	53.65	52.88	52.74	50.70
80 % (ueq/L)	48.79	44.36	41.81	47.21

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	27.93	208.36	65.73	28.08
LOWER	54	27.86	726.45	68.53	47.22

Figure 5-226. Population estimates for Sodium (NA16) for the Southern Blue Ridge subregion (2As).



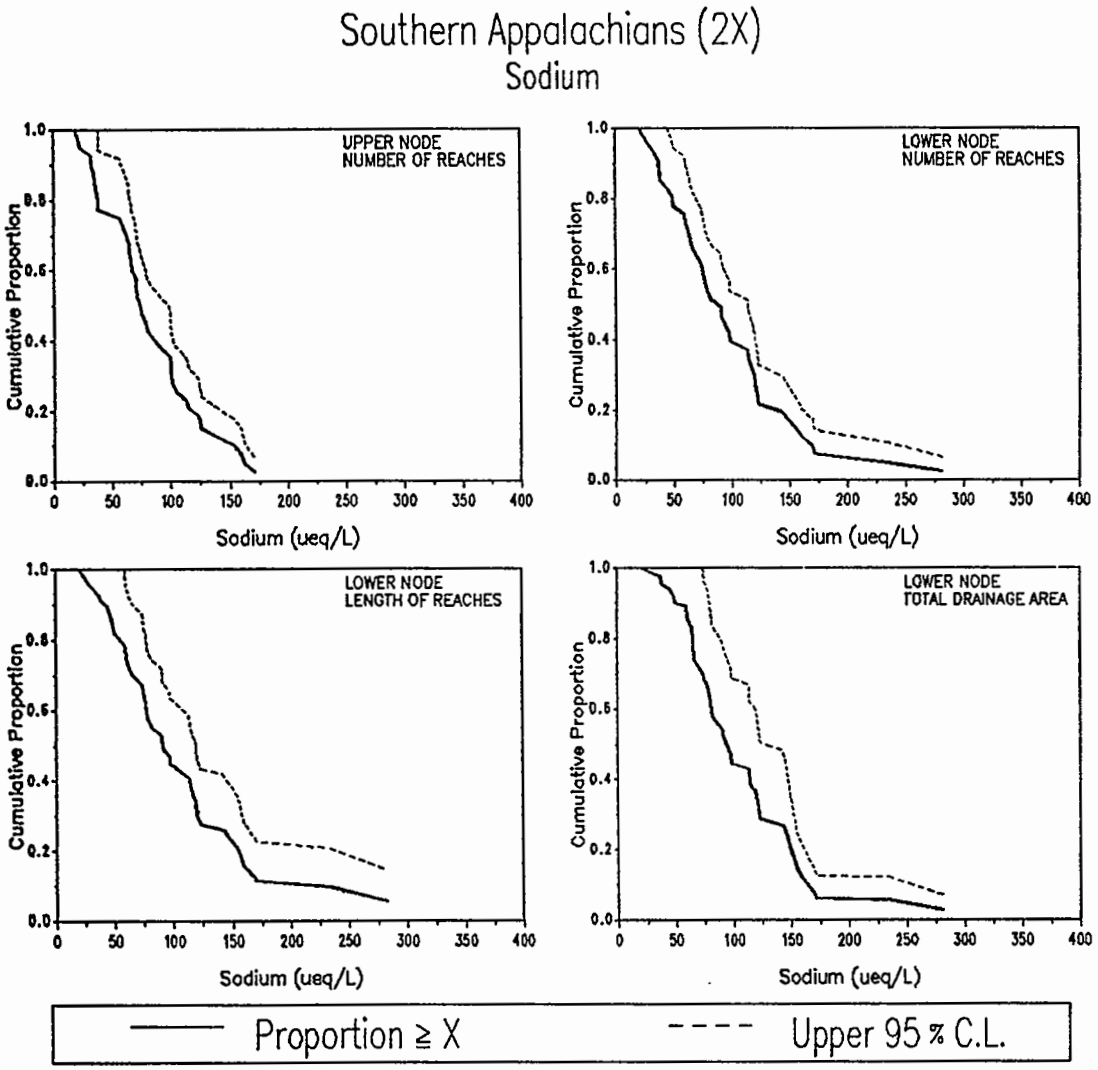
POPULATION ESTIMATES

	UPPER NODE		LOWER NODE	
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (ueq/L)	180.21	182.46	181.90	169.08
40 % (ueq/L)	136.55	136.98	133.16	136.26
MEDIAN (ueq/L)	123.26	126.76	104.14	116.12
60 % (ueq/L)	89.08	99.66	99.00	99.73
80 % (ueq/L)	56.65	57.06	57.04	56.13

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	40.67	331.99	131.14	75.21
LOWER	47	45.11	343.91	136.78	78.51

Figure 5-227. Population estimates for Sodium (NA16) for the Piedmont subregion (3A).



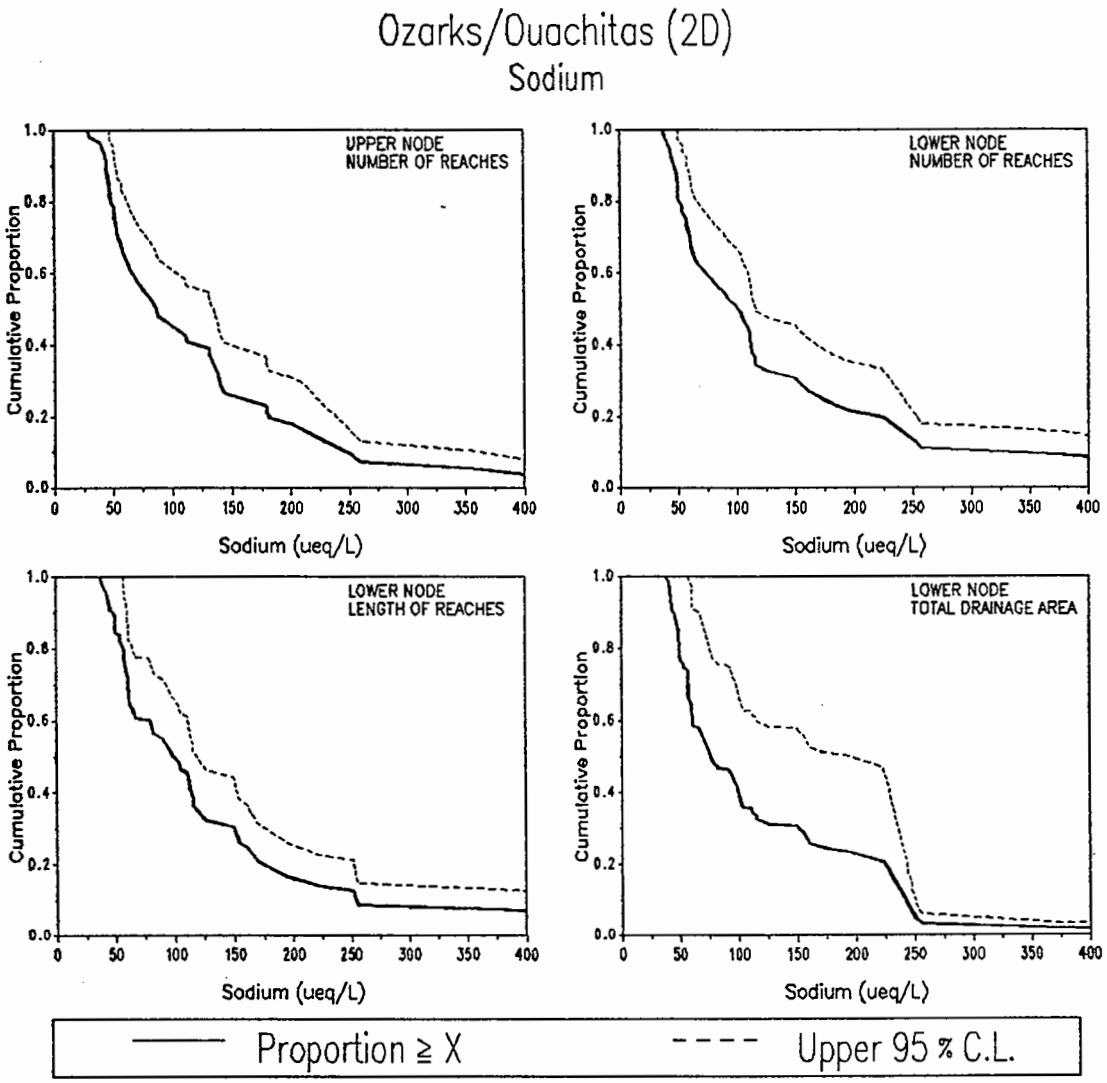
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (ueq/L)	113.10	121.95	143.75	133.89
40 % (ueq/L)	80.56	96.14	102.51	108.72
MEDIAN (ueq/L)	71.47	80.78	89.16	90.70
60 % (ueq/L)	66.19	69.78	76.24	77.93
80 % (ueq/L)	35.73	45.34	49.40	63.28

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	18.79	170.52	80.43	40.54
LOWER	40	20.18	281.88	94.60	54.88

Figure 5-228. Population estimates for Sodium (NA16) for the Southern Appalachians subregion (2X).

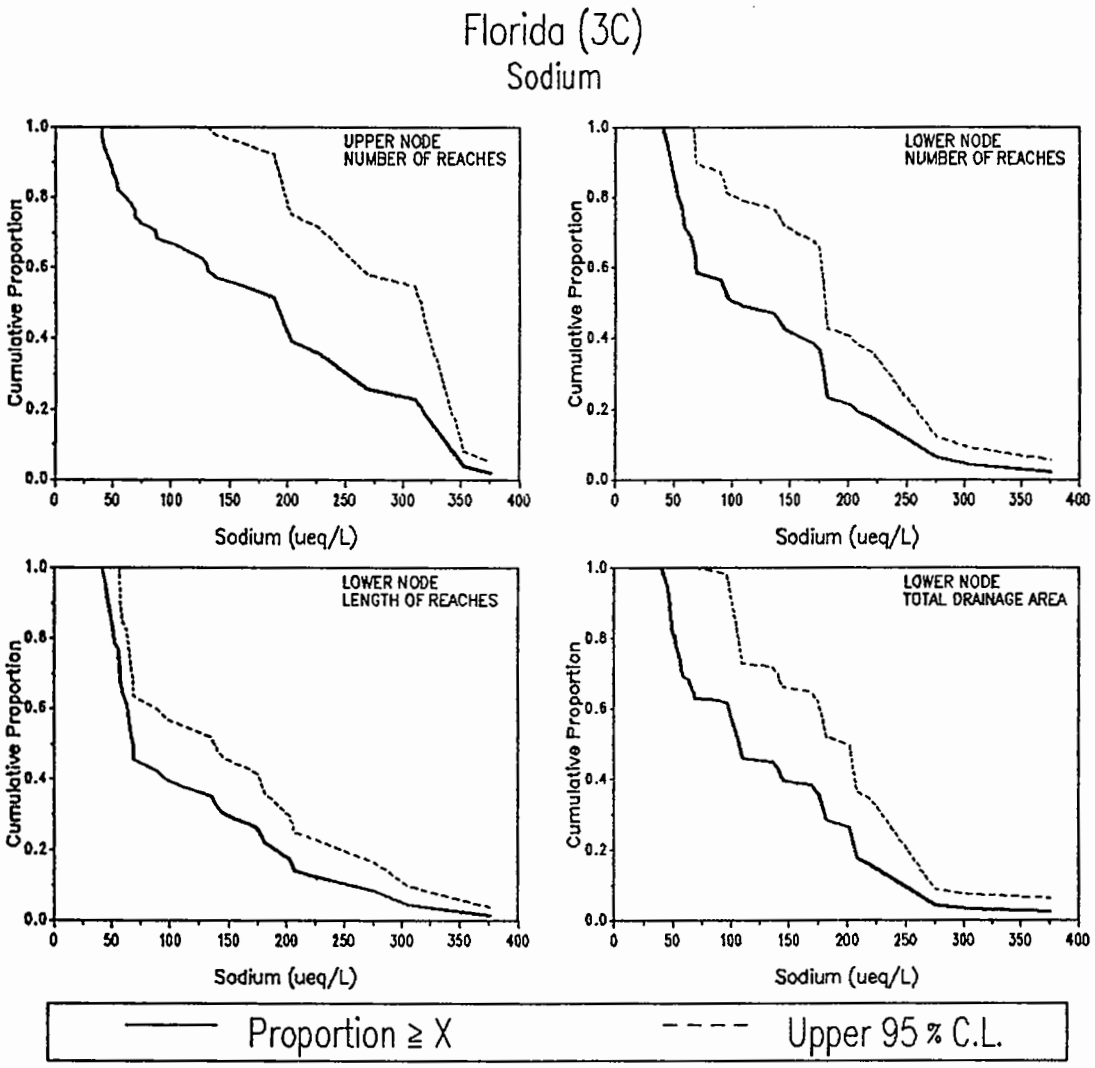


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (ueq/L)	178.60	192.75	164.95	195.28
40 % (ueq/L)	111.03	111.10	112.11	93.89
MEDIAN (ueq/L)	83.29	95.33	93.21	66.18
60 % (ueq/L)	62.59	65.56	67.58	60.14
80 % (ueq/L)	47.36	50.00	53.98	48.25

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	29.49	547.32	119.53	98.11
LOWER	48	37.28	607.48	139.83	132.13

Figure 5-229. Population estimates for Sodium (NA16) for the Ozarks/Ouachitas subregion (2D).

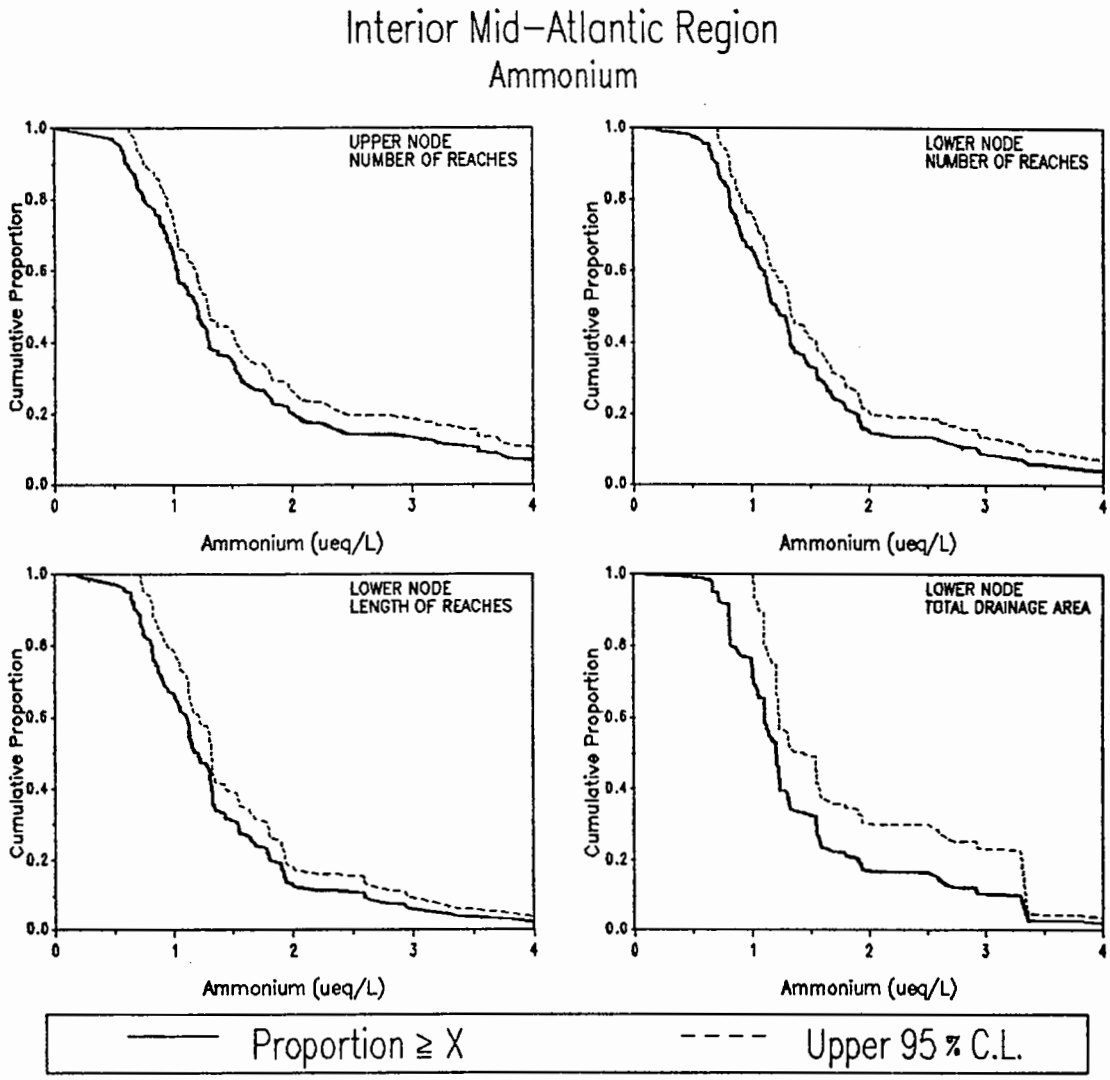


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (ueq/L)	275.09	193.97	177.94	196.36
40 % (ueq/L)	187.21	148.36	89.82	140.09
MEDIAN (ueq/L)	175.27	93.53	67.16	94.44
60 % (ueq/L)	127.56	68.02	59.18	90.30
80 % (ueq/L)	55.04	51.98	51.00	50.46

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	39.37	375.84	172.44	102.41
LOWER	34	40.45	375.84	127.64	80.39

Figure 5-230. Population estimates for Sodium (NA16) for Florida subregion (3C).

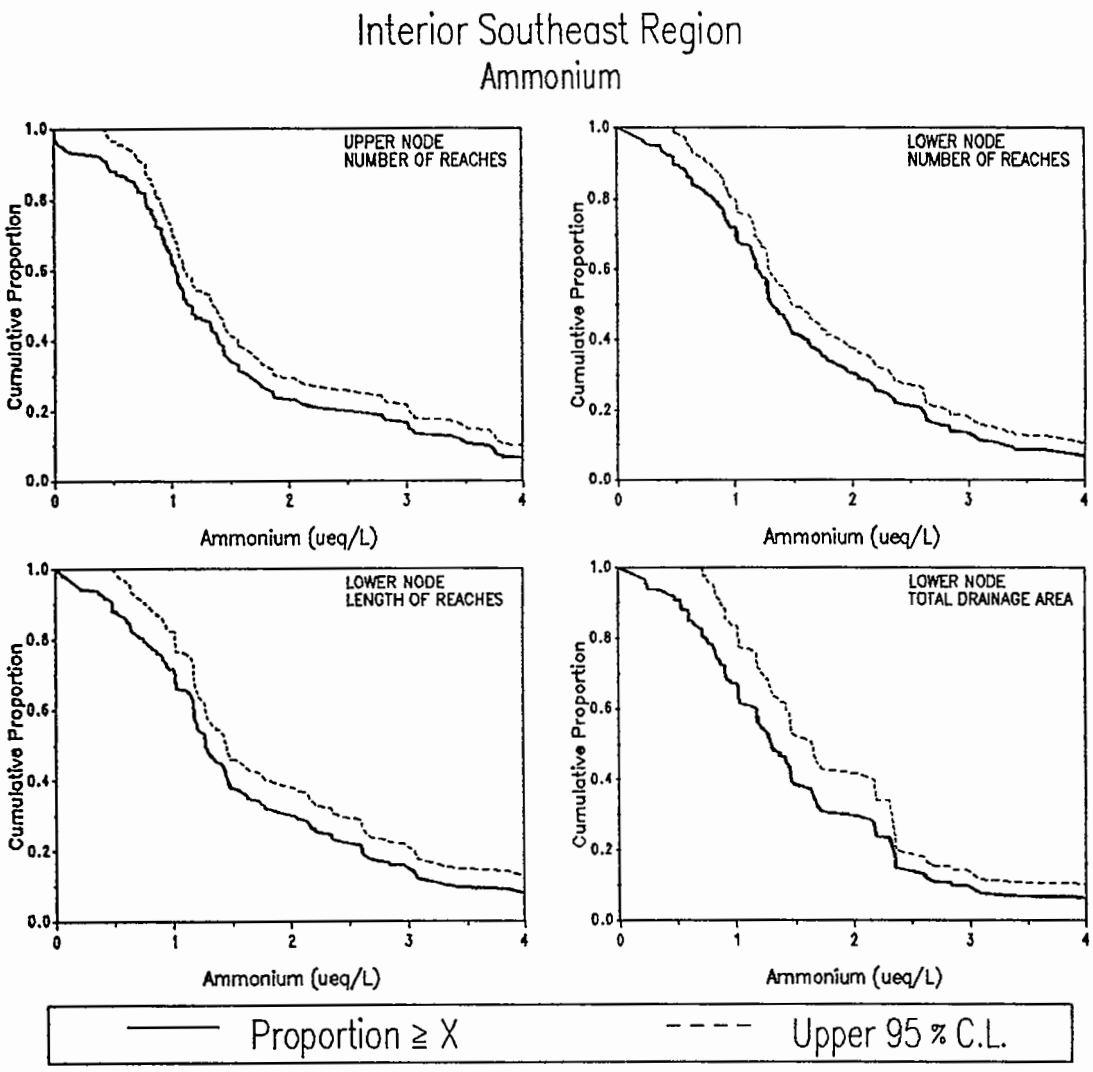


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (ueq/L)	1.97	1.81	1.79	1.89
40 % (ueq/L)	1.29	1.32	1.31	1.22
MEDIAN (ueq/L)	1.18	1.19	1.18	1.19
60 % (ueq/L)	1.02	1.09	1.10	1.11
80 % (ueq/L)	0.74	0.81	0.81	0.81

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	0.00	20.71	1.95	2.92
LOWER	164	0.02	8.22	1.53	1.21

Figure 5-231. Population estimates for Ammonium (NH416) for the Mid-Atlantic Region.

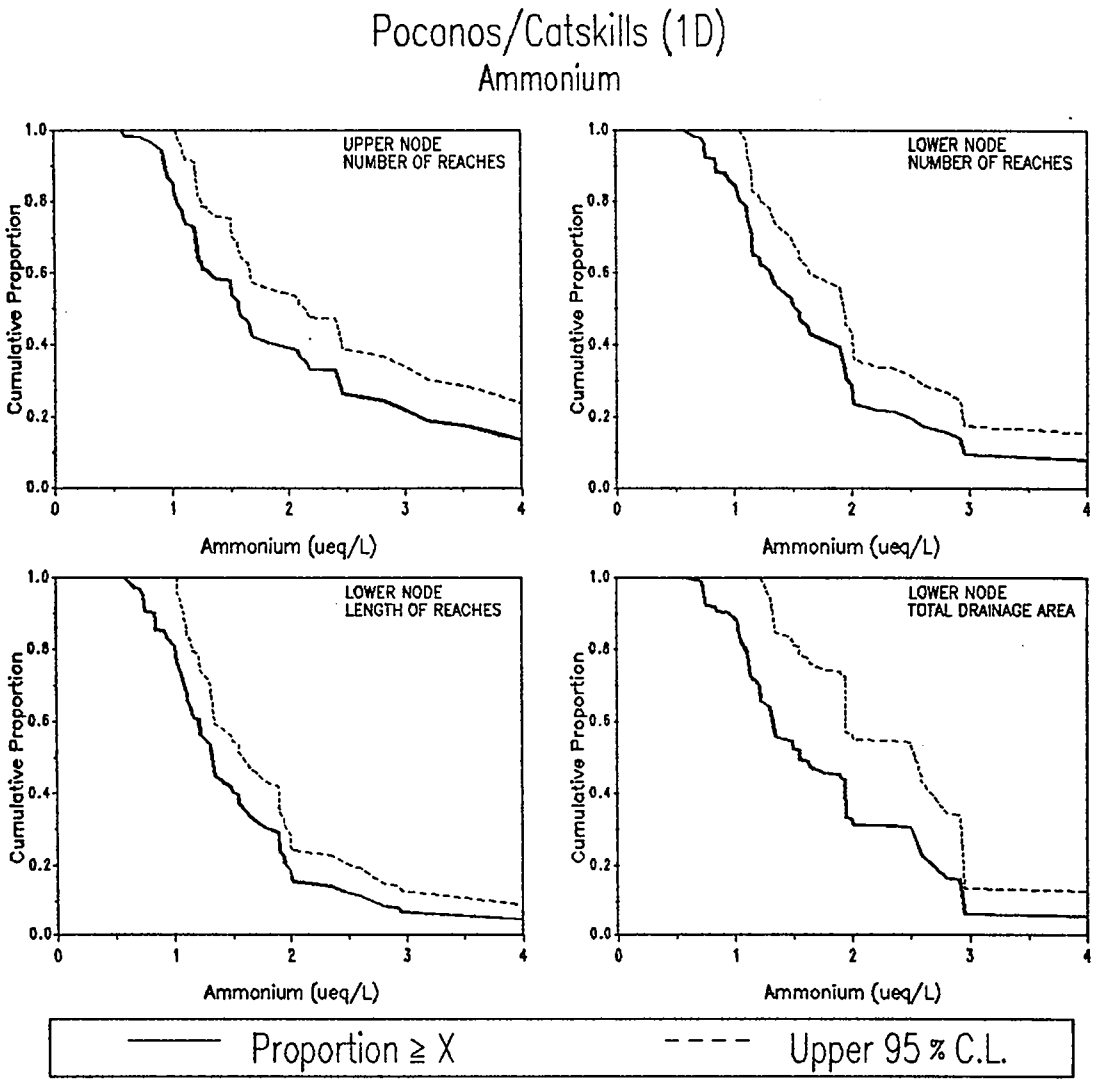


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (ueq/L)	2.32	2.57	2.61	2.27
40 % (ueq/L)	1.38	1.55	1.44	1.44
MEDIAN (ueq/L)	1.13	1.29	1.27	1.28
60 % (ueq/L)	1.02	1.17	1.17	1.16
80 % (ueq/L)	0.77	0.80	0.75	0.75

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	0.00	27.10	2.01	3.37
LOWER	189	0.00	66.75	2.40	6.53

Figure 5-232.Population estimates for Ammonium (NH416) for the Southeastern Region.



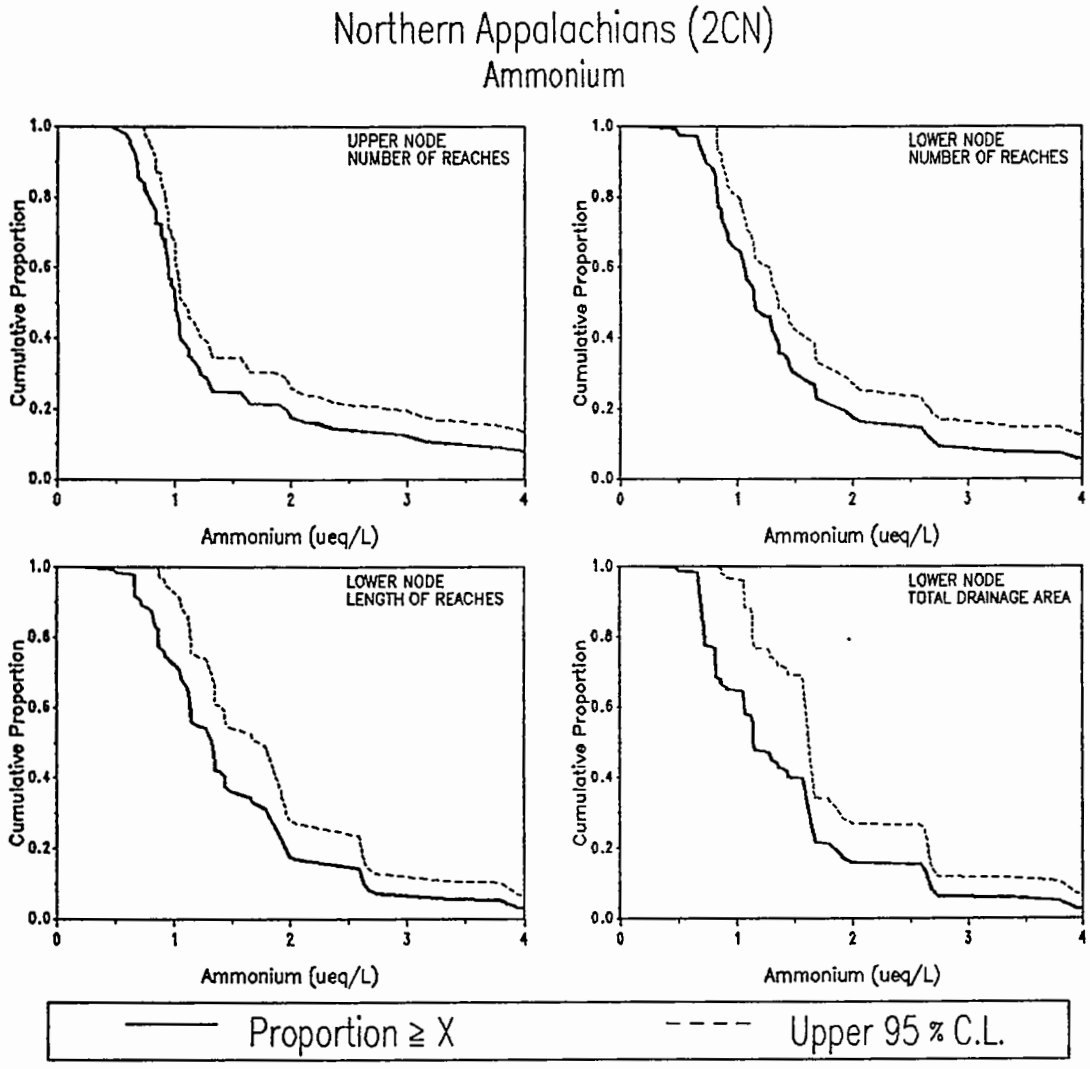
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (ueq/L)	3.00	2.32	1.94	2.54
40 % (ueq/L)	1.72	1.72	1.49	1.91
MEDIAN (ueq/L)	1.56	1.49	1.30	1.54
60 % (ueq/L)	1.27	1.30	1.18	1.30
80 % (ueq/L)	1.03	1.03	0.96	1.05

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	0.57	17.63	2.34	2.51
LOWER	56	0.58	8.22	1.85	1.30

Figure 5-233. Population estimates for Ammonium (NH416) for the Poconos/Catskills subregion (1D).

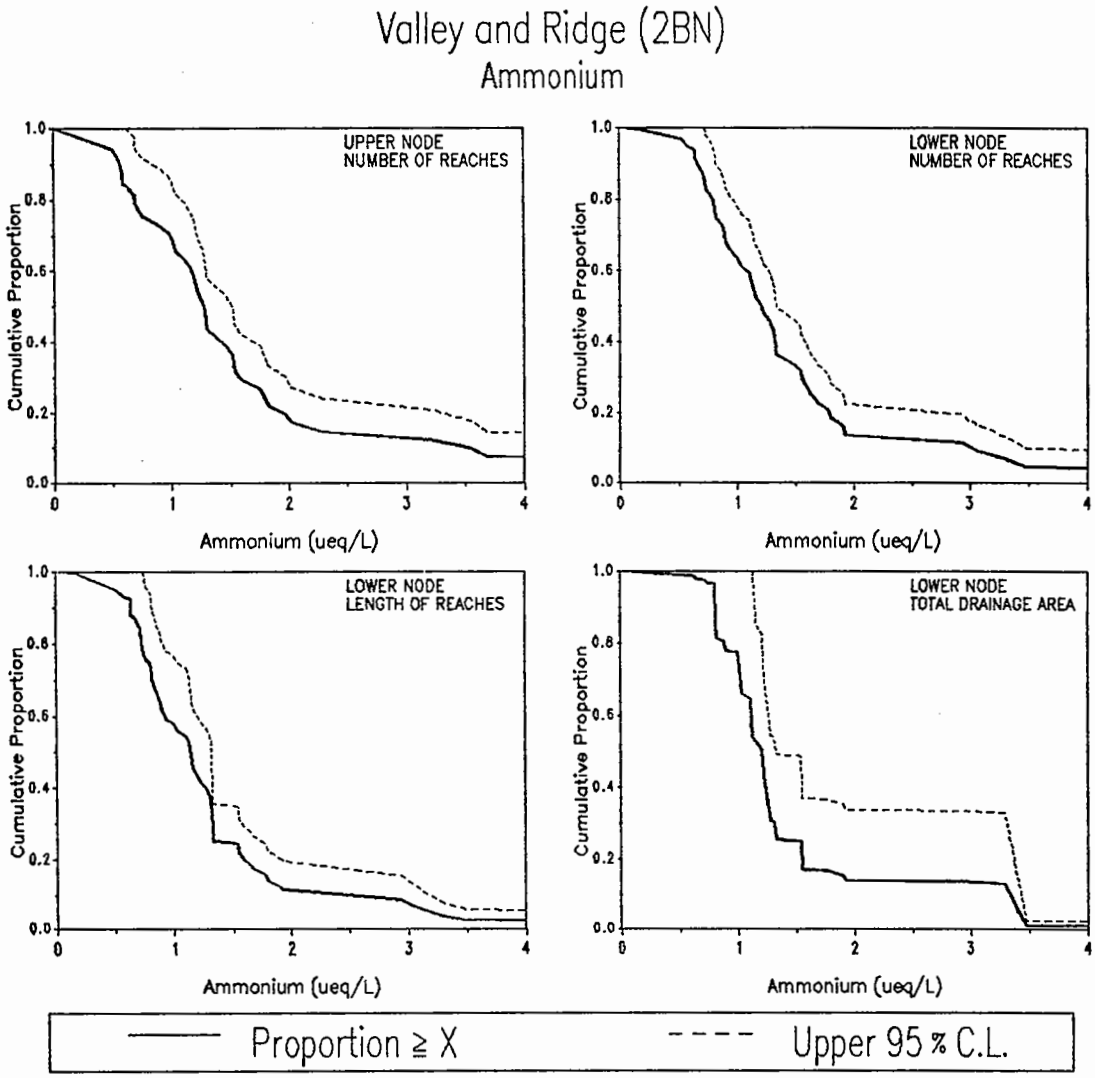


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (ueq/L)	1.89	1.76	1.91	1.72
40 % (ueq/L)	1.03	1.31	1.40	1.44
MEDIAN (ueq/L)	0.99	1.14	1.31	1.13
60 % (ueq/L)	0.93	1.05	1.14	1.05
80 % (ueq/L)	0.75	0.82	0.86	0.71

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	0.47	10.91	1.59	1.76
LOWER	61	0.20	5.98	1.52	1.14

Figure 5-234. Population estimates for Ammonium (NH416) for the Northern Appalachians subregion (2Cn).

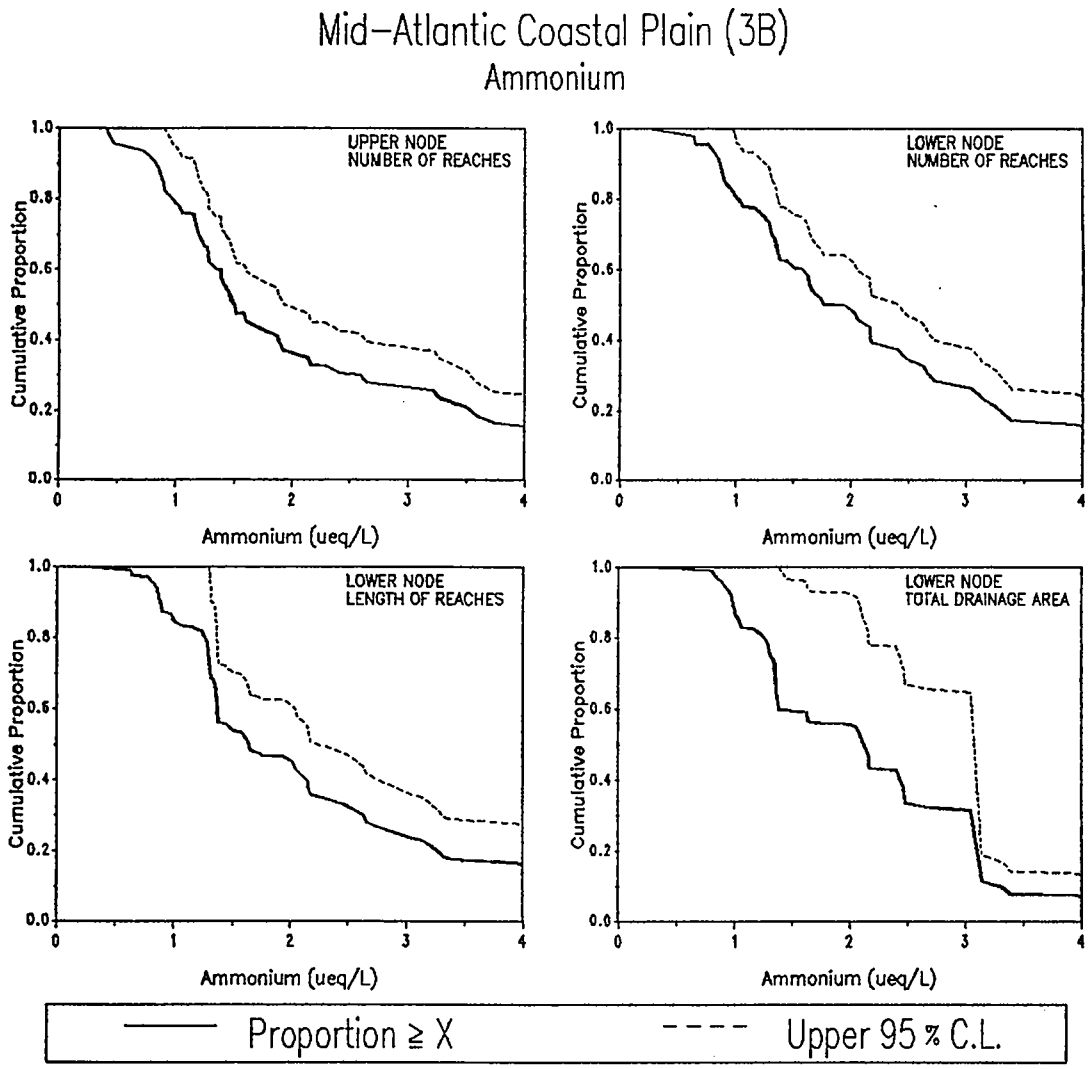


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (ueq/L)	1.81	1.70	1.55	1.51
40 % (ueq/L)	1.34	1.31	1.23	1.21
MEDIAN (ueq/L)	1.25	1.16	1.11	1.16
60 % (ueq/L)	1.13	1.02	0.89	1.06
80 % (ueq/L)	0.66	0.76	0.72	0.84

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	0.00	20.71	2.09	3.55
LOWER	47	0.02	7.98	1.47	1.23

Figure 5-235. Population estimates for Ammonium (NH416) for the Valley and Ridge subregion (2Bn).

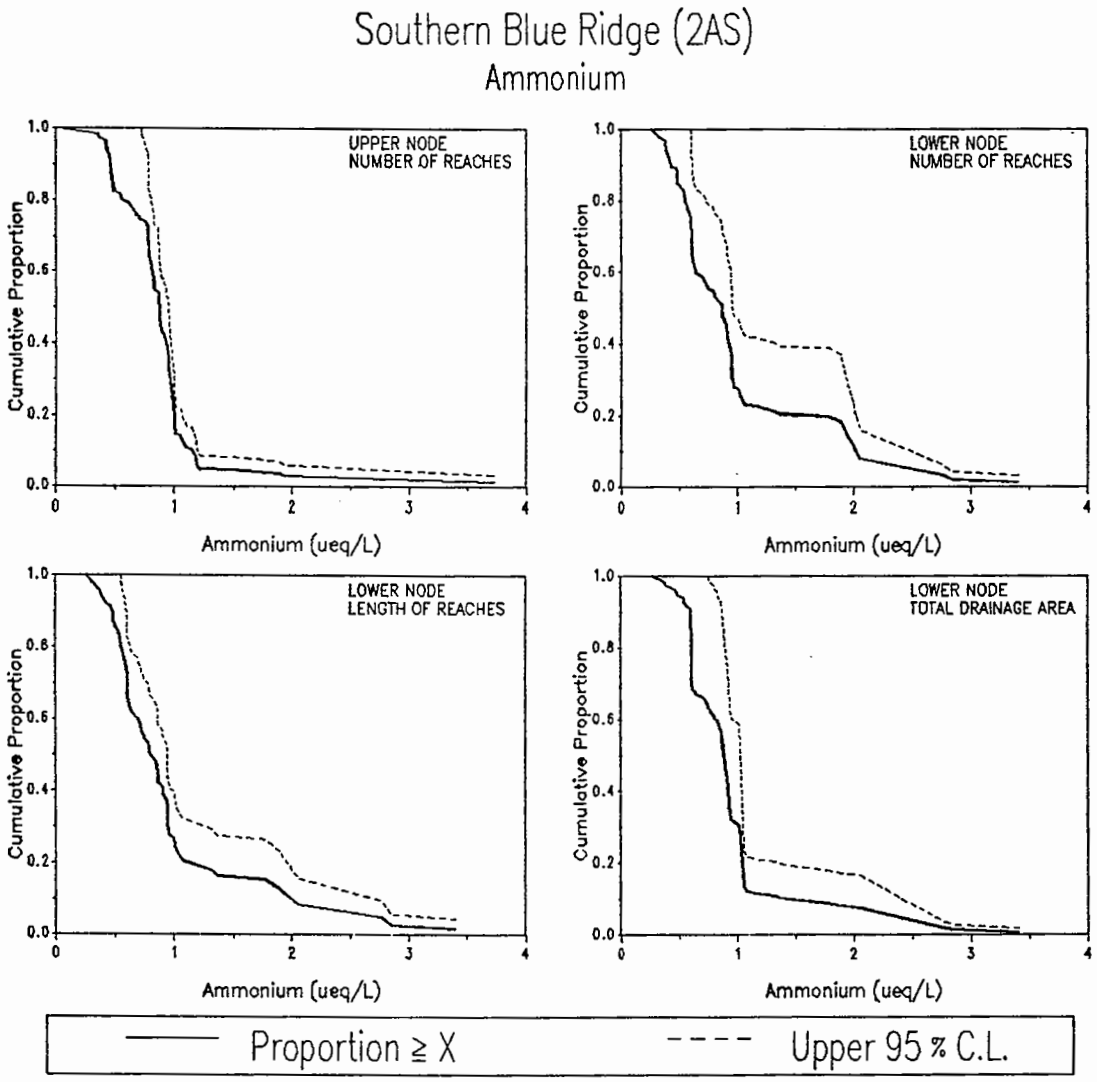


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (ueq/L)	3.47	3.20	3.16	2.91
40 % (ueq/L)	1.80	2.16	2.05	2.30
MEDIAN (ueq/L)	1.47	1.76	1.62	2.04
60 % (ueq/L)	1.29	1.52	1.35	1.36
80 % (ueq/L)	0.90	0.99	1.20	1.19

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	0.40	23.58	3.02	4.29
LOWER	58	0.25	91.32	4.90	13.91

Figure 5-236. Population estimates for Ammonium (NH416) for the Mid-Atlantic Coastal Plain subregion (3B).



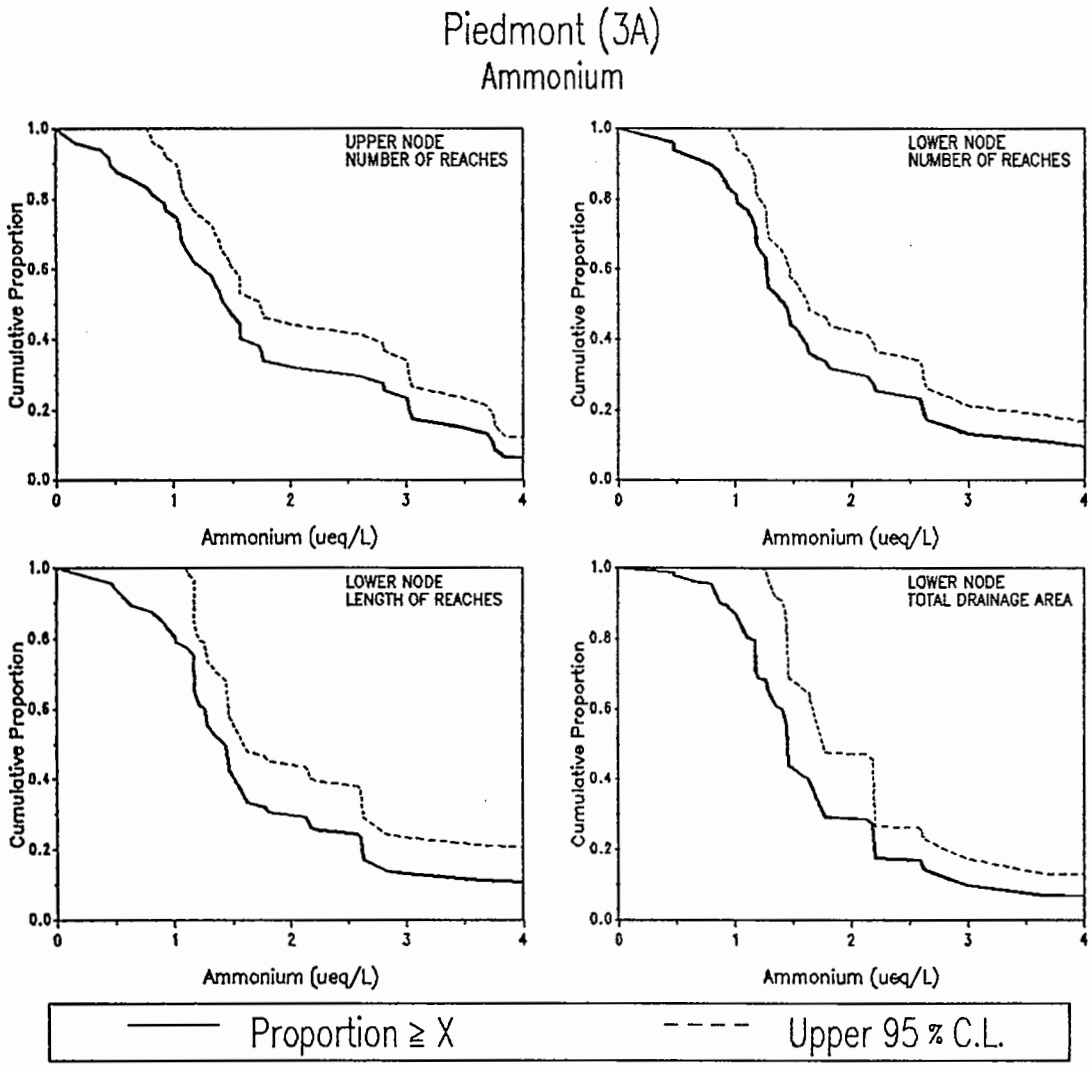
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (ueq/L)	1.00	1.35	1.07	1.01
40 % (ueq/L)	0.90	0.90	0.88	0.90
MEDIAN(ueq/L)	0.85	0.86	0.79	0.86
60 % (ueq/L)	0.79	0.62	0.65	0.79
80 % (ueq/L)	0.53	0.54	0.54	0.59

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	0.03	3.73	0.86	0.43
LOWER	54	0.25	3.40	0.98	0.62

Figure 5-237. Population estimates for Ammonium (NH416) for the Southern Blue Ridge subregion (2As).



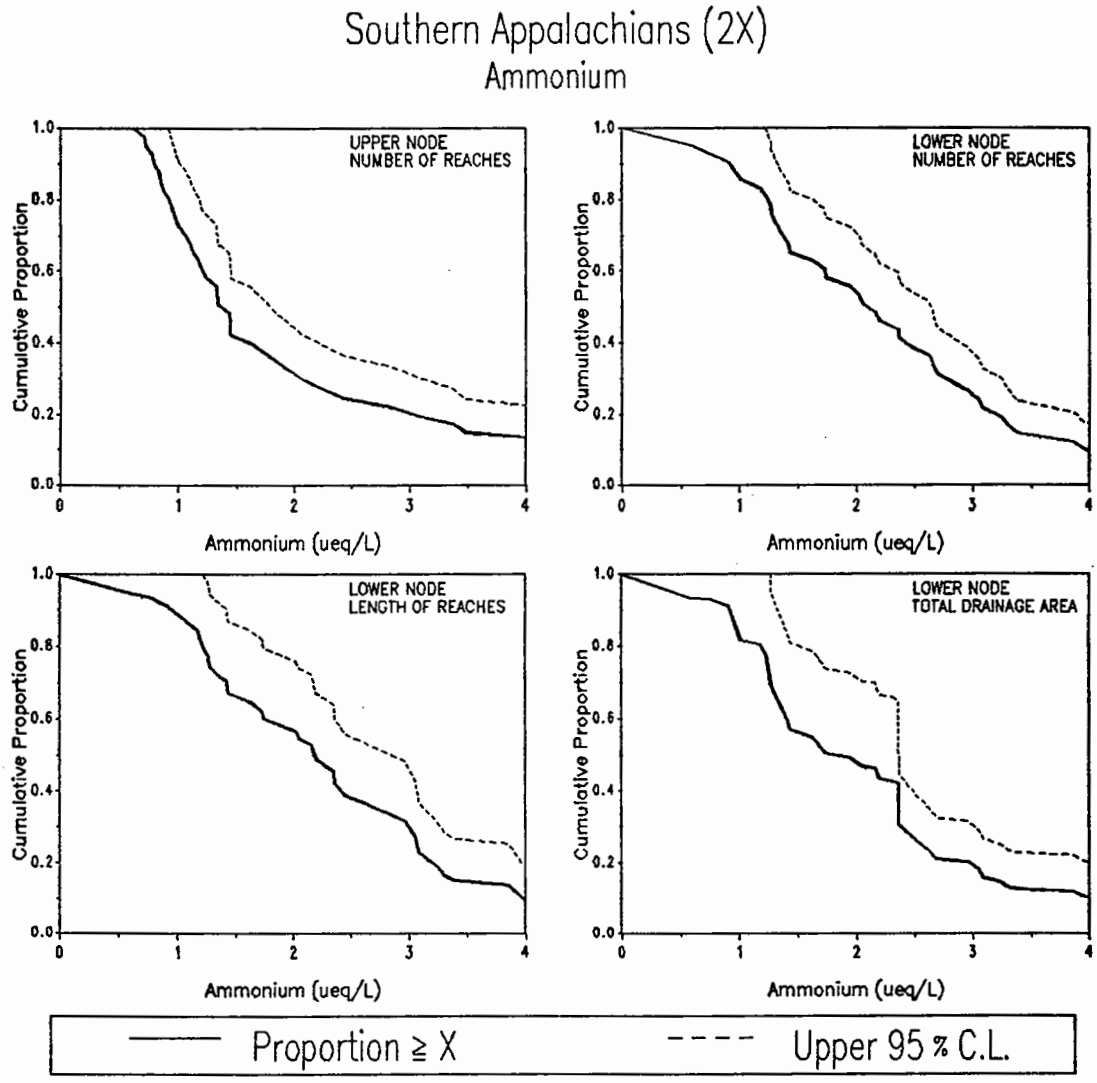
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (ueq/L)	2.96	2.59	2.60	2.16
40 % (ueq/L)	1.56	1.54	1.47	1.61
MEDIAN (ueq/L)	1.39	1.37	1.38	1.42
60 % (ueq/L)	1.13	1.26	1.22	1.34
80 % (ueq/L)	0.80	0.98	0.97	1.09

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	0.00	20.28	2.14	2.93
LOWER	47	0.00	66.75	3.38	10.01

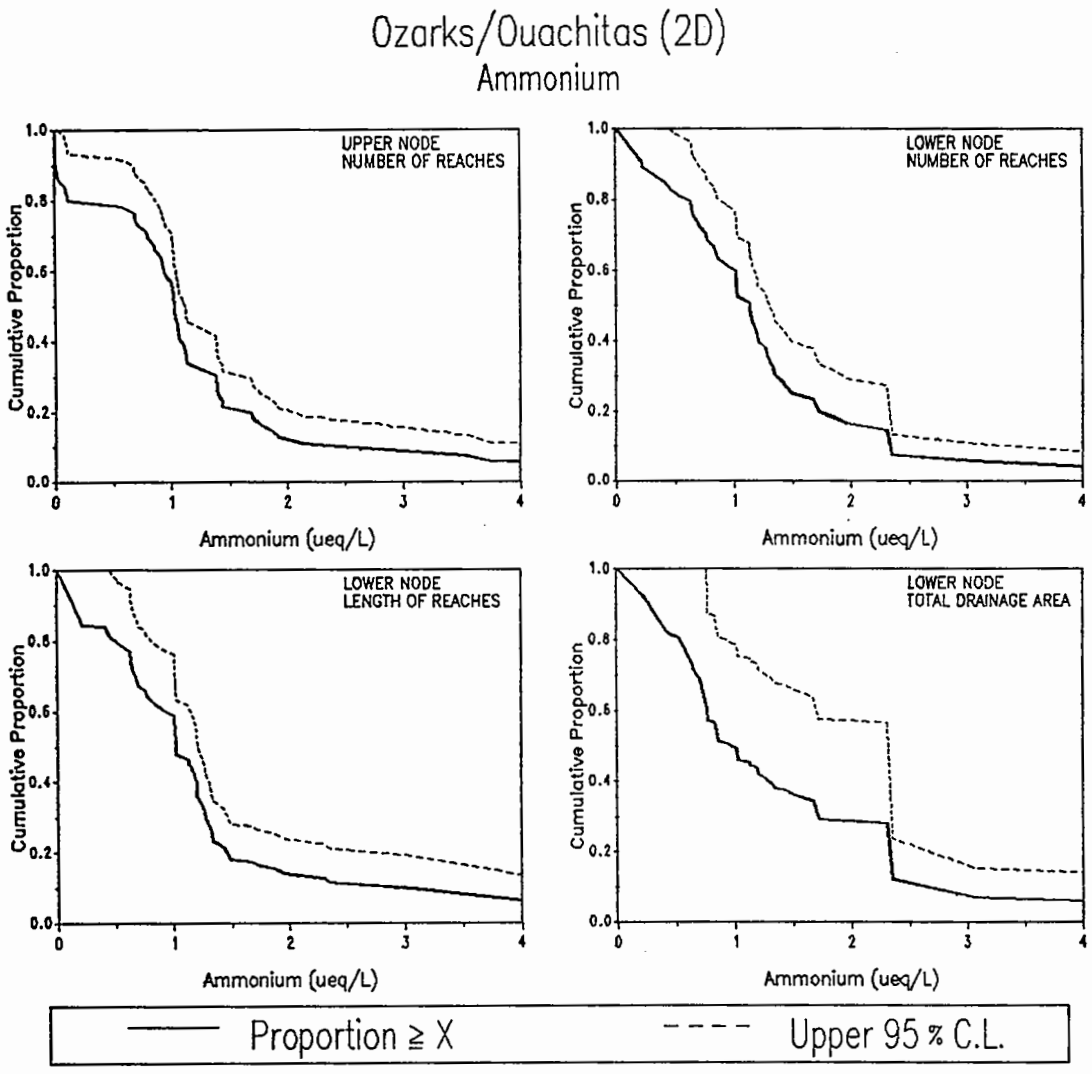
Figure 5-238. Population estimates for Ammonium (NH416) for the Piedmont subregion (3A).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (ueq/L)	2.78	3.07	3.07	2.83
40 % (ueq/L)	1.44	2.35	2.35	2.22
MEDIAN (ueq/L)	1.33	2.03	2.12	1.73
60 % (ueq/L)	1.18	1.64	1.72	1.34
80 % (ueq/L)	0.86	1.19	1.16	1.04

SUMMARY STATISTICS (ueq/L)					
		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	0.62	27.10	2.65	4.48
LOWER	40	0.00	11.60	2.41	1.94

Figure 5-239. Population estimates for Ammonium (NH416) for the Southern Appalachians subregion (2X).

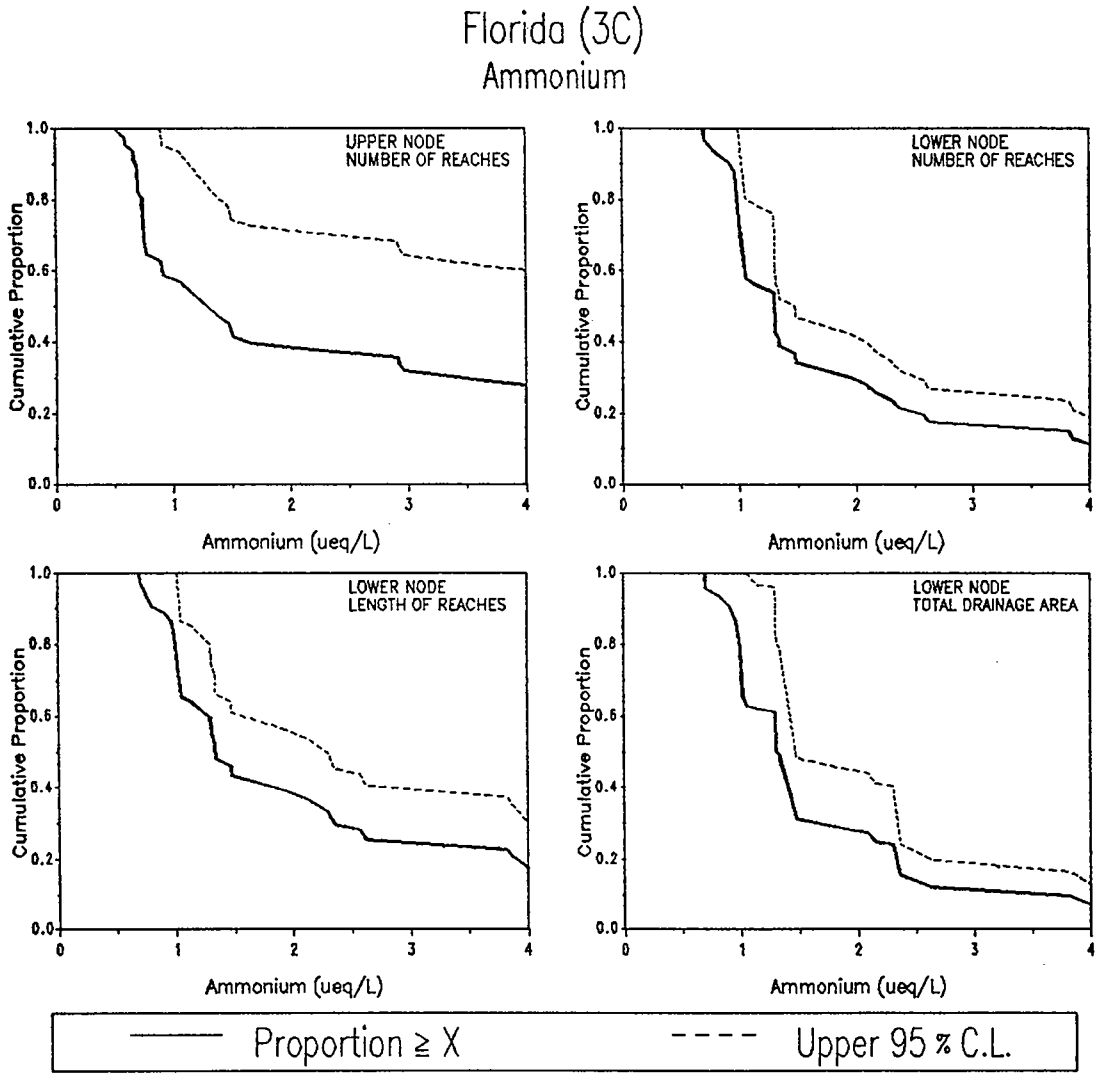


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (ueq/L)	1.44	1.66	1.41	2.13
40 % (ueq/L)	1.06	1.19	1.16	1.27
MEDIAN(ueq/L)	1.02	1.06	1.02	0.89
60 % (ueq/L)	0.92	0.92	0.87	0.72
80 % (ueq/L)	0.08	0.50	0.44	0.46

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	0.00	19.58	1.61	3.16
LOWER	48	0.00	11.32	1.33	1.57

Figure 5-240. Population estimates for Ammonium (NH416) for the Ozarks/Ouachitas subregion (2D).



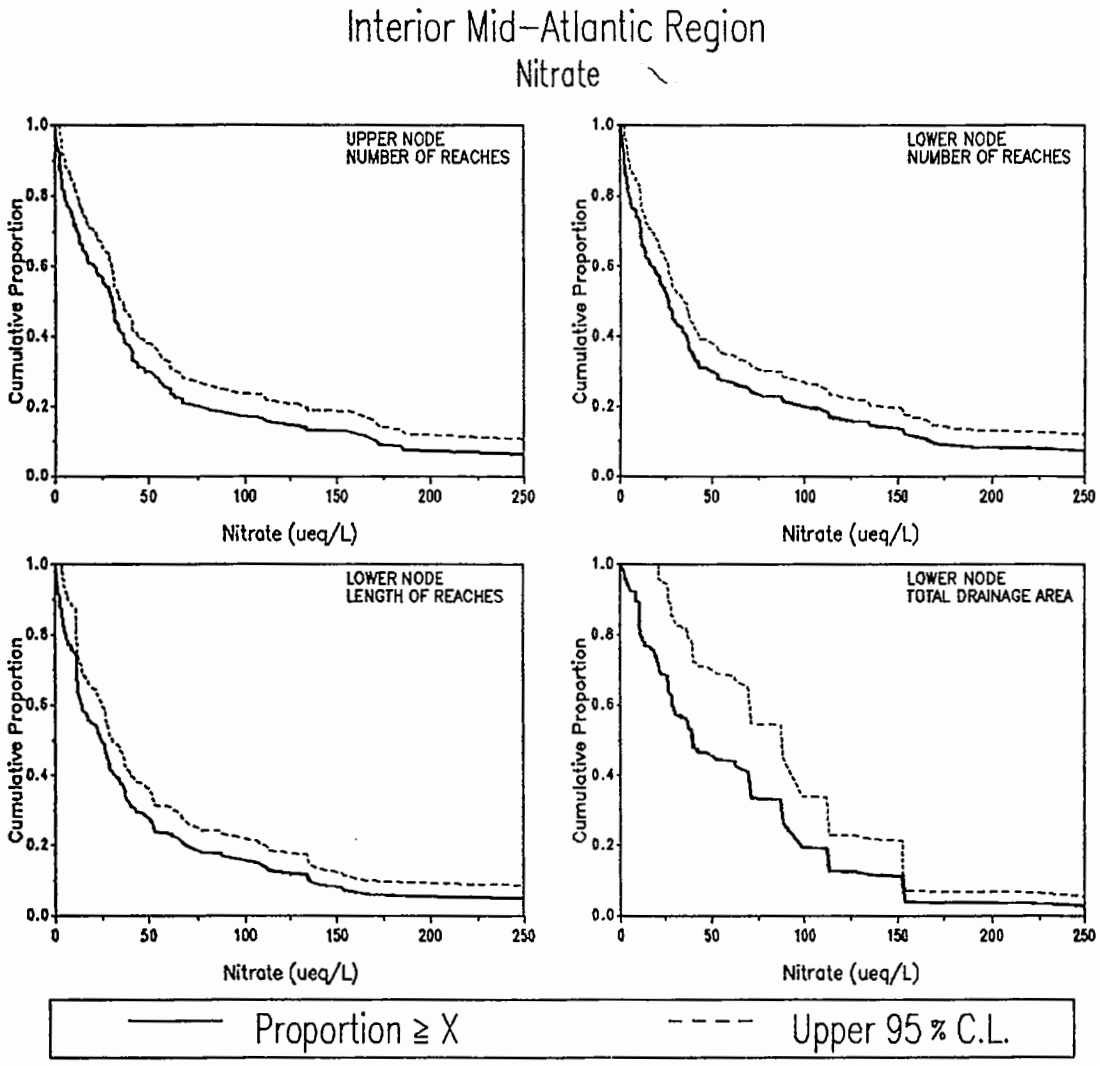
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (ueq/L)	9.12	2.34	3.82	2.22
40 % (ueq/L)	1.50	1.31	1.47	1.33
MEDIAN (ueq/L)	1.01	1.20	1.32	1.29
60 % (ueq/L)	0.90	1.01	1.13	1.16
80 % (ueq/L)	0.70	0.94	0.97	0.96

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	0.50	13.24	3.92	4.87
LOWER	34	0.69	18.07	2.12	2.70

Figure 5-241. Population estimates for Ammonium (NH416) for Florida subregion (3C).



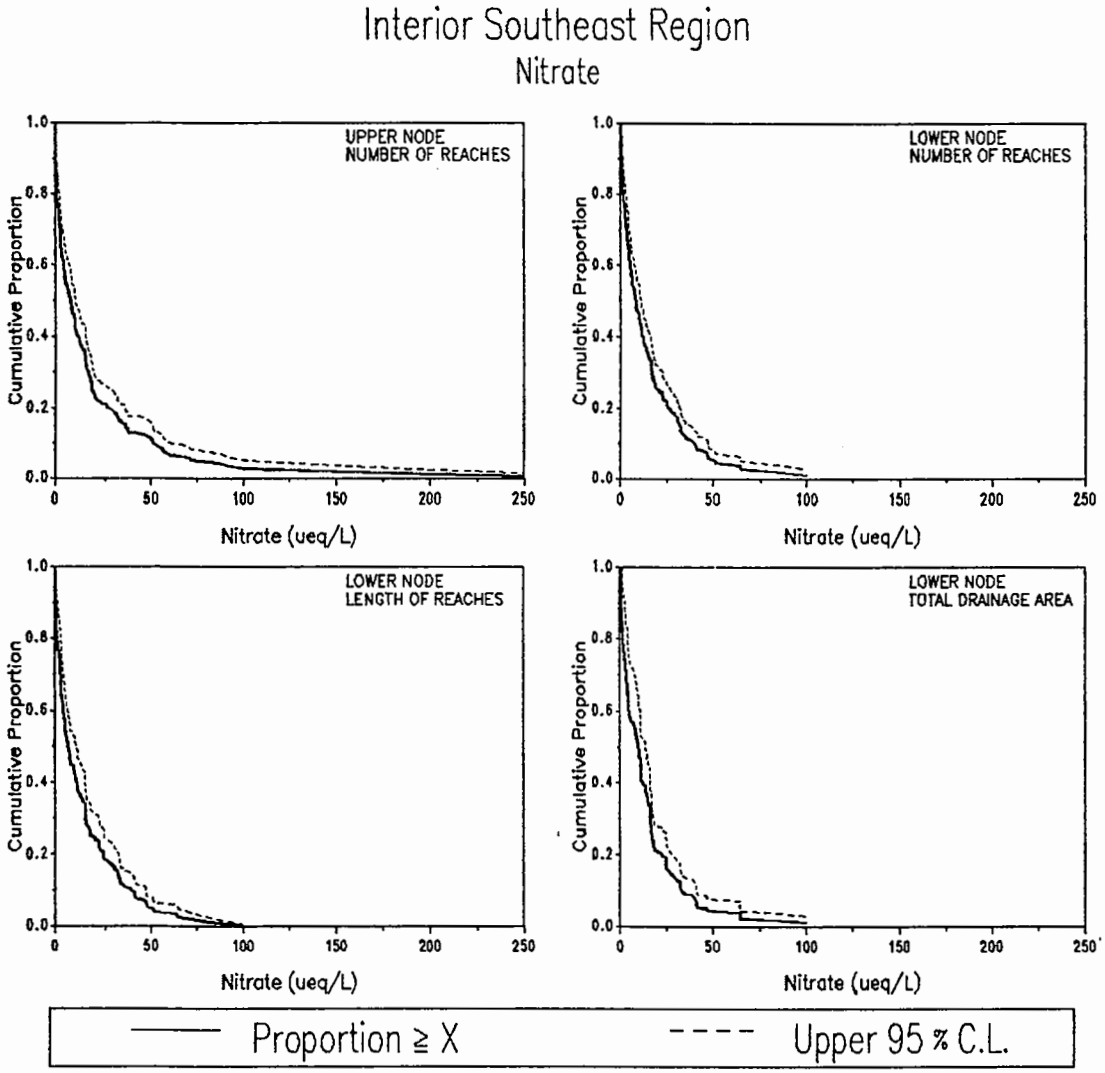
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (ueq/L)	68.80	90.15	64.61	88.12
40 % (ueq/L)	35.81	35.49	30.82	65.41
MEDIAN (ueq/L)	29.71	25.95	24.18	38.54
60 % (ueq/L)	20.09	17.30	13.95	28.54
80 % (ueq/L)	4.69	4.99	5.39	11.52

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	0.05	653.76	65.76	117.02
LOWER	164	0.00	556.25	64.12	102.19

Figure 5-242. Population estimates for Nitrate (NO316) for the Mid-Atlantic Region.



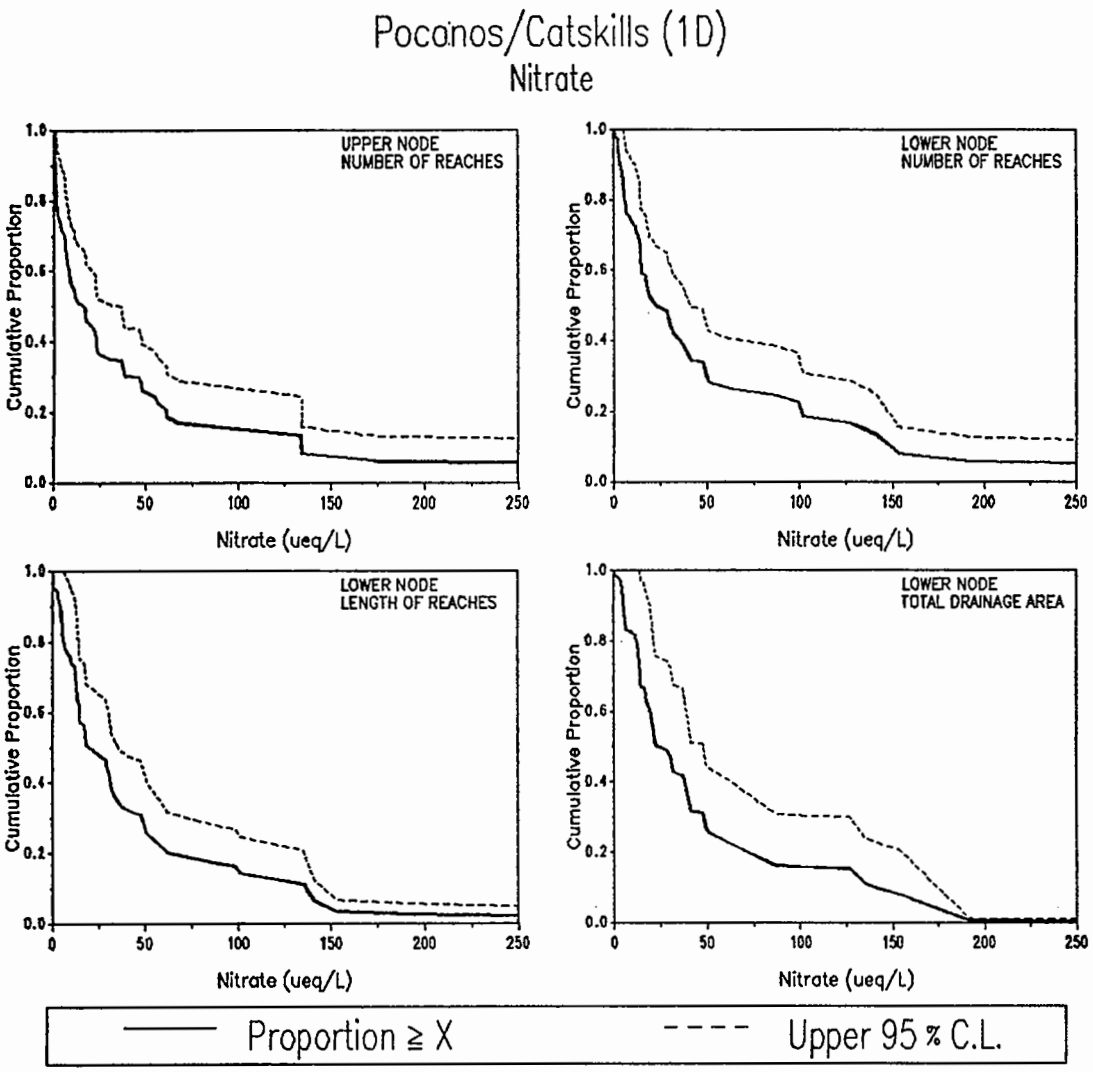
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (ueq/L)	25.65	25.02	23.90	22.26
40 % (ueq/L)	11.42	10.98	11.43	11.85
MEDIAN (ueq/L)	7.71	7.66	6.73	9.51
60 % (ueq/L)	4.07	4.76	4.23	4.54
80 % (ueq/L)	0.72	1.26	1.08	1.34

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	0.00	267.76	18.28	31.86
LOWER	189	0.00	99.68	14.63	18.13

Figure 5-243. Population estimates for Nitrate (NO316) for the Southeastern Region.

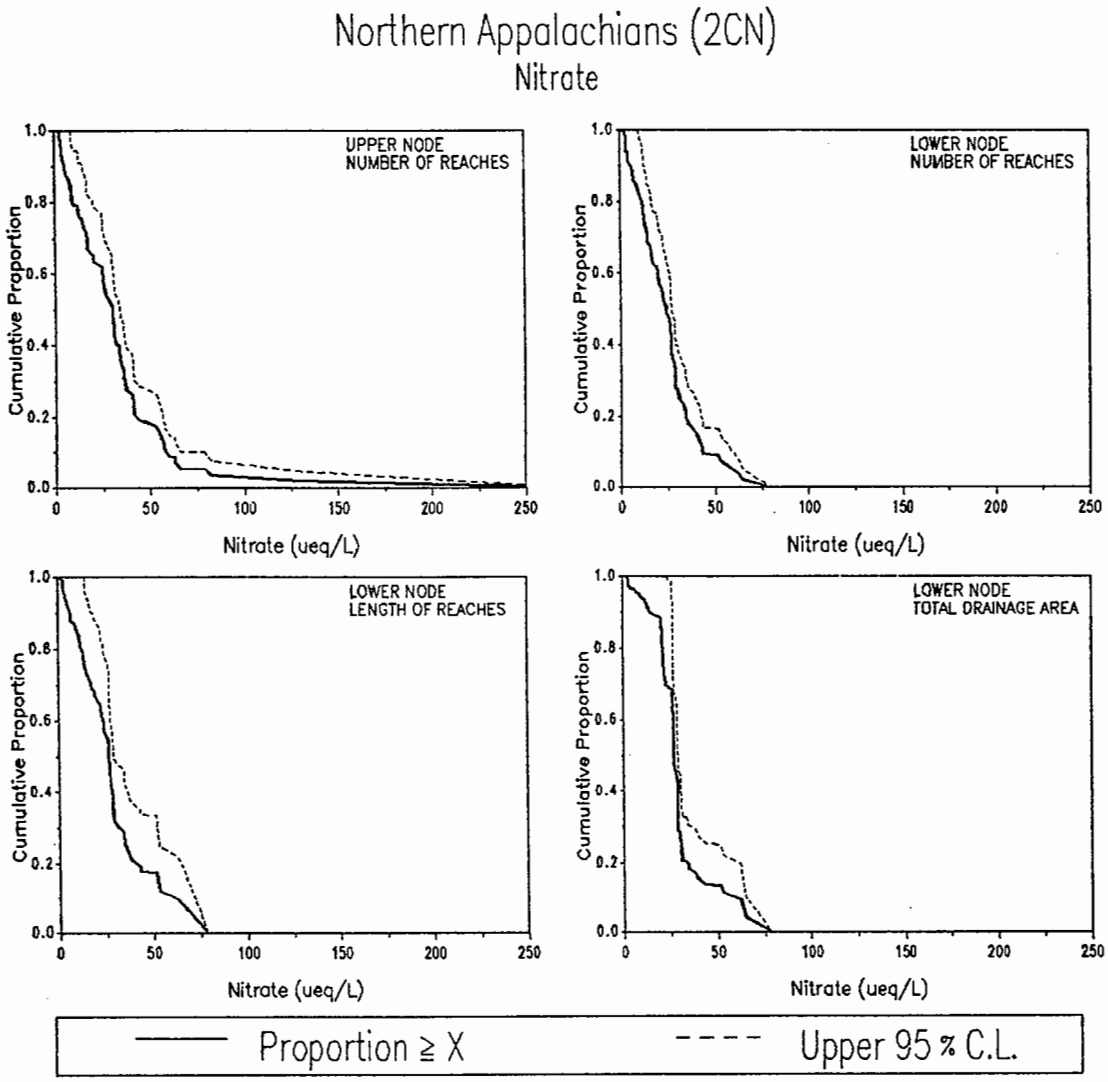


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (ueq/L)	57.67	94.40	51.02	54.96
40 % (ueq/L)	22.52	32.54	29.69	34.38
MEDIAN (ueq/L)	12.30	19.00	18.24	19.56
60 % (ueq/L)	7.87	14.25	14.06	18.25
80 % (ueq/L)	1.57	5.35	5.50	11.50

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	0.21	544.39	51.14	106.72
LOWER	56	0.00	380.67	55.52	80.53

Figure 5-244. Population estimates for Nitrate (NO316) for the Poconos/Catskills subregion (1D).

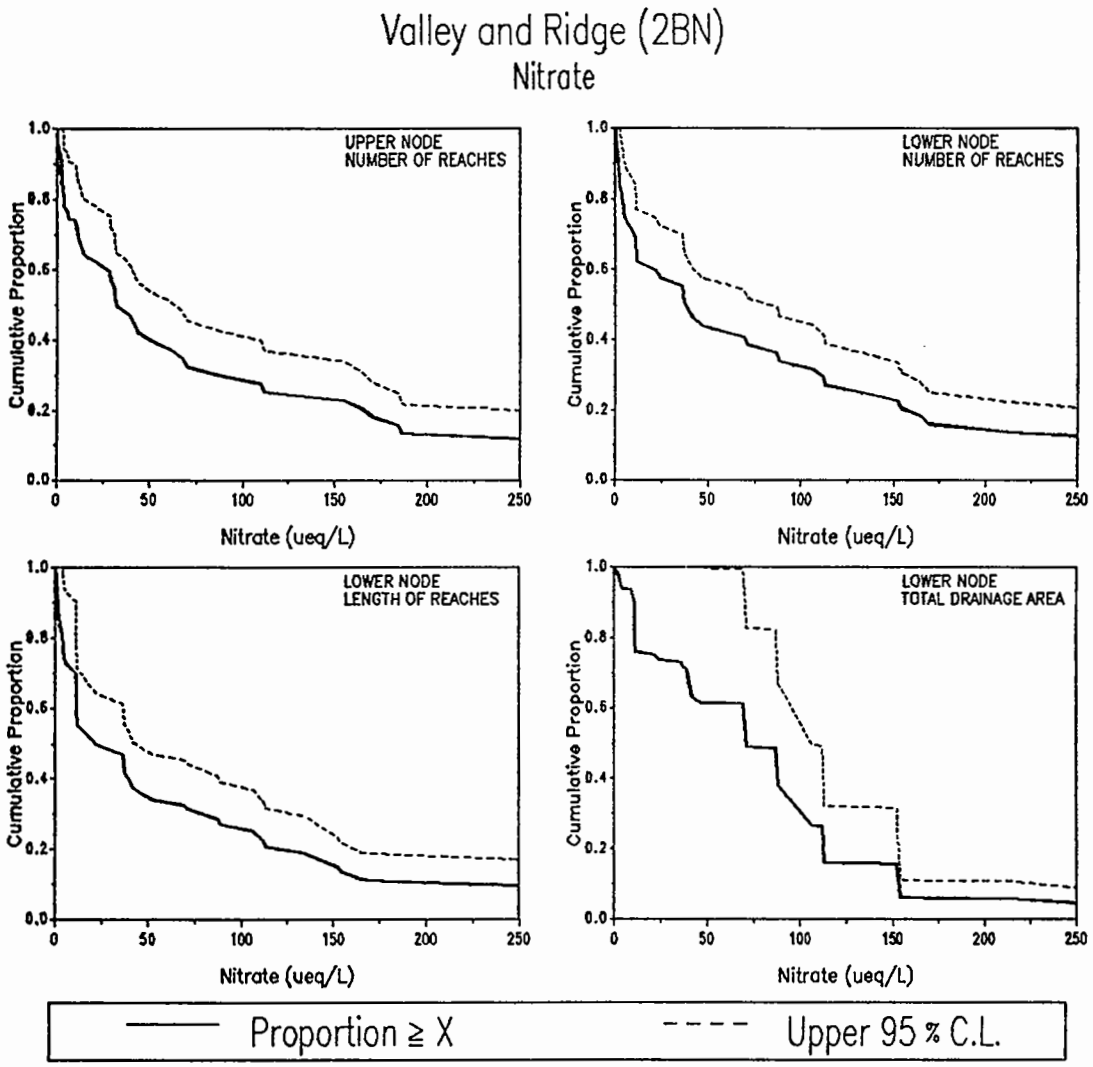


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (ueq/L)	40.87	33.80	38.21	31.92
40 % (ueq/L)	32.17	26.40	26.95	28.26
MEDIAN(ueq/L)	29.06	23.07	26.37	26.45
60 % (ueq/L)	22.65	18.91	22.47	25.82
80 % (ueq/L)	8.87	10.00	11.76	19.82

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	0.81	262.92	30.70	23.84
LOWER	61	1.28	77.67	23.71	14.87

Figure 5-245. Population estimates for Nitrate (NO316) for the Northern Appalachians subregion (2Cn).

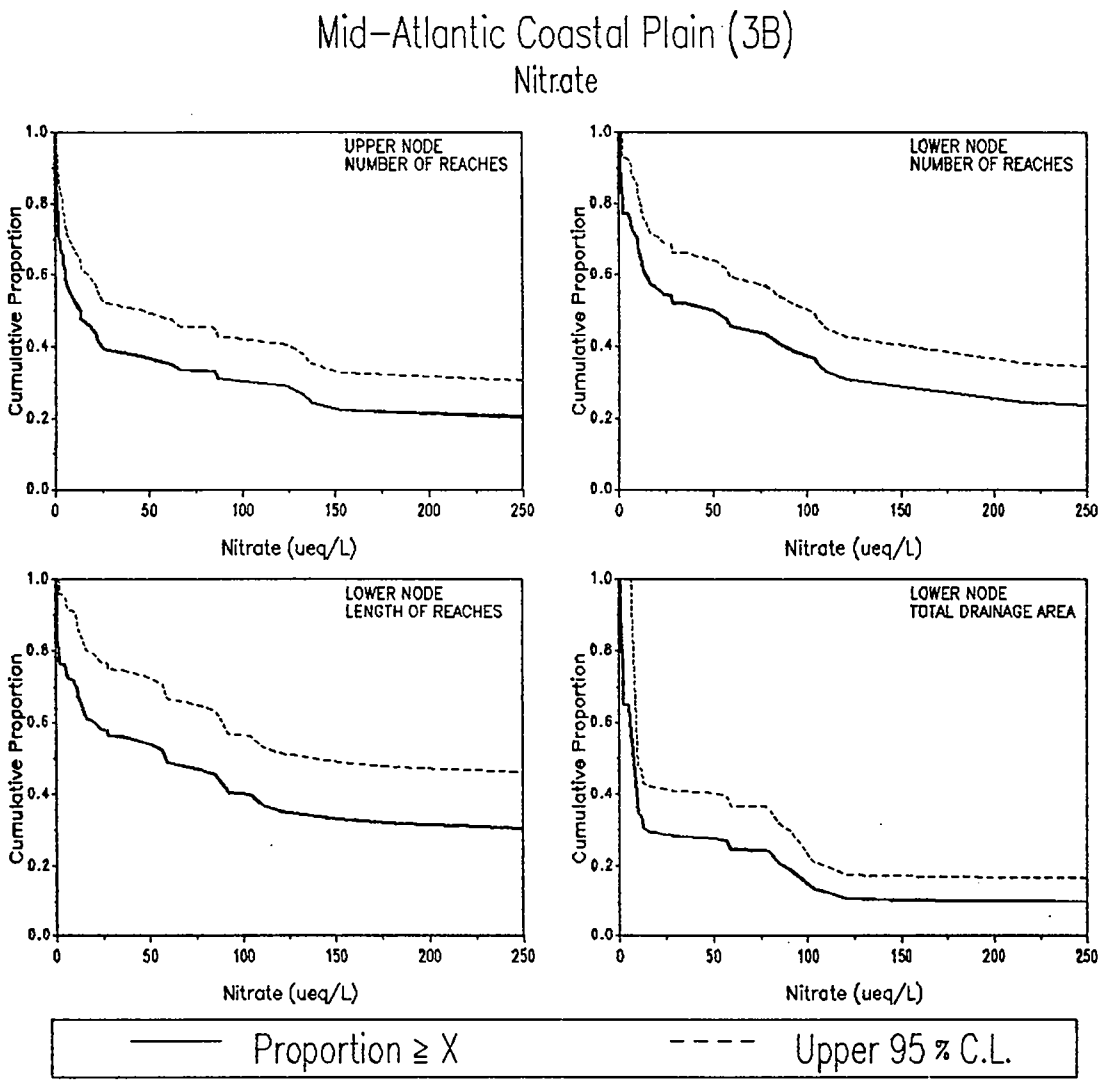


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (ueq/L)	155.83	152.63	112.34	109.78
40 % (ueq/L)	43.13	58.34	37.46	83.98
MEDIAN(ueq/L)	31.19	36.88	12.30	67.91
60 % (ueq/L)	20.03	11.53	11.07	54.14
80 % (ueq/L)	3.25	3.45	3.44	10.74

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	0.05	653.76	92.70	146.26
LOWER	47	0.21	556.25	90.62	125.90

Figure 5-246. Population estimates for Nitrate (NO316) for the Valley and Ridge subregion (2Bn).



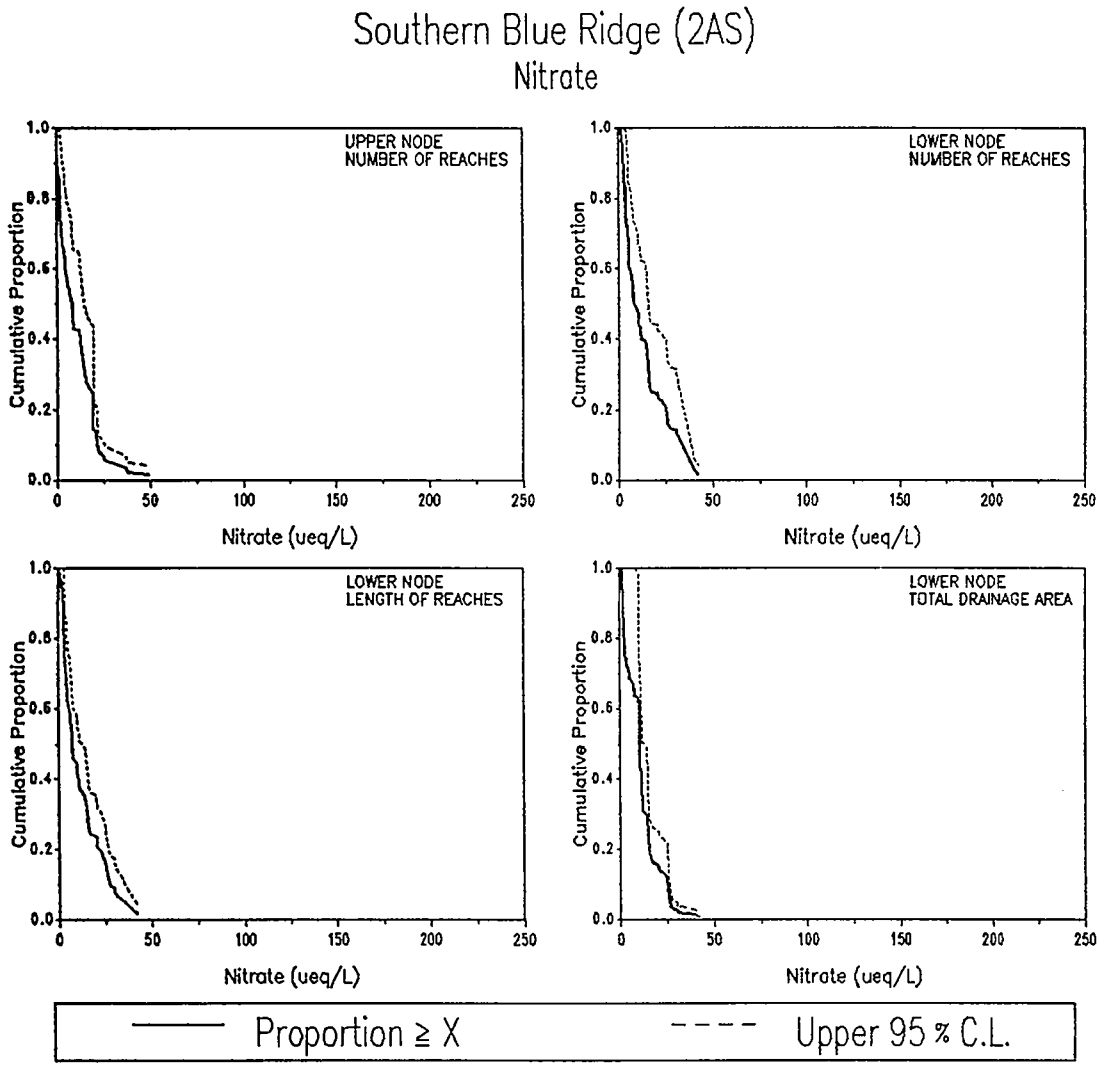
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (ueq/L)	160.70	272.62	330.53	80.78
40 % (ueq/L)	22.10	81.32	90.87	6.42
MEDIAN (ueq/L)	10.87	34.45	54.26	6.17
60 % (ueq/L)	4.59	12.32	16.93	4.29
80 % (ueq/L)	0.98	1.59	1.19	0.87

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	0.00	988.19	127.14	216.49
LOWER	58	0.11	580.59	118.64	153.89

Figure 5-247. Population estimates for Nitrate (NO316) for the Mid-Atlantic Coastal Plain subregion (3B).



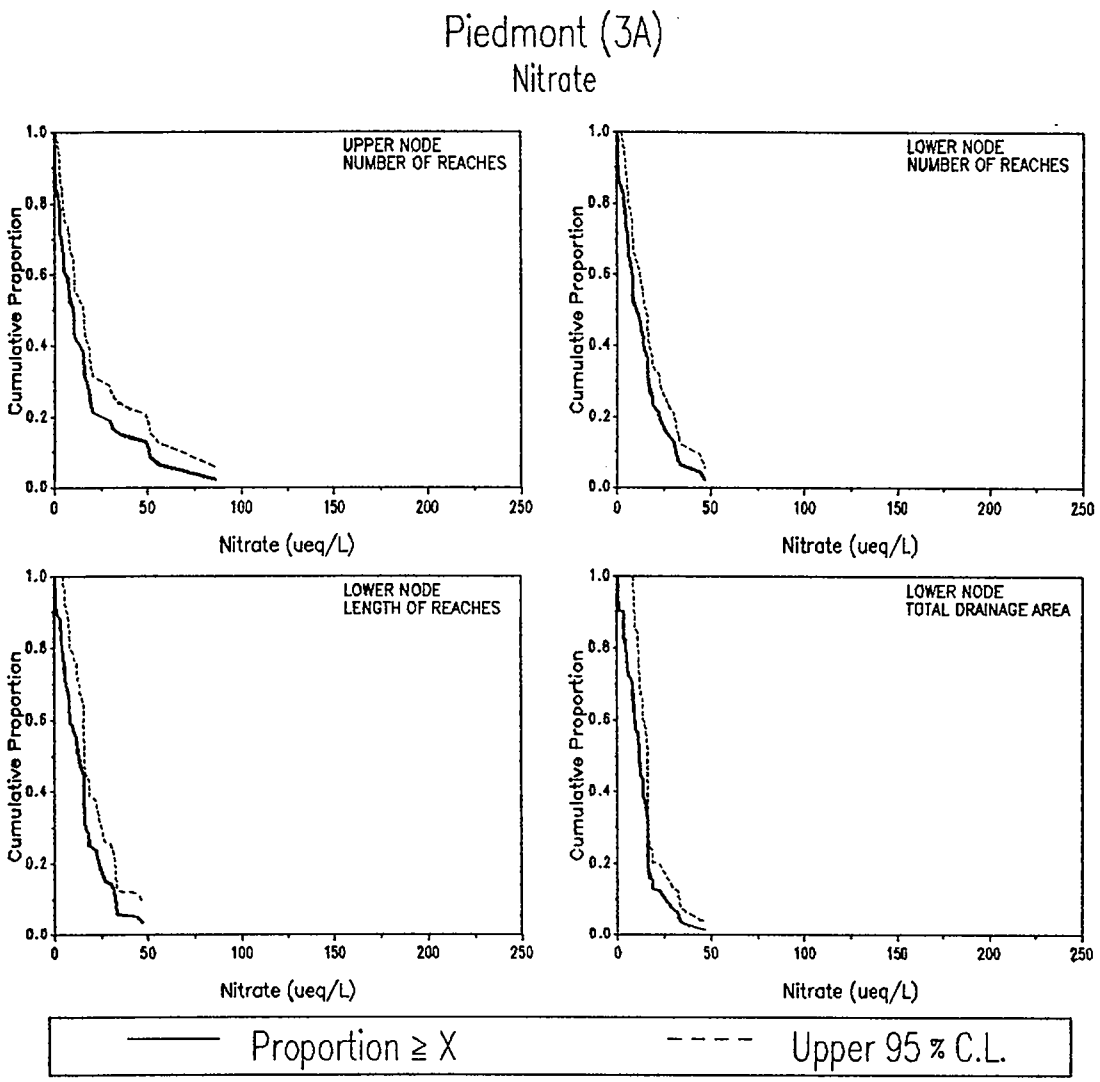
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (ueq/L)	18.73	23.50	20.58	13.85
40 % (ueq/L)	11.01	10.85	10.08	10.82
MEDIAN (ueq/L)	6.94	7.55	6.98	9.89
60 % (ueq/L)	4.10	4.93	4.96	9.76
80 % (ueq/L)	1.54	2.99	2.88	2.01

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	0.00	48.55	10.04	9.88
LOWER	54	0.66	41.83	12.15	10.57

Figure 5-248. Population estimates for Nitrate (NO316) for the Southern Blue Ridge subregion (2As).



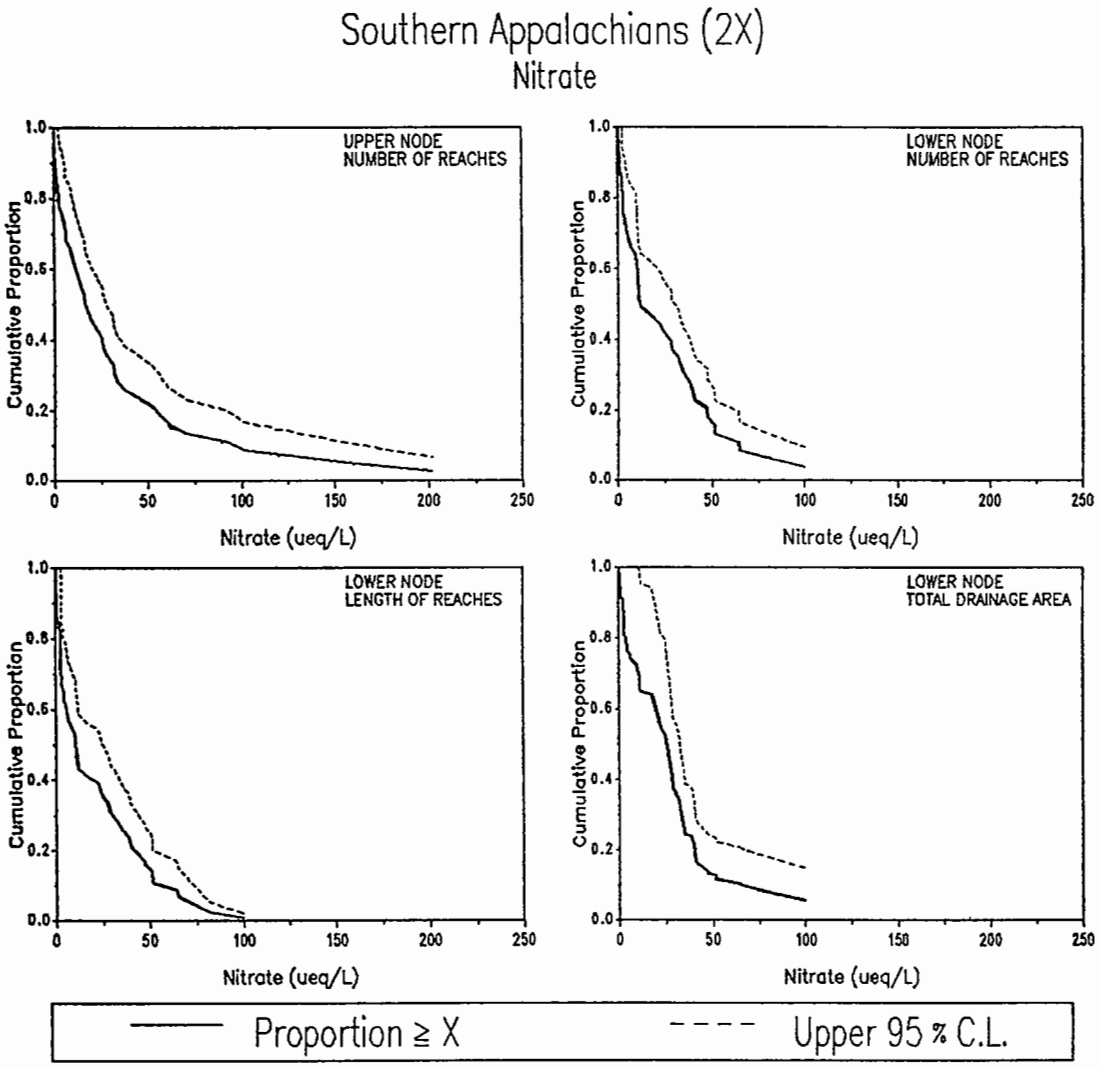
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (ueq/L)	19.84	20.80	22.32	15.82
40 % (ueq/L)	10.77	13.37	15.43	13.10
MEDIAN (ueq/L)	8.62	8.69	12.44	10.28
60 % (ueq/L)	4.89	7.29	7.95	8.22
80 % (ueq/L)	1.54	3.38	3.62	4.49

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	0.05	86.30	15.82	19.61
LOWER	47	0.06	46.78	12.95	11.43

Figure 5-249. Population estimates for Nitrate (NO316) for the Piedmont subregion (3A).

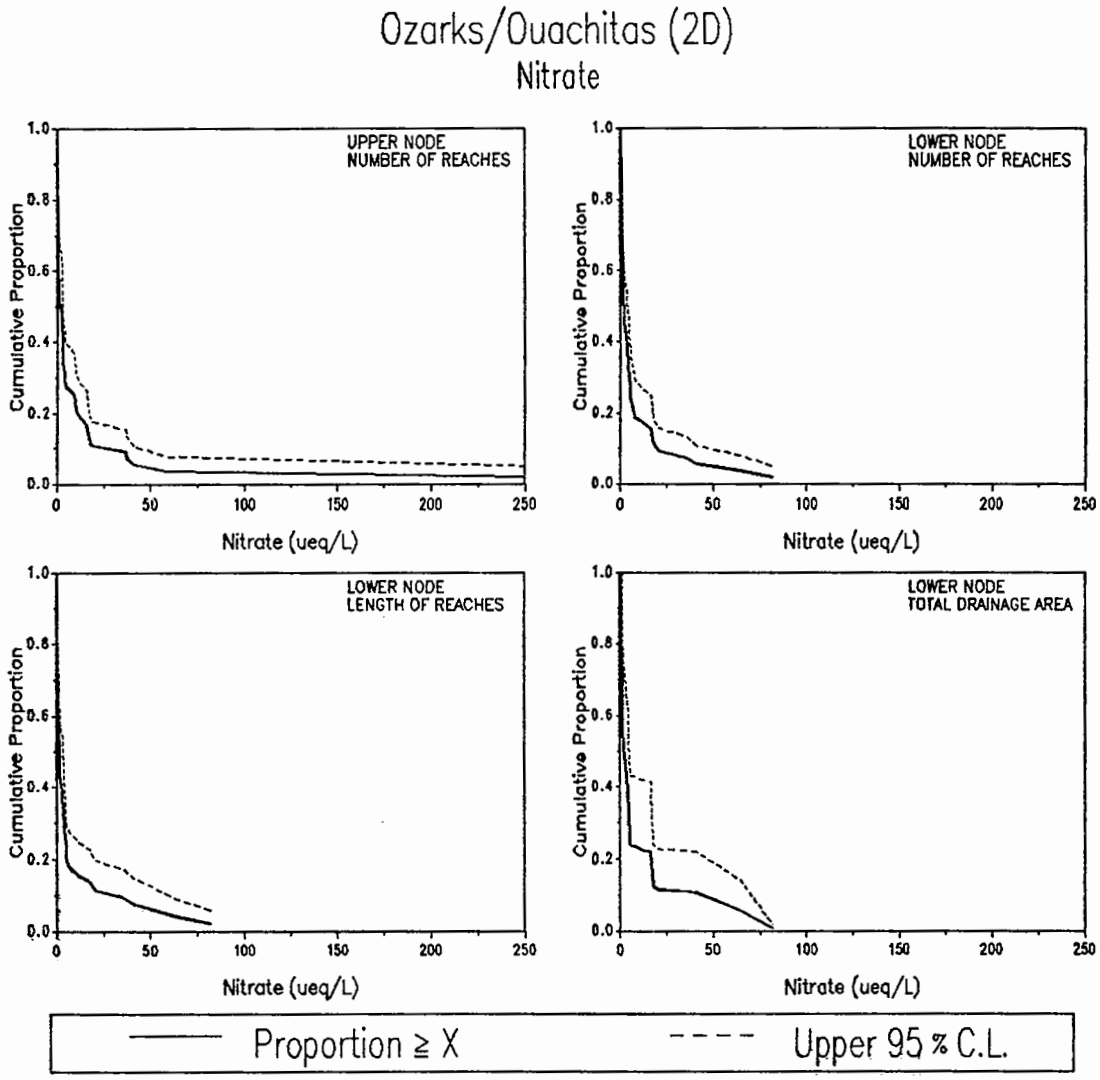


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (ueq/L)	48.17	41.66	39.66	38.65
40 % (ueq/L)	23.13	24.03	15.35	25.54
MEDIAN(ueq/L)	15.87	10.97	10.39	22.62
60 % (ueq/L)	8.67	8.97	4.52	14.40
80 % (ueq/L)	2.07	2.60	2.39	3.08

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	0.13	201.62	31.50	42.75
LOWER	40	0.01	99.68	24.12	25.44

Figure 5-250. Population estimates for Nitrate (NO316) for the Southern Appalachians subregion (2X).

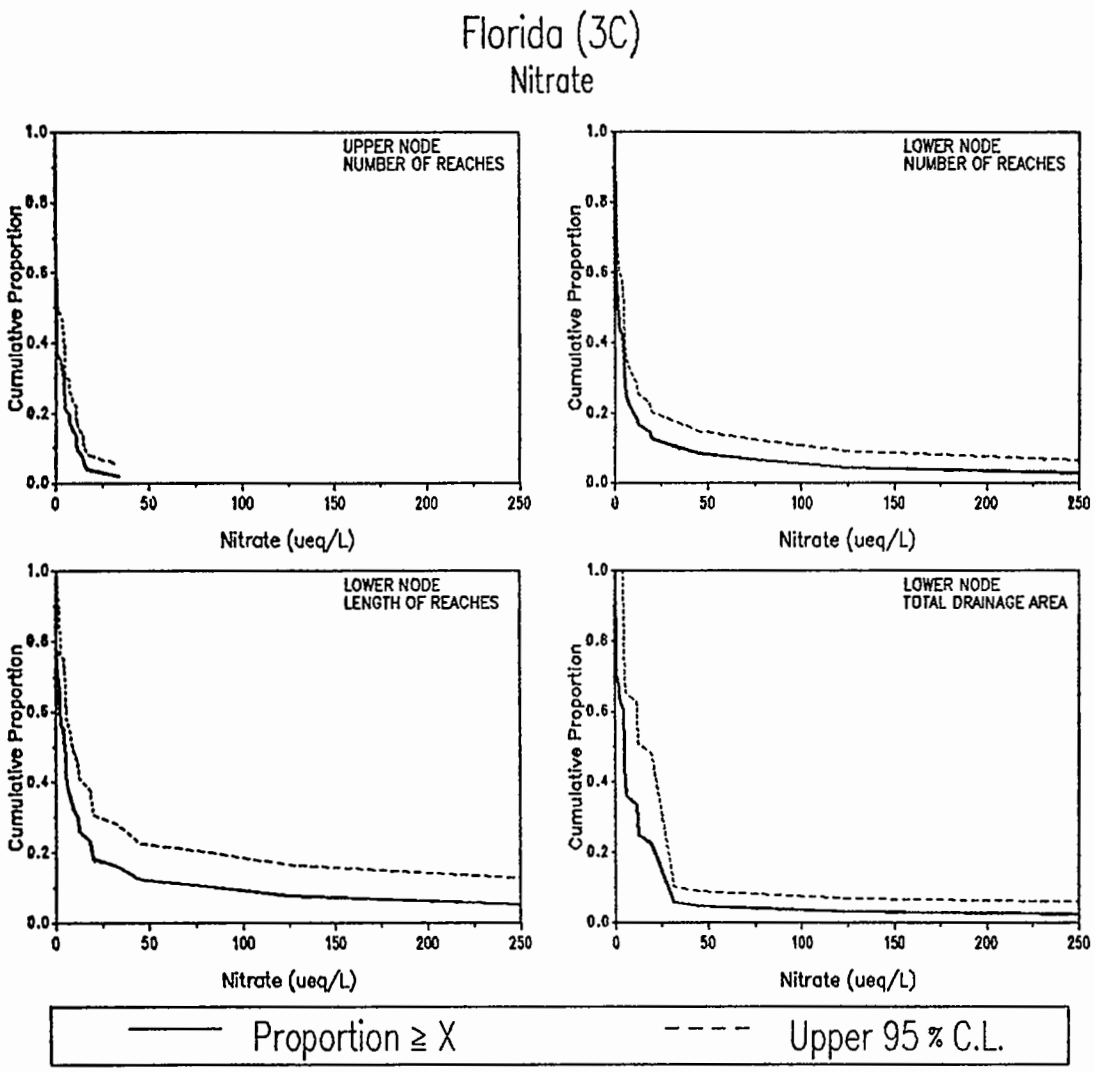


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (ueq/L)	9.69	5.72	5.09	12.87
40 % (ueq/L)	2.93	2.57	2.35	3.44
MEDIAN(ueq/L)	1.01	1.50	1.50	1.84
60 % (ueq/L)	0.79	1.16	0.83	1.29
80 % (ueq/L)	0.36	0.35	0.33	0.34

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	0.00	267.76	11.12	36.48
LOWER	48	0.00	81.78	7.29	15.23

Figure 5-251. Population estimates for Nitrate (NO316) for the Ozarks/Ouachitas subregion (2D).



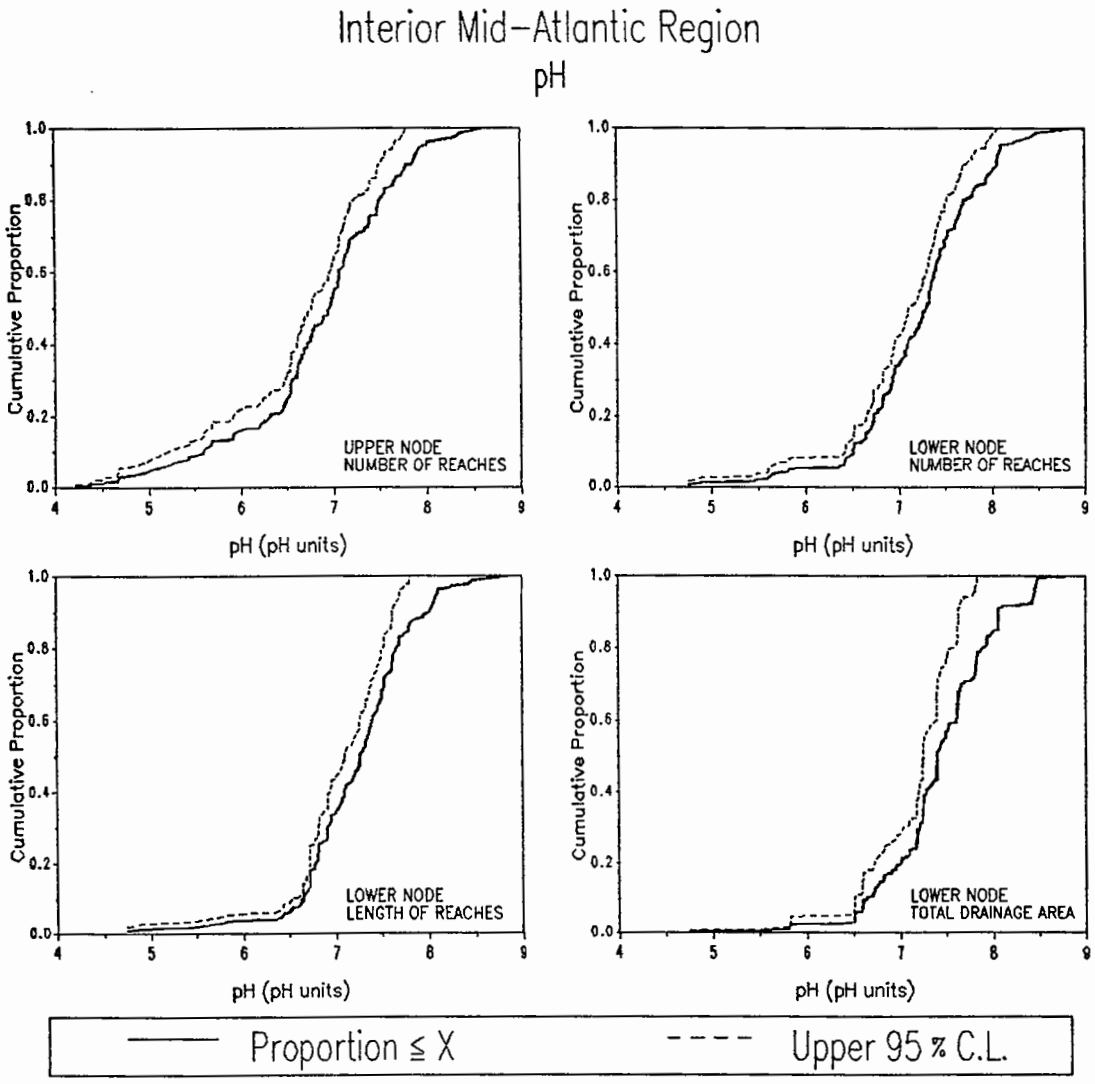
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (ueq/L)	4.64	7.85	16.29	18.52
40 % (ueq/L)	0.49	3.74	5.37	5.00
MEDIAN (ueq/L)	0.41	1.25	4.39	4.36
60 % (ueq/L)	0.36	0.40	2.09	3.98
80 % (ueq/L)	0.18	0.12	0.34	0.18

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	0.08	33.55	3.44	6.00
LOWER	34	0.02	290.34	14.61	45.36

Figure 5-252. Population estimates for Nitrate (NO316) for Florida subregion (3C).

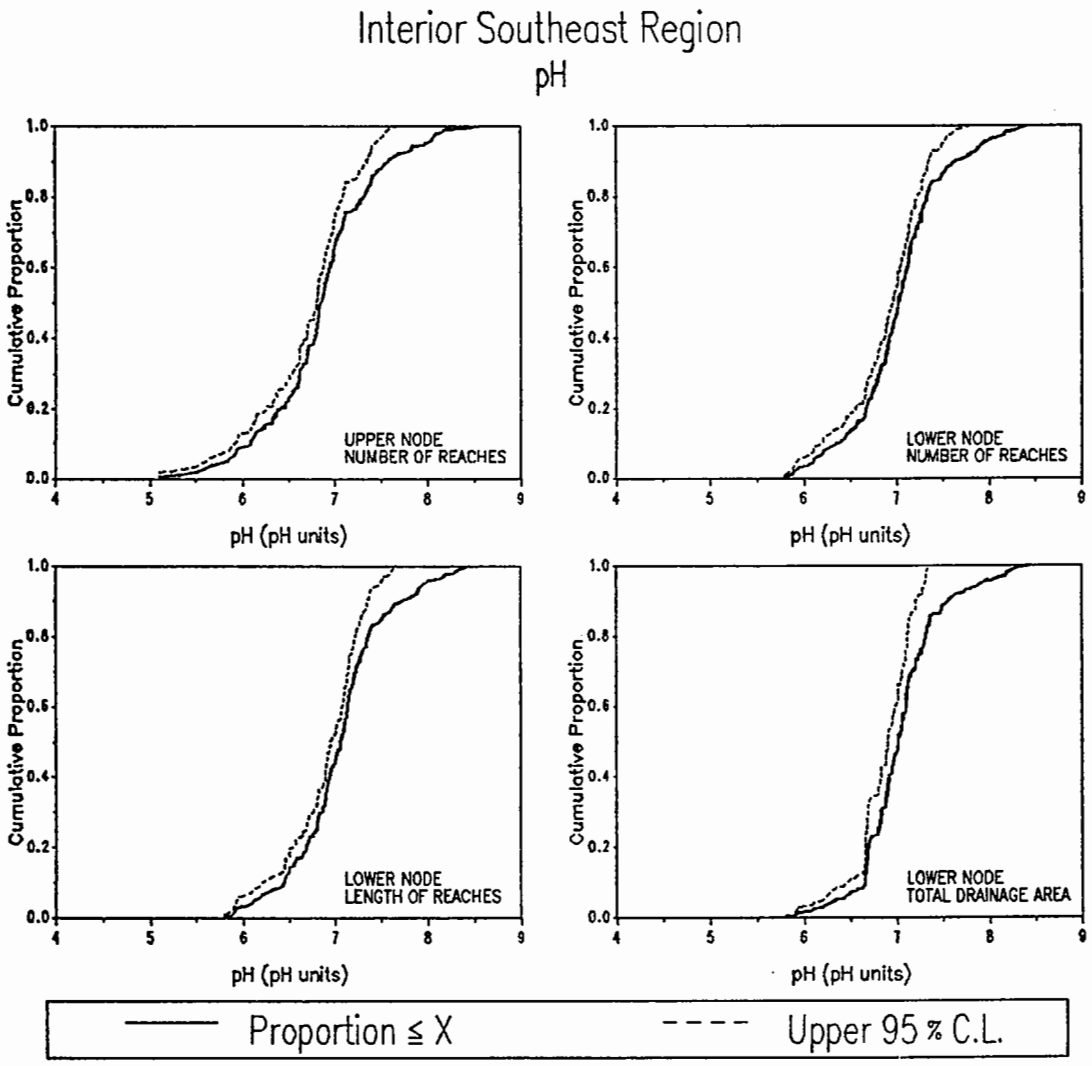


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (pH units)	6.30	6.72	6.79	7.00
40 % (pH units)	6.72	7.09	7.09	7.28
MEDIAN(pH units)	6.95	7.30	7.26	7.41
60 % (pH units)	7.06	7.39	7.39	7.61
80 % (pH units)	7.50	7.72	7.66	7.90

SUMMARY STATISTICS (pH units)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	4.21	8.62	5.82	5.25
LOWER	164	4.74	8.88	6.46	5.77

Figure 5-253. Population estimates for stream pH (PHSTVL) for the Mid-Atlantic Region.

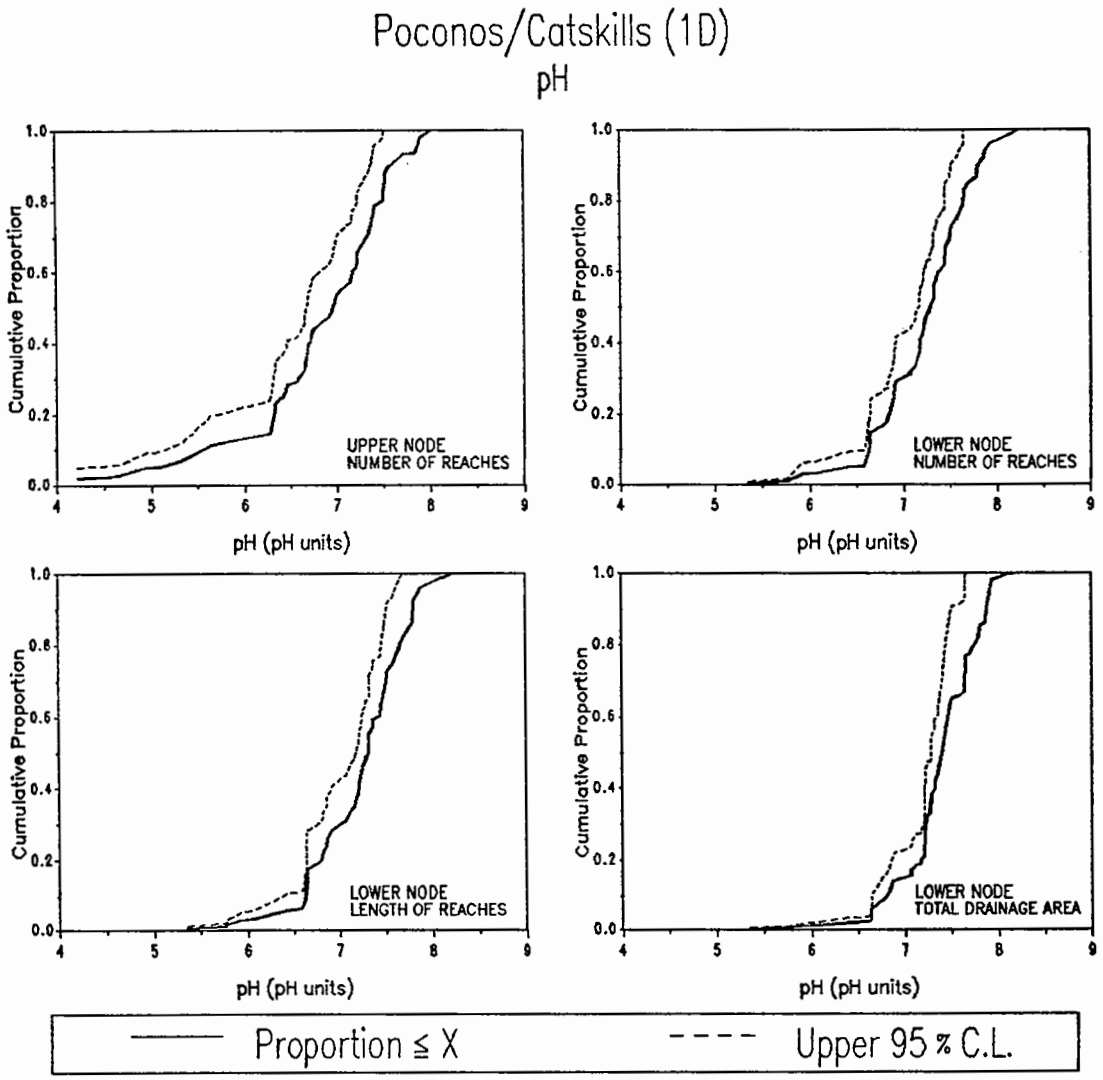


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (pH units)	6.39	6.67	6.69	6.69
40 % (pH units)	6.77	6.92	6.94	6.91
MEDIAN (pH units)	6.84	7.02	7.06	7.02
60 % (pH units)	6.95	7.12	7.14	7.10
80 % (pH units)	7.31	7.34	7.36	7.32

SUMMARY STATISTICS (pH units)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	5.10	8.59	6.42	6.07
LOWER	189	5.80	8.43	6.75	6.60

Figure 5-254. Population estimates for stream pH (PHSTVL) for the Southeastern Region.



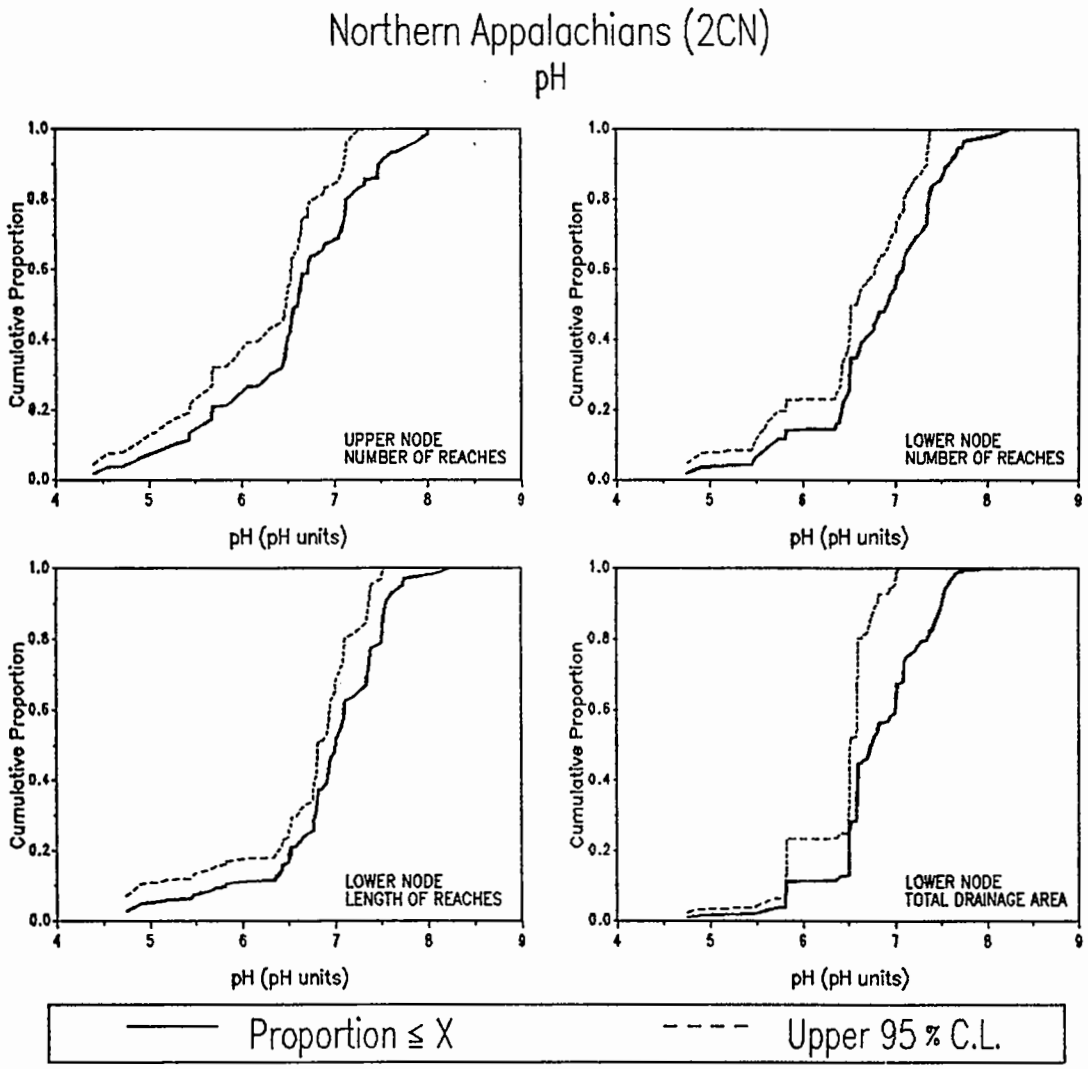
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (pH units)	6.31	6.84	6.81	7.18
40 % (pH units)	6.70	7.18	7.21	7.32
MEDIAN (pH units)	6.96	7.28	7.32	7.40
60 % (pH units)	7.18	7.38	7.42	7.47
80 % (pH units)	7.48	7.65	7.66	7.75

SUMMARY STATISTICS (pH units)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	4.21	8.01	5.70	5.05
LOWER	56	5.35	8.23	6.90	6.49

Figure 5-255. Population estimates for stream pH (PHSTVL) for the Poconos/Catskills subregion (1D).

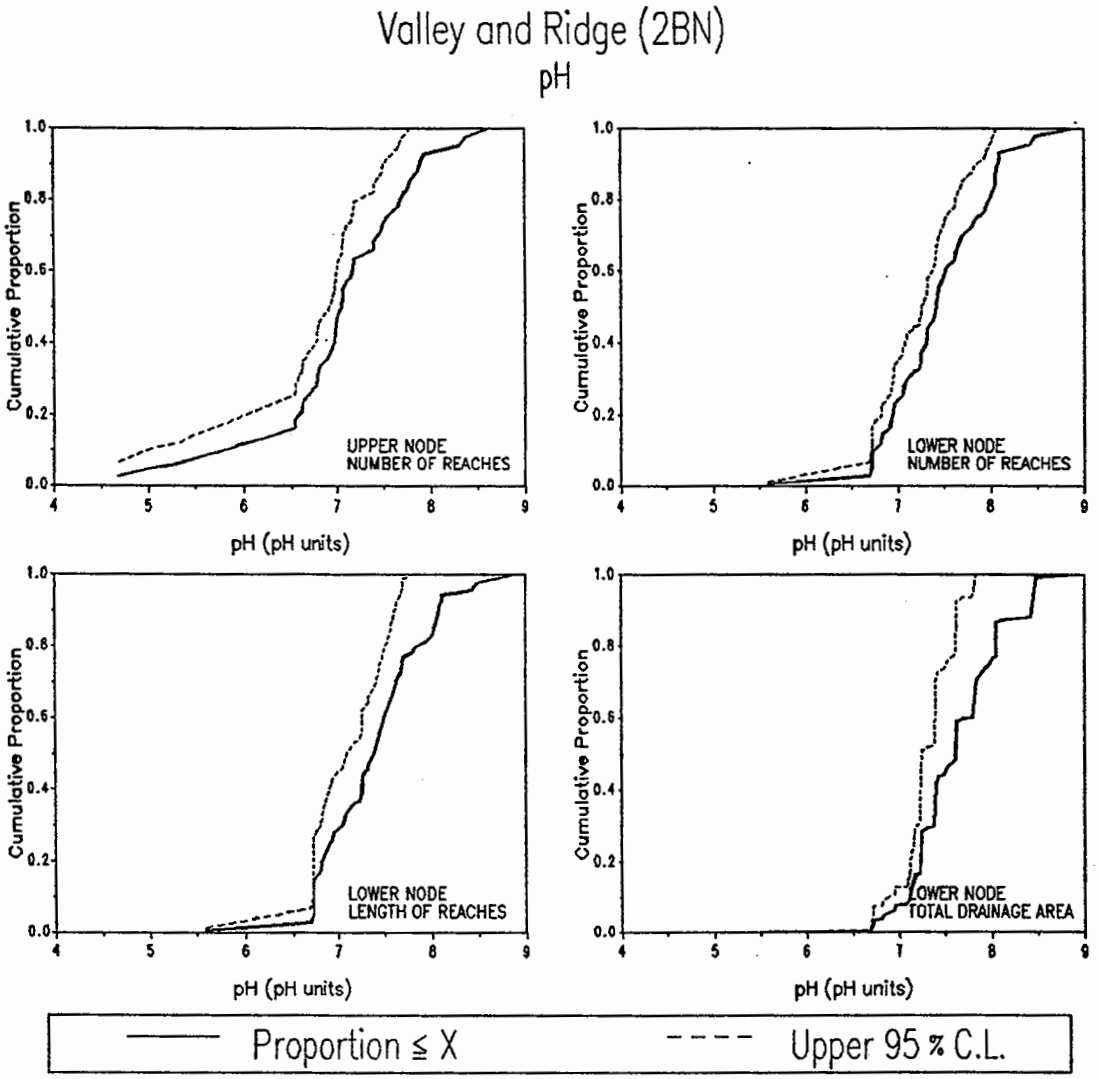


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (pH units)	5.68	6.42	6.52	6.50
40 % (pH units)	6.49	6.66	6.92	6.59
MEDIAN (pH units)	6.60	6.91	7.00	6.74
60 % (pH units)	6.72	7.07	7.10	7.00
80 % (pH units)	7.14	7.37	7.50	7.35

SUMMARY STATISTICS (pH units)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	4.40	8.00	5.66	5.19
LOWER	61	4.74	8.25	6.05	5.55

Figure 5-256. Population estimates for stream pH (PHSTVL) for the Northern Appalachians subregion (2Cn).



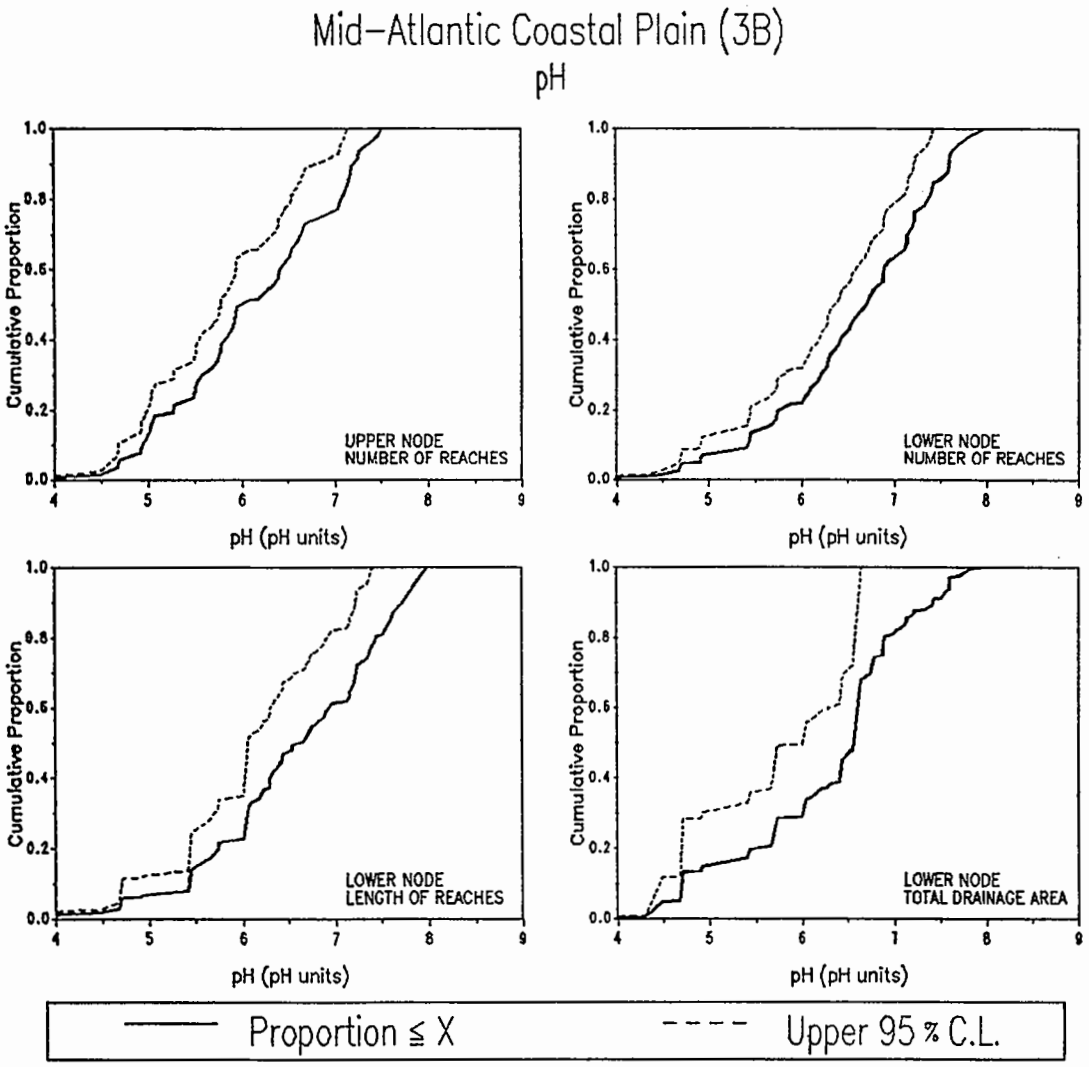
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (pH units)	6.57	6.94	6.83	7.24
40 % (pH units)	6.96	7.31	7.26	7.40
MEDIAN (pH units)	7.05	7.41	7.38	7.62
60 % (pH units)	7.17	7.52	7.49	7.80
80 % (pH units)	7.67	7.99	7.85	8.06

SUMMARY STATISTICS (pH units)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	4.68	8.62	6.02	5.46
LOWER	47	5.59	8.88	7.17	6.80

Figure 5-257. Population estimates for stream pH (PHSTVL) for the Valley and Ridge subregion (2Bn).

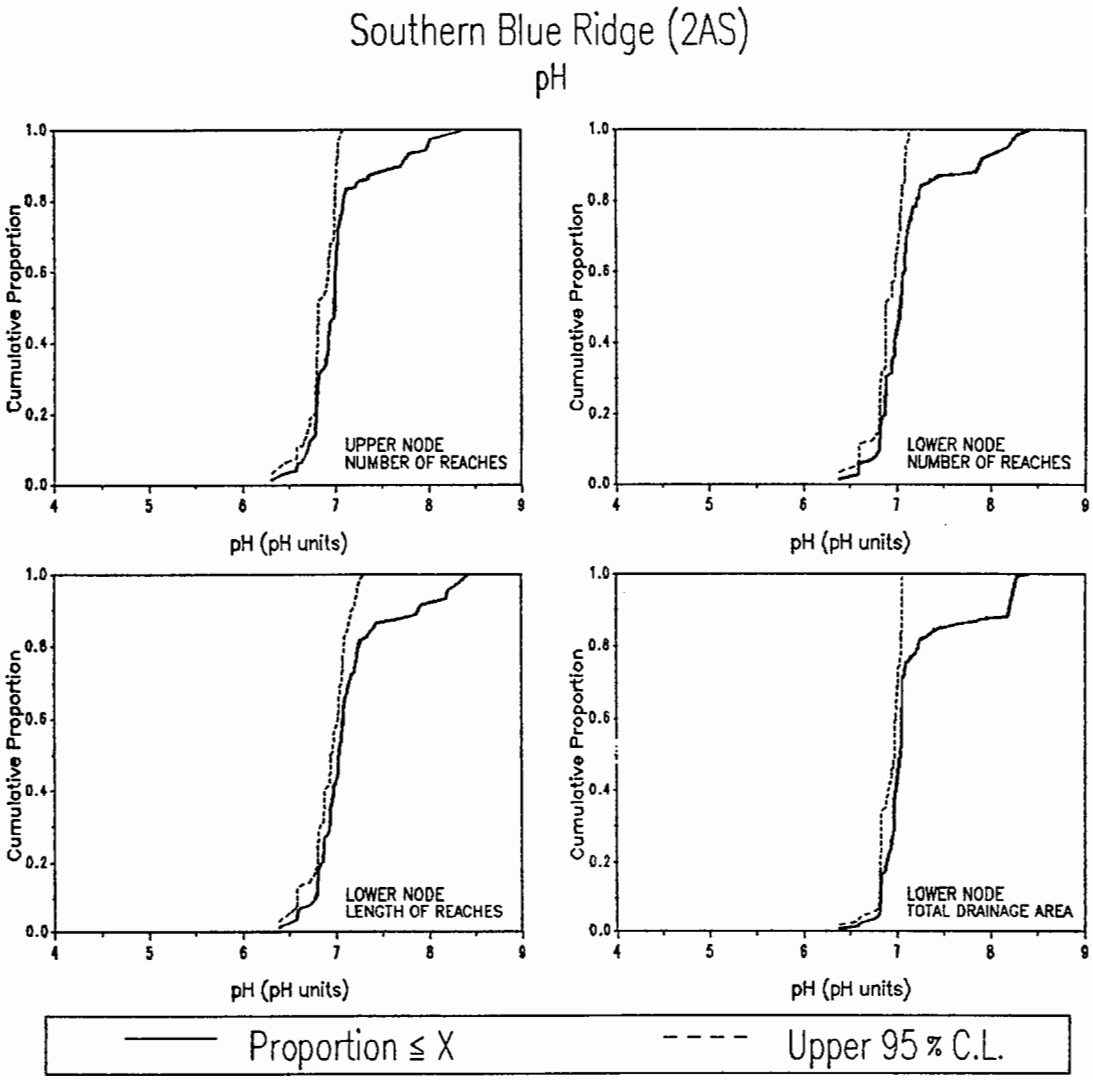


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (pH units)	5.27	5.77	5.73	5.51
40 % (pH units)	5.81	6.43	6.29	6.42
MEDIAN (pH units)	5.98	6.71	6.62	6.56
60 % (pH units)	6.40	6.90	6.93	6.61
80 % (pH units)	7.07	7.38	7.44	6.90

SUMMARY STATISTICS (pH units)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	3.51	7.51	5.38	4.87
LOWER	58	3.83	7.98	5.62	5.00

Figure 5-258. Population estimates for stream pH (PHSTVL) for the Mid-Atlantic Coastal Plain subregion (3B).

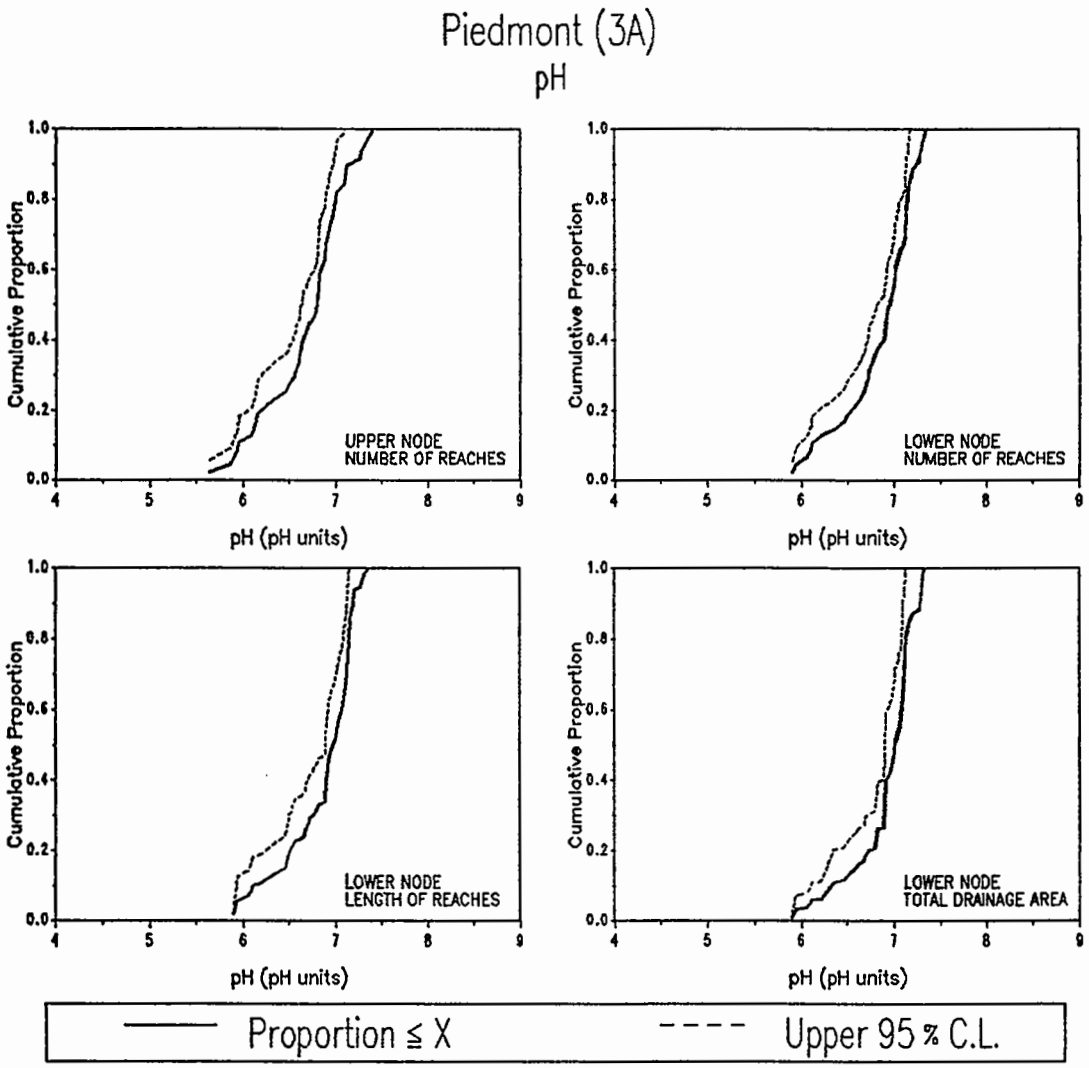


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (pH units)	6.79	6.86	6.86	6.89
40 % (pH units)	6.92	6.97	6.97	6.99
MEDIAN(pH units)	6.99	7.03	7.04	7.03
60 % (pH units)	6.99	7.07	7.08	7.05
80 % (pH units)	7.09	7.21	7.25	7.23

SUMMARY STATISTICS (pH units)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	6.31	8.38	6.92	7.10
LOWER	54	6.38	8.43	6.99	7.17

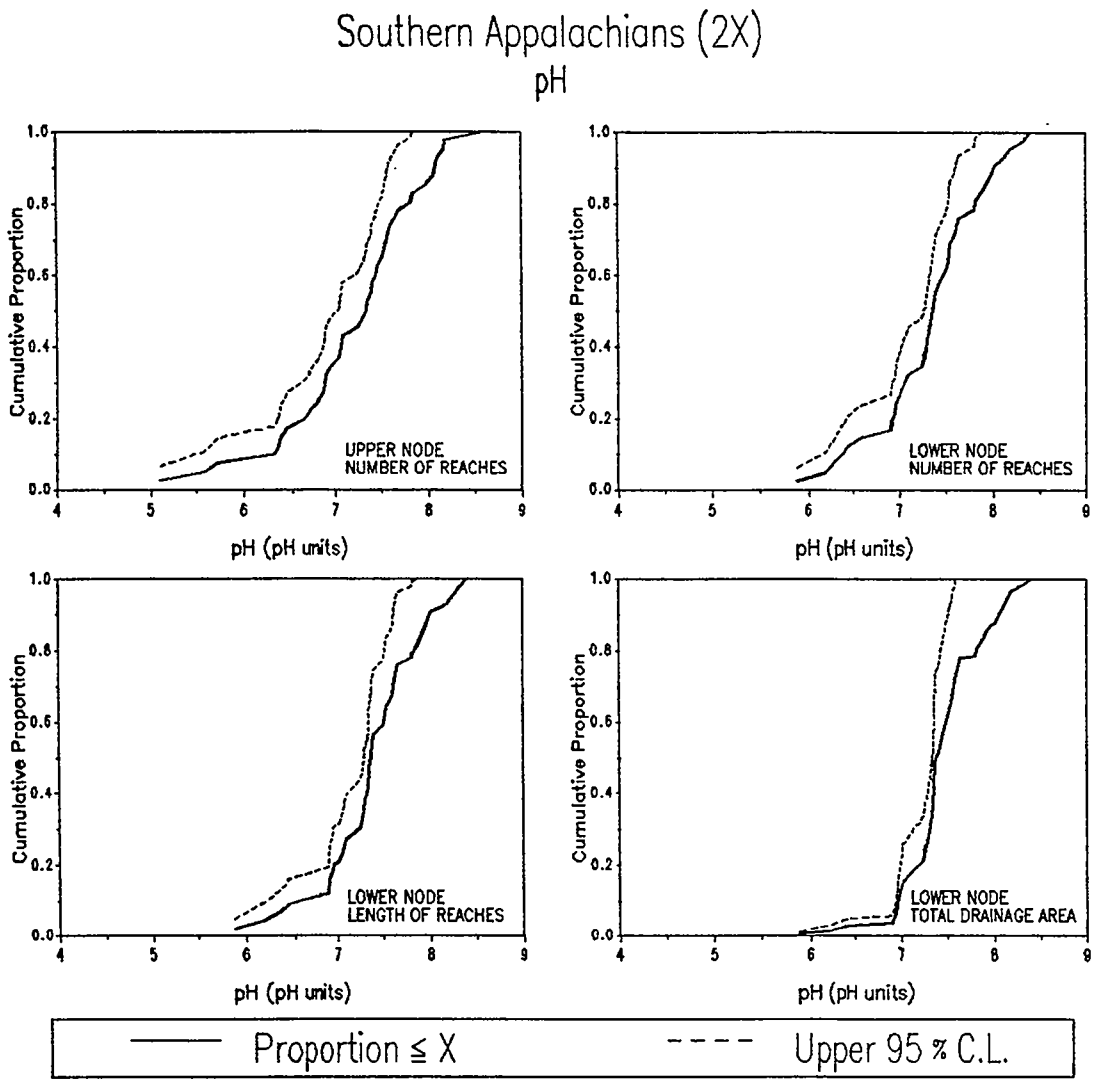
Figure 5-259. Population estimates for stream pH (PHSTVL) for the Southern Blue Ridge subregion (2As).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (pH units)	6.20	6.54	6.52	6.73
40 % (pH units)	6.64	6.89	6.90	6.92
MEDIAN (pH units)	6.80	6.95	6.98	7.02
60 % (pH units)	6.84	7.03	7.07	7.09
80 % (pH units)	7.00	7.15	7.15	7.14

	SUMMARY STATISTICS (pH units)				
	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	5.64	7.40	6.46	6.36
LOWER	47	5.90	7.36	6.64	6.55

Figure 5-260.Population estimates for stream pH (PHSTVL) for the Piedmont subregion (3A).

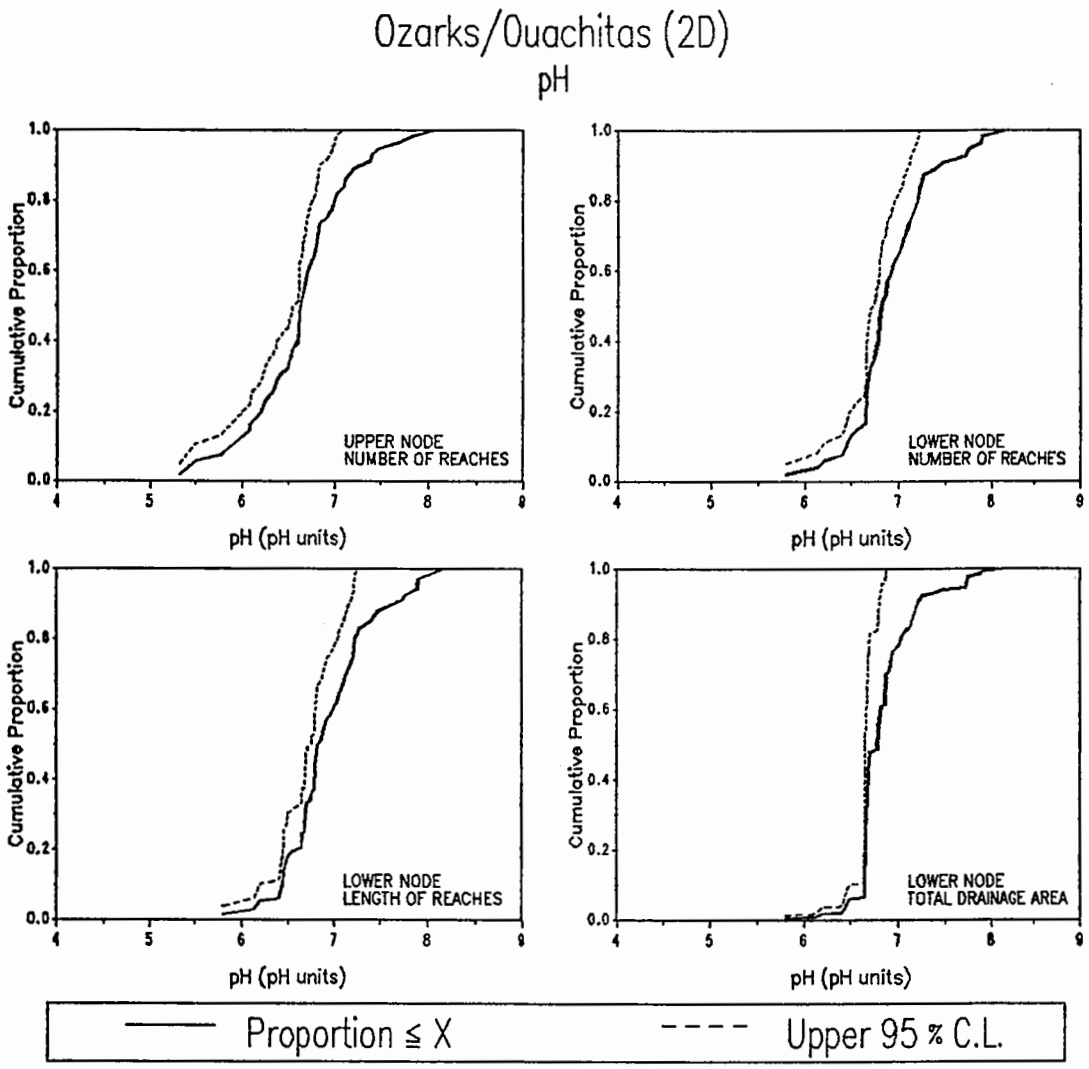


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (pH units)	6.63	6.92	6.96	7.20
40 % (pH units)	7.06	7.29	7.32	7.36
MEDIAN (pH units)	7.33	7.36	7.37	7.38
60 % (pH units)	7.44	7.48	7.51	7.49
80 % (pH units)	7.80	7.82	7.84	7.82

SUMMARY STATISTICS (pH units)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	5.10	8.59	6.40	5.89
LOWER	40	5.88	8.40	6.91	6.63

Figure 5-261. Population estimates for stream pH (PHSTVL) for the Southern Appalachians subregion (2X).



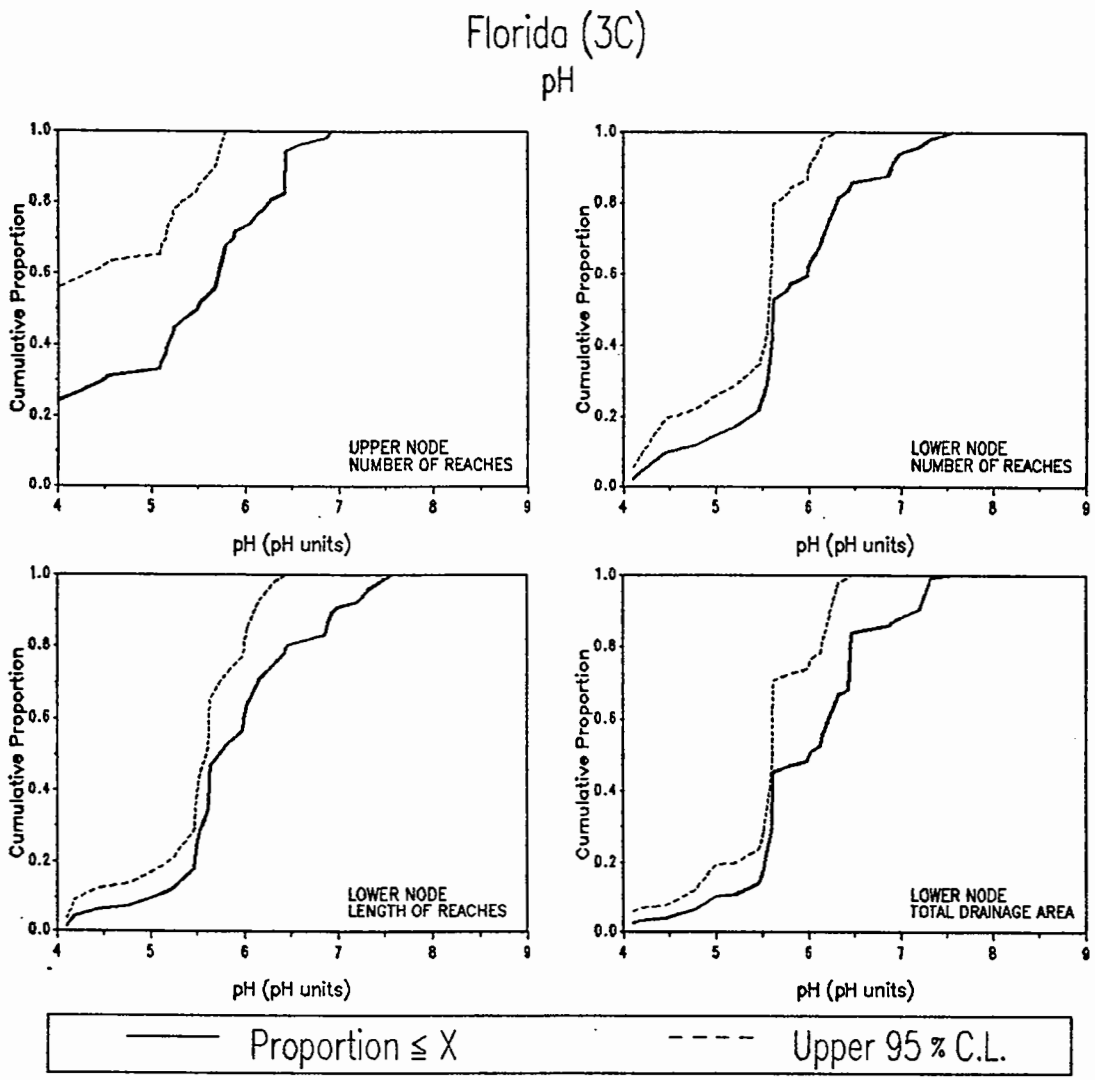
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (pH units)	6.20	6.65	6.60	6.66
40 % (pH units)	6.59	6.79	6.79	6.69
MEDIAN (pH units)	6.62	6.82	6.83	6.79
60 % (pH units)	6.72	6.93	7.00	6.83
80 % (pH units)	7.21	7.21	7.23	7.04

SUMMARY STATISTICS (pH units)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	5.33	8.05	6.29	6.05
LOWER	48	5.80	8.17	6.73	6.63

Figure 5-262.Population estimates for stream pH (PHSTVL) for the Ozarks/Ouachitas subregion (2D).

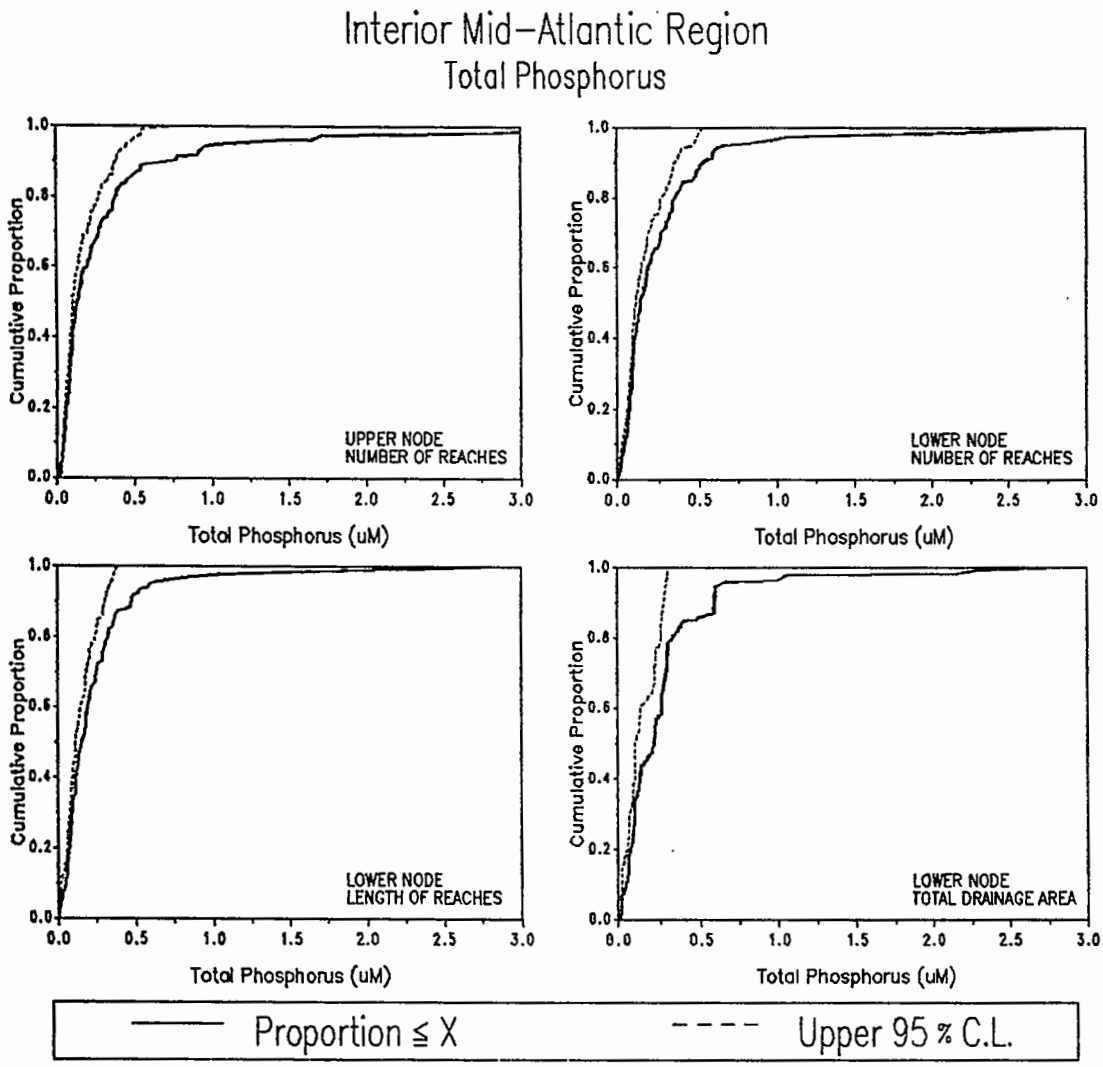


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (pH units)	3.52	5.37	5.47	5.53
40 % (pH units)	5.16	5.60	5.62	5.62
MEDIAN(pH units)	5.48	5.62	5.72	6.01
60 % (pH units)	5.70	5.98	5.99	6.21
80 % (pH units)	6.25	6.30	6.46	6.45

SUMMARY STATISTICS (pH units)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	3.44	6.92	4.08	3.85
LOWER	34	4.10	7.57	5.16	4.80

Figure 5-263. Population estimates for stream pH (PHSTVL) for Florida subregion (3C).



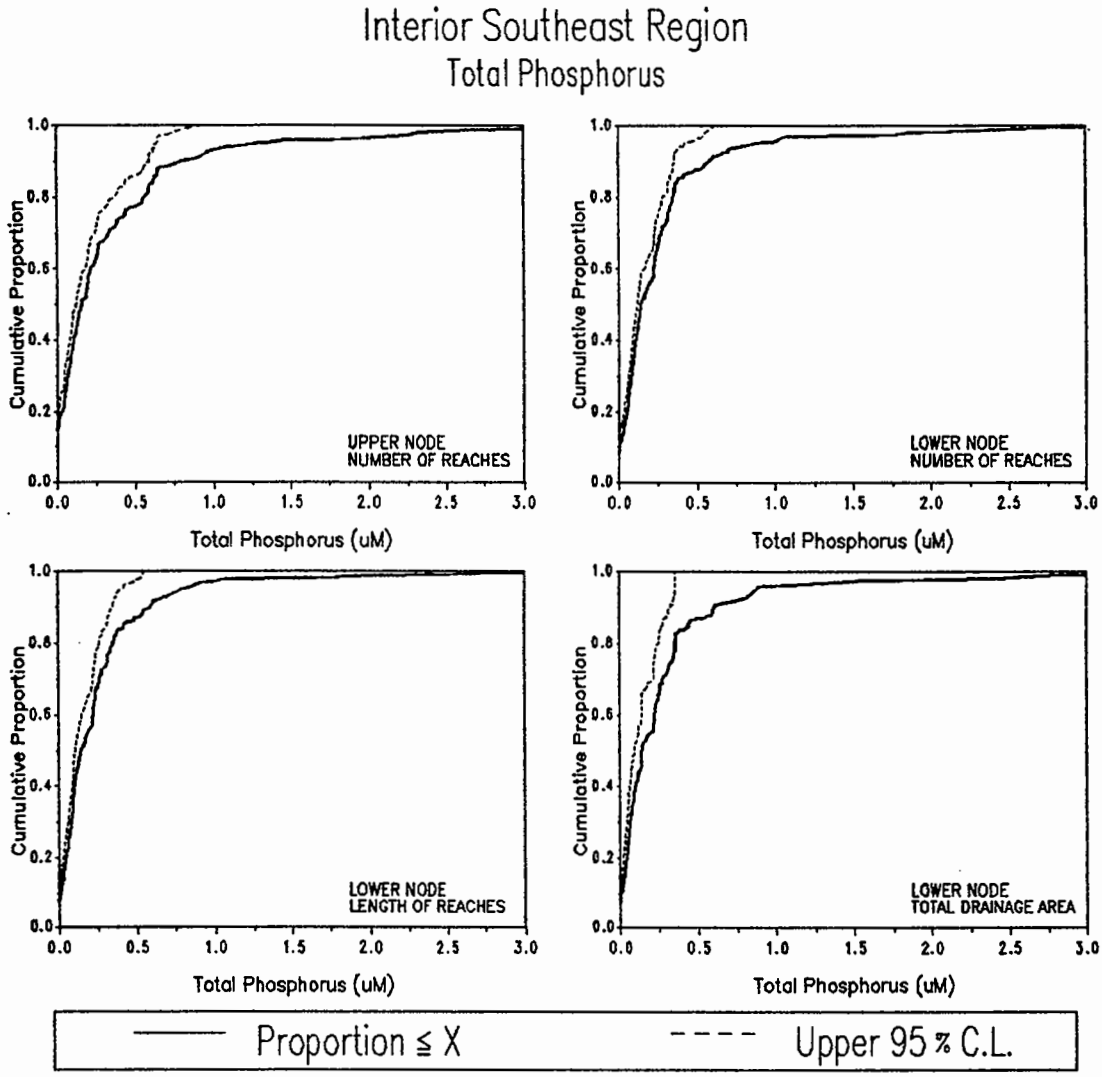
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (uM)	0.06	0.07	0.07	0.07
40 % (uM)	0.10	0.10	0.12	0.13
MEDIAN (uM)	0.13	0.14	0.16	0.22
60 % (uM)	0.20	0.18	0.19	0.26
80 % (uM)	0.39	0.34	0.33	0.33

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	0.02	3.27	0.33	0.54
LOWER	164	0.00	2.83	0.27	0.42

Figure 5-264. Population estimates for total phosphorous (PTD16) for the Mid-Atlantic Region.



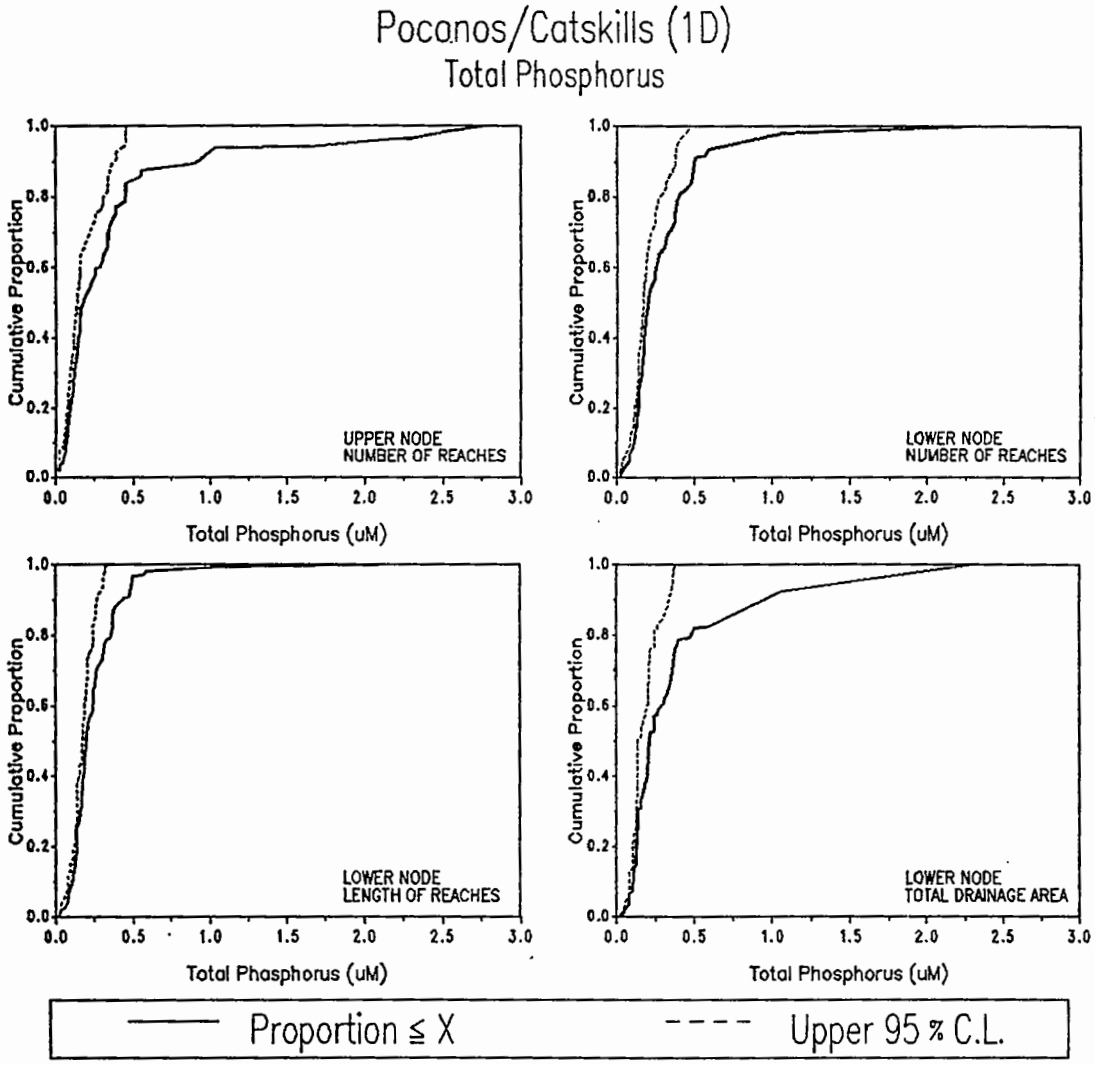
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (uM)	0.03	0.05	0.04	0.04
40 % (uM)	0.10	0.10	0.10	0.09
MEDIAN (uM)	0.15	0.14	0.14	0.14
60 % (uM)	0.21	0.22	0.22	0.22
80 % (uM)	0.56	0.35	0.35	0.35

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	0.00	6.01	0.37	0.66
LOWER	189	0.00	16.25	0.34	1.20

Figure 5-265. Population estimates for total phosphorous (PTD16) for the Southeastern Region.

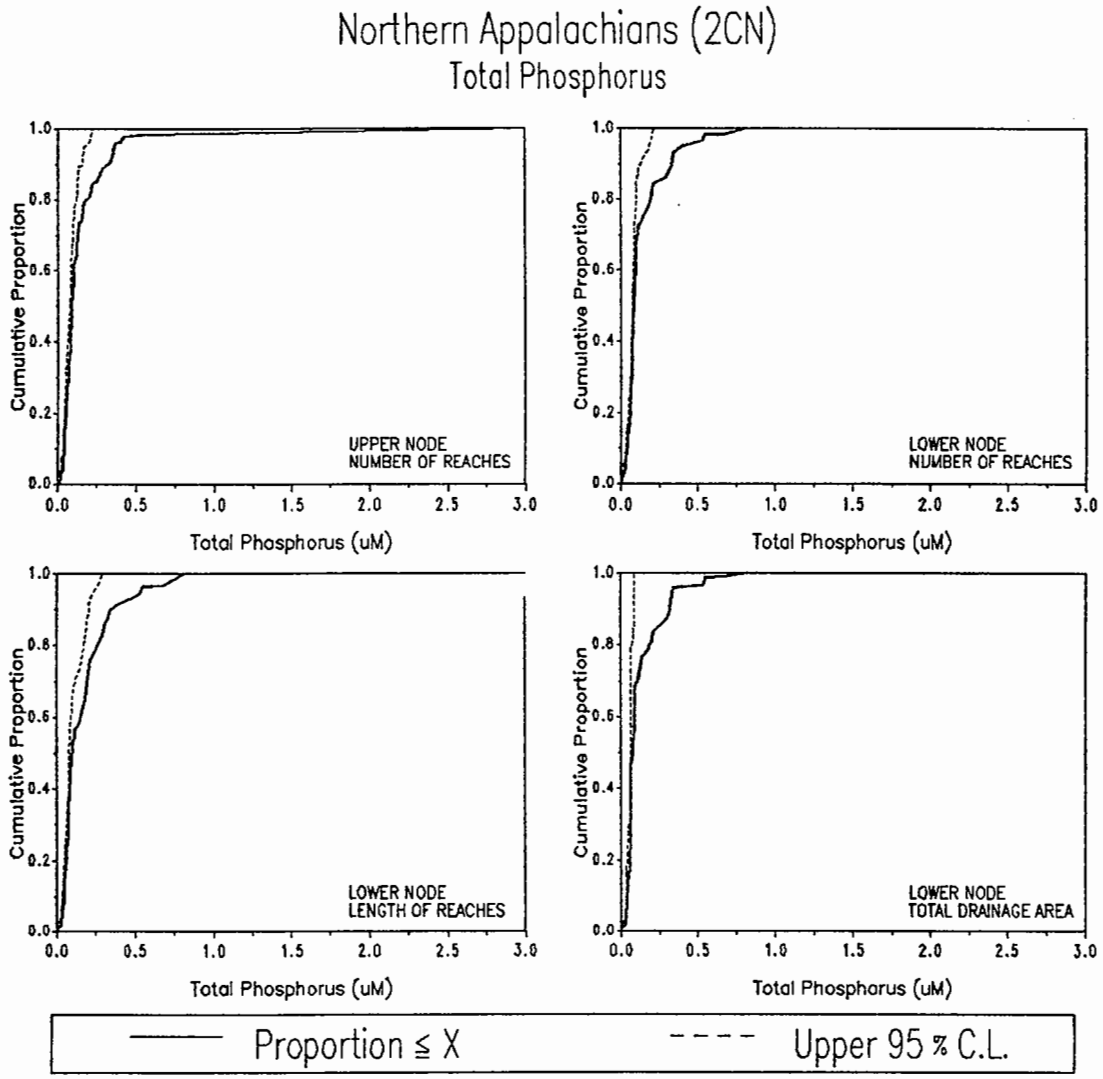


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (uM)	0.09	0.14	0.14	0.13
40 % (uM)	0.14	0.17	0.18	0.20
MEDIAN (uM)	0.17	0.20	0.20	0.21
60 % (uM)	0.27	0.25	0.24	0.29
80 % (uM)	0.45	0.39	0.36	0.48

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	0.03	2.77	0.40	0.57
LOWER	56	0.02	2.30	0.32	0.36

Figure 5-266. Population estimates for total phosphorous (PTD16) for the Poconos/Catskills subregion (1D).



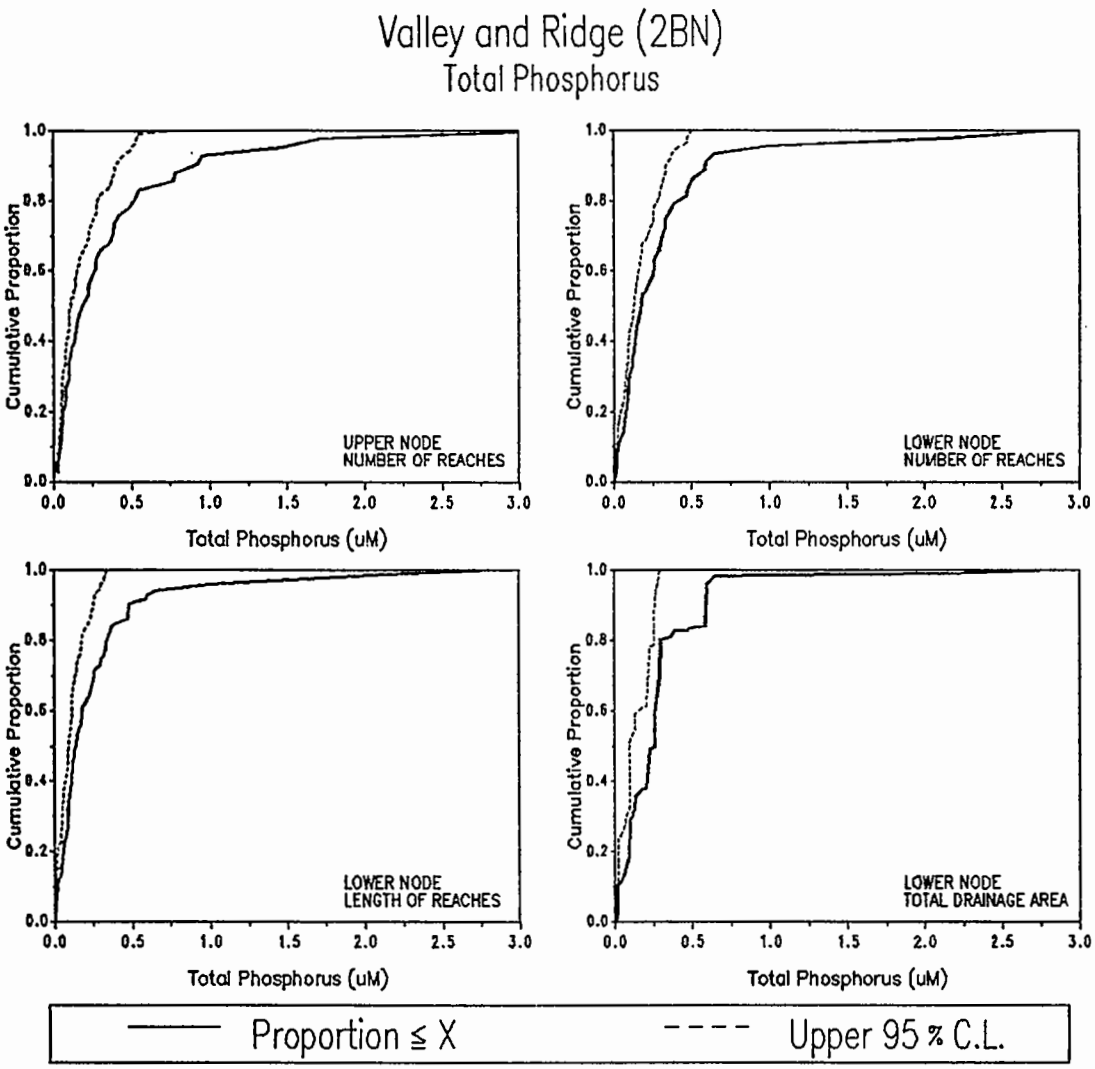
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (uM)	0.05	0.06	0.06	0.05
40 % (uM)	0.08	0.08	0.08	0.06
MEDIAN (uM)	0.09	0.09	0.10	0.08
60 % (uM)	0.10	0.10	0.15	0.09
80 % (uM)	0.18	0.20	0.26	0.19

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	0.02	3.12	0.18	0.40
LOWER	61	0.00	0.81	0.14	0.15

Figure 5-267. Population estimates for total phosphorous (PTD16) for the Northern Appalachians subregion (2Cn).



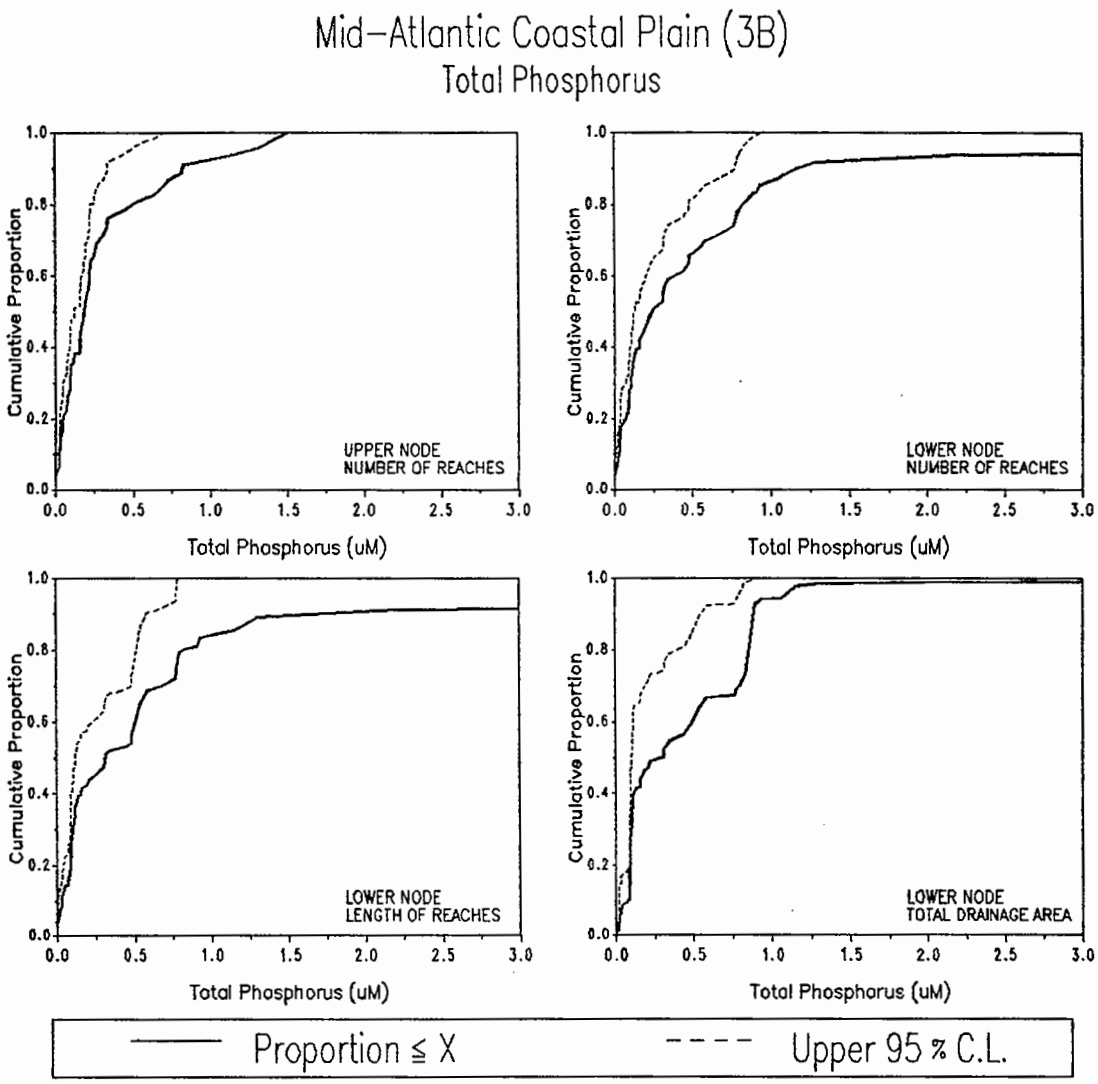
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (uM)	0.06	0.08	0.06	0.09
40 % (uM)	0.14	0.13	0.11	0.21
MEDIAN (uM)	0.19	0.17	0.14	0.26
60 % (uM)	0.27	0.26	0.18	0.26
80 % (uM)	0.52	0.42	0.34	0.30

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	0.03	3.27	0.41	0.59
LOWER	47	0.00	2.83	0.34	0.52

Figure 5-268. Population estimates for total phosphorous (PTD16) for the Valley and Ridge subregion (2Bn).

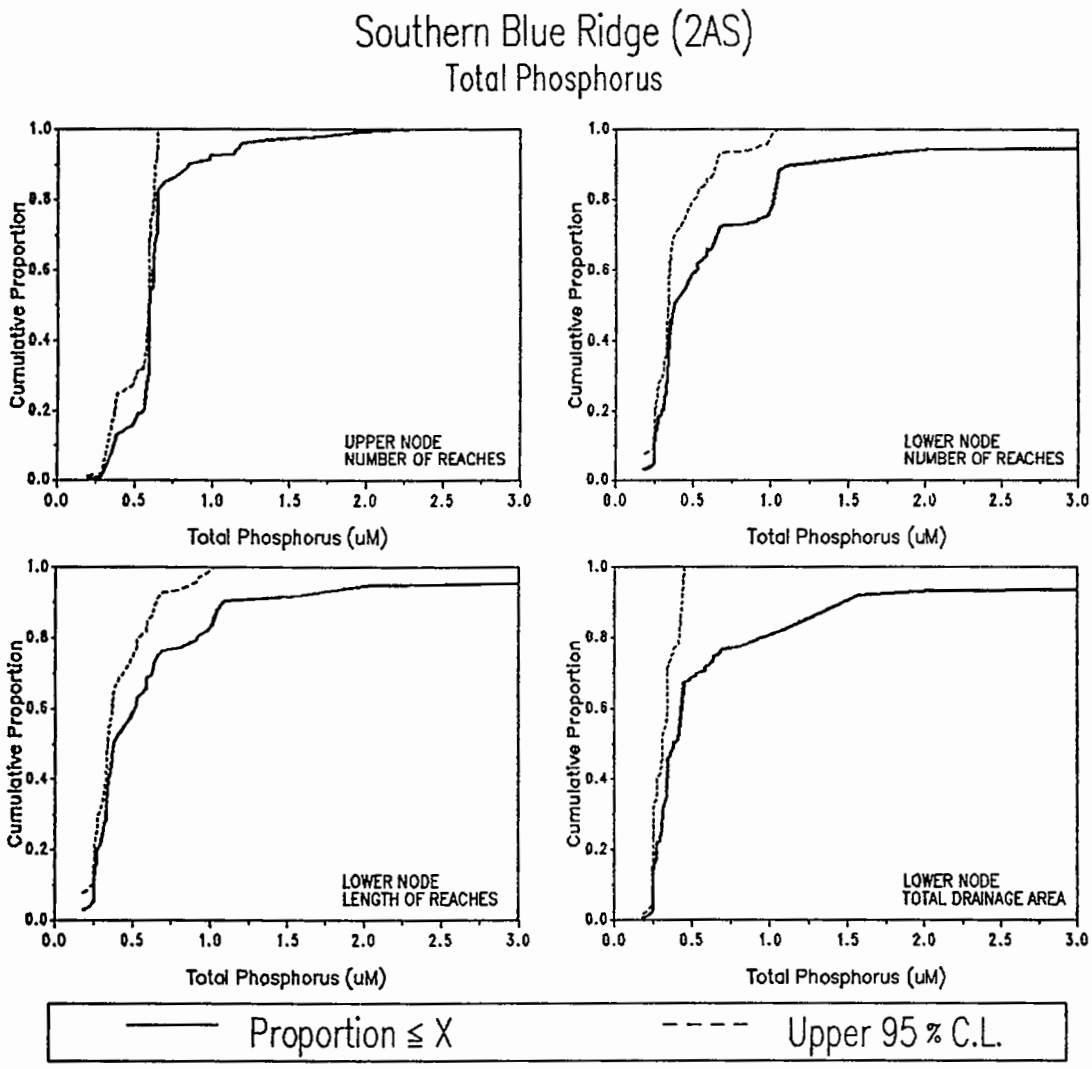


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (uM)	0.05	0.07	0.09	0.09
40 % (uM)	0.16	0.16	0.16	0.12
MEDIAN (uM)	0.19	0.24	0.31	0.29
60 % (uM)	0.22	0.38	0.51	0.49
80 % (uM)	0.50	0.82	0.82	0.85

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	0.00	1.50	0.33	0.38
LOWER	58	0.00	43.09	1.96	7.06

Figure 5-269. Population estimates for total phosphorous (PTD16) for the Mid-Atlantic Coastal Plain subregion (3B).



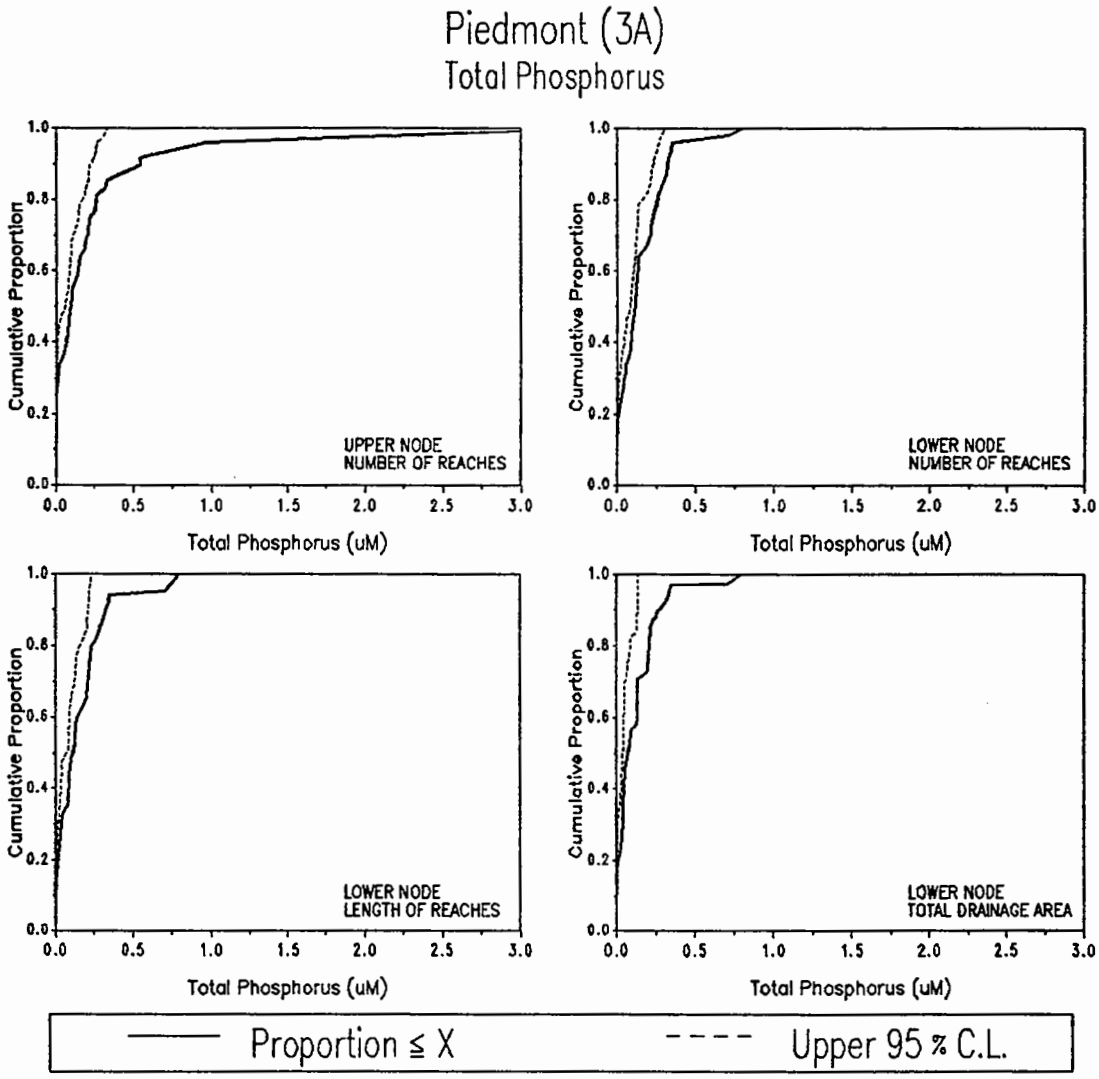
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (uM)	0.56	0.30	0.27	0.27
40 % (uM)	0.59	0.34	0.35	0.34
MEDIAN (uM)	0.59	0.38	0.38	0.38
60 % (uM)	0.62	0.52	0.51	0.43
80 % (uM)	0.65	1.02	0.92	0.96

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	0.20	2.34	0.66	0.30
LOWER	54	0.18	16.25	1.32	3.32

Figure 5-270. Population estimates for total phosphorous (PTL16) for the Southern Blue Ridge subregion (2As).



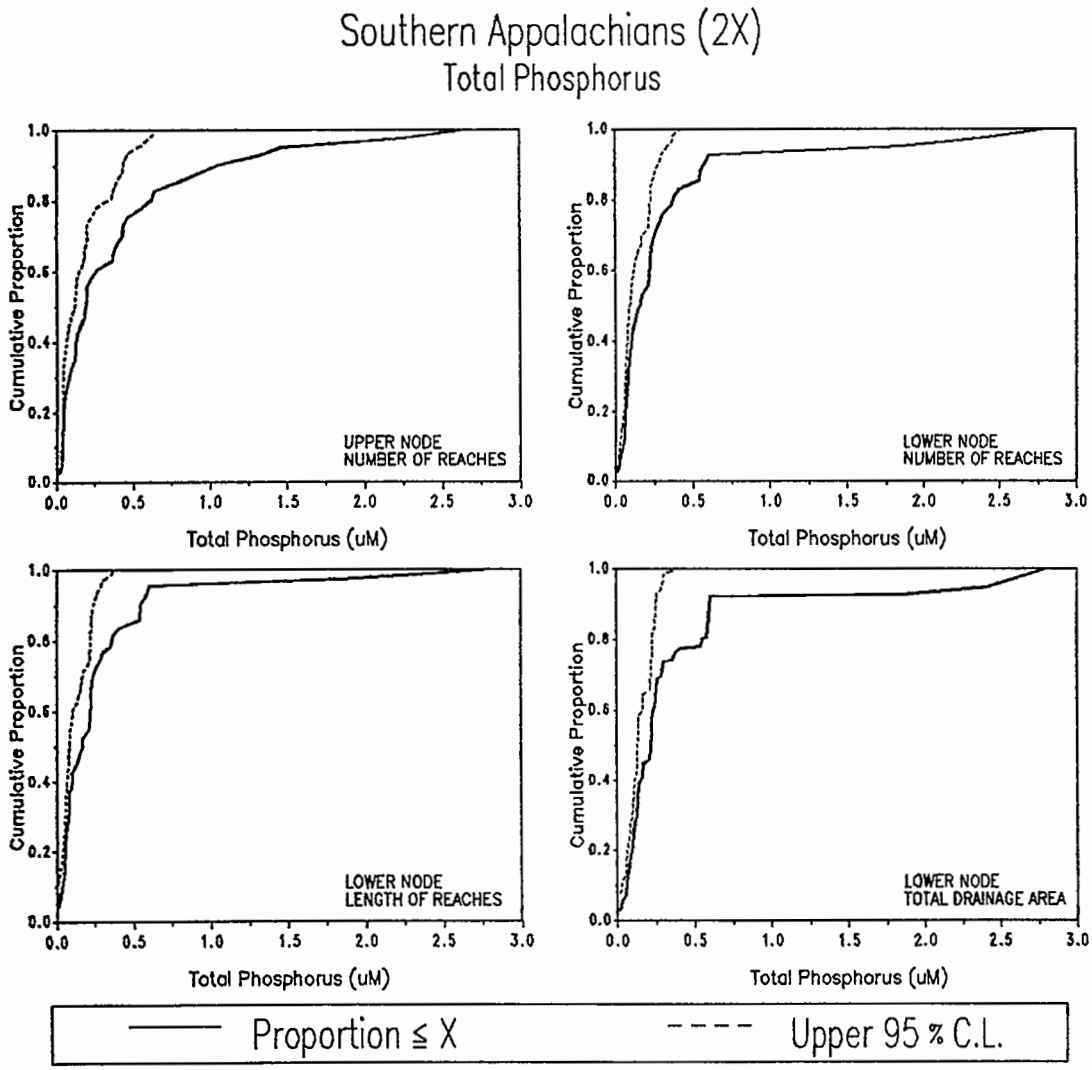
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (uM)	.	0.01	0.02	0.01
40 % (uM)	0.07	0.09	0.09	0.05
MEDIAN (uM)	0.09	0.11	0.11	0.07
60 % (uM)	0.14	0.13	0.14	0.13
80 % (uM)	0.26	0.26	0.24	0.21

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	0.00	3.44	0.27	0.59
LOWER	47	0.00	0.80	0.16	0.17

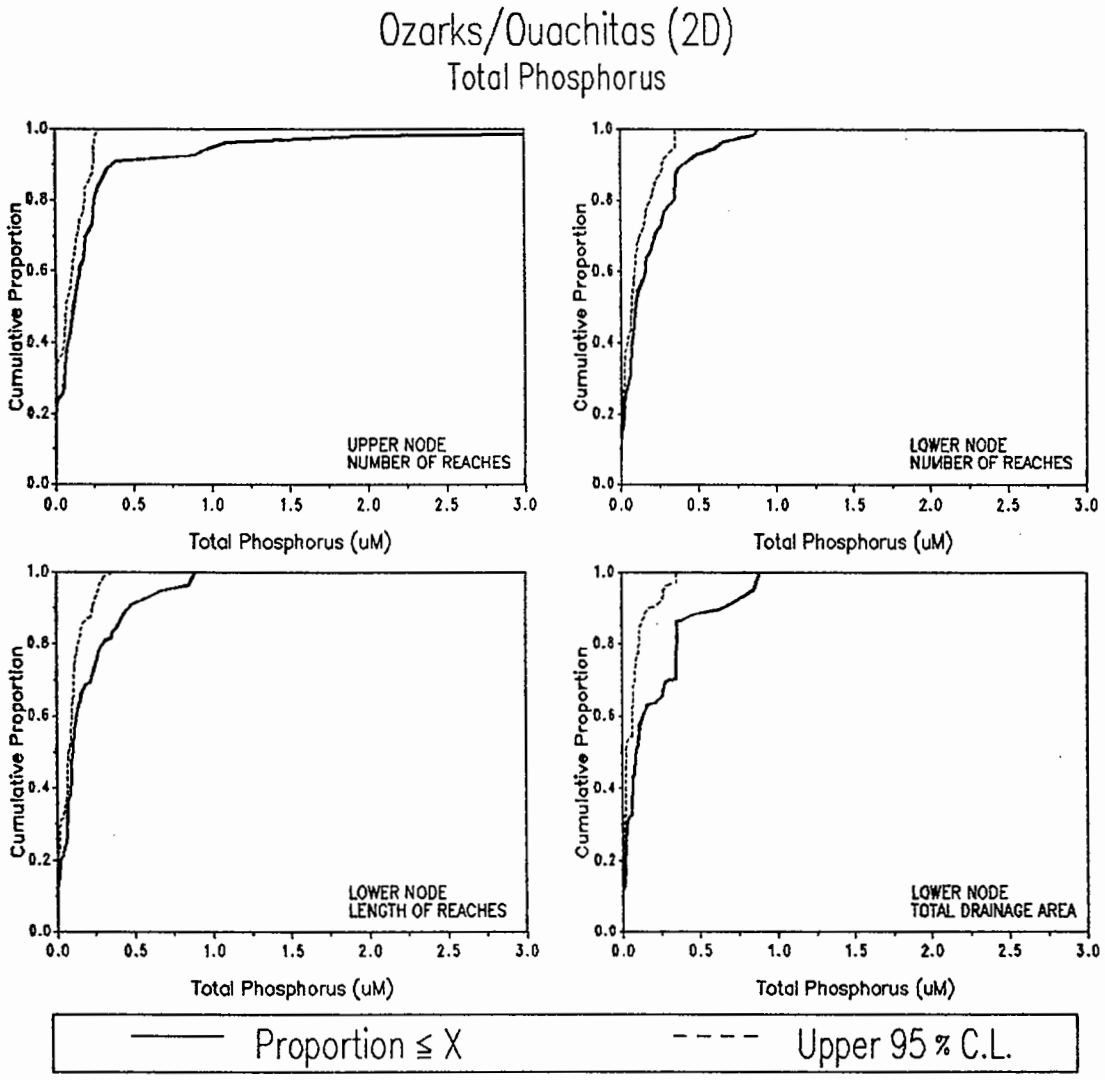
Figure 5-271. Population estimates for total phosphorous (PTD16) for the Piedmont subregion (3A).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (uM)	0.05	0.06	0.06	0.10
40 % (uM)	0.13	0.10	0.10	0.15
MEDIAN (uM)	0.19	0.16	0.16	0.22
60 % (uM)	0.26	0.22	0.22	0.23
80 % (uM)	0.62	0.37	0.37	0.55

SUMMARY STATISTICS (uM)					
		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	0.02	2.65	0.43	0.58
LOWER	40	0.01	2.81	0.35	0.59

Figure 5-272. Population estimates for total phosphorous (PTD16) for the Southern Appalachians subregion (2X).

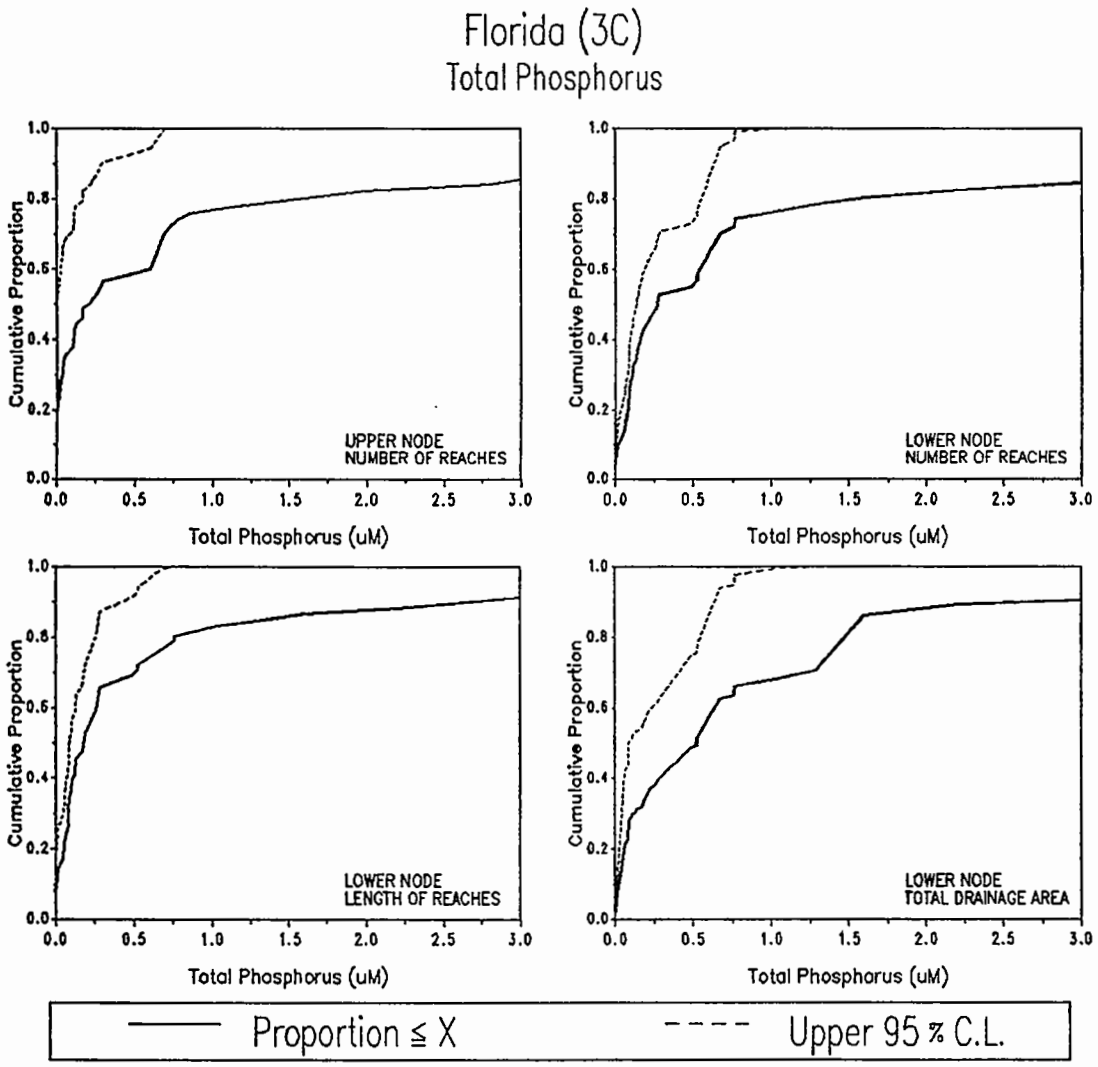


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (uM)	0.00	0.02	0.02	0.02
40 % (uM)	0.08	0.07	0.09	0.07
MEDIAN (uM)	0.12	0.10	0.11	0.09
60 % (uM)	0.16	0.16	0.13	0.13
80 % (uM)	0.25	0.35	0.30	0.35

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	0.00	6.01	0.33	0.89
LOWER	48	0.00	0.89	0.19	0.21

Figure 5-273. Population estimates for total phosphorous (PTD16) for the Ozarks/Ouachitas subregion (2D).

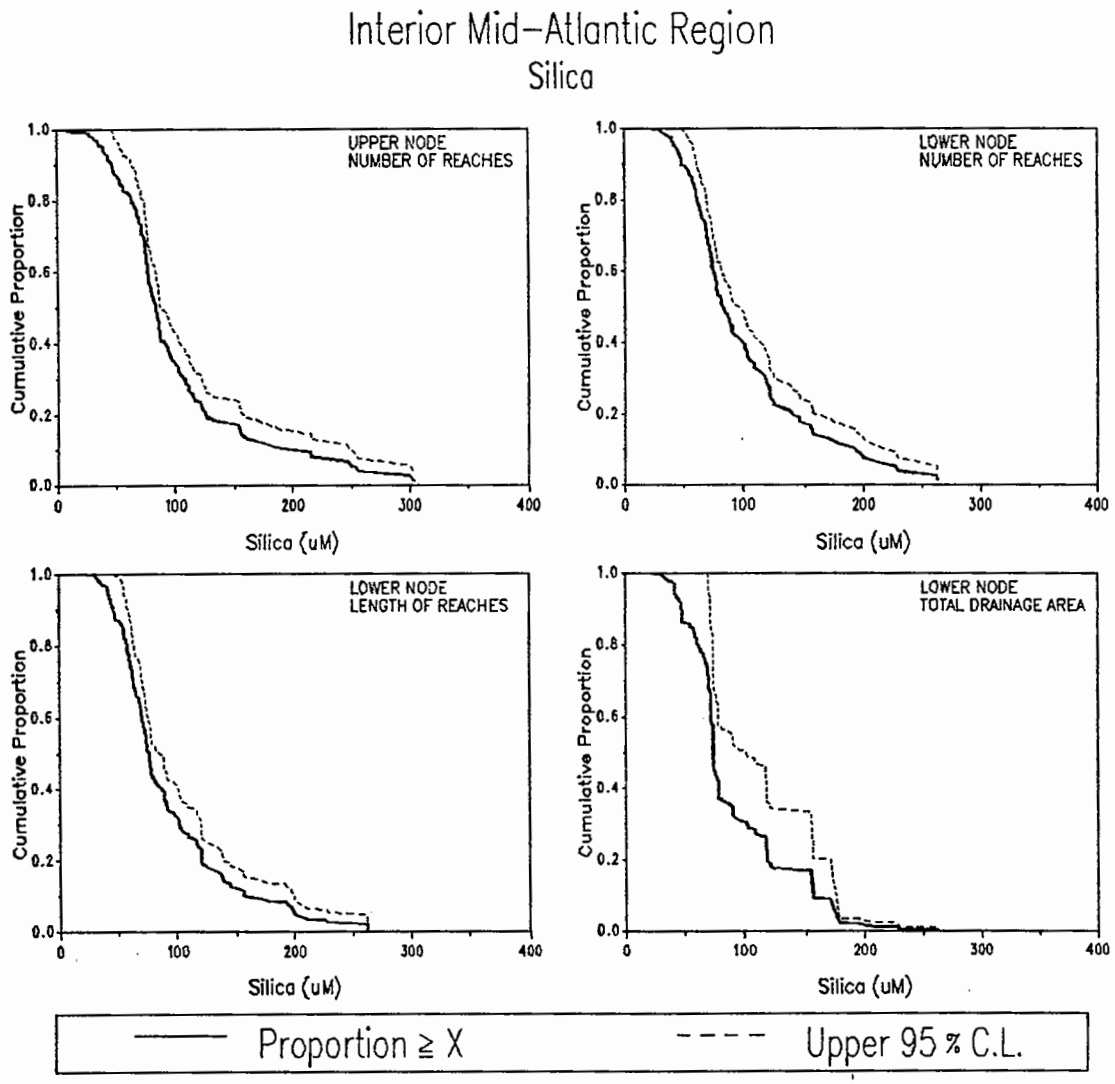


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (uM)	0.01	0.08	0.06	0.06
40 % (uM)	0.11	0.16	0.11	0.29
MEDIAN (uM)	0.21	0.27	0.18	0.52
60 % (uM)	0.59	0.54	0.26	0.64
80 % (uM)	1.57	1.56	0.76	1.48

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	0.00	7.20	0.96	1.49
LOWER	34	0.00	9.14	1.03	1.64

Figure 5-274. Population estimates for total phosphorous (PTD16) for Florida subregion (3C).

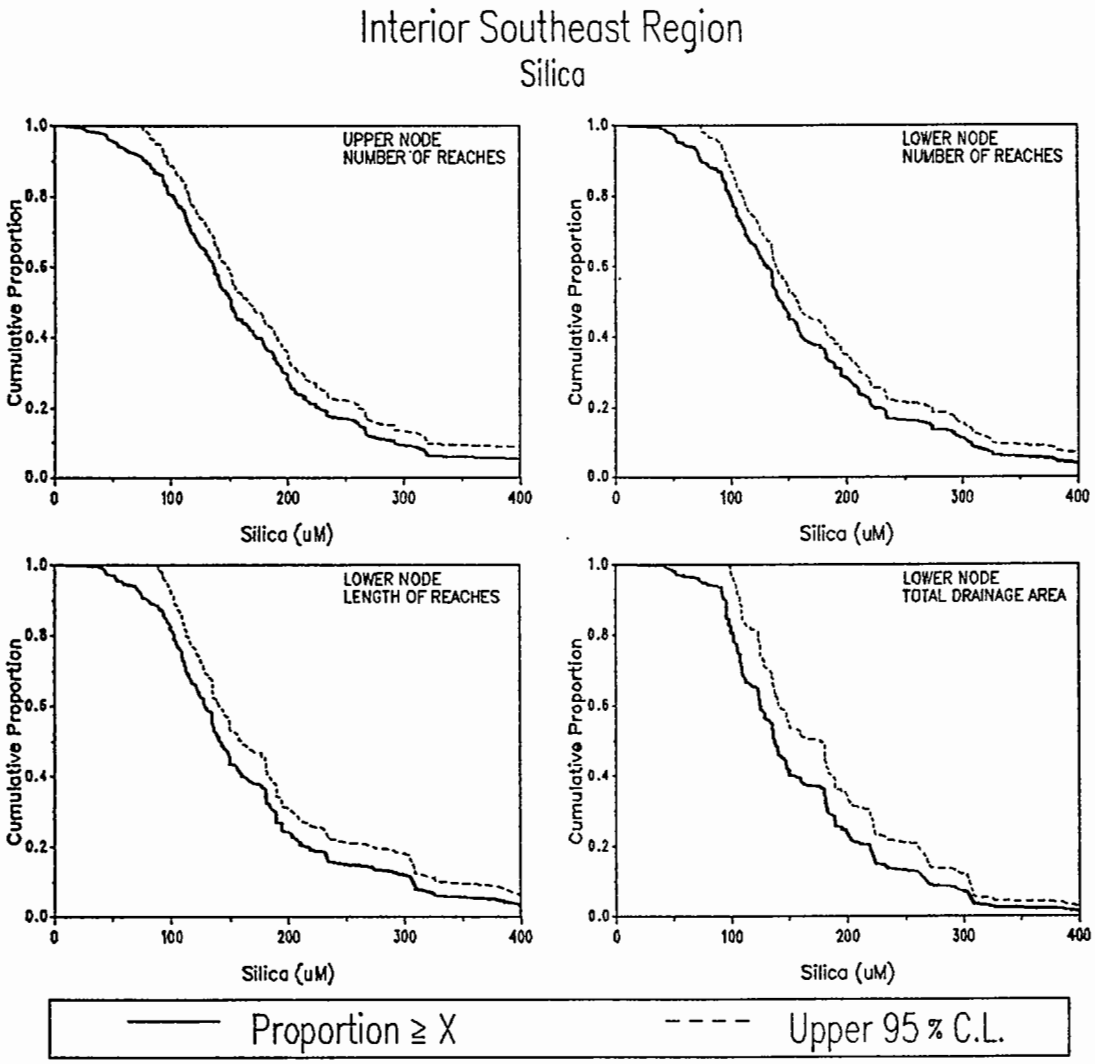


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (uM)	123.31	136.01	120.14	116.09
40 % (uM)	90.78	99.55	87.04	78.36
MEDIAN (uM)	83.89	82.65	75.88	74.22
60 % (uM)	76.85	74.91	70.27	71.90
80 % (uM)	63.17	61.44	57.62	61.75

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	5.49	303.19	101.53	59.56
LOWER	164	18.56	262.55	101.33	52.29

Figure 5-275. Population estimates for dissolved silica (SIO216) for the Mid-Atlantic Region.



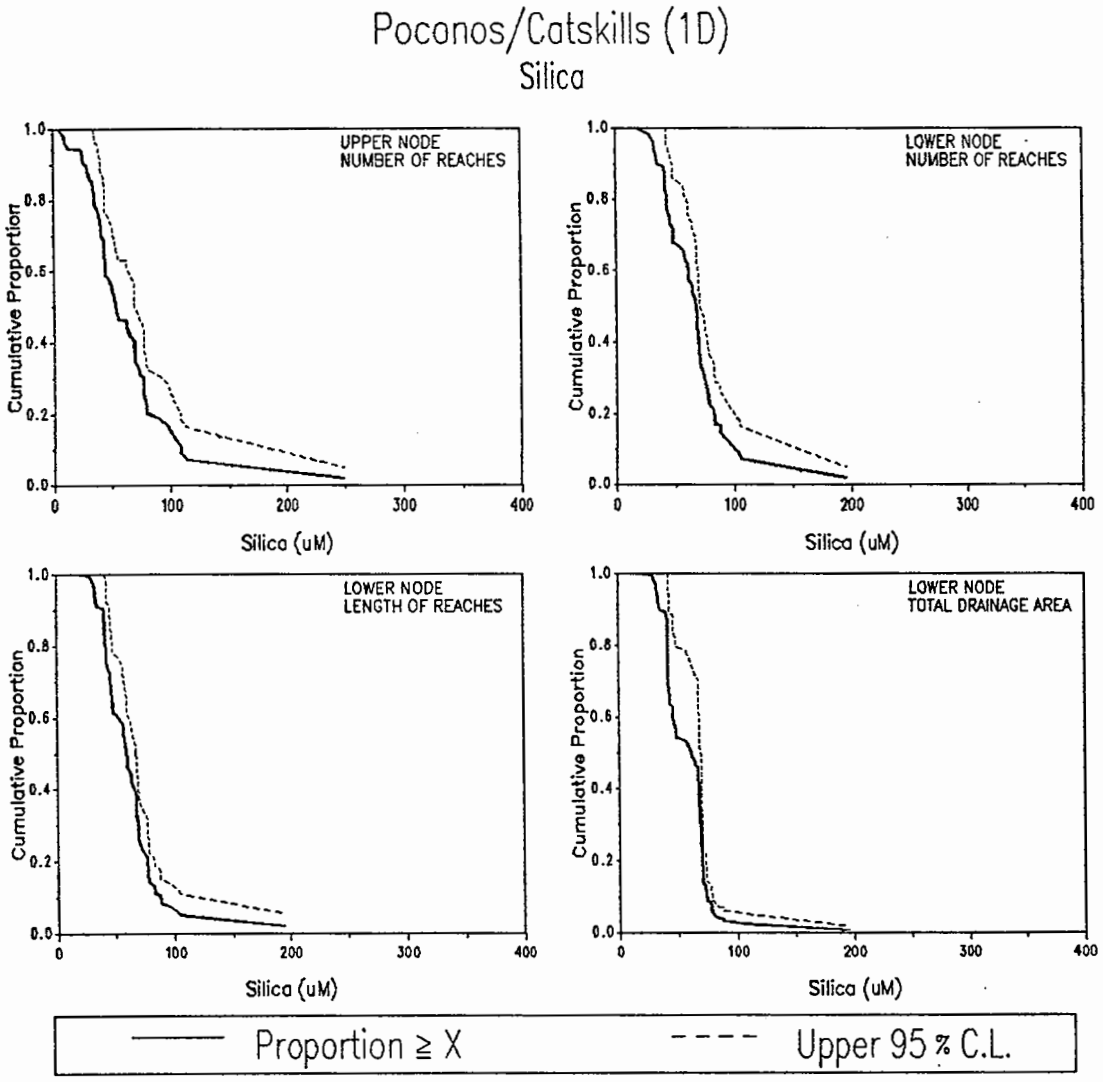
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (uM)	223.53	219.99	212.48	216.23
40 % (uM)	172.06	159.78	159.79	153.28
MEDIAN (uM)	150.54	142.37	140.09	136.04
60 % (uM)	135.82	130.10	127.69	124.35
80 % (uM)	101.46	98.93	101.25	101.45

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	7.16	567.95	171.88	97.63
LOWER	189	2.16	507.09	168.33	91.59

Figure 5-276. Population estimates for dissolved silica (SIO216) for the Southeastern Region.



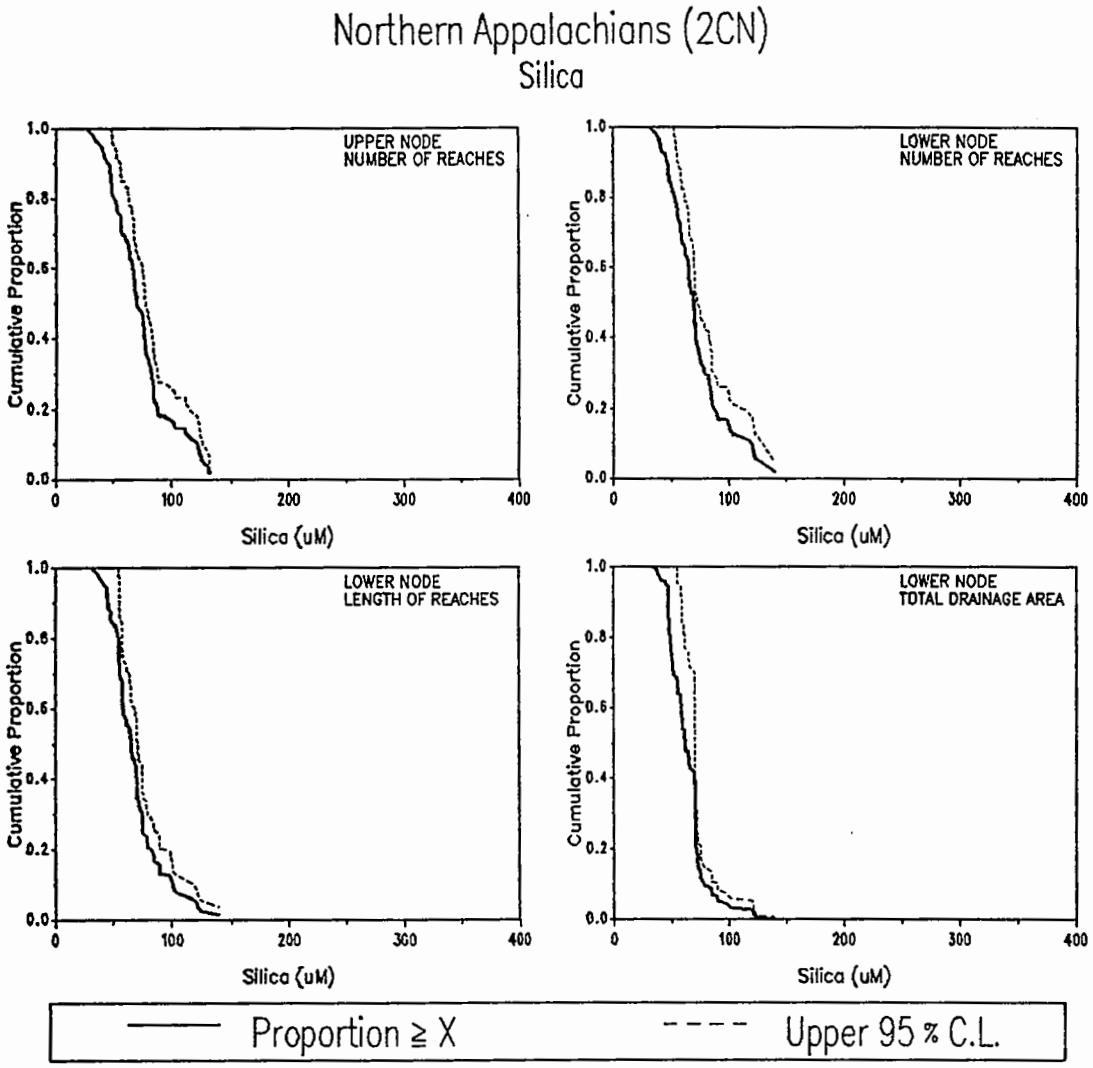
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (uM)	79.12	79.12	74.77	69.53
40 % (uM)	65.66	69.26	64.02	66.06
MEDIAN (uM)	52.65	66.51	58.46	60.21
60 % (uM)	44.17	59.78	49.34	45.83
80 % (uM)	35.46	42.50	41.76	41.44

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	5.49	249.13	62.01	37.60
LOWER	56	18.56	194.64	65.53	27.15

Figure 5-277. Population estimates for dissolved silica (SIO216) for the Poconos/Catskills subregion (1D).



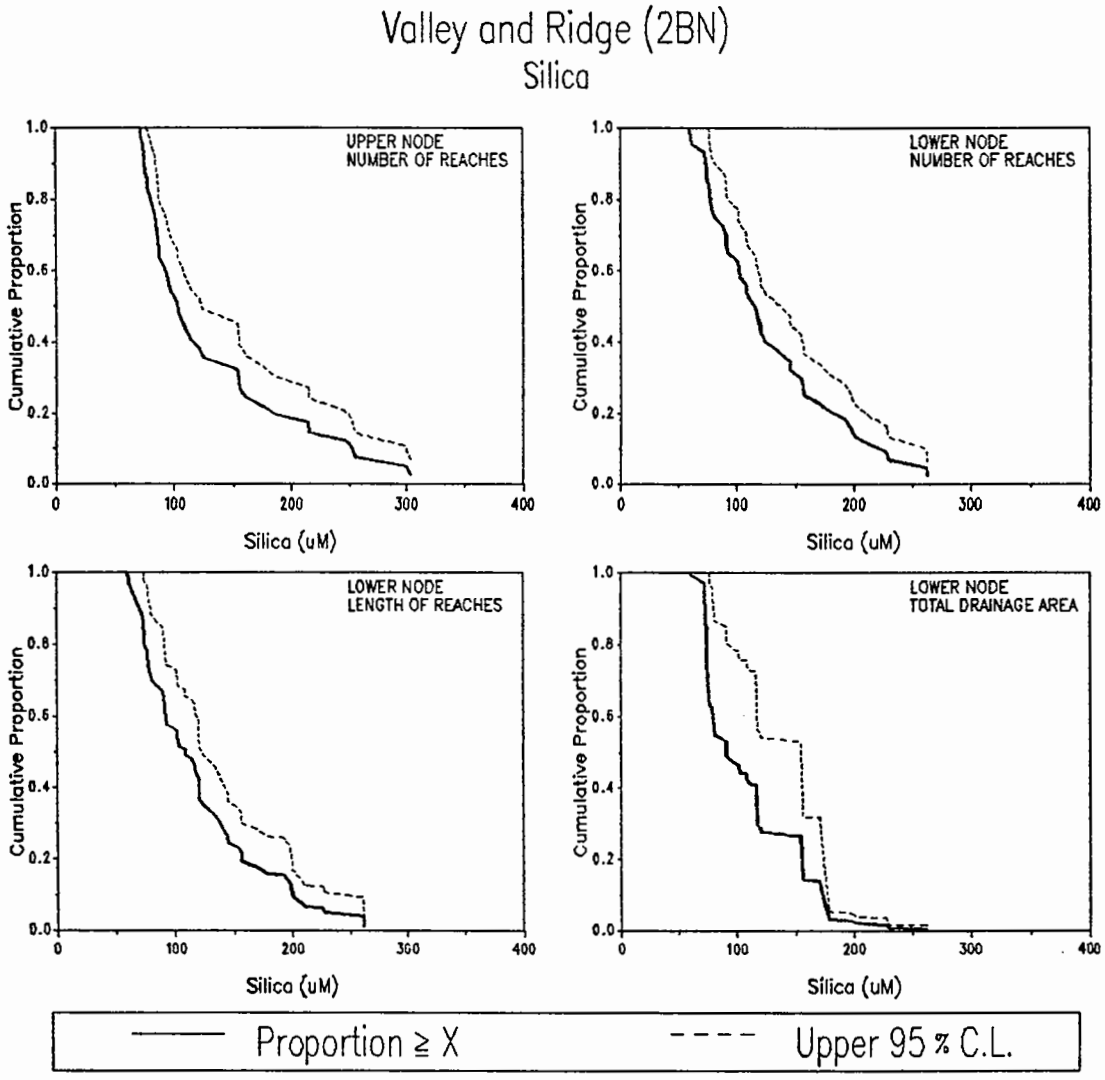
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (uM)	85.54	84.72	79.79	70.68
40 % (uM)	75.84	70.56	69.61	69.81
MEDIAN (uM)	69.22	68.83	64.60	60.26
60 % (uM)	65.96	64.04	58.27	58.57
80 % (uM)	48.82	49.64	52.11	47.63

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	27.92	131.73	73.16	25.43
LOWER	61	30.96	139.47	71.85	24.09

Figure 5-278. Population estimates for dissolved silica (SIO216) for the Northern Appalachians subregion (2Cn).

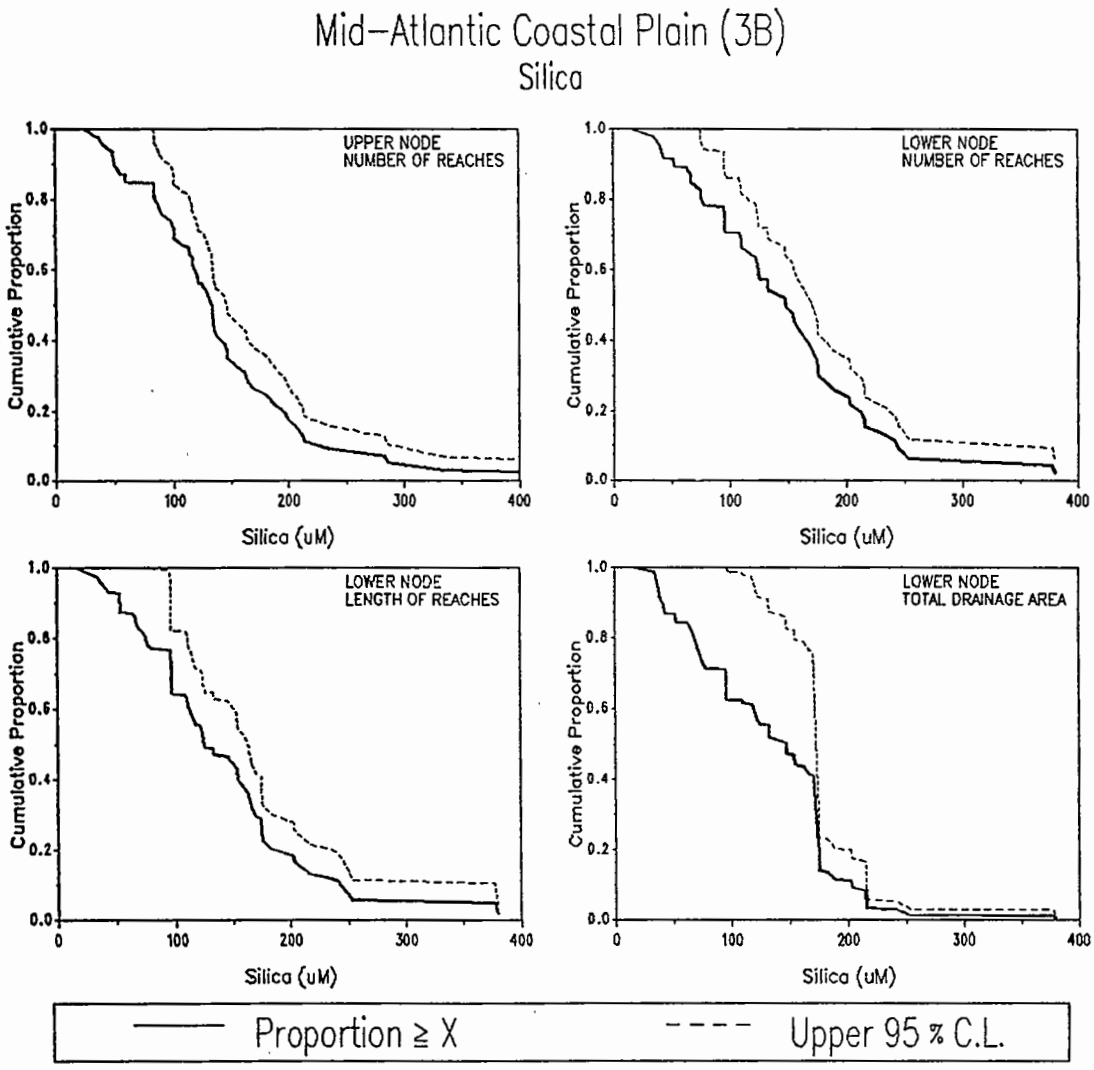


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (uM)	171.80	172.15	155.33	149.77
40 % (uM)	111.41	120.29	118.76	112.89
MEDIAN (uM)	99.99	111.02	105.08	90.75
60 % (uM)	88.93	101.30	91.12	77.99
80 % (uM)	77.78	76.78	73.97	73.67

SUMMARY STATISTICS (uM)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	71.60	303.19	130.22	65.27
LOWER	47	59.67	262.55	127.49	54.72

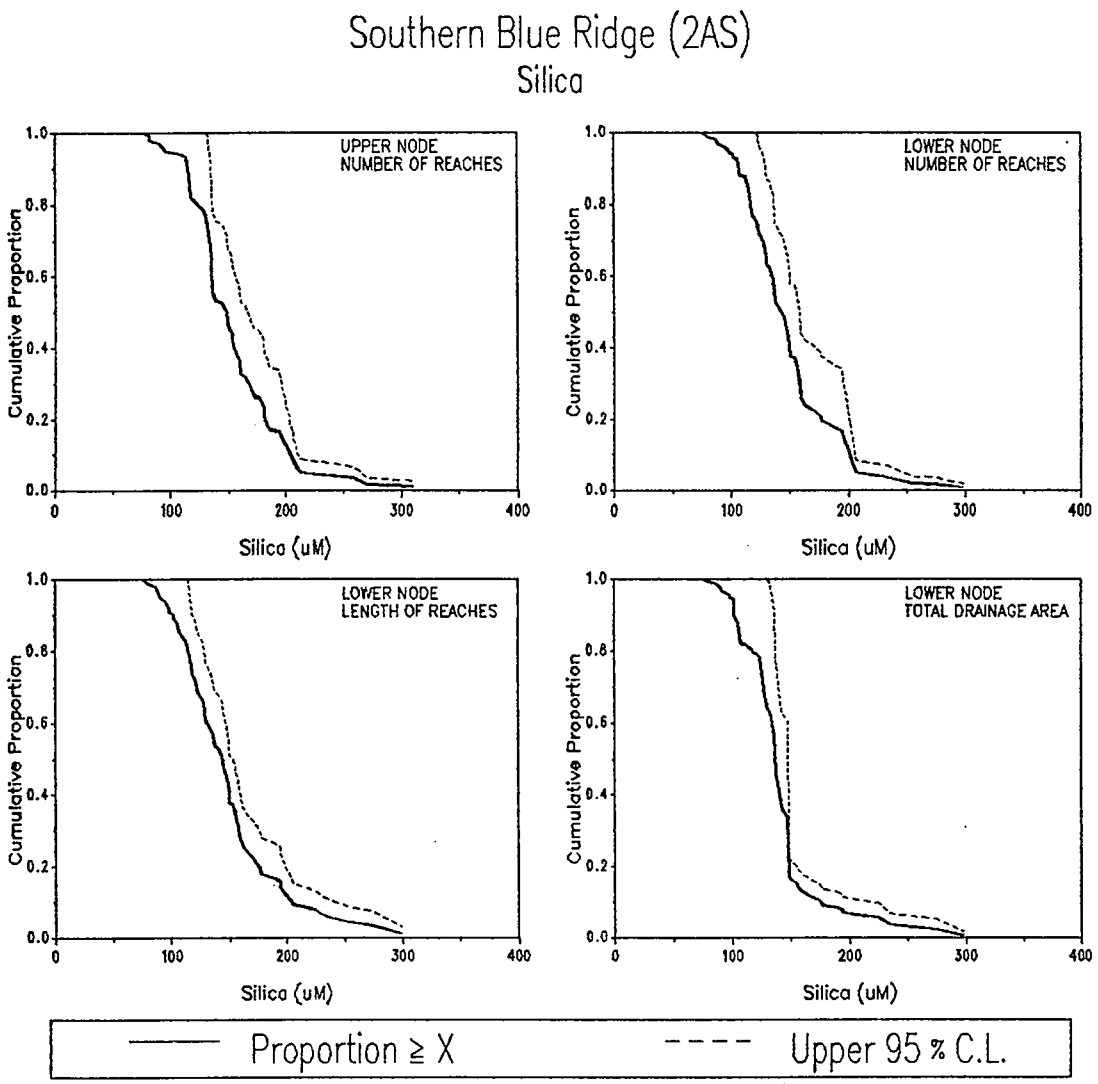
Figure 5-279. Population estimates for dissolved silica (SIO216) for the Valley and Ridge subregion (2Bn).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (uM)	186.61	202.94	178.95	174.26
40 % (uM)	136.04	160.95	153.42	167.01
MEDIAN (uM)	130.16	145.73	123.89	135.39
60 % (uM)	116.12	123.06	109.92	112.20
80 % (uM)	83.23	75.37	75.04	66.57

SUMMARY STATISTICS (uM)					
	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	24.53	428.90	139.28	74.81
LOWER	58	16.17	379.72	148.06	77.35

Figure 5-280. Population estimates for dissolved silica (SIO216) for the Mid-Atlantic Coastal Plain subregion (3B).

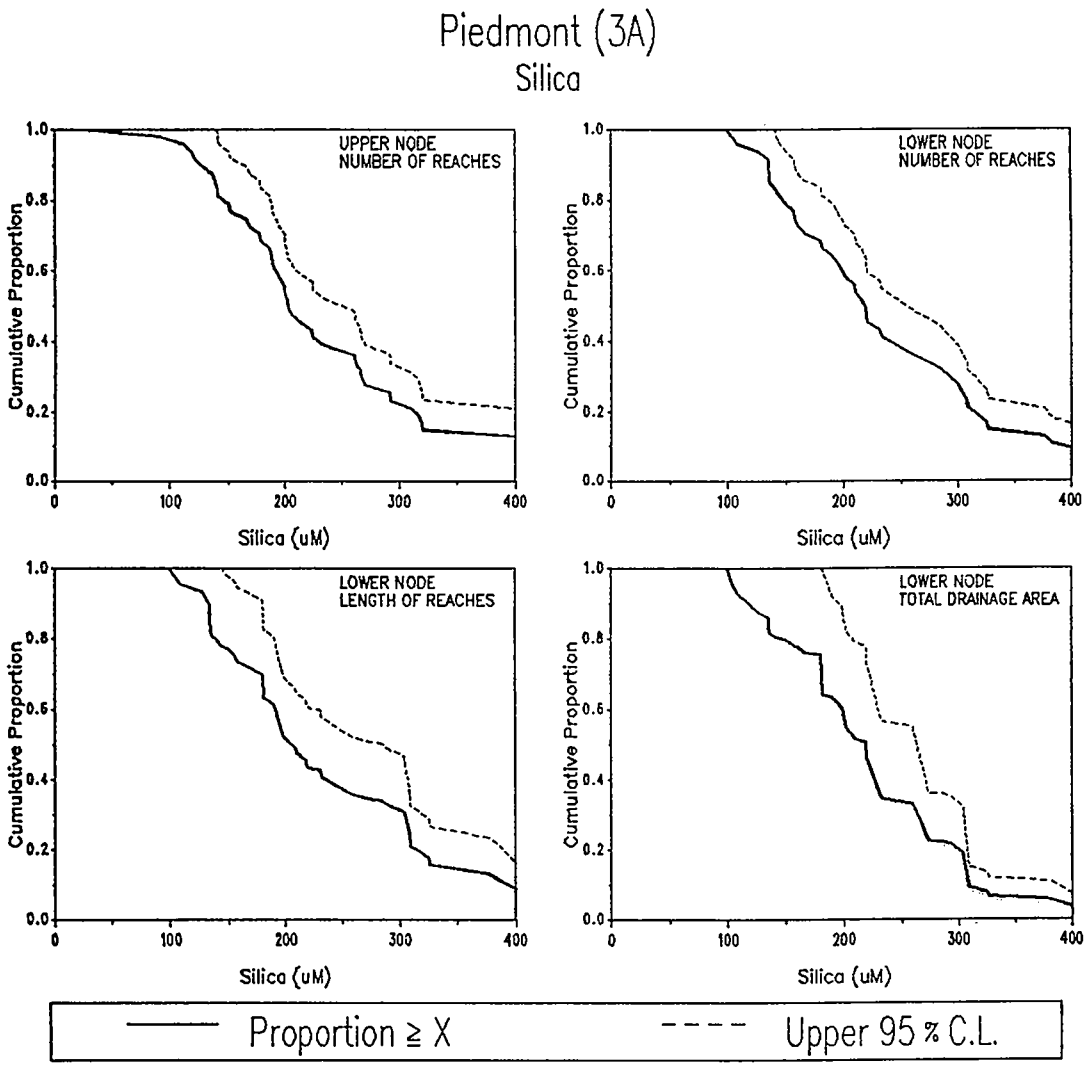


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (uM)	180.51	175.24	172.97	147.00
40 % (uM)	153.31	148.94	149.00	136.96
MEDIAN (uM)	144.92	138.45	142.37	134.82
60 % (uM)	135.31	132.12	129.72	131.70
80 % (uM)	121.52	114.06	112.97	115.50

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	76.89	309.57	151.61	37.94
LOWER	54	75.48	297.92	146.14	37.17

Figure 5-281. Population estimates for dissolved silica (SIO216) for the Southern Blue Ridge subregion (2As).

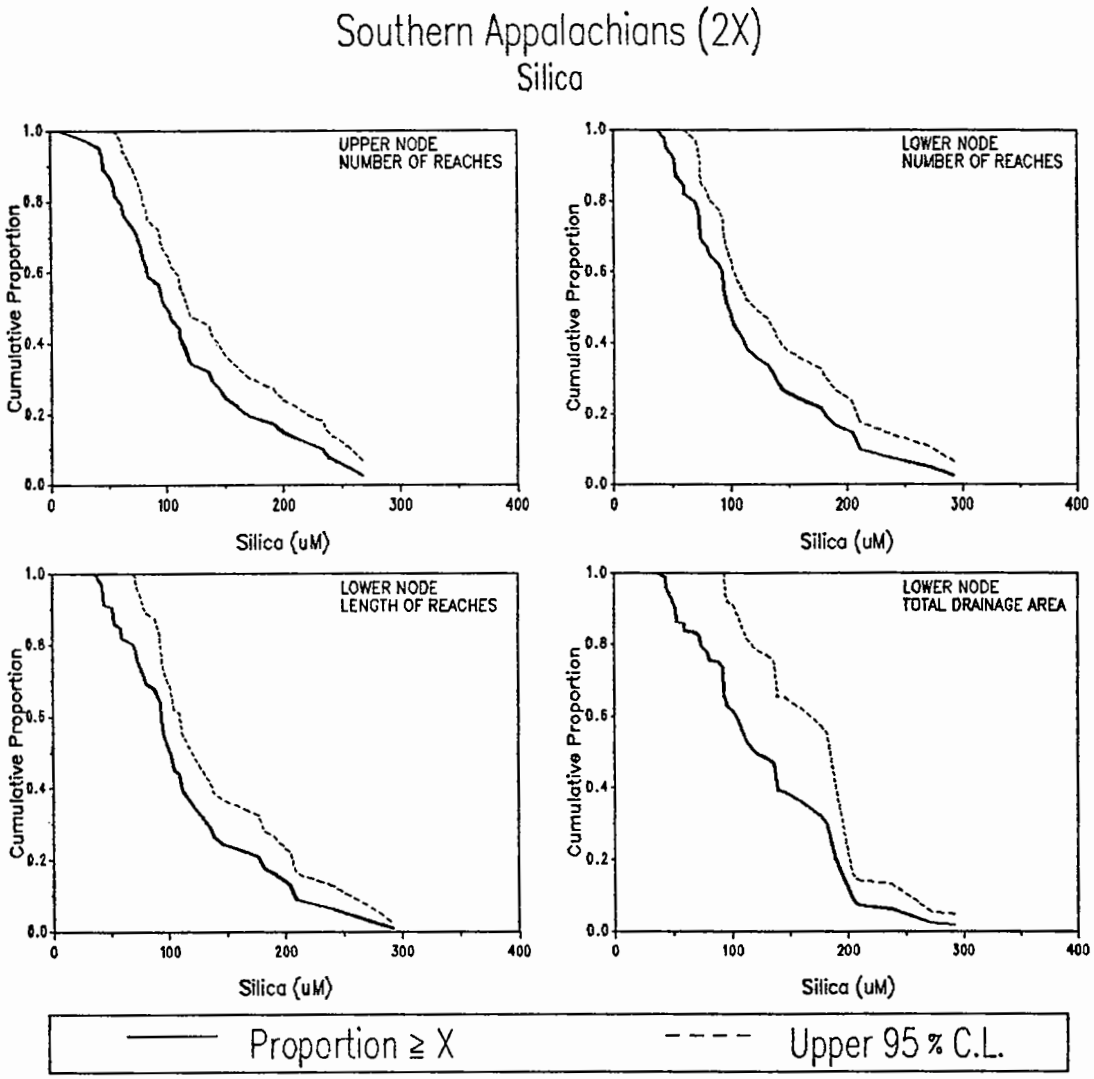


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (uM)	300.81	308.47	308.63	291.23
40 % (uM)	223.61	231.25	231.10	219.84
MEDIAN(uM)	200.70	214.23	200.09	215.73
60 % (uM)	188.63	194.19	183.72	194.30
80 % (uM)	141.50	142.37	135.80	142.10

SUMMARY STATISTICS (uM)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	25.46	567.95	234.90	112.37
LOWER	47	99.53	507.09	235.38	97.49

Figure 5-282. Population estimates for dissolved silica (SIO216) for the Piedmont subregion (3A).



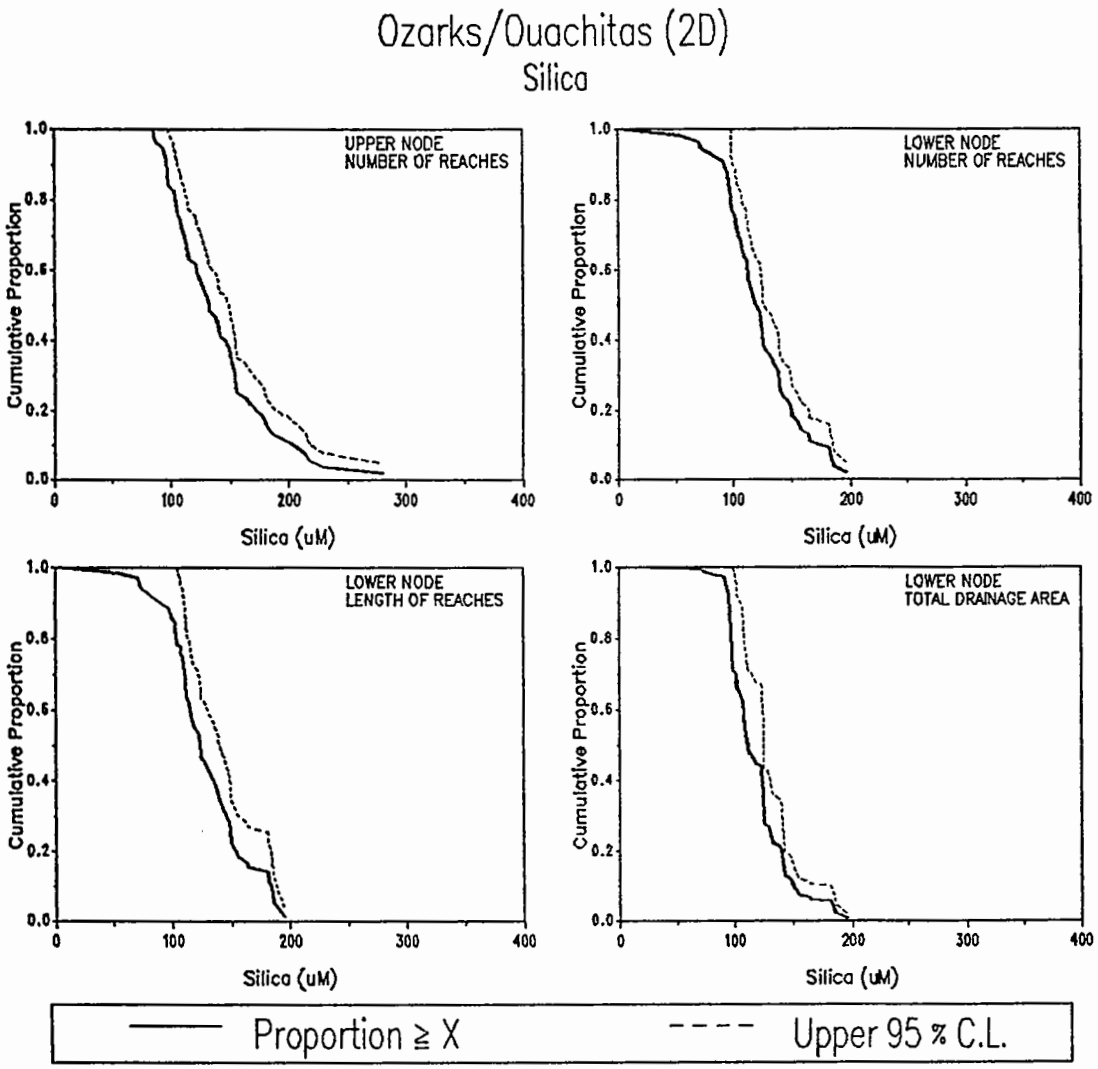
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (uM)	158.83	171.11	164.18	182.15
40 % (uM)	111.40	106.53	109.23	135.28
MEDIAN (uM)	95.15	95.15	99.91	112.15
60 % (uM)	81.10	88.22	91.70	100.72
80 % (uM)	54.87	59.39	60.96	72.26

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	7.16	267.13	112.61	64.57
LOWER	40	36.95	292.09	116.19	63.24

Figure 5-283. Population estimates for dissolved silica (SIO216) for the Southern Appalachians subregion (2X).



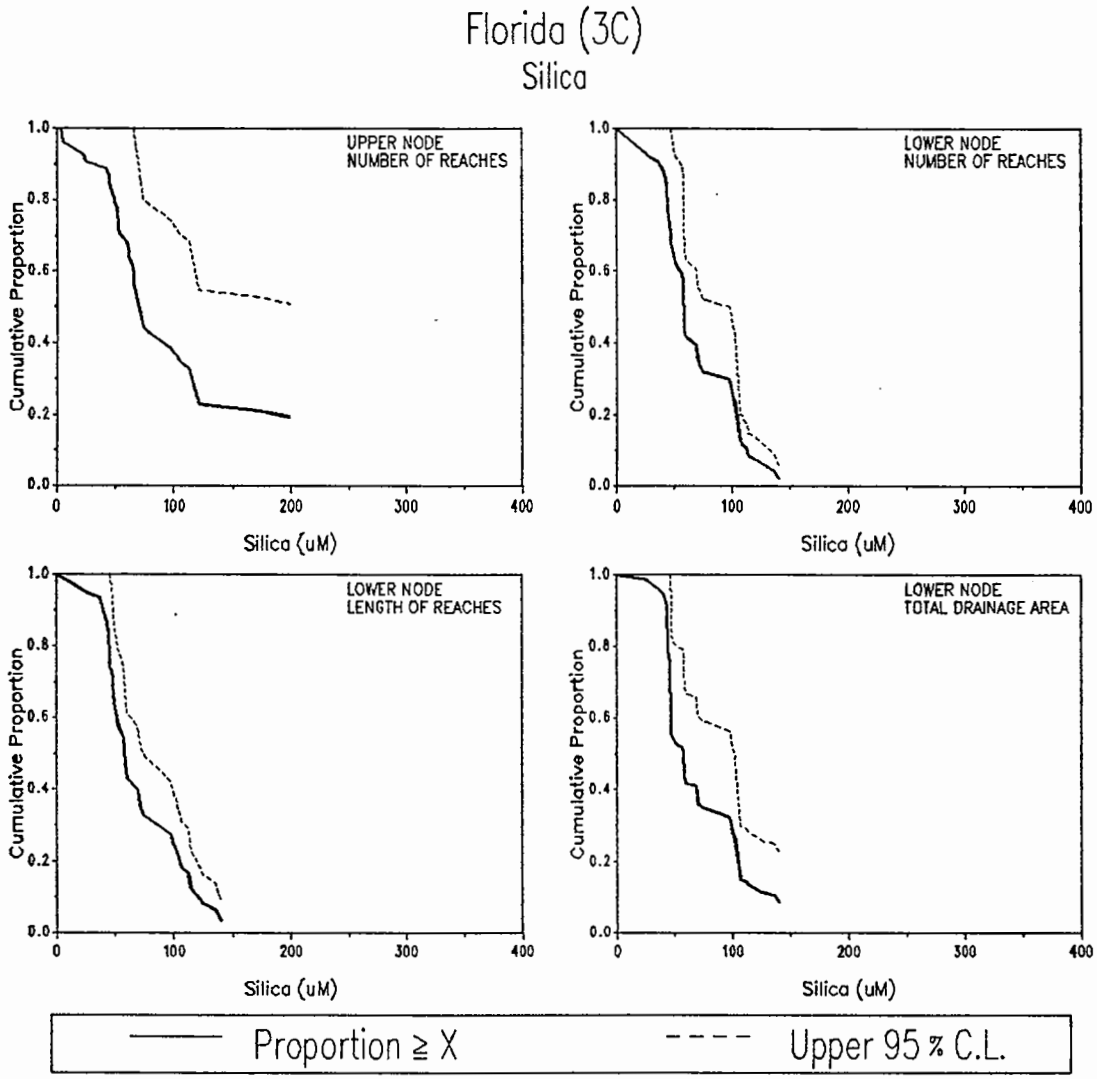
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (uM)	166.96	148.16	149.74	138.89
40 % (uM)	140.89	124.38	133.55	122.88
MEDIAN (uM)	130.62	116.78	123.25	108.86
60 % (uM)	119.96	111.41	114.45	107.05
80 % (uM)	102.29	95.93	102.28	94.69

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	85.71	280.31	138.62	40.94
LOWER	48	2.16	194.51	120.92	34.16

Figure 5-284. Population estimates for dissolved silica (SIO216) for the Ozarks/Ouachitas subregion (2D).

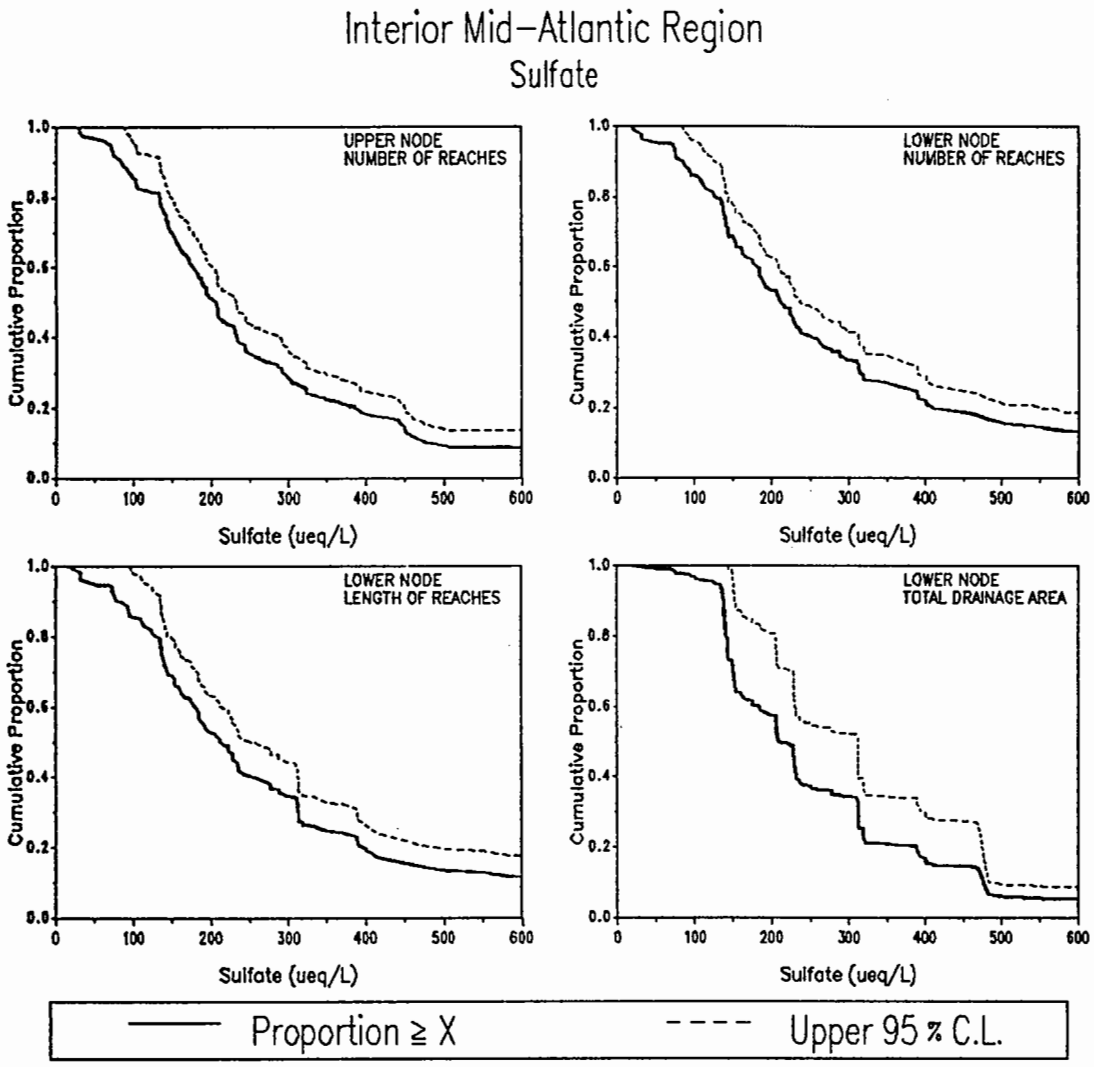


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (uM)	151.10	101.19	101.74	101.60
40 % (uM)	81.74	59.89	60.15	62.41
MEDIAN (uM)	65.35	57.61	57.46	57.32
60 % (uM)	63.75	52.02	49.65	46.72
80 % (uM)	45.05	43.88	43.80	44.15

SUMMARY STATISTICS (uM)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	3.50	198.72	91.82	60.71
LOWER	34	0.10	139.80	66.07	33.30

Figure 5-285. Population estimates for dissolved silica (SIO216) for Florida subregion (3C).



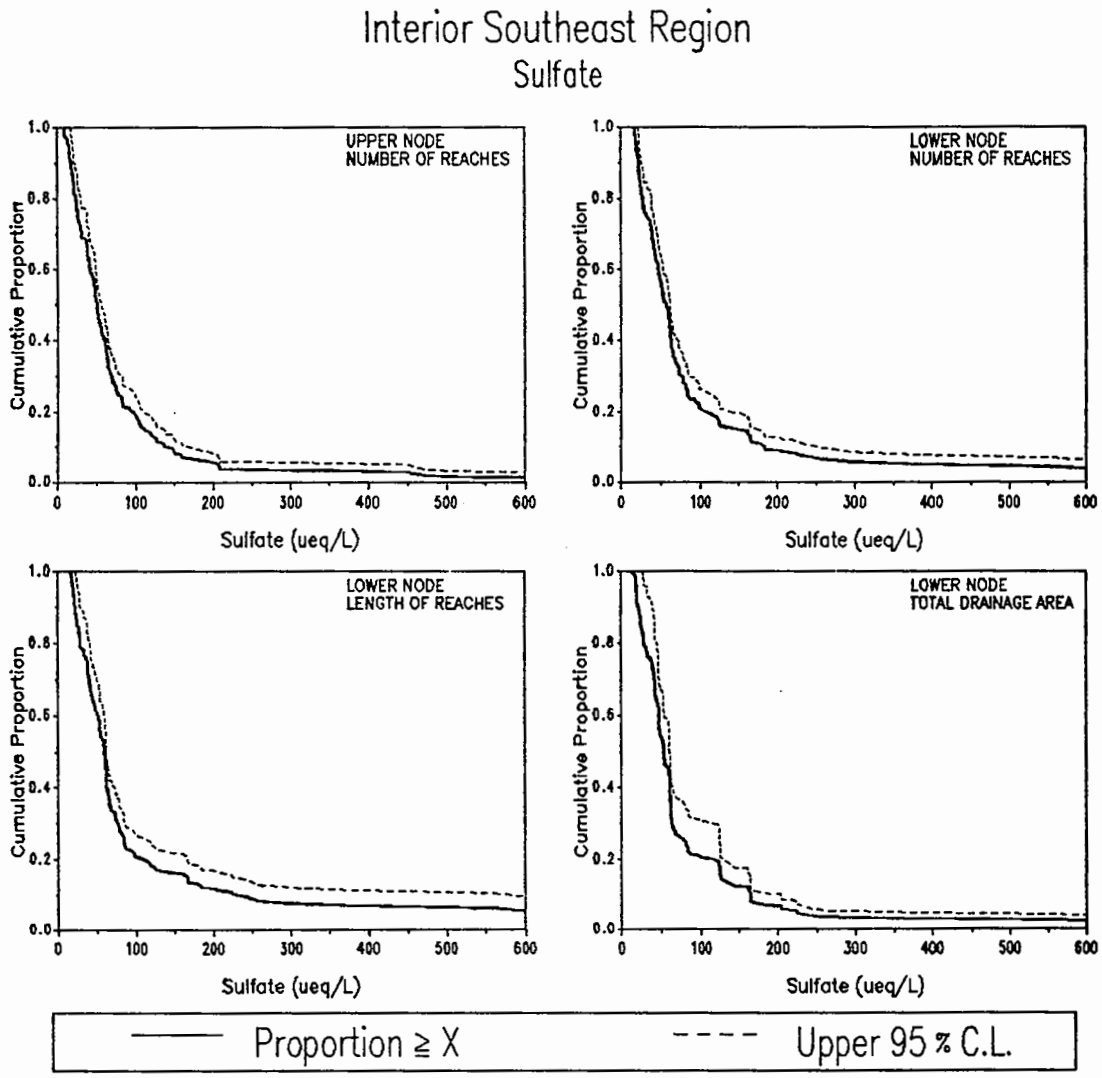
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (ueq/L)	378.58	404.45	391.46	375.04
40 % (ueq/L)	231.75	248.00	251.25	229.72
MEDIAN(ueq/L)	203.71	209.36	211.46	208.49
60 % (ueq/L)	175.36	177.70	177.68	182.63
80 % (ueq/L)	132.76	123.86	128.97	140.90

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	23.94	2217.33	302.70	350.16
LOWER	164	18.03	2383.89	341.60	397.78

Figure 5-286. Population estimates for sulfate (SO416) for the Mid-Atlantic Region.

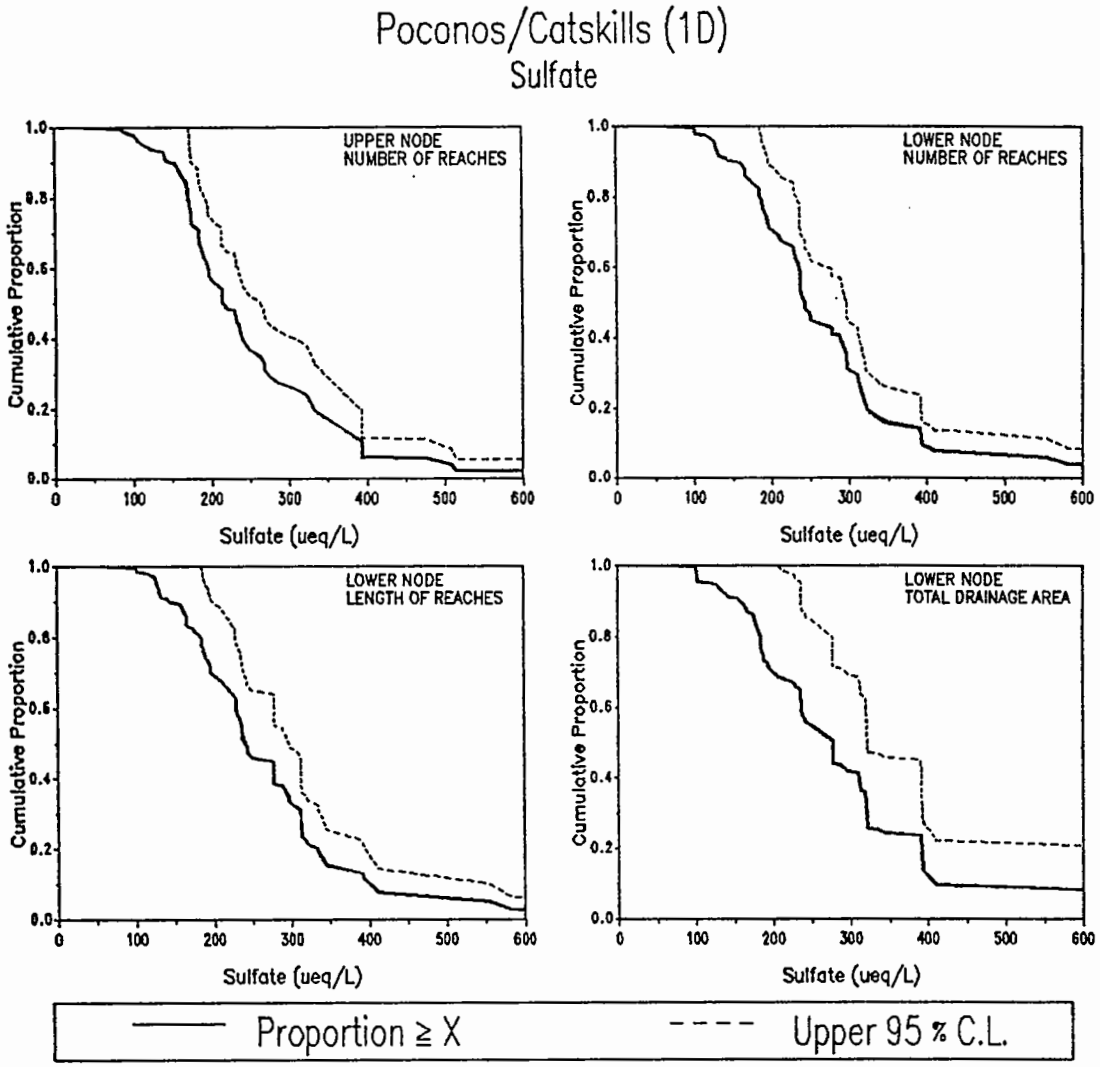


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (ueq/L)	91.21	98.26	101.77	113.68
40 % (ueq/L)	58.56	61.55	60.93	59.86
MEDIAN (ueq/L)	49.22	56.57	58.51	52.50
60 % (ueq/L)	40.23	46.47	49.46	46.47
80 % (ueq/L)	22.82	26.93	27.99	27.79

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	6.23	2644.14	85.23	220.81
LOWER	189	12.87	2852.34	119.50	293.63

Figure 5-287. Population estimates for sulfate (SO416) for the Southeastern Region.

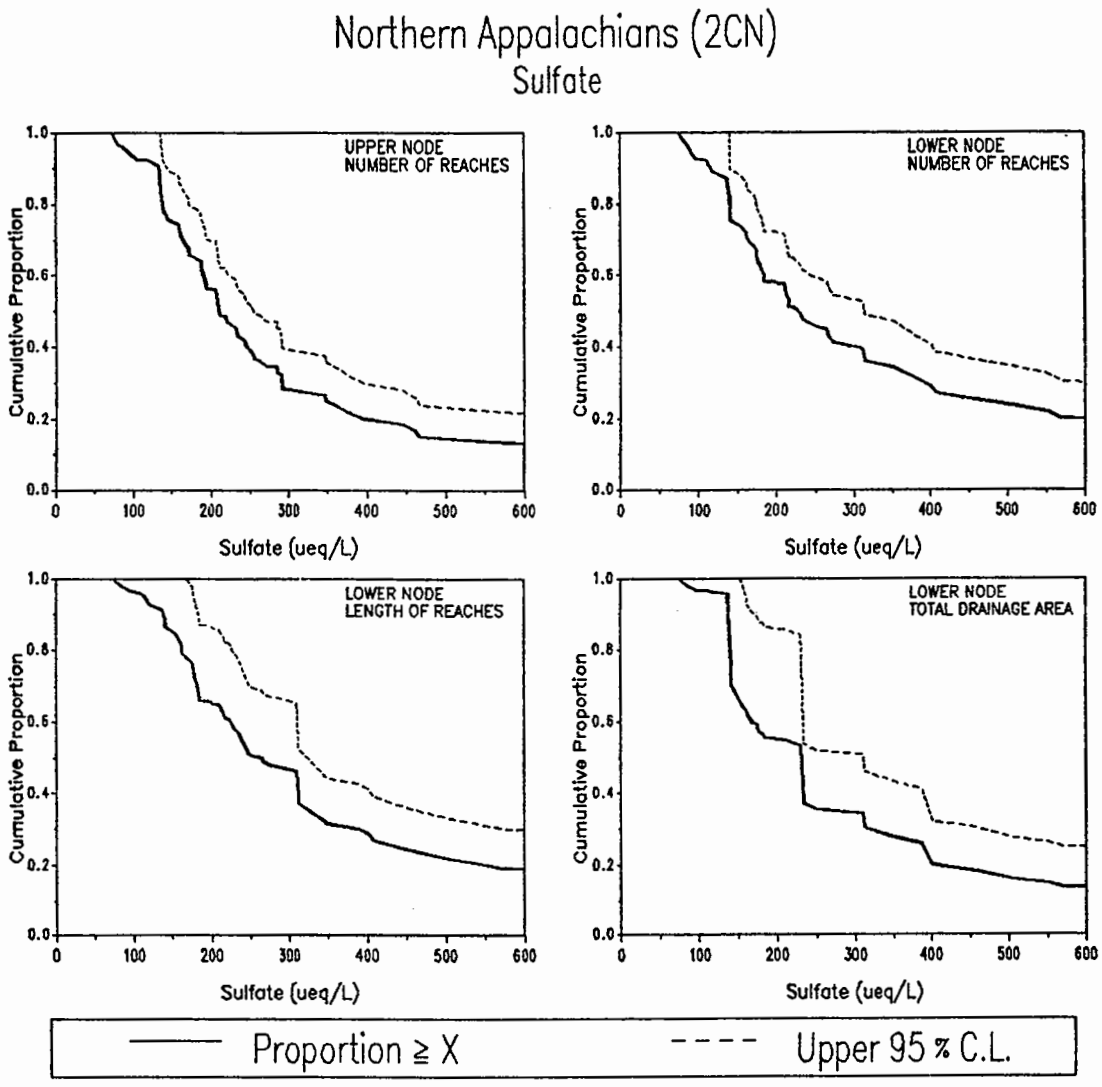


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (ueq/L)	326.17	317.48	322.07	362.25
40 % (ueq/L)	236.26	278.08	270.78	306.33
MEDIAN (ueq/L)	213.79	238.19	236.90	252.90
60 % (ueq/L)	193.15	232.07	227.94	234.96
80 % (ueq/L)	167.08	184.53	173.46	174.14

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	23.94	1110.98	255.01	154.22
LOWER	56	54.55	1092.38	275.60	153.34

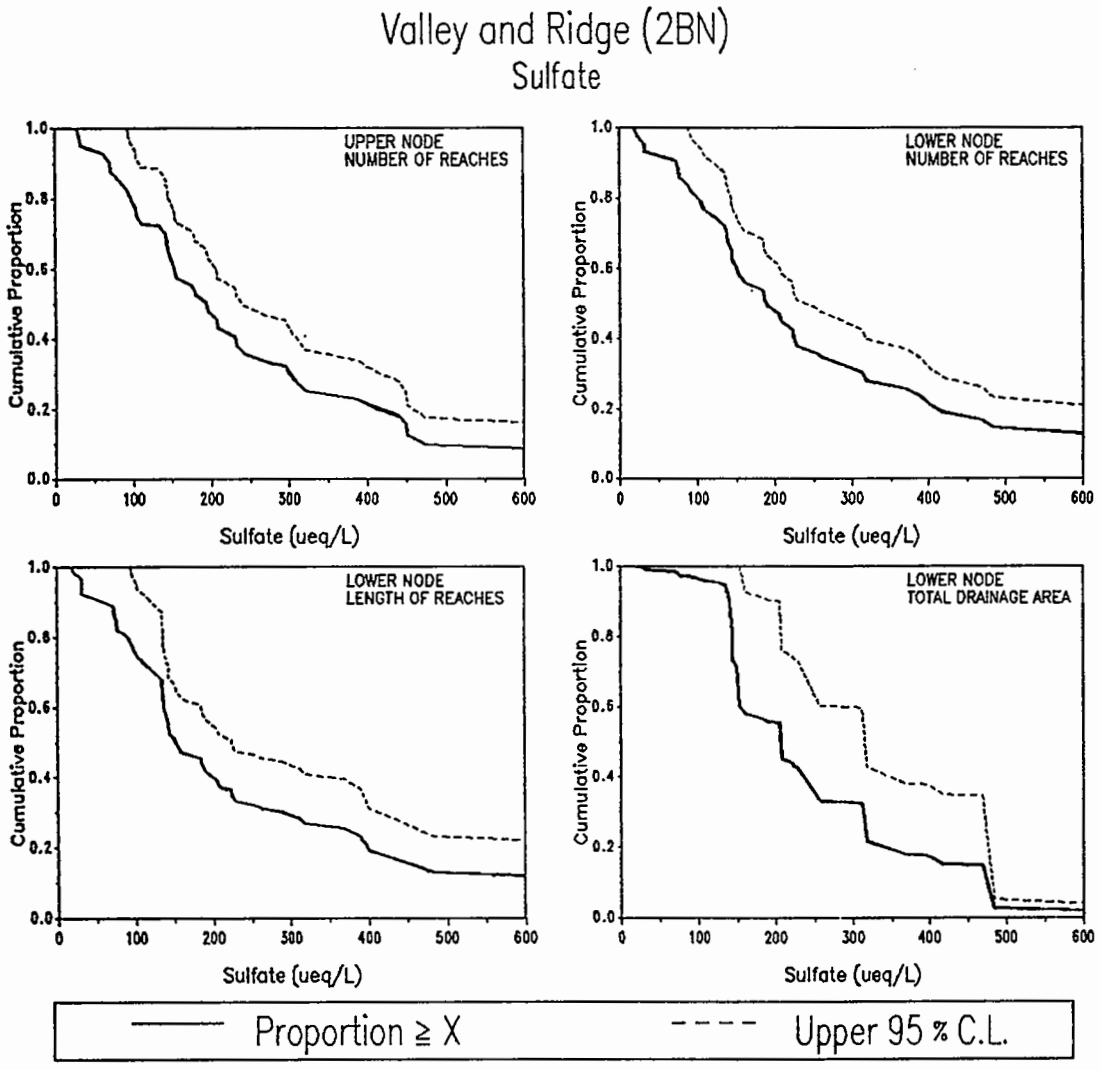
Figure 5-288. Population estimates for sulfate (SO416) for the Poconos/Catskills subregion (1D).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (ueq/L)	377.37	552.18	518.33	392.49
40 % (ueq/L)	242.35	270.64	304.63	228.73
MEDIAN(ueq/L)	208.86	219.99	251.47	224.25
60 % (ueq/L)	187.80	181.02	218.01	162.10
80 % (ueq/L)	135.02	138.76	158.71	137.37

SUMMARY STATISTICS (ueq/L)					
		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	72.56	2217.33	404.47	520.31
LOWER	61	74.12	2383.89	471.62	572.85

Figure 5-289. Population estimates for sulfate (SO416) for the Northern Appalachians subregion (2Cn).

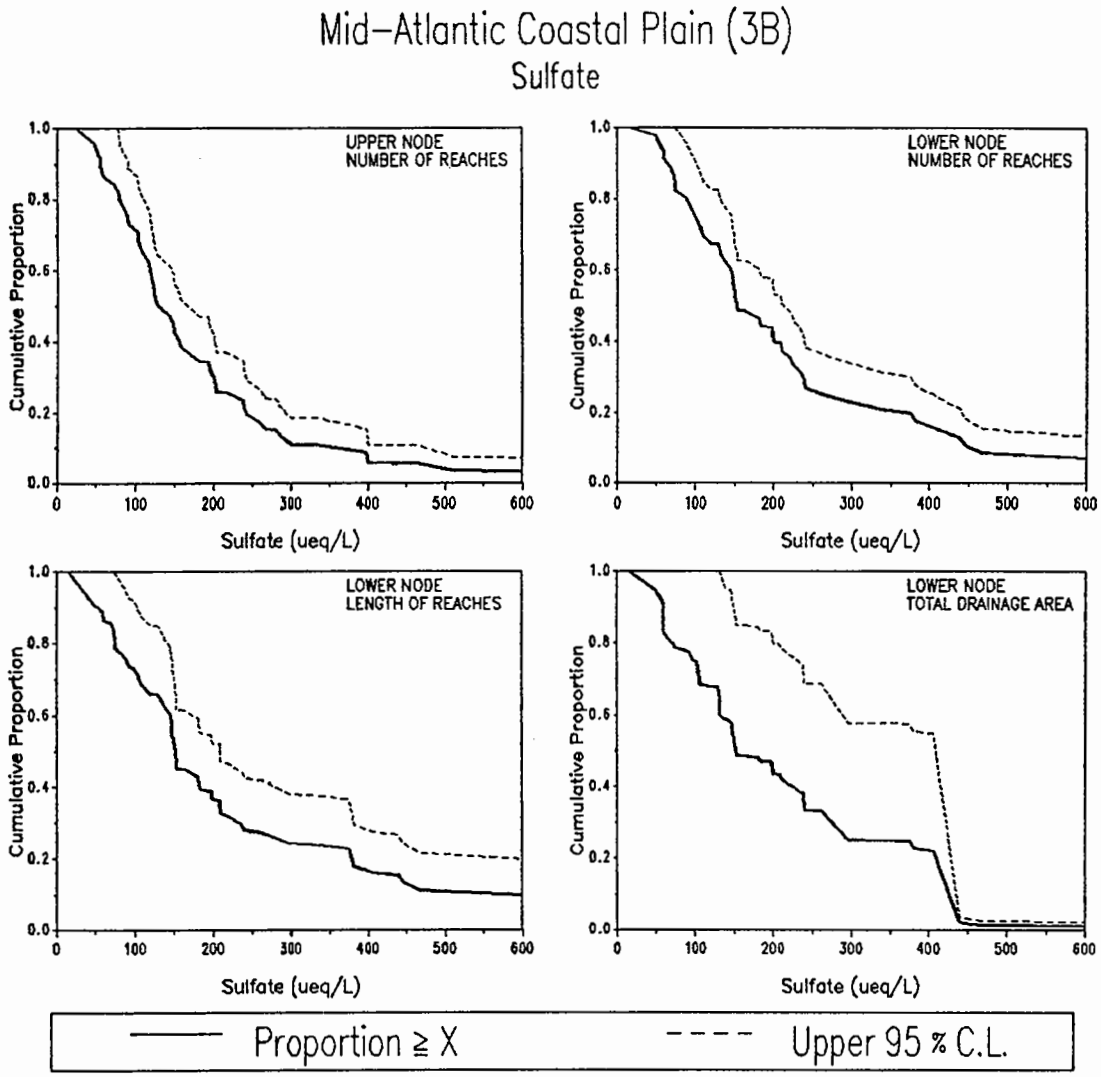


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (ueq/L)	388.96	395.44	384.19	314.92
40 % (ueq/L)	213.67	222.70	188.57	224.89
MEDIAN (ueq/L)	182.42	185.12	147.72	198.67
60 % (ueq/L)	149.26	145.18	135.21	149.83
80 % (ueq/L)	92.71	91.39	82.78	139.57

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	26.63	809.50	246.94	195.57
LOWER	47	18.03	1262.32	277.98	266.41

Figure 5-290. Population estimates for sulfate (SO416) for the Valley and Ridge subregion (2Bn).

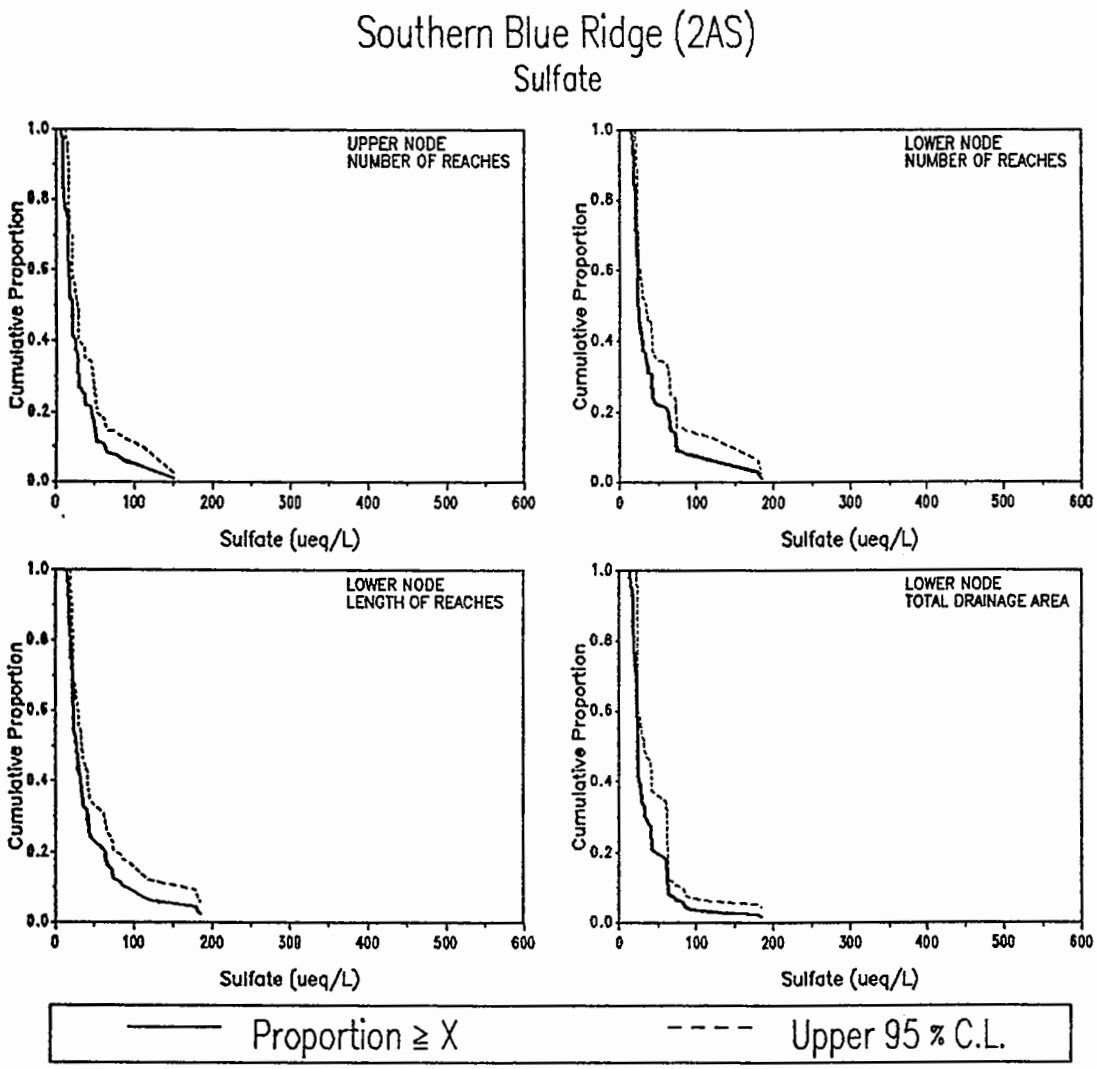


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (ueq/L)	237.86	328.80	358.19	384.39
40 % (ueq/L)	150.48	198.08	178.25	220.75
MEDIAN (ueq/L)	125.08	150.53	149.20	150.42
60 % (ueq/L)	116.32	139.15	138.05	130.92
80 % (ueq/L)	76.26	74.26	72.77	63.27

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	24.66	883.89	172.96	137.24
LOWER	58	14.79	760.15	216.97	171.87

Figure 5-291. Population estimates for sulfate (SO416) for the Mid-Atlantic Coastal Plain subregion (3B).



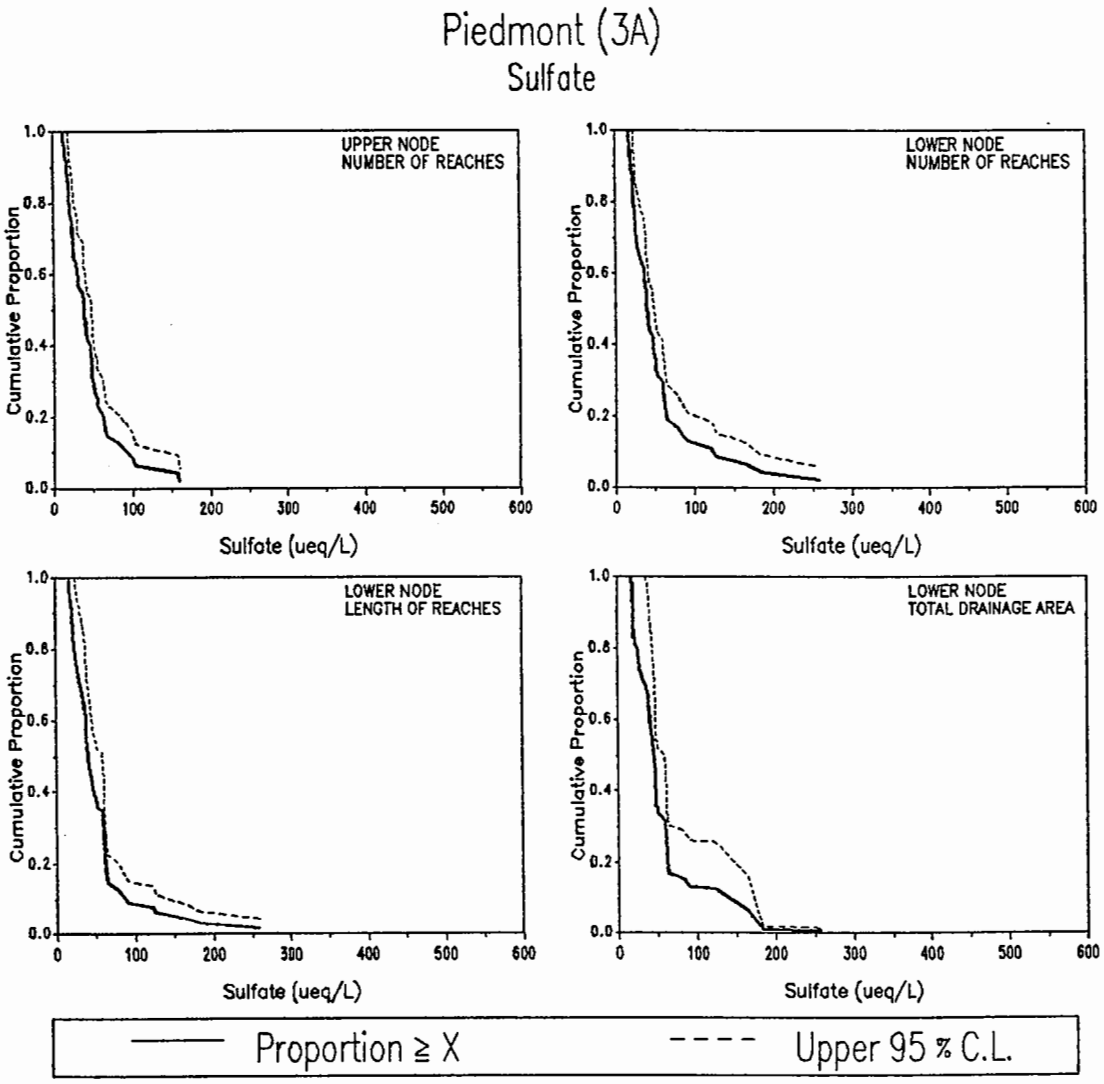
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (ueq/L)	44.35	59.35	59.75	43.57
40 % (ueq/L)	22.82	27.64	31.86	25.06
MEDIAN (ueq/L)	20.69	22.92	25.45	23.32
60 % (ueq/L)	15.38	22.38	22.69	22.53
80 % (ueq/L)	10.21	18.57	18.35	18.13

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	6.23	150.32	28.50	26.06
LOWER	54	12.87	184.43	39.09	34.22

Figure 5-292. Population estimates for sulfate (SO416) for the Southern Blue Ridge subregion (2As).

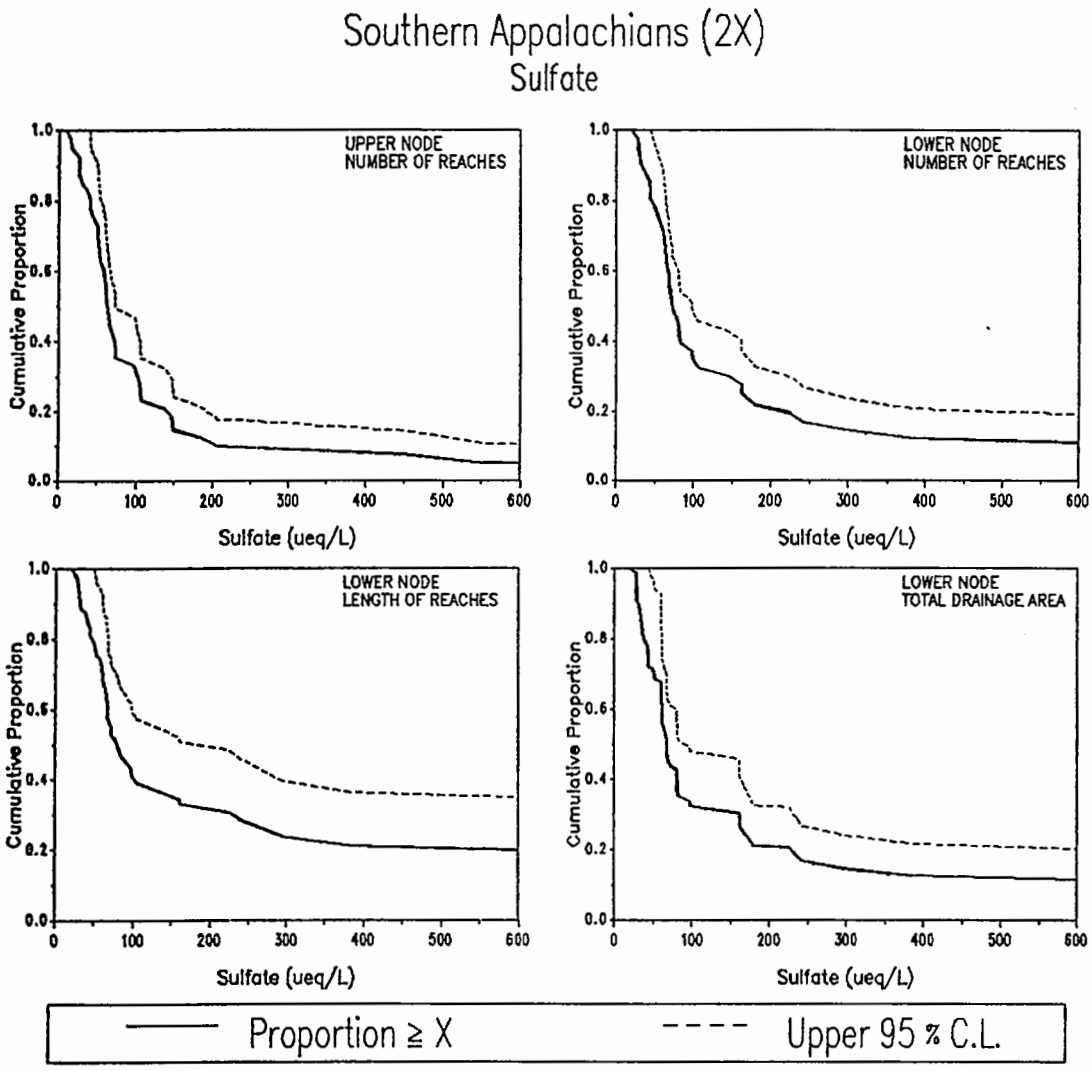


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (ueq/L)	57.74	61.65	60.47	60.35
40 % (ueq/L)	41.13	46.32	46.41	46.72
MEDIAN(ueq/L)	37.47	38.26	39.37	41.28
60 % (ueq/L)	29.30	34.73	36.68	38.59
80 % (ueq/L)	19.48	21.88	23.65	23.66

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	12.52	158.79	44.72	32.36
LOWER	47	16.93	257.52	53.27	46.76

Figure 5-293. Population estimates for sulfate (SO416) for the Piedmont subregion (3A).



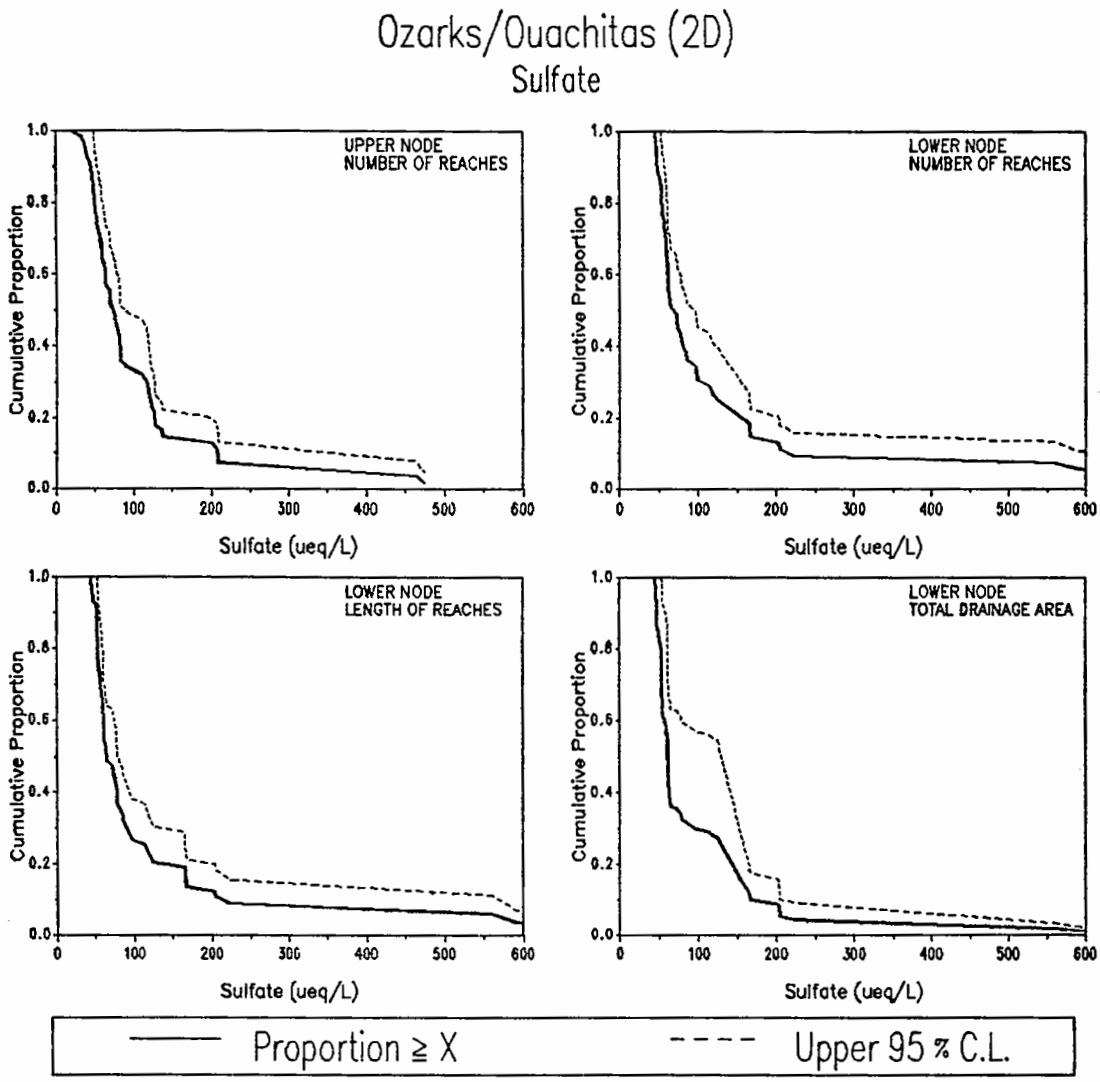
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (ueq/L)	116.42	173.38	331.83	186.76
40 % (ueq/L)	68.29	81.03	97.71	78.61
MEDIAN(ueq/L)	61.01	70.57	76.23	65.56
60 % (ueq/L)	54.76	63.31	65.81	58.70
80 % (ueq/L)	37.42	43.58	43.65	32.57

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	8.49	2644.14	155.95	408.44
LOWER	40	19.20	2852.34	244.04	519.41

Figure 5-294.Population estimates for sulfate (SO416) for the Southern Appalachians subregion (2X).



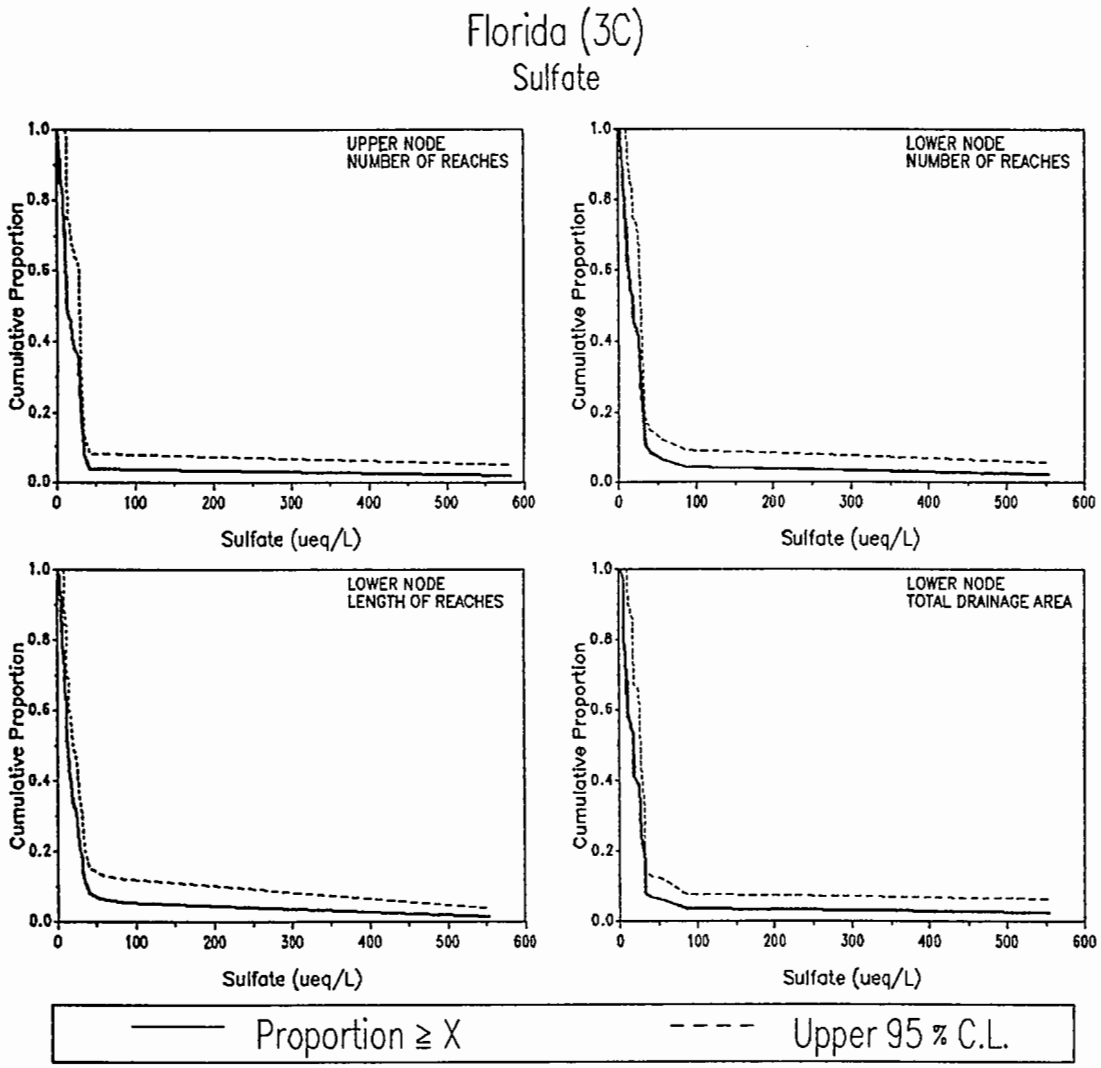
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (ueq/L)	123.60	122.68	119.60	120.87
40 % (ueq/L)	81.44	78.09	74.45	60.95
MEDIAN (ueq/L)	69.92	64.53	62.44	60.42
60 % (ueq/L)	62.19	60.49	59.54	56.53
80 % (ueq/L)	49.03	52.90	52.99	50.43

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	20.61	473.68	102.04	89.51
LOWER	48	44.97	801.57	127.07	160.44

Figure 5-295. Population estimates for sulfate (SO416) for the Ozarks/Ouachitas subregion (2D).



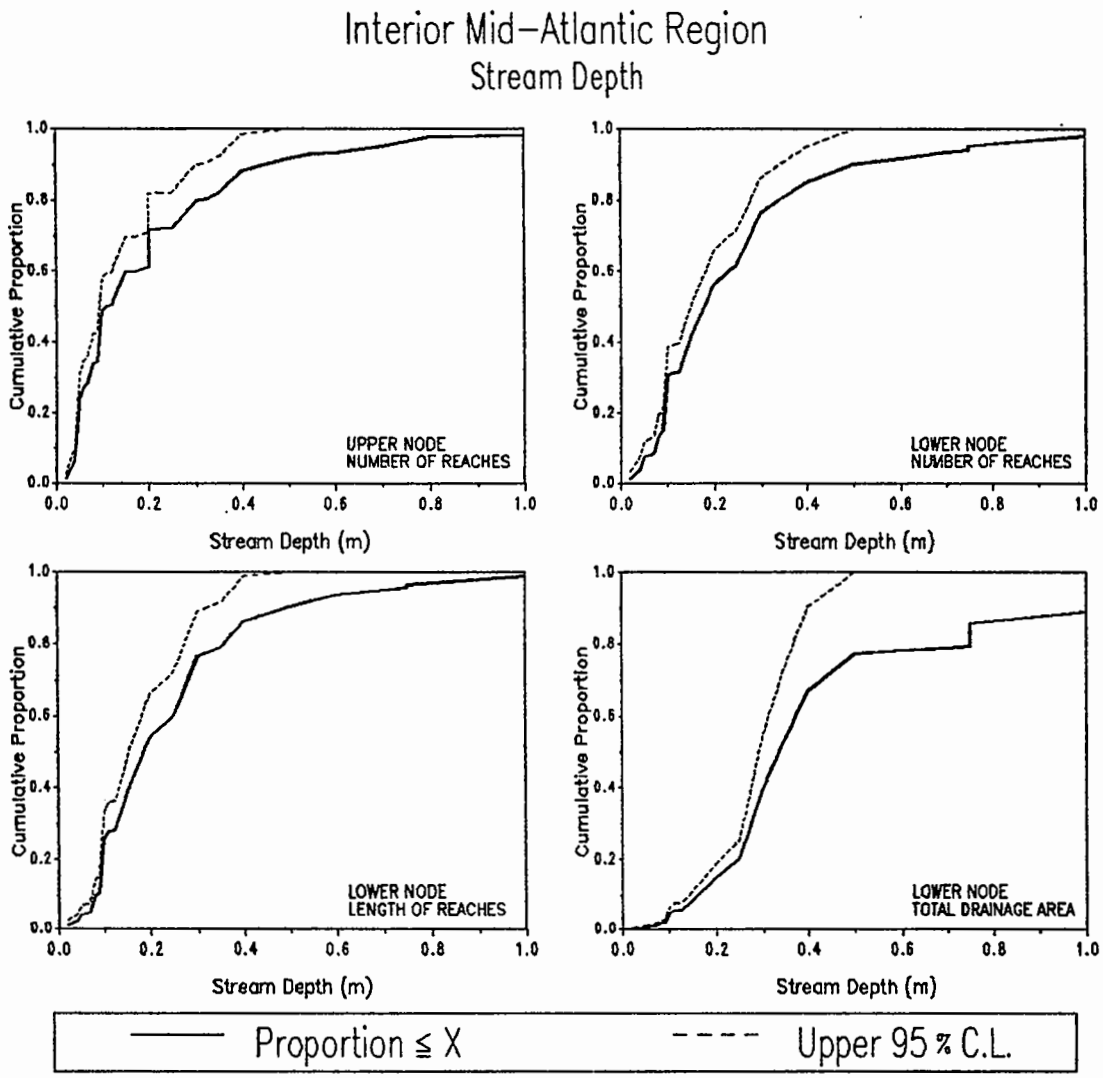
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (ueq/L)	27.52	26.52	26.30	26.48
40 % (ueq/L)	17.78	23.31	14.51	18.93
MEDIAN (ueq/L)	10.00	16.12	11.62	15.40
60 % (ueq/L)	9.70	11.34	10.56	10.70
80 % (ueq/L)	7.00	6.74	5.78	5.67

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	0.97	582.96	26.86	77.20
LOWER	34	1.98	553.81	30.19	77.35

Figure 5-296.Population estimates for sulfate (SO416) for Florida subregion (3C).

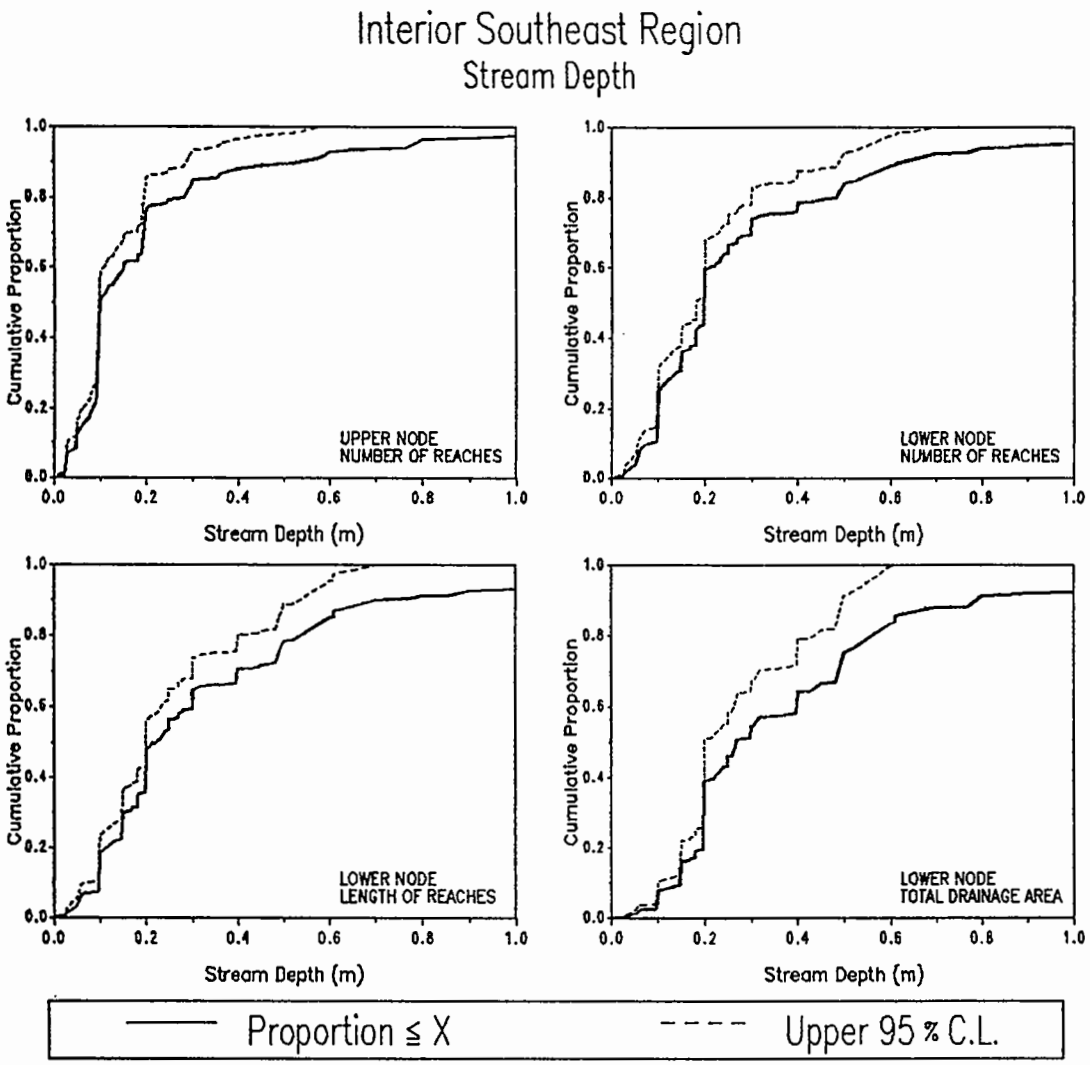


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (m)	0.05	0.09	0.10	0.25
40 % (m)	0.09	0.15	0.15	0.30
MEDIAN (m)	0.11	0.18	0.19	0.34
60 % (m)	0.17	0.23	0.25	0.37
80 % (m)	0.31	0.34	0.36	0.75

SUMMARY STATISTICS (m)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	0.02	1.50	0.22	0.26
LOWER	164	0.02	2.50	0.29	0.31

Figure 5-297. Population estimates for stream depth (STRMDP) for the Mid-Atlantic Region.



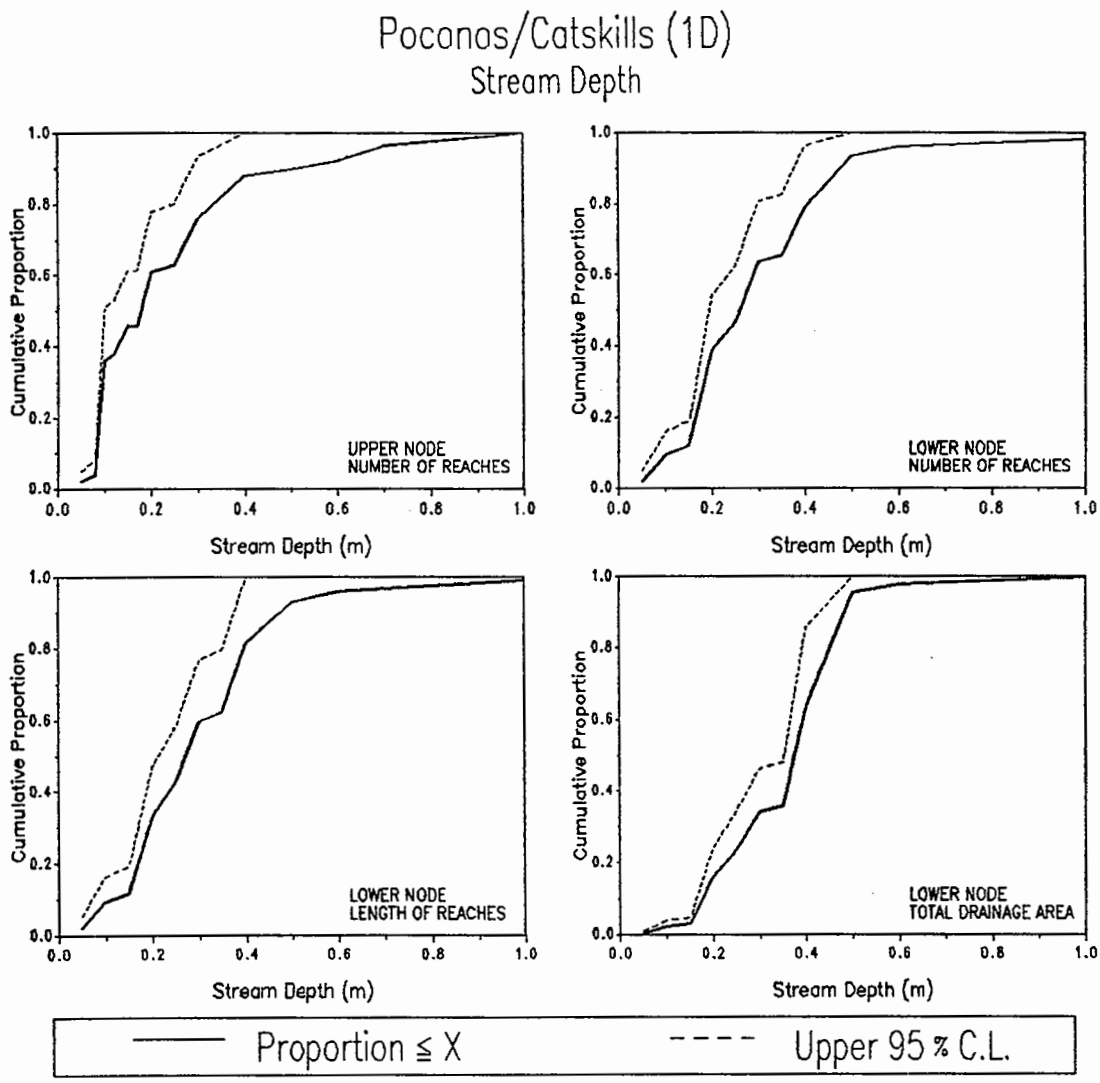
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (m)	0.08	0.10	0.11	0.20
40 % (m)	0.10	0.18	0.20	0.22
MEDIAN (m)	0.10	0.20	0.22	0.27
60 % (m)	0.15	0.21	0.30	0.40
80 % (m)	0.28	0.48	0.54	0.56

SUMMARY STATISTICS (m)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	0.01	1.70	0.22	0.28
LOWER	189	0.01	4.10	0.33	0.48

Figure 5-298. Population estimates for stream depth (STRMDP) for the Southeastern Region.



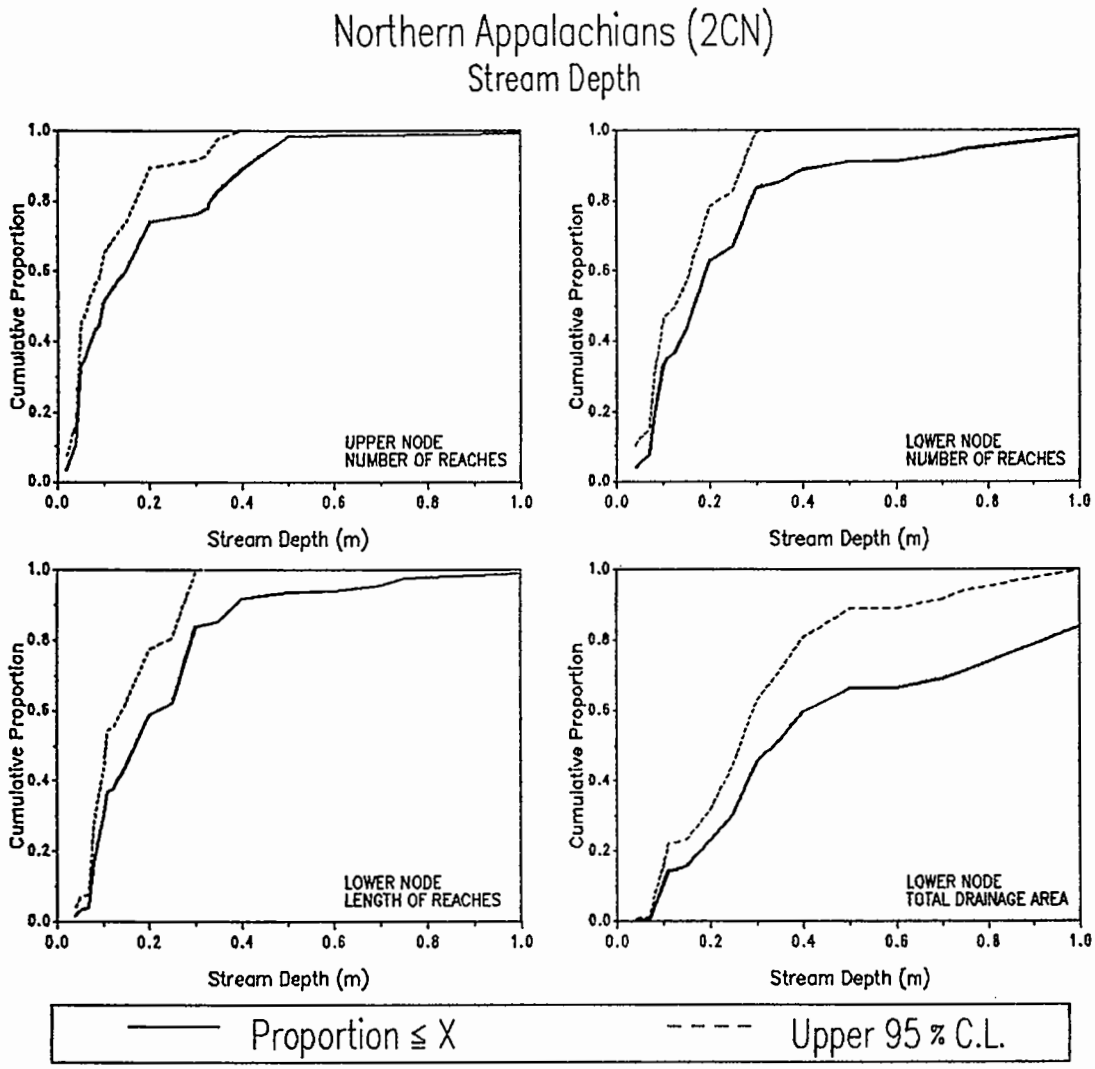
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (m)	0.09	0.17	0.17	0.23
40 % (m)	0.13	0.21	0.24	0.36
MEDIAN (m)	0.18	0.26	0.27	0.38
60 % (m)	0.20	0.29	0.31	0.39
80 % (m)	0.33	0.41	0.40	0.45

SUMMARY STATISTICS (m)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	0.05	1.00	0.26	0.22
LOWER	56	0.05	2.50	0.35	0.34

Figure 5-299. Population estimates for stream depth (STRMDP) for the Poconos/Catskills subregion (1D).



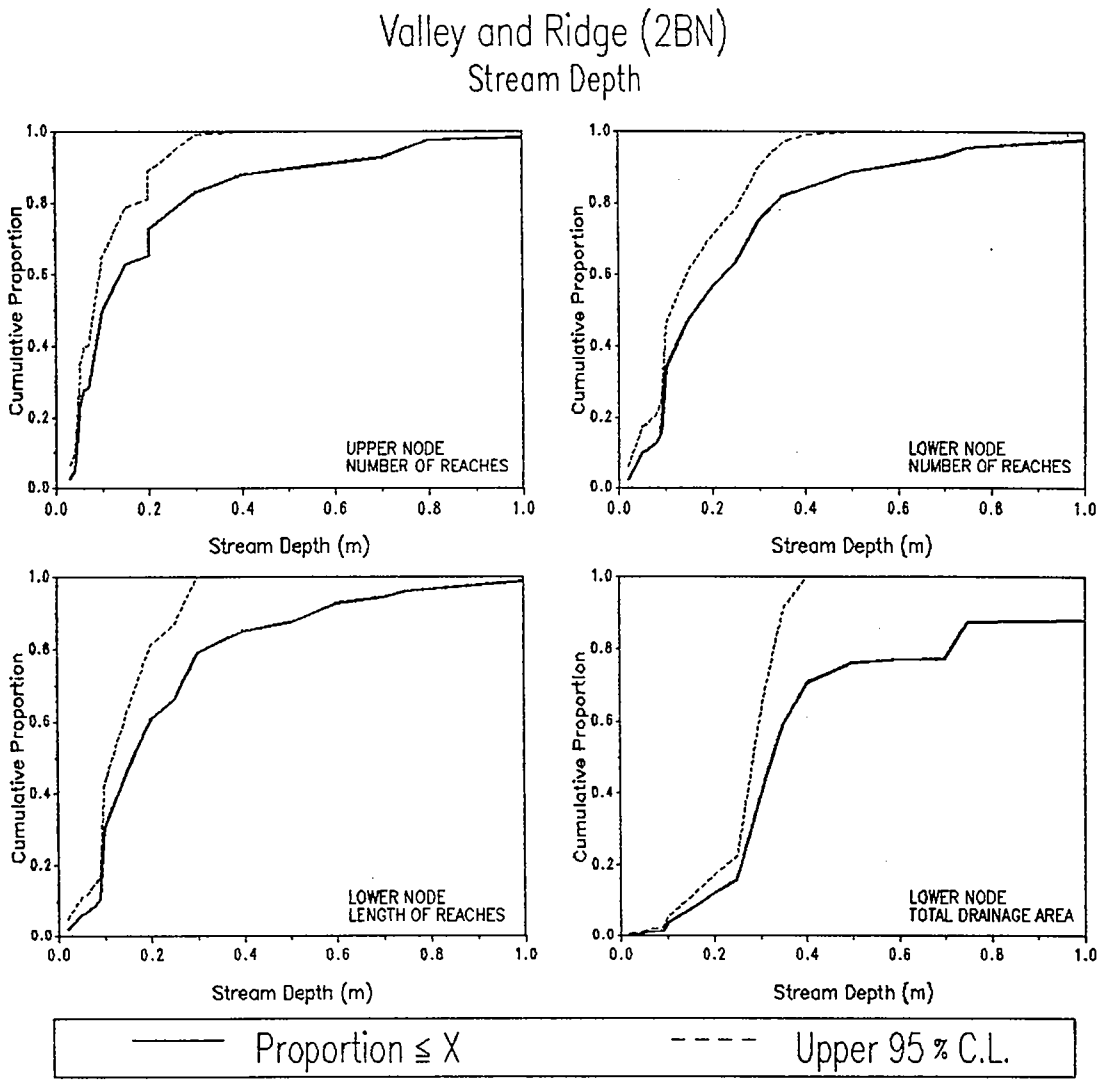
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (m)	0.04	0.08	0.09	0.18
40 % (m)	0.07	0.14	0.13	0.28
MEDIAN (m)	0.10	0.17	0.17	0.34
60 % (m)	0.15	0.19	0.22	0.41
80 % (m)	0.33	0.29	0.29	0.93

SUMMARY STATISTICS (m)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	0.02	1.50	0.20	0.23
LOWER	61	0.04	1.20	0.25	0.24

Figure 5-300. Population estimates for stream depth (STRMDP) for the Northern Appalachians subregion (2Cn).



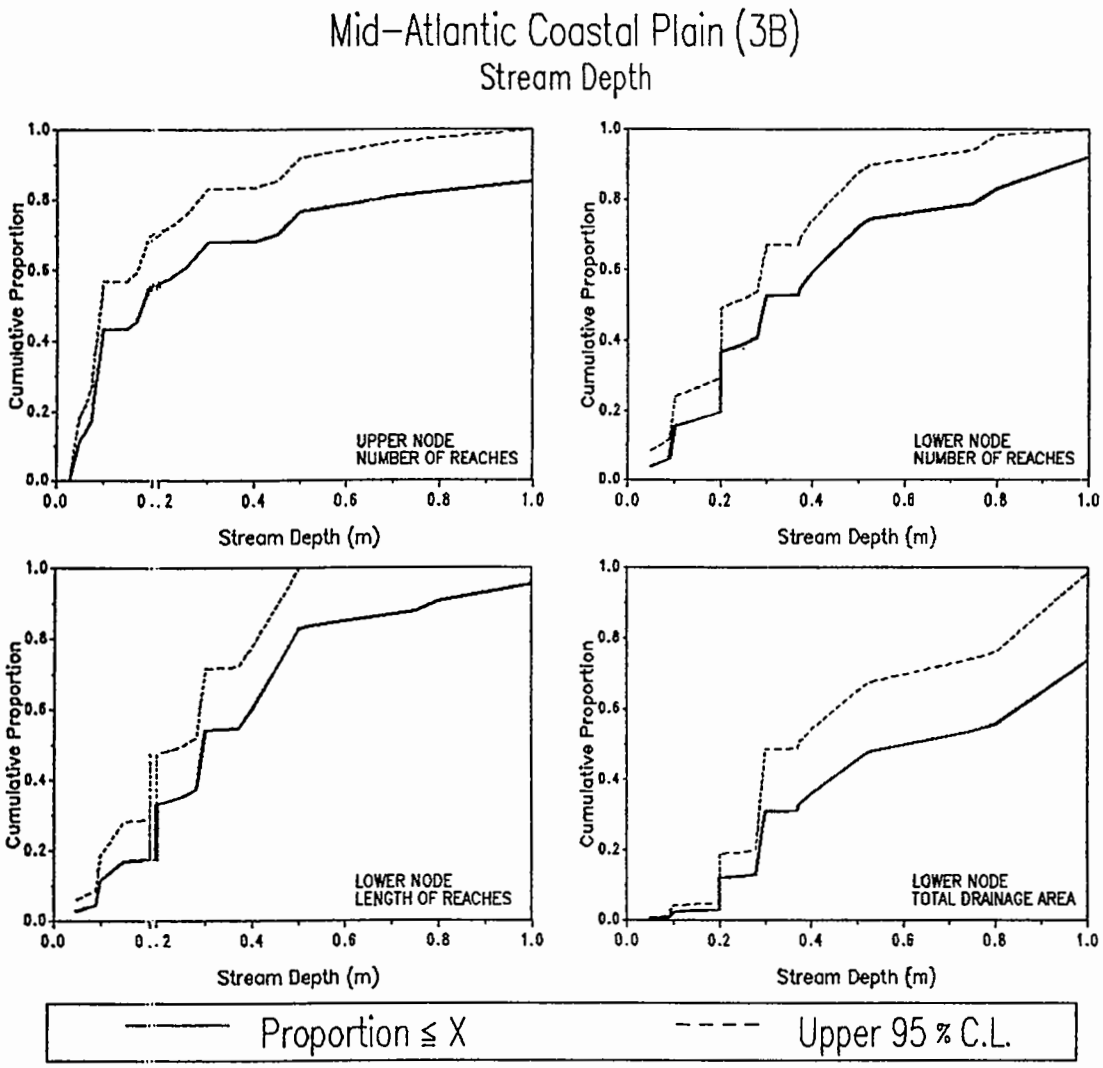
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (m)	0.05	0.09	0.09	0.26
40 % (m)	0.09	0.12	0.13	0.30
MEDIAN (m)	0.10	0.16	0.16	0.33
60 % (m)	0.14	0.23	0.20	0.35
80 % (m)	0.27	0.34	0.32	0.71

SUMMARY STATISTICS (m)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	0.03	1.50	0.23	0.28
LOWER	47	0.02	2.00	0.29	0.33

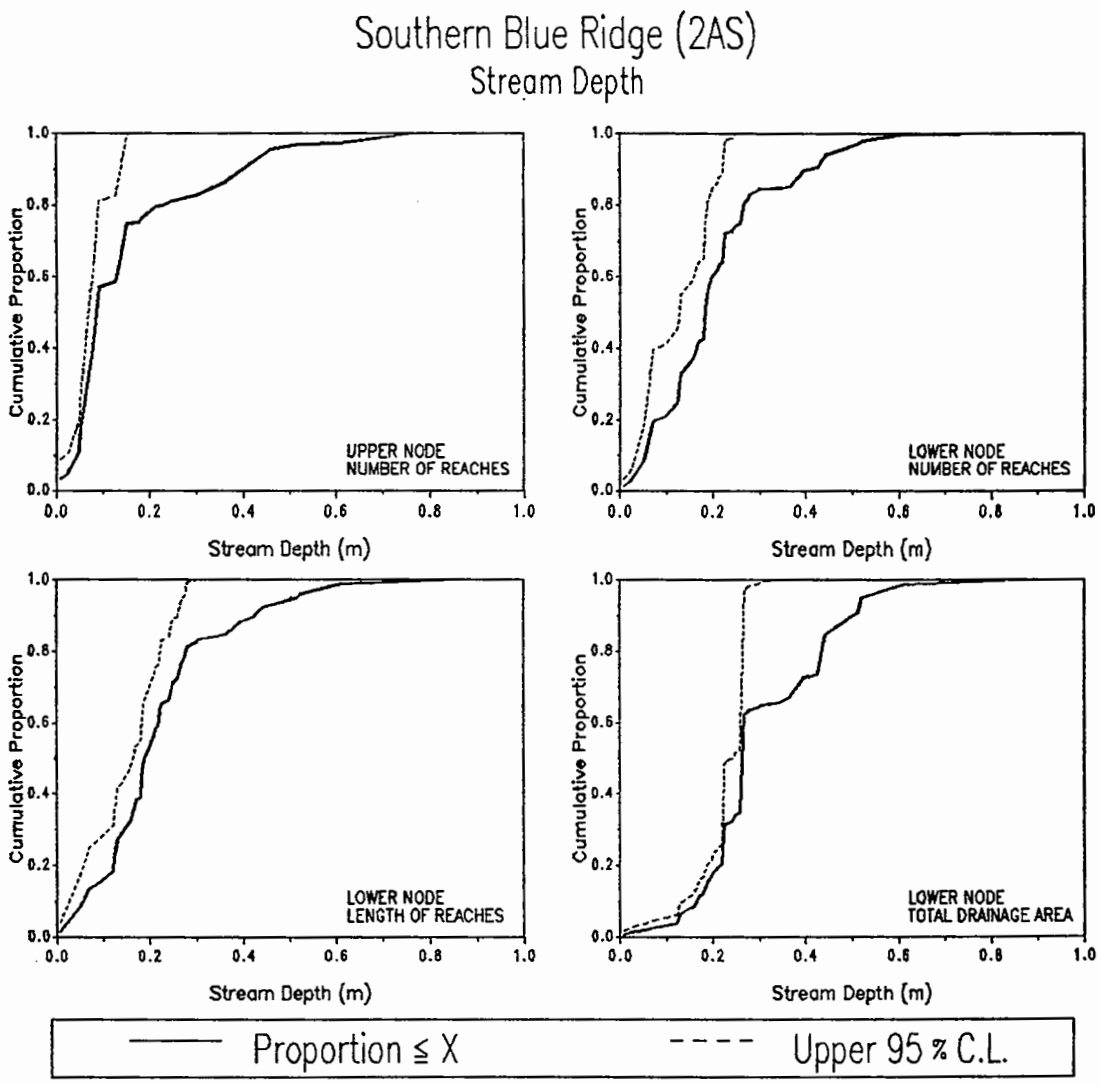
Figure 5-301. Population estimates for stream depth (STRMDP) for the Valley and Ridge subregion (2Bn).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERRO R	1078	1078	5788	50273
20 % (m)	0.08	0.20	0.20	0.29
40 % (m)	0.10	0.27	0.28	0.44
MEDIAN (m)	0.18	0.30	0.30	0.61
60 % (m)	0.24	0.40	0.40	0.85
80 % (m)	0.66	0.77	0.49	1.61

SUMMARY STATISTICS (m)					
	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	0.03	5.00	0.57	0.99
LOWER	58	0.05	4.00	0.55	0.65

Figure 5-302. Population estimates for stream depth (STRMDP) for the Mid-Atlantic Coastal Plain subregion (3B).

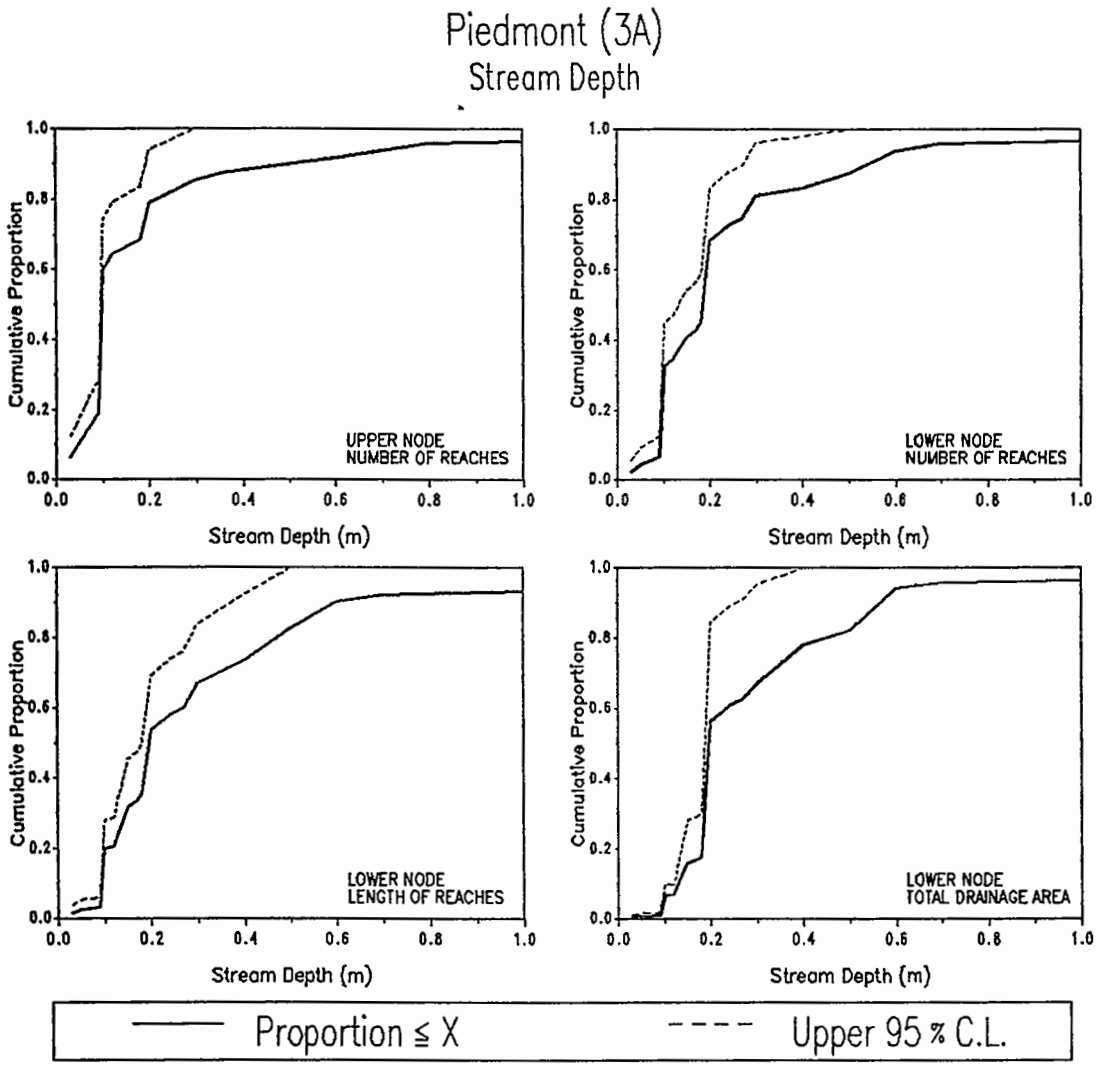


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (m)	0.05	0.08	0.12	0.22
40 % (m)	0.08	0.16	0.18	0.26
MEDIAN (m)	0.09	0.18	0.19	0.26
60 % (m)	0.13	0.20	0.22	0.27
80 % (m)	0.23	0.27	0.28	0.44

SUMMARY STATISTICS (m)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	0.01	0.76	0.17	0.17
LOWER	54	0.01	0.85	0.21	0.13

Figure 5-303. Population estimates for stream depth (STRMDP) for the Southern Blue Ridge subregion (2As).

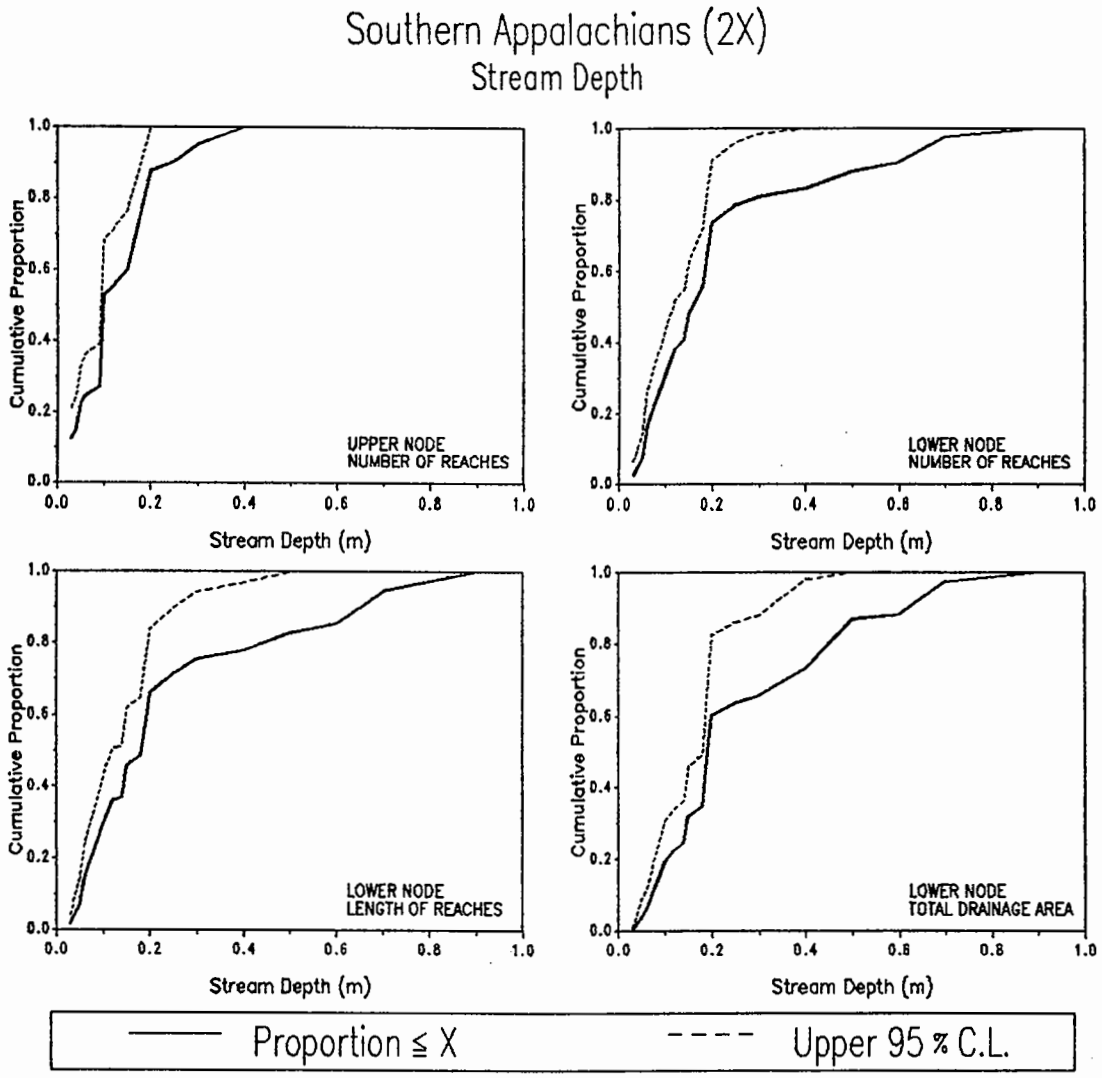


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (m)	0.09	0.10	0.10	0.18
40 % (m)	0.10	0.15	0.19	0.19
MEDIAN (m)	0.10	0.18	0.20	0.20
60 % (m)	0.10	0.19	0.27	0.24
80 % (m)	0.22	0.29	0.47	0.45

SUMMARY STATISTICS (m)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	0.03	1.60	0.24	0.33
LOWER	47	0.03	4.10	0.33	0.60

Figure 5-304.Population estimates for stream depth (STRMDP) for the Piedmont subregion (3A).



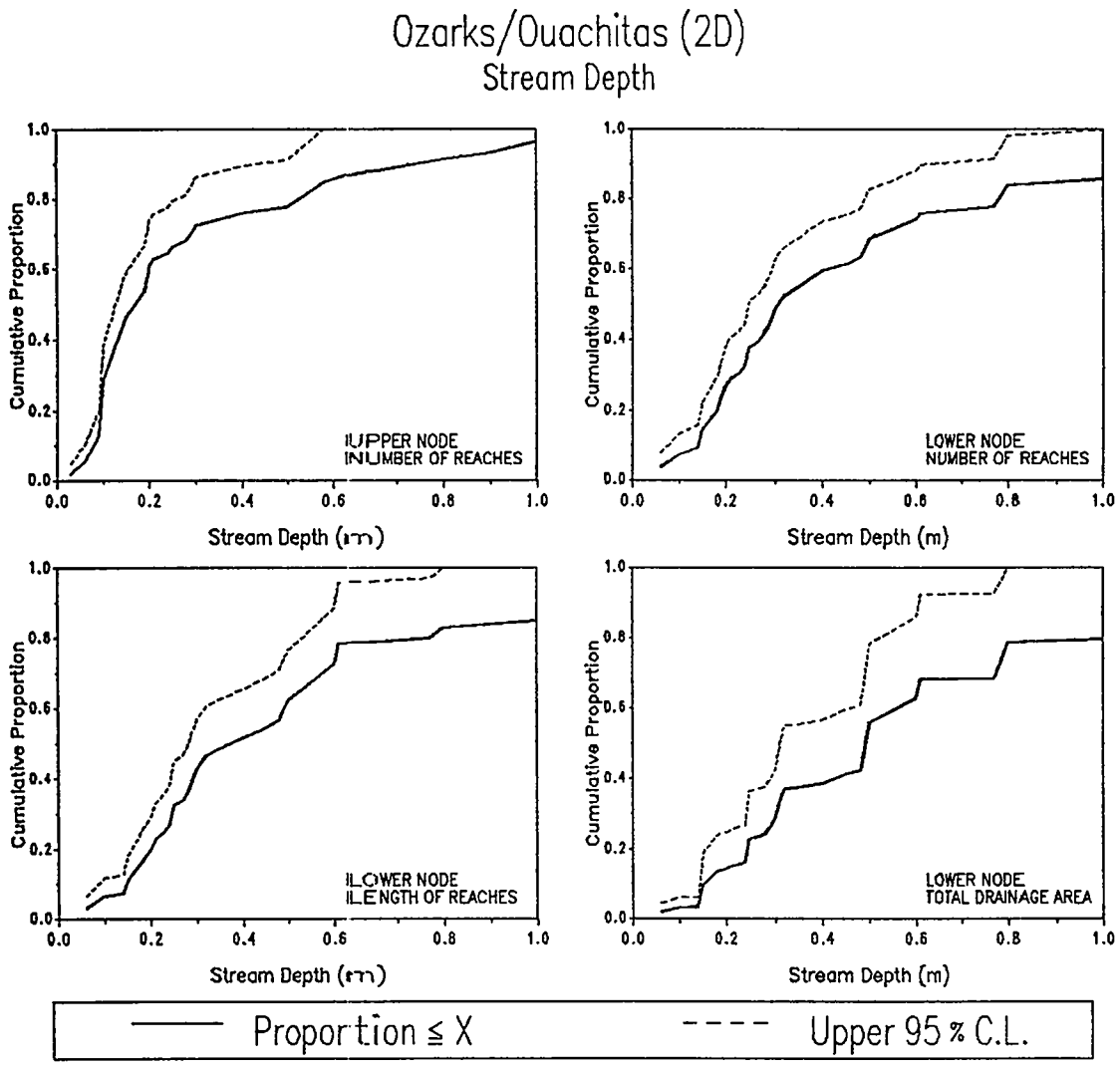
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (m)	0.05	0.07	0.07	0.10
40 % (m)	0.10	0.13	0.14	0.18
MEDIAN (m)	0.10	0.16	0.18	0.19
60 % (m)	0.15	0.18	0.19	0.20
80 % (m)	0.19	0.28	0.44	0.45

SUMMARY STATISTICS (m)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	0.03	0.40	0.14	0.09
LOWER	40	0.03	0.90	0.23	0.21

Figure 5-305. Population estimates for stream depth (STRMDP) for the Southern Appalachians subregion (2X).



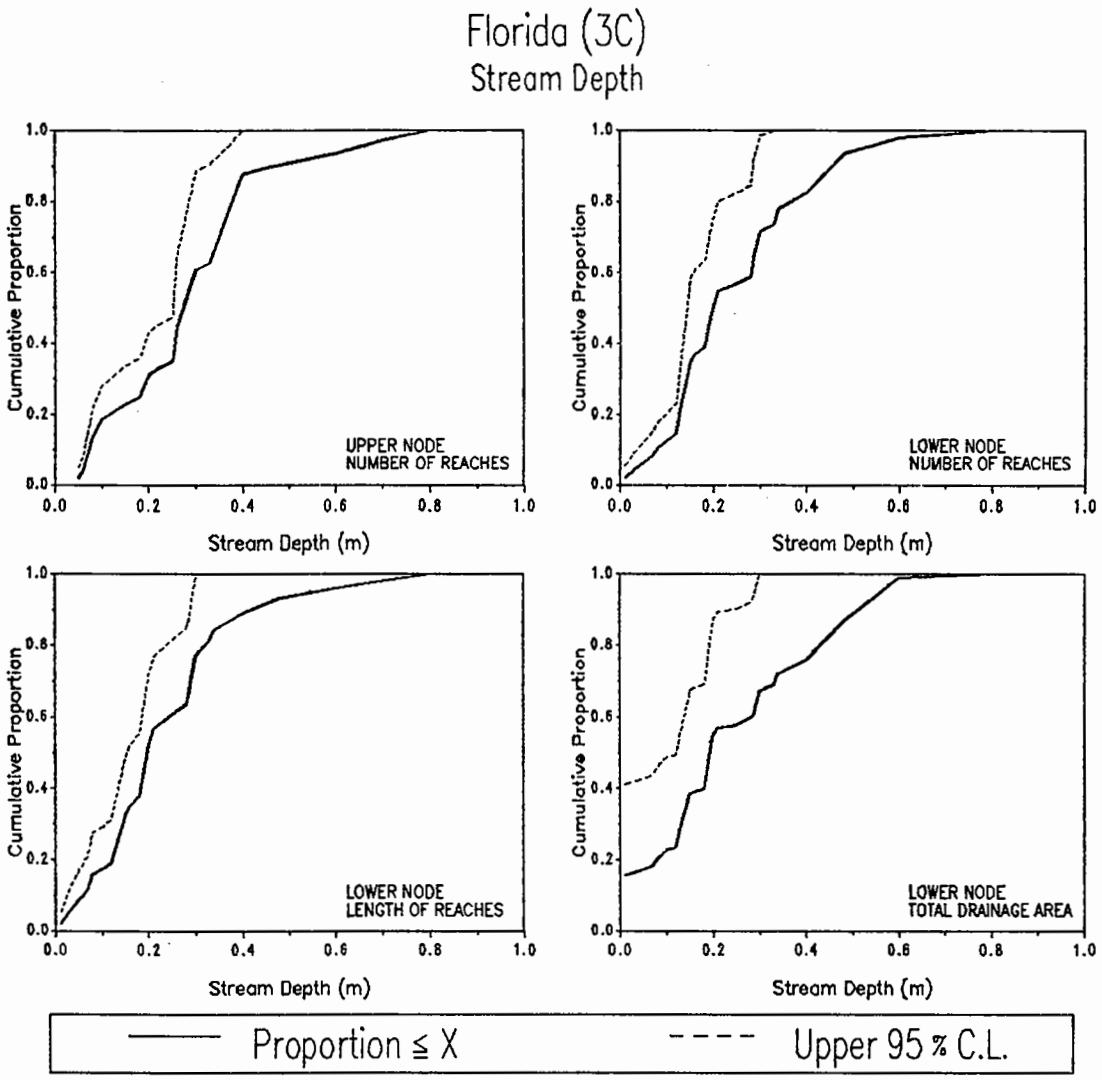
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (m)	0.09	0.18	0.20	0.25
40 % (m)	0.13	0.27	0.29	0.42
MEDIAN (m)	0.17	0.31	0.37	0.49
60 % (m)	0.20	0.41	0.49	0.56
80 % (m)	0.53	0.78	0.77	1.00

SUMMARY STATISTICS (m)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	0.03	1.70	0.32	0.33
LOWER	48	0.06	2.50	0.53	0.50

Figure 5-306. Population estimates for stream depth (STRMDP) for the Ozarks/Ouachitas subregion (2D).

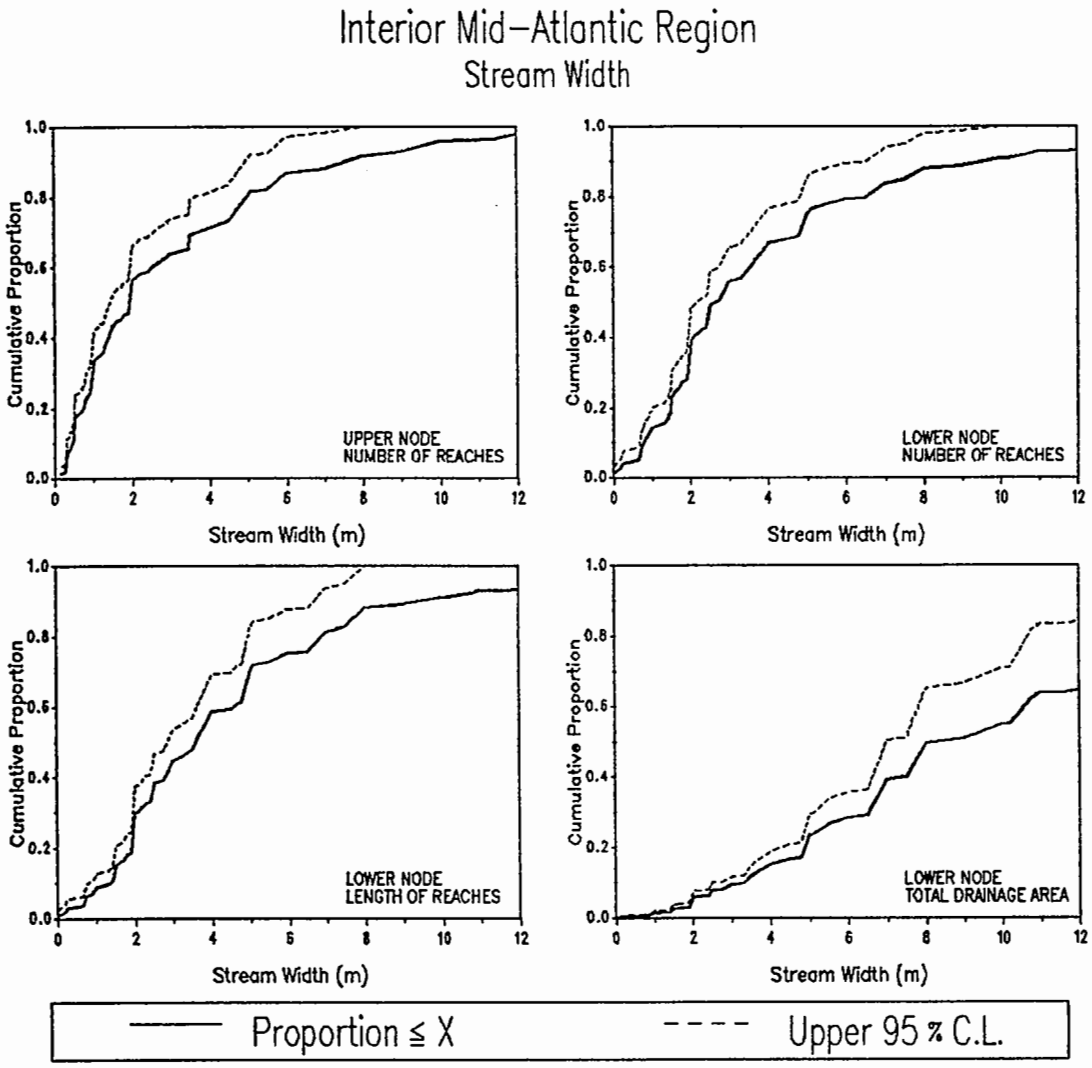


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (m)	0.12	0.13	0.12	0.08
40 % (m)	0.26	0.18	0.18	0.18
MEDIAN (m)	0.27	0.20	0.20	0.19
60 % (m)	0.30	0.28	0.24	0.28
80 % (m)	0.38	0.37	0.32	0.43

SUMMARY STATISTICS (m)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	0.05	0.80	0.31	0.17
LOWER	34	0.01	0.80	0.26	0.16

Figure 5-307. Population estimates for stream depth (STRMDP) for Florida subregion (3C).



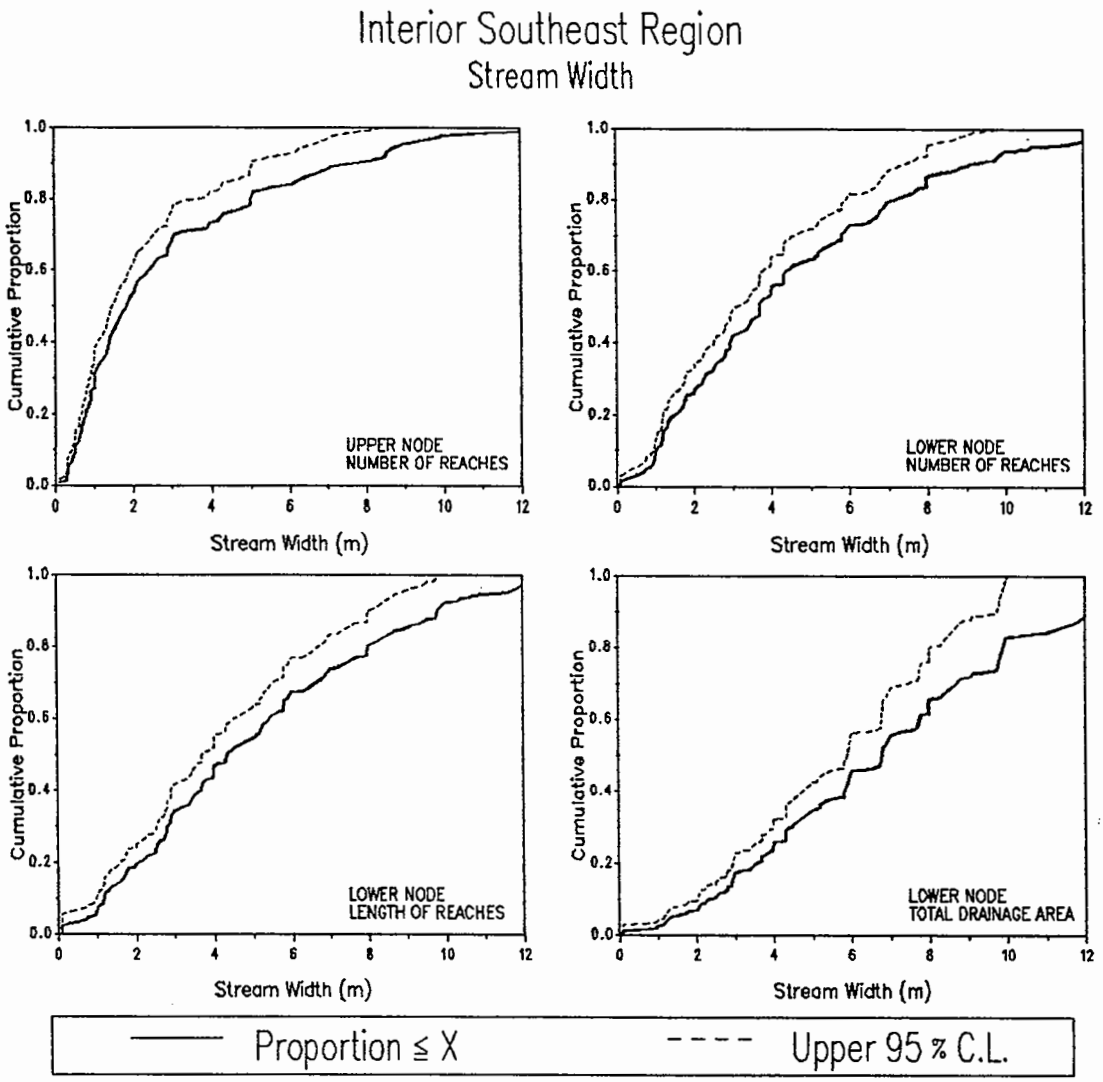
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (m)	0.73	1.48	1.91	4.88
40 % (m)	1.37	2.06	2.77	7.50
MEDIAN (m)	1.93	2.64	3.59	8.31
60 % (m)	2.50	3.52	4.59	10.59
80 % (m)	4.97	6.55	6.89	16.23

SUMMARY STATISTICS (m)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	0.16	25.00	3.35	3.77
LOWER	164	0.03	30.00	4.45	4.67

Figure 5-308. Population estimates for stream width (STRMWD) for the Mid-Atlantic Region.



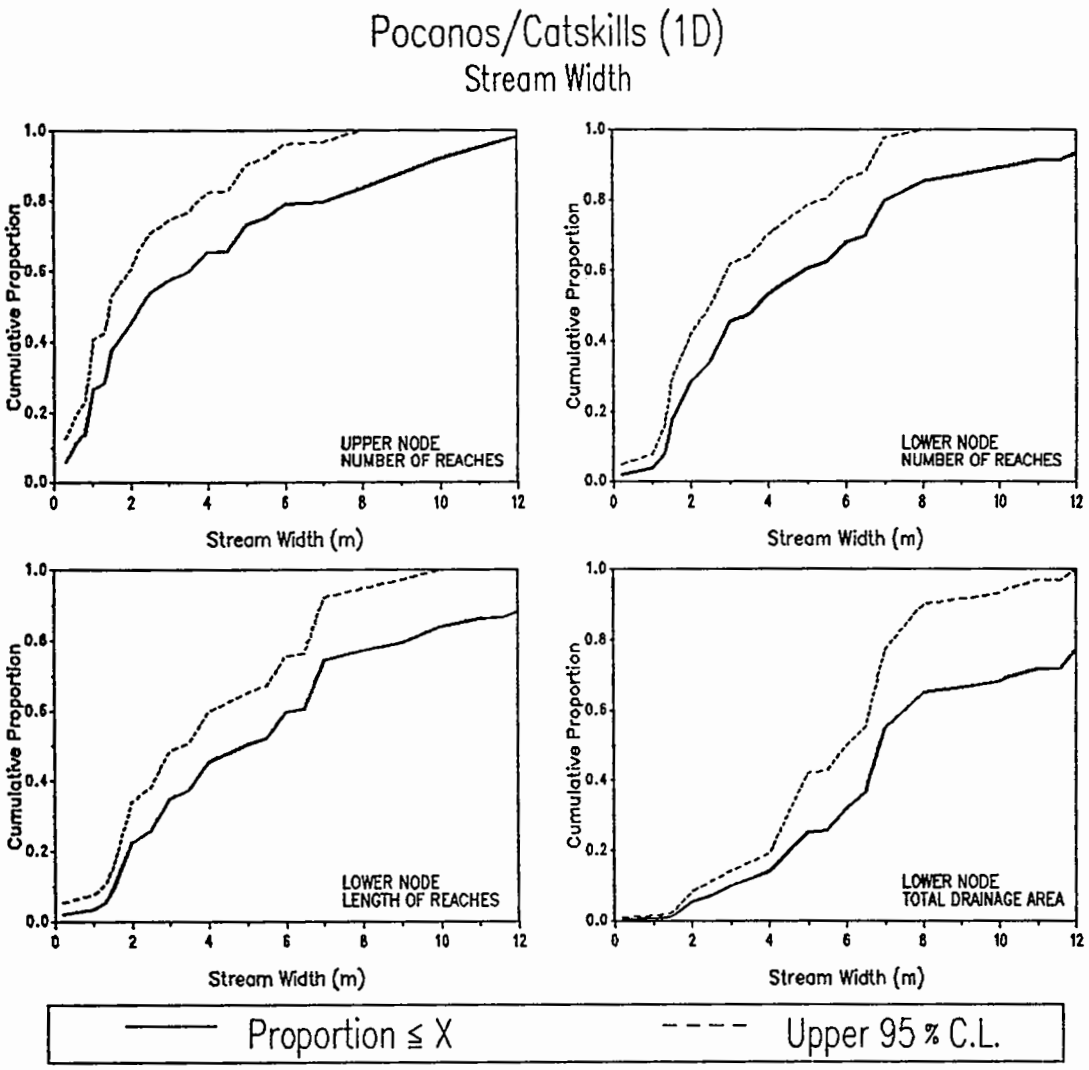
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (m)	0.79	1.49	2.07	3.53
40 % (m)	1.38	2.91	3.69	5.81
MEDIAN (m)	1.84	3.70	4.36	6.77
60 % (m)	2.42	4.37	5.45	7.76
80 % (m)	5.02	7.13	8.00	9.91

SUMMARY STATISTICS (m)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	0.09	39.99	3.12	3.53
LOWER	189	0.09	20.85	4.57	3.37

Figure 5-309. Population estimates for stream width (STRMWD) for the Southeastern Region.



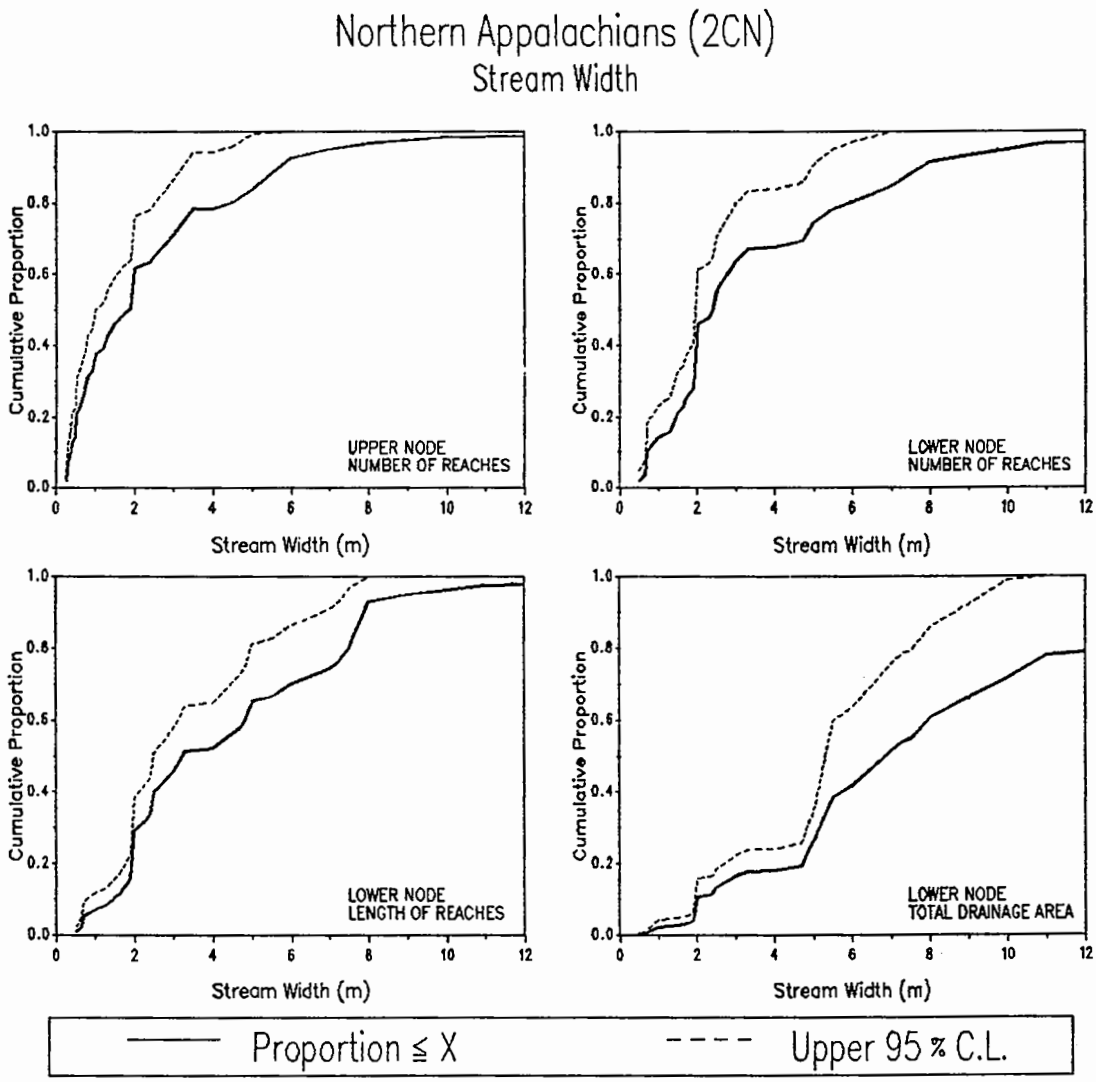
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (m)	0.90	1.61	1.91	4.54
40 % (m)	1.64	2.76	3.67	6.59
MEDIAN (m)	2.25	3.71	4.96	6.87
60 % (m)	3.52	4.93	6.22	7.51
80 % (m)	7.13	7.07	9.14	13.71

SUMMARY STATISTICS (m)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	0.30	25.00	4.24	4.45
LOWER	56	0.20	25.00	5.53	5.08

Figure 5-310. Population estimates for stream width (STRMWD) for the Poconos/Catskills subregion (1D).



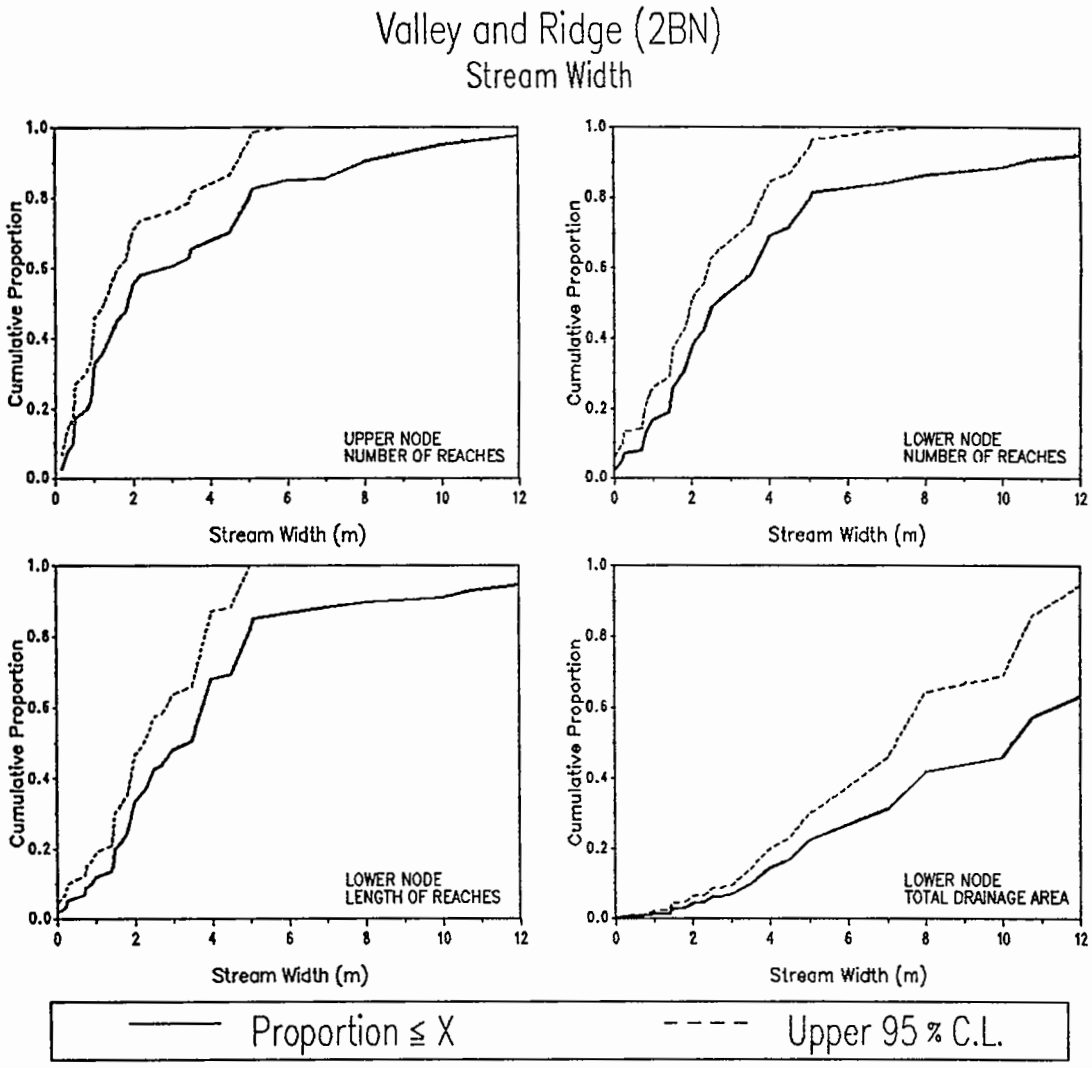
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (m)	0.50	1.46	1.93	4.73
40 % (m)	1.23	1.97	2.51	5.73
MEDIAN (m)	1.85	2.41	3.23	6.86
60 % (m)	1.98	2.78	4.82	7.94
80 % (m)	4.46	5.93	7.50	13.52

SUMMARY STATISTICS (m)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	0.25	20.00	2.75	3.17
LOWER	61	0.50	30.00	4.13	4.65

Figure 5-311. Population estimates for stream width (STRMWD) for the Northern Appalachians subregion (2Cn).

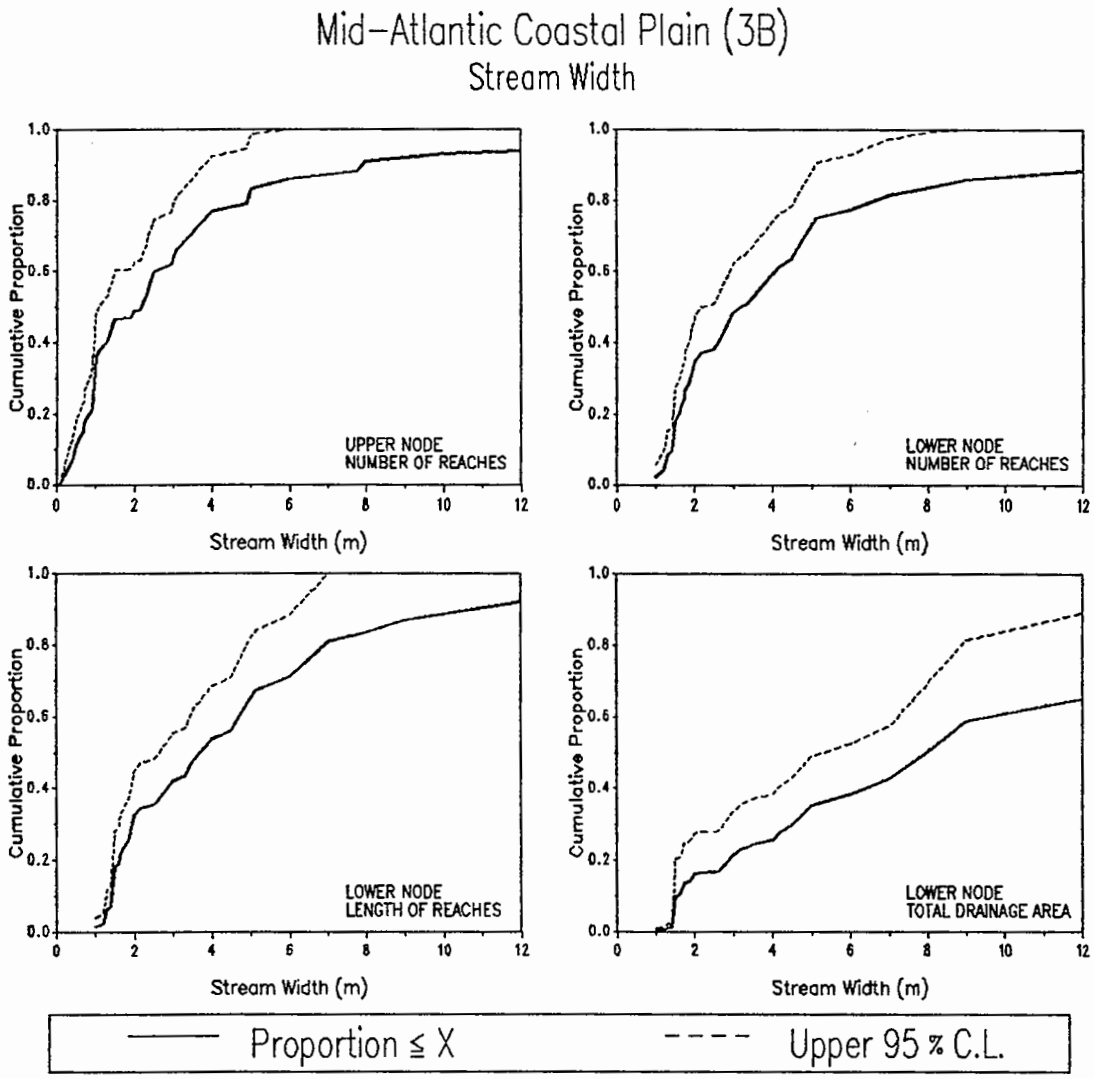


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (m)	0.81	1.41	1.49	4.78
40 % (m)	1.39	2.12	2.40	7.82
MEDIAN (m)	1.86	2.60	3.39	10.28
60 % (m)	2.82	3.59	3.77	11.34
80 % (m)	5.00	5.04	4.92	15.43

SUMMARY STATISTICS (m)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	0.16	20.00	3.52	3.90
LOWER	47	0.03	20.00	4.39	4.54

Figure 5-312. Population estimates for stream width (STRMWD) for the Valley and Ridge subregion (2Bn).



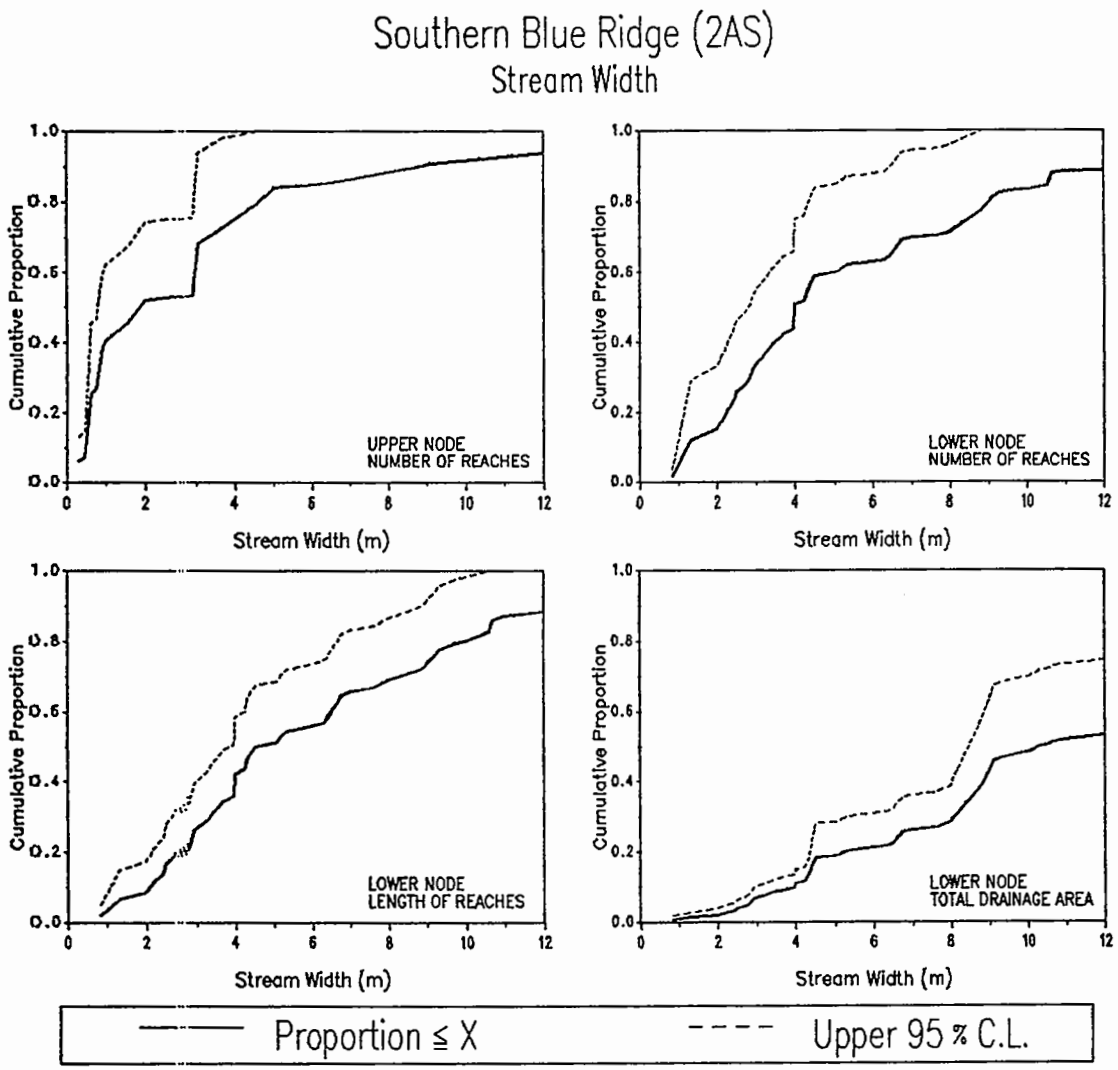
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (m)	0.83	1.59	1.61	2.87
40 % (m)	1.28	2.58	2.85	6.39
MEDIAN (m)	2.18	3.17	3.70	7.94
60 % (m)	2.54	4.05	4.71	9.57
80 % (m)	4.93	6.62	6.91	31.01

SUMMARY STATISTICS (m)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	0.10	35.00	4.15	6.47
LOWER	58	1.00	75.00	7.51	12.82

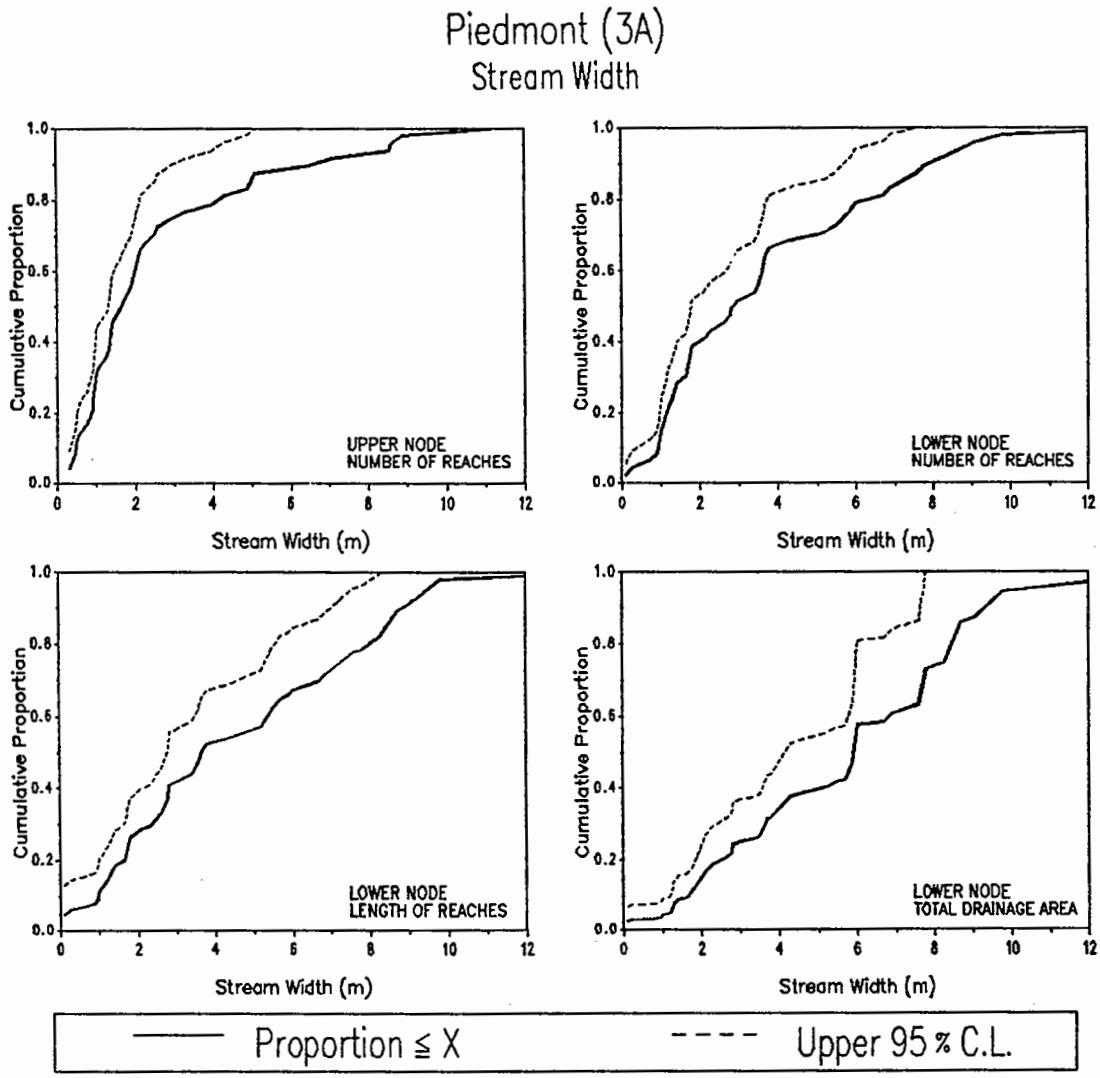
Figure 5-313. Population estimates for stream width (STRMWD) for the Mid-Atlantic Coastal Plain subregion (3B).



	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (m)	0.56	2.25	2.74	5.28
40 % (m)	0.97	3.48	3.98	8.88
MEDIAN (m)	1.86	3.99	4.54	10.35
60 % (m)	2.96	5.08	6.51	12.38
80 % (m)	4.63	9.06	9.90	15.90

SUMMARY STATISTICS (m)					
	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	0.30	39.99	4.19	6.94
LOWER	54	0.84	20.85	5.89	4.53

Figure 5-314.Population estimates for stream width (STRMWD) for the Southern Blue Ridge subregion (2As).



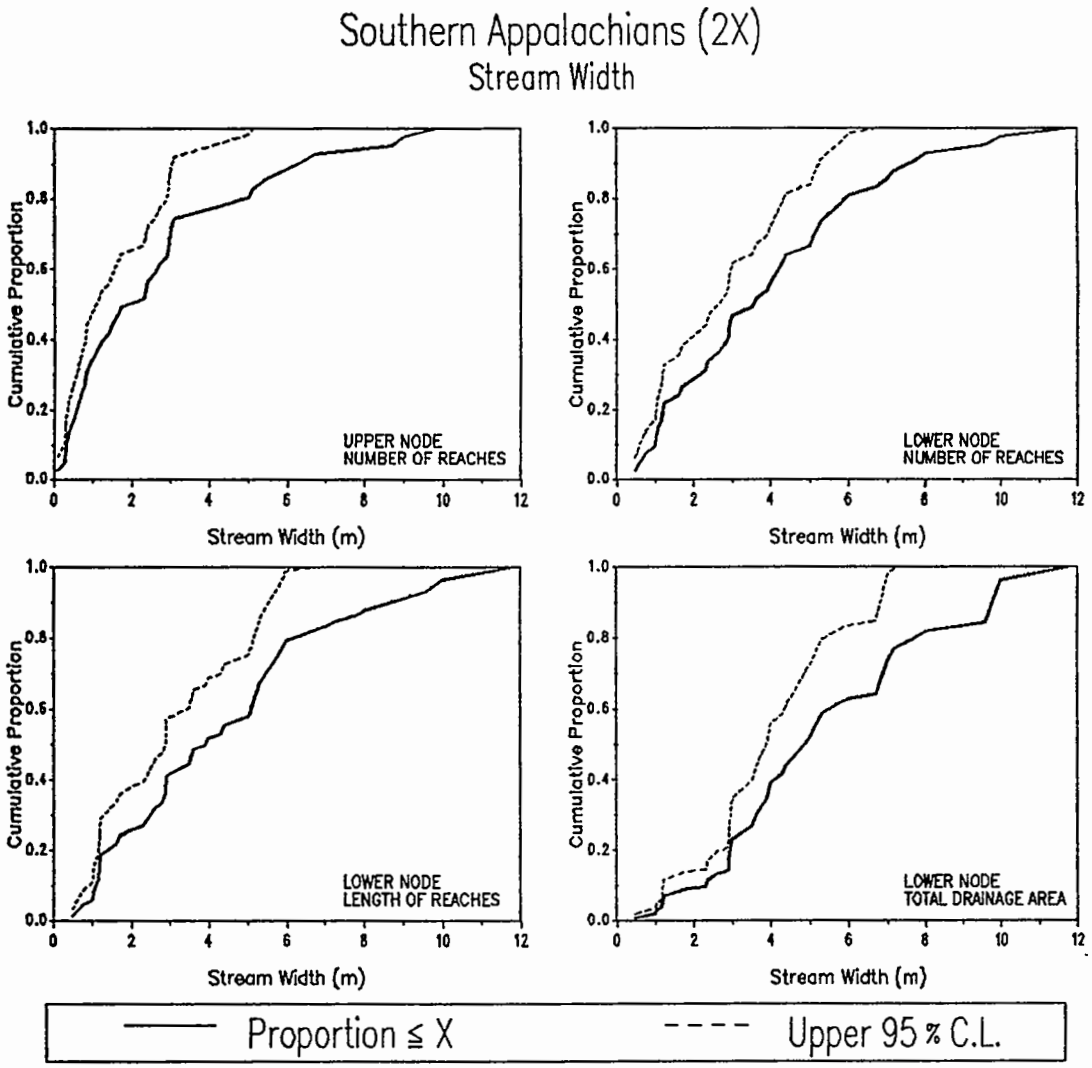
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (m)	0.87	1.15	1.63	2.51
40 % (m)	1.34	1.97	2.79	5.11
MEDIAN (m)	1.63	2.84	3.66	5.93
60 % (m)	2.00	3.60	5.36	6.84
80 % (m)	4.16	6.34	8.00	8.49

SUMMARY STATISTICS (m)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	0.30	11.30	2.66	2.58
LOWER	47	0.10	14.60	3.85	3.06

Figure 5-315. Population estimates for stream width (STRMWD) for the Piedmont subregion (3A).



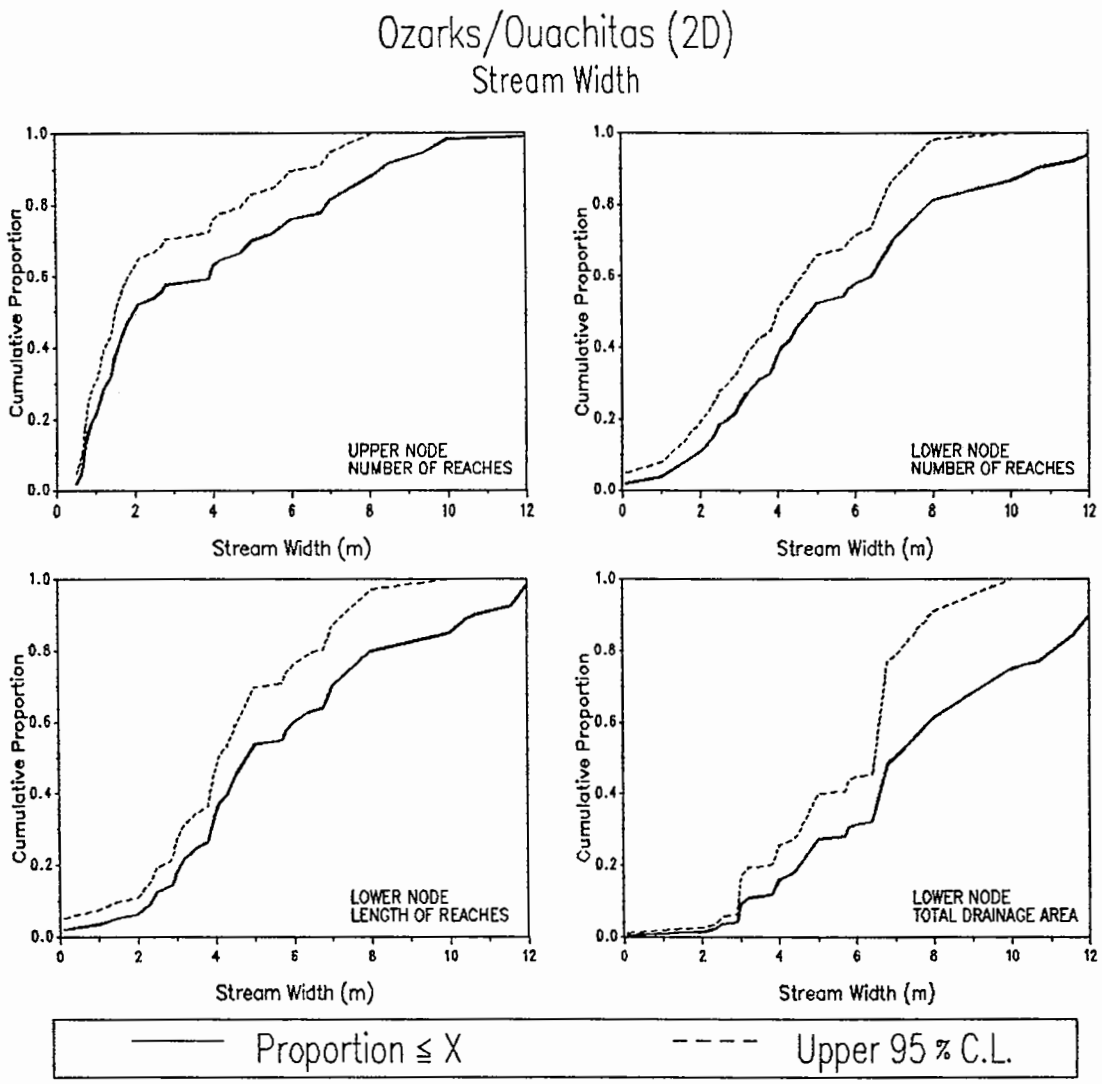
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (m)	0.57	1.18	1.37	2.95
40 % (m)	1.25	2.86	2.90	4.10
MEDIAN (m)	1.90	3.54	3.92	4.88
60 % (m)	2.64	4.21	5.08	5.53
80 % (m)	4.91	5.93	6.17	7.75

SUMMARY STATISTICS (m)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	0.09	9.80	2.78	2.56
LOWER	40	0.48	11.80	4.06	2.74

Figure 5-316. Population estimates for stream width (STRMWD) for the Southern Appalachians subregion (2X).

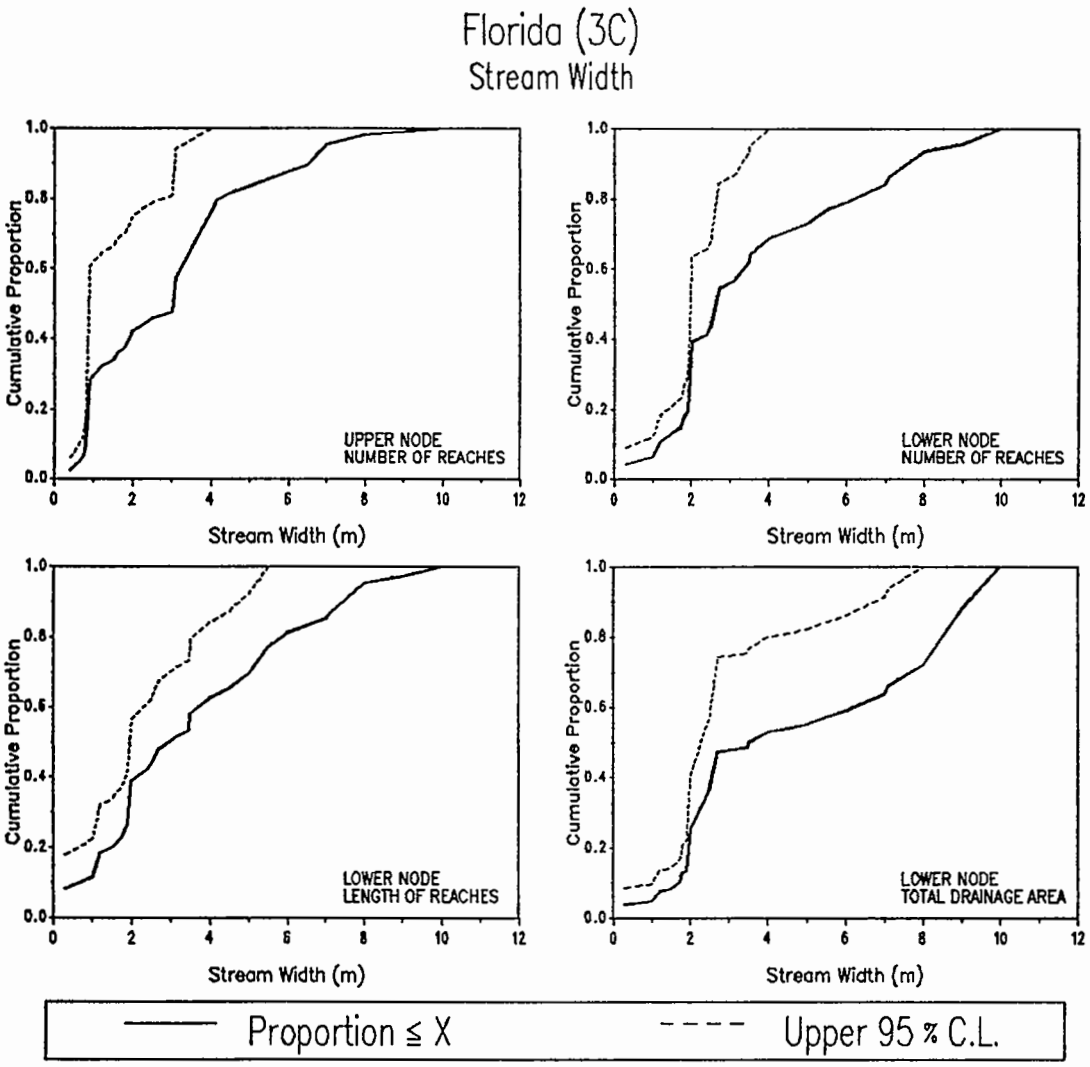


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (m)	0.92	2.69	3.10	4.53
40 % (m)	1.57	4.09	4.31	6.60
MEDIAN (m)	1.98	4.82	4.79	7.00
60 % (m)	3.92	6.41	6.02	7.88
80 % (m)	6.93	7.89	8.04	11.06

SUMMARY STATISTICS (m)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	0.50	15.00	3.81	3.33
LOWER	48	0.09	13.00	5.84	3.36

Figure 5-317. Population estimates for stream width (STRMWD) for the Ozarks/Ouachitas subregion (2D).



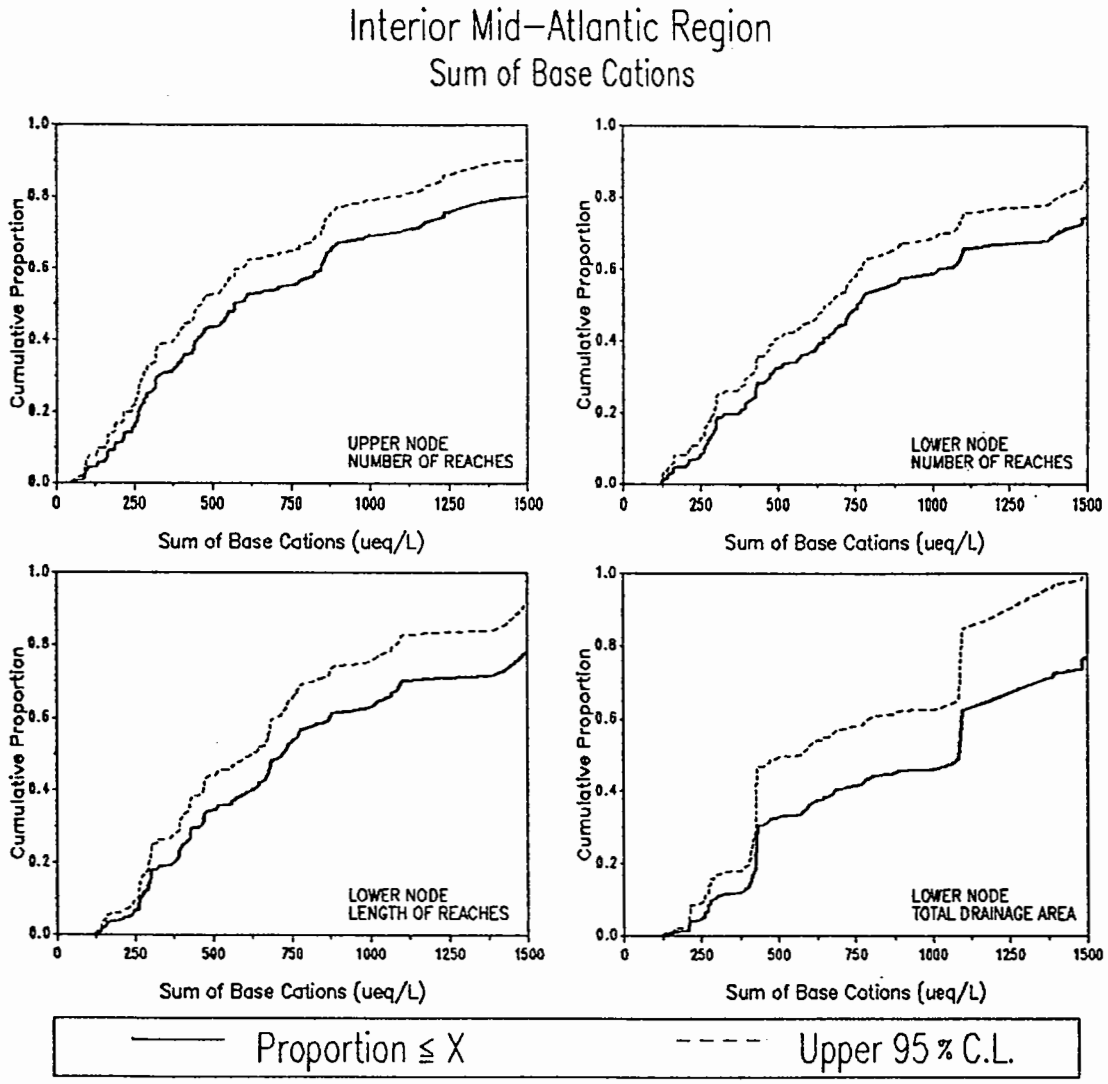
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (m)	0.86	1.90	1.50	1.96
40 % (m)	1.91	2.14	2.15	2.57
MEDIAN (m)	3.02	2.62	2.96	3.50
60 % (m)	3.22	3.33	3.73	6.22
80 % (m)	4.22	6.17	5.86	8.49

SUMMARY STATISTICS (m)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	0.40	10.00	3.17	2.27
LOWER	34	0.30	10.00	3.81	2.60

Figure 5-318. Population estimates for stream width (STRMWD) for Florida subregion (3C).

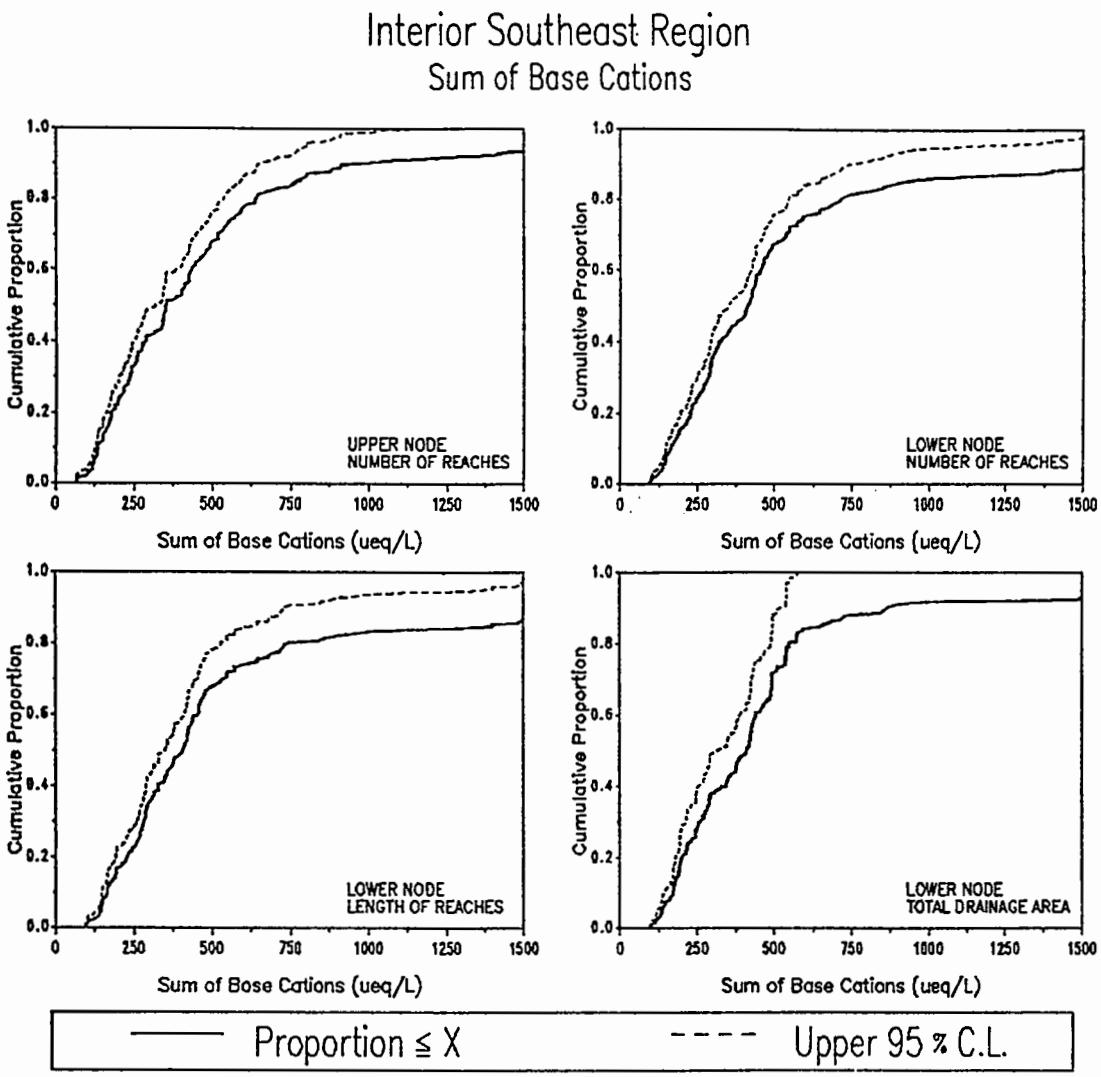


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	24946	25715	73287	555724
STD ERROR	1527	1502	5738	96350
20 % (ueq/L)	263.89	371.28	375.70	426.66
40 % (ueq/L)	449.28	646.53	623.22	682.12
MEDIAN(ueq/L)	570.67	753.84	721.31	1087.77
60 % (ueq/L)	845.00	1020.78	874.51	1095.84
80 % (ueq/L)	1484.20	1987.67	1755.26	1995.67

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	169	45.20	5251.14	1002.29	1032.83
LOWER	164	120.34	5389.34	1182.98	1095.42

Figure 5-319. Population estimates for sum of base cations (SOBC) for the Mid-Atlantic Region.



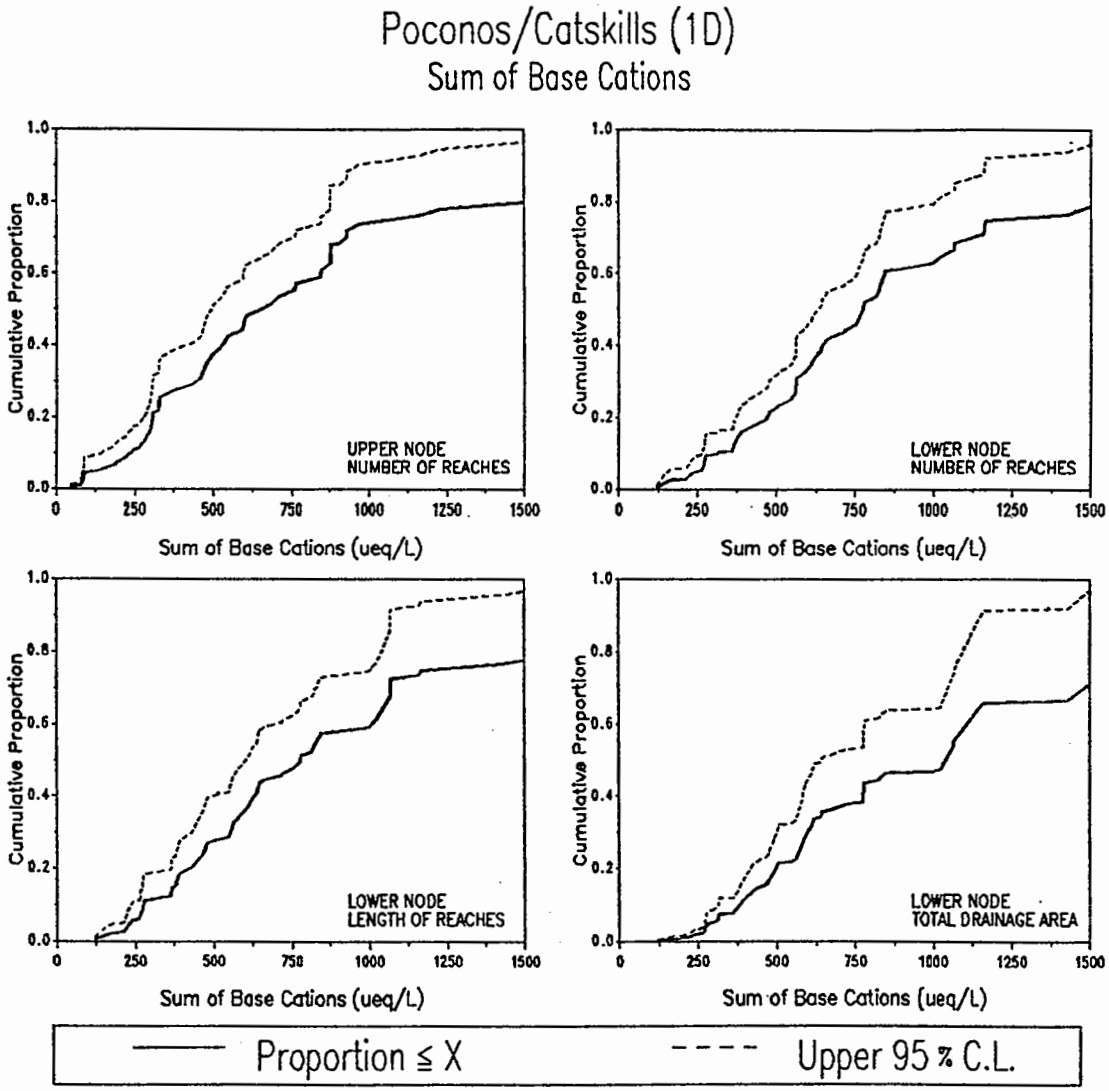
POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	18685	18719	88062	401703
STD ERROR	987	987	5892	45347
20 % (ueq/L)	178.42	226.97	228.92	201.85
40 % (ueq/L)	287.18	318.61	328.64	345.01
MEDIAN (ueq/L)	350.50	412.66	406.15	412.34
60 % (ueq/L)	433.37	457.39	453.97	439.82
80 % (ueq/L)	639.09	712.76	744.22	549.42

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	189	63.63	3984.23	563.34	672.86
LOWER	189	92.78	4193.84	680.49	825.96

Figure 5-320. Population estimates for sum of base cations (SOBC) for the Southeastern Region.

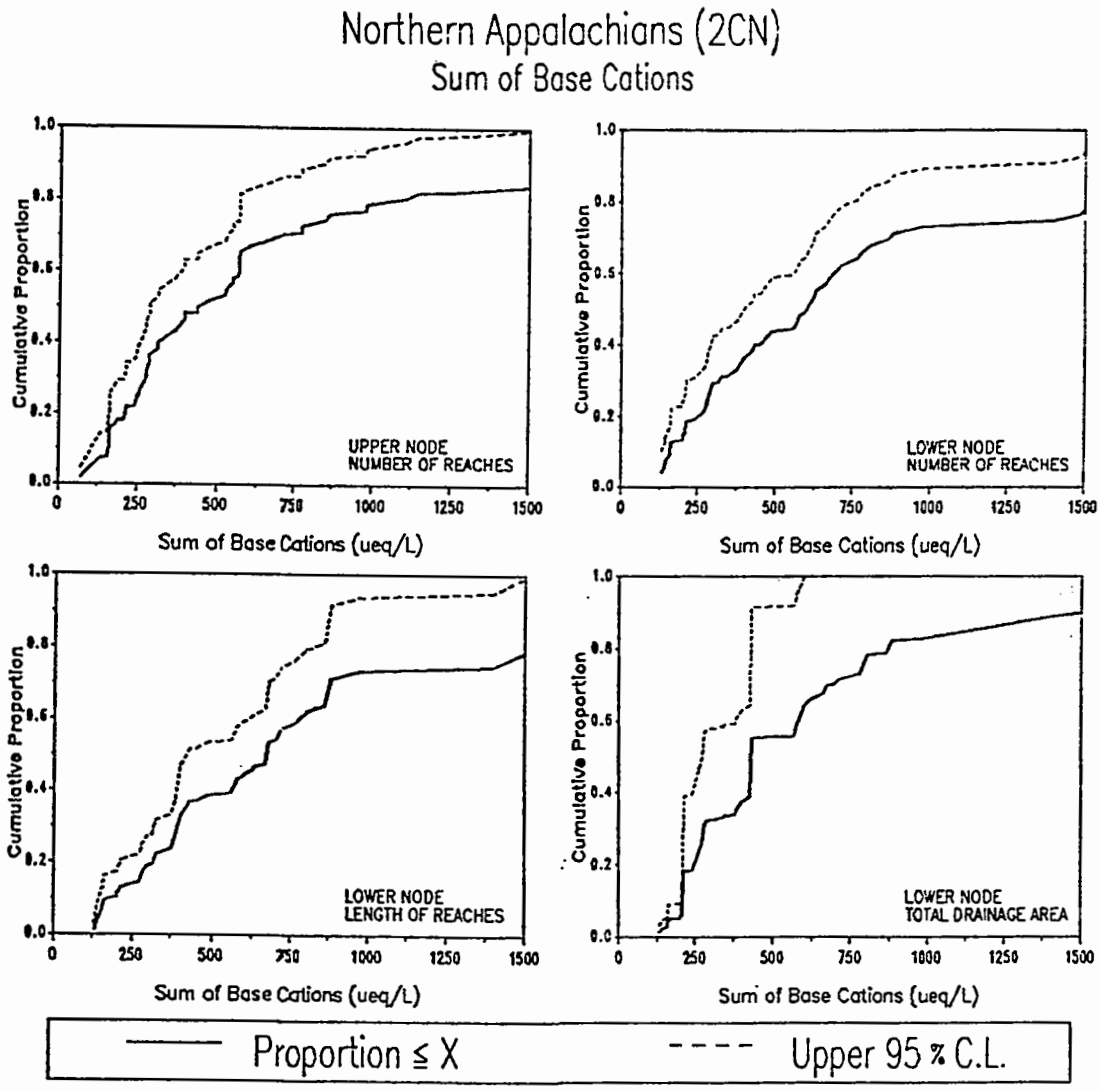


	POPULATION ESTIMATES			
	UPPER NODE		LOWER NODE	
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	3244	3235	15144	88629
STD ERROR	347	347	1898	17238
20 % (ueq/L)	306.74	472.92	424.89	498.48
40 % (ueq/L)	528.03	645.27	630.41	777.07
MEDIAN (ueq/L)	654.86	774.63	776.79	1041.73
60 % (ueq/L)	846.34	844.40	1010.20	1110.61
80 % (ueq/L)	1506.50	1636.21	1696.08	1972.67

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	58	45.20	5134.74	945.27	883.43
LOWER	56	120.34	5389.34	1070.71	884.55

Figure 5-321. Population estimates for sum of base cations (SOBC) for the Poconos/Catskills subregion (1D).

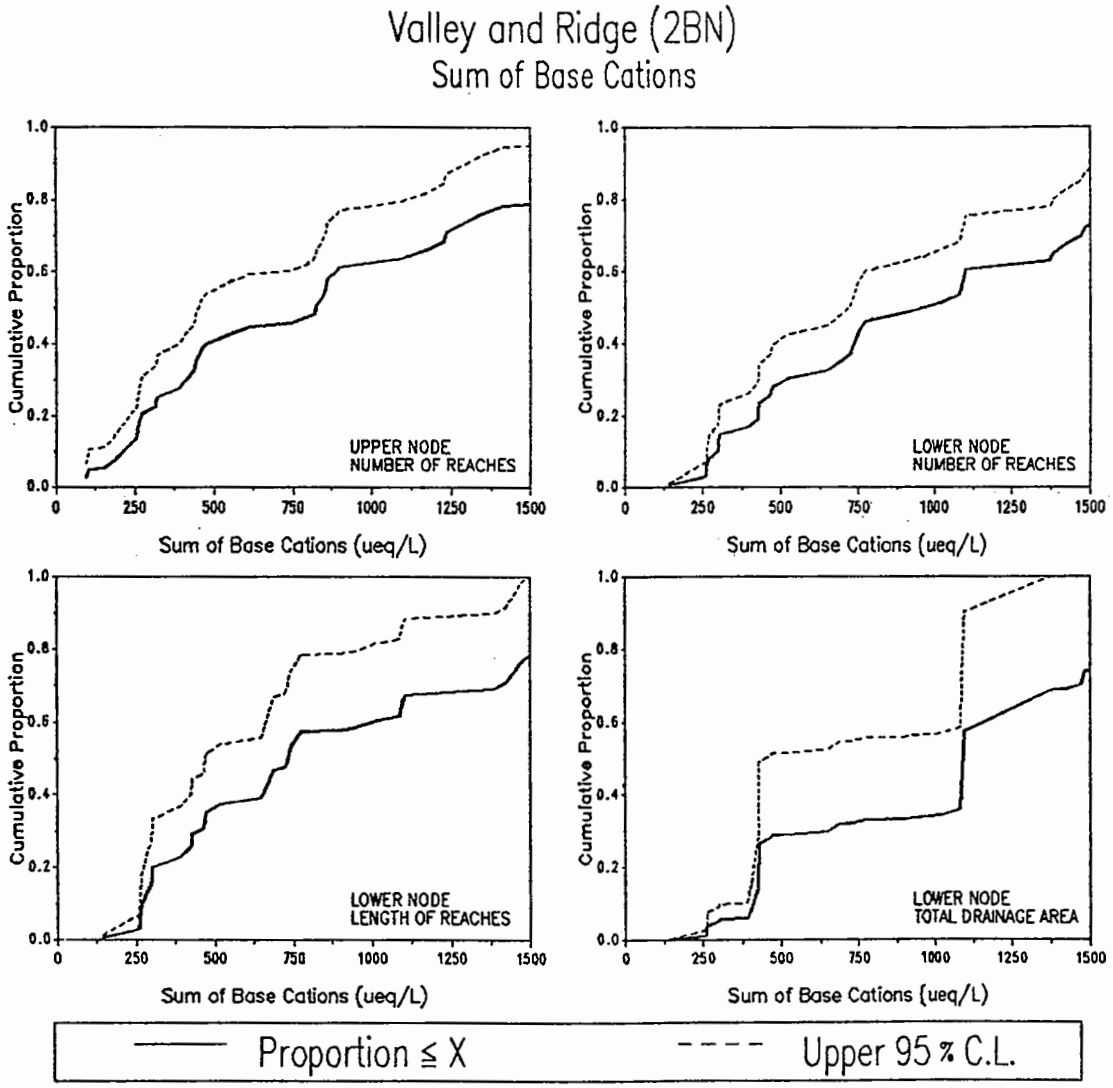


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	8663	8488	21738	117111
STD ERROR	807	814	2738	27490
20 % (ueq/L)	212.56	252.42	317.93	247.67
40 % (ueq/L)	321.79	430.99	564.20	426.82
MEDIAN(ueq/L)	445.29	603.72	669.66	429.76
60 % (ueq/L)	569.60	688.79	780.78	584.56
80 % (ueq/L)	1086.05	1726.26	1633.15	871.72

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	67	73.27	2843.81	803.84	853.17
LOWER	61	131.23	2519.02	894.18	789.04

Figure 5-322. Population estimates for sum of base cations (SOBC) for the Northern Appalachians subregion (2Cn).

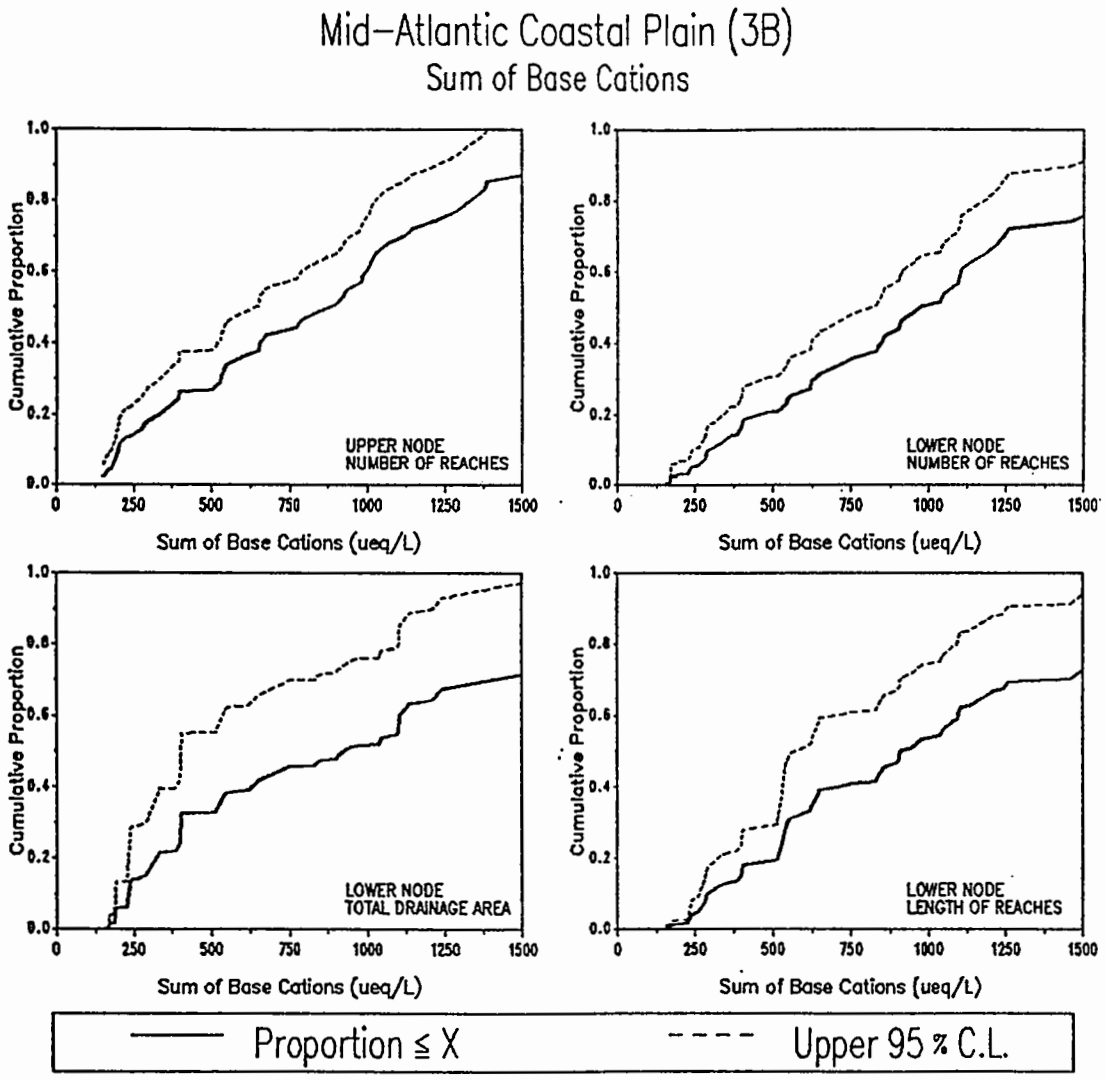


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	13038	13992	36405	349984
STD ERROR	1249	1213	4672	90722
20 % (ueq/L)	270.51	425.70	302.05	427.31
40 % (ueq/L)	479.16	734.17	652.30	1088.69
MEDIAN (ueq/L)	826.74	965.29	733.13	1093.59
60 % (ueq/L)	891.29	1103.56	1001.80	1165.74
80 % (ueq/L)	1769.32	2038.03	1933.82	1988.65

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	44	93.11	5251.14	1148.08	1146.69
LOWER	47	141.59	5224.73	1384.14	1246.10

Figure 5-323. Population estimates for sum of base cations (SOBC) for the Valley and Ridge subregion (2Bn).

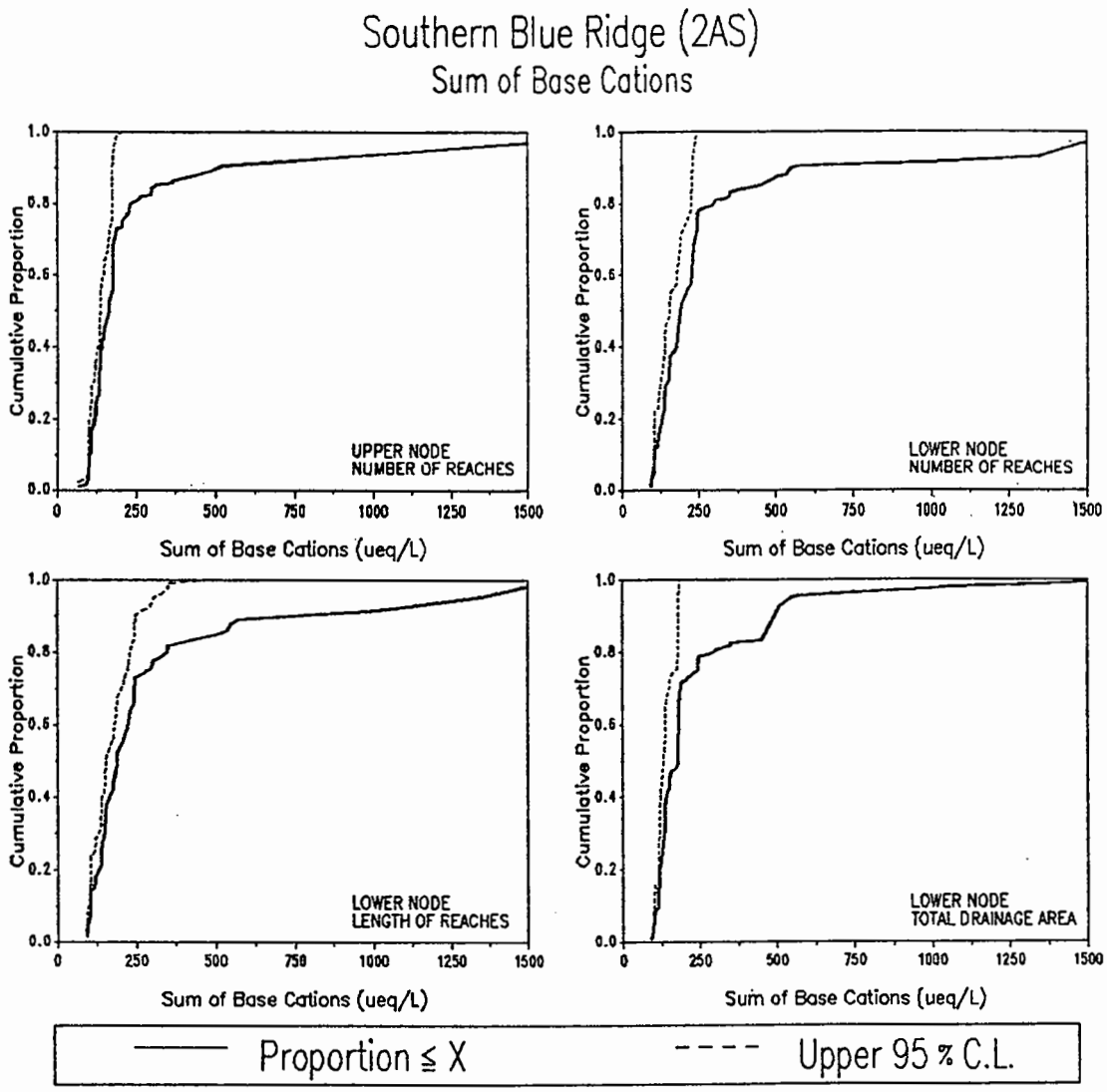


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	11284	11287	40344	204255
STD ERROR	1078	1078	5788	50273
20 % (ueq/L)	333.69	462.96	515.10	322.28
40 % (ueq/L)	652.27	846.08	709.33	629.22
MEDIAN(ueq/L)	871.70	970.08	911.11	930.25
60 % (ueq/L)	994.34	1104.28	1097.52	1105.87
80 % (ueq/L)	1330.95	1703.53	2148.07	2017.36

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	57	150.30	2447.89	897.34	548.56
LOWER	58	155.62	3752.69	1181.99	833.64

Figure 5-324. Population estimates for sum of base cations (SOBC) for the Mid-Atlantic Coastal Plain subregion (3B).

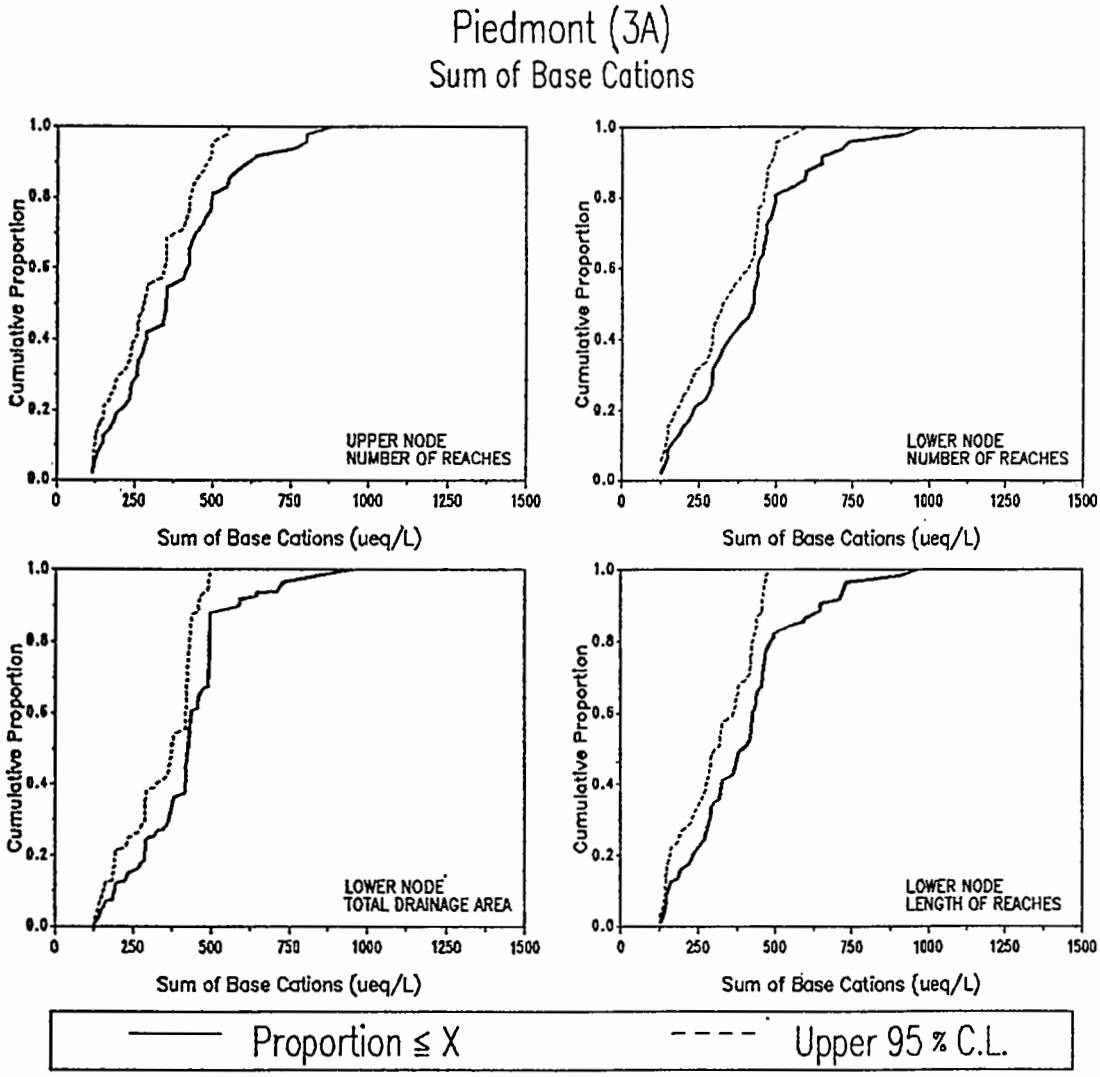


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	2031	2031	9036	50995
STD ERROR	326	326	954	12357
20 % (ueq/L)	118.88	129.88	131.87	119.67
40 % (ueq/L)	140.25	176.64	165.41	141.90
MEDIAN (ueq/L)	164.32	188.22	188.72	178.02
60 % (ueq/L)	176.53	225.41	225.05	180.43
80 % (ueq/L)	234.85	300.64	348.85	296.93

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	54	68.17	2278.50	306.96	450.10
LOWER	54	92.78	1958.45	338.25	422.38

Figure 5-325. Population estimates for sum of base cations (SOBC) for the Southern Blue Ridge subregion (2As).

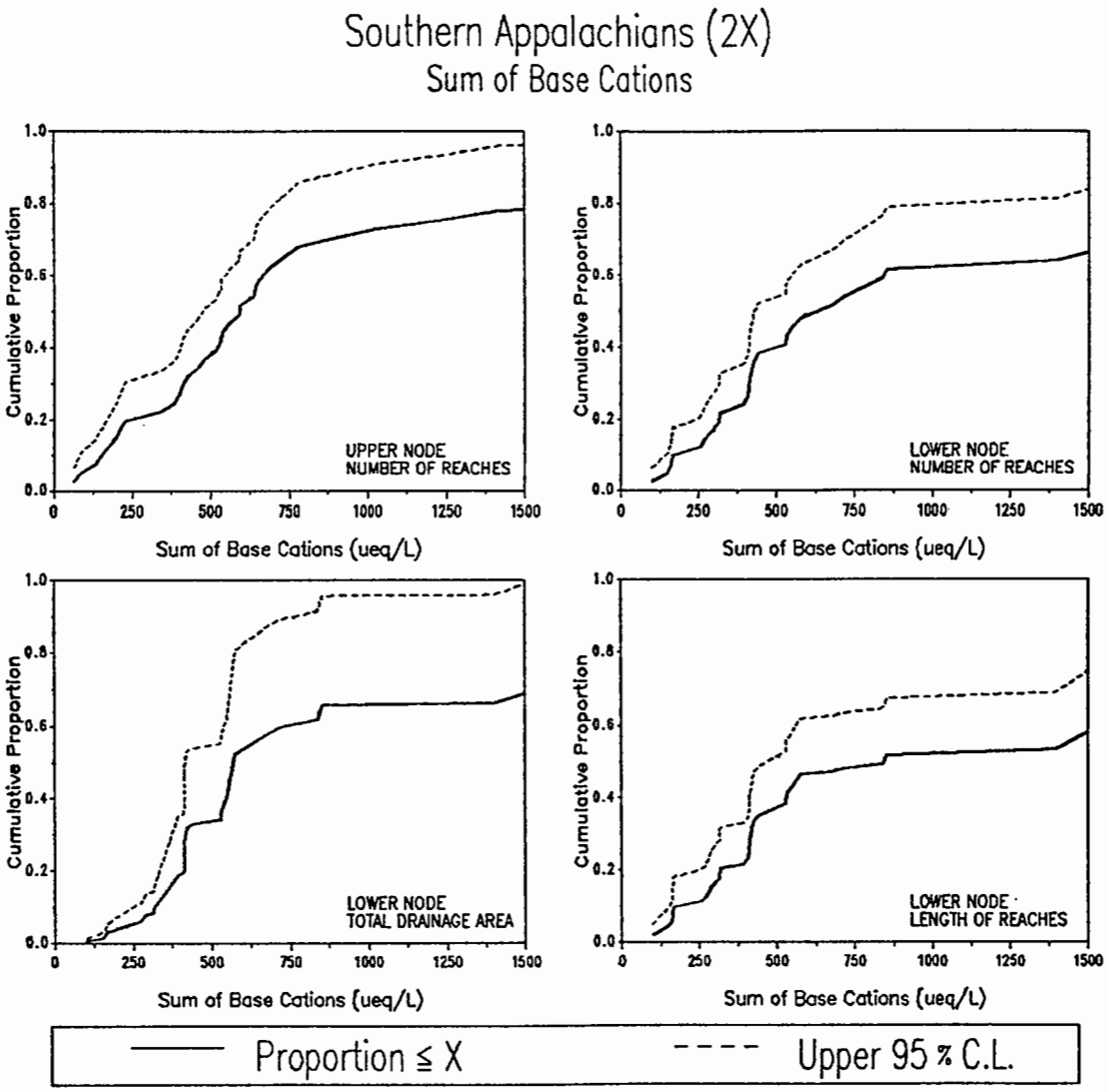


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	7515	7515	33531	147091
STD ERROR	650	650	4390	30370
20 % (ueq/L)	202.98	231.70	234.35	290.33
40 % (ueq/L)	288.20	345.24	326.97	420.24
MEDIAN(ueq/L)	349.46	424.13	395.41	427.85
60 % (ueq/L)	418.91	438.31	427.00	438.80
80 % (ueq/L)	497.59	496.00	485.51	495.61

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	47	117.99	886.10	380.79	189.92
LOWER	47	126.72	968.38	411.37	186.82

Figure 5-326. Population estimates for sum of base cations (SOBC) for the Piedmont subregion (3A).

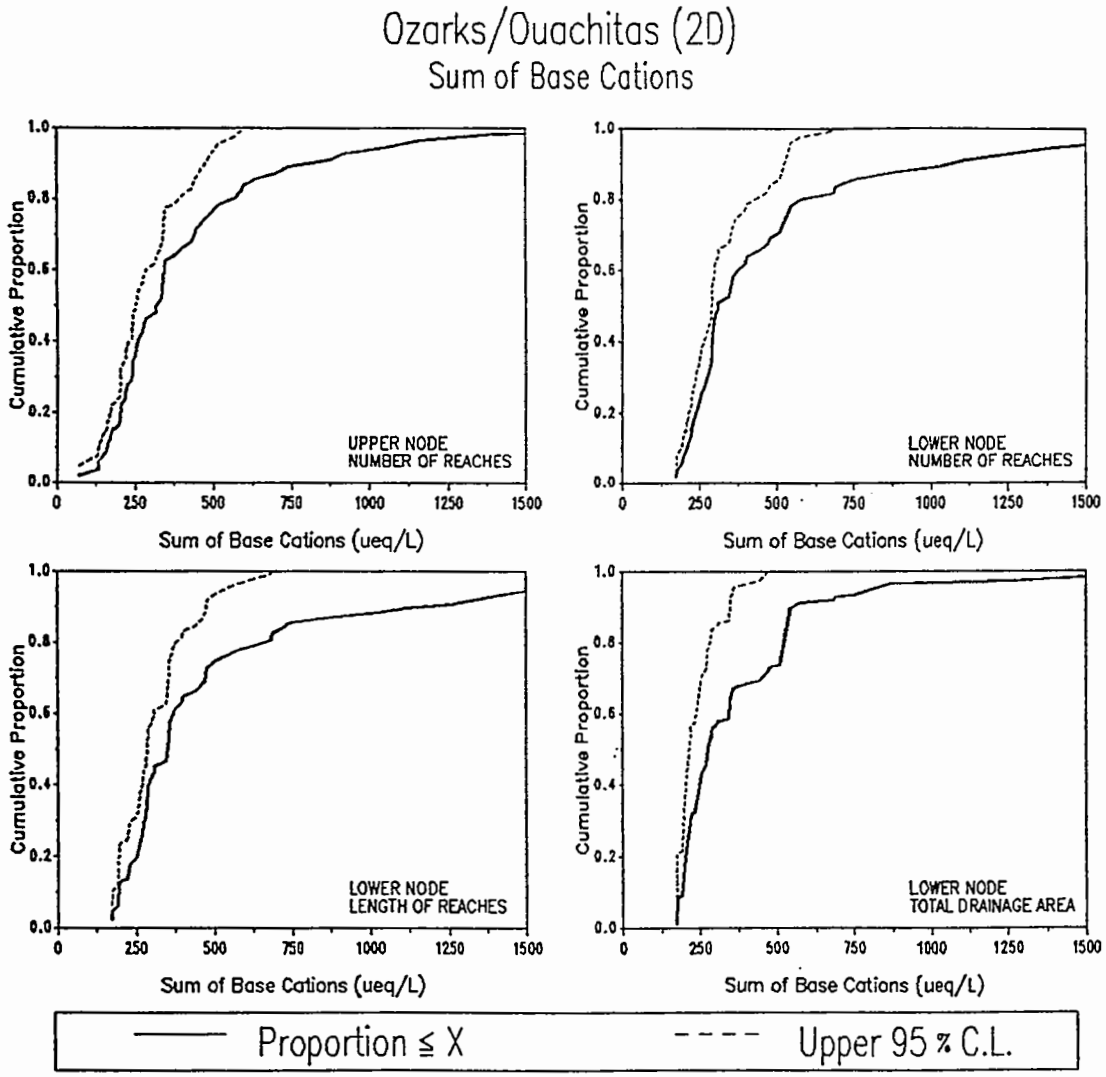


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4936	5057	23015	80104
STD ERROR	529	526	2885	14842
20 % (ueq/L)	243.55	315.94	316.94	410.88
40 % (ueq/L)	521.14	498.87	530.13	547.29
MEDIAN(ueq/L)	592.87	634.46	845.81	571.20
60 % (ueq/L)	665.11	845.77	1560.78	739.21
80 % (ueq/L)	2007.61	2700.82	2819.45	2567.12

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	39	63.63	3984.23	1049.32	1047.45
LOWER	40	99.61	4193.84	1341.02	1251.28

Figure 5-327. Population estimates for sum of base cations (SOBC) for the Southern Appalachians subregion (2X).

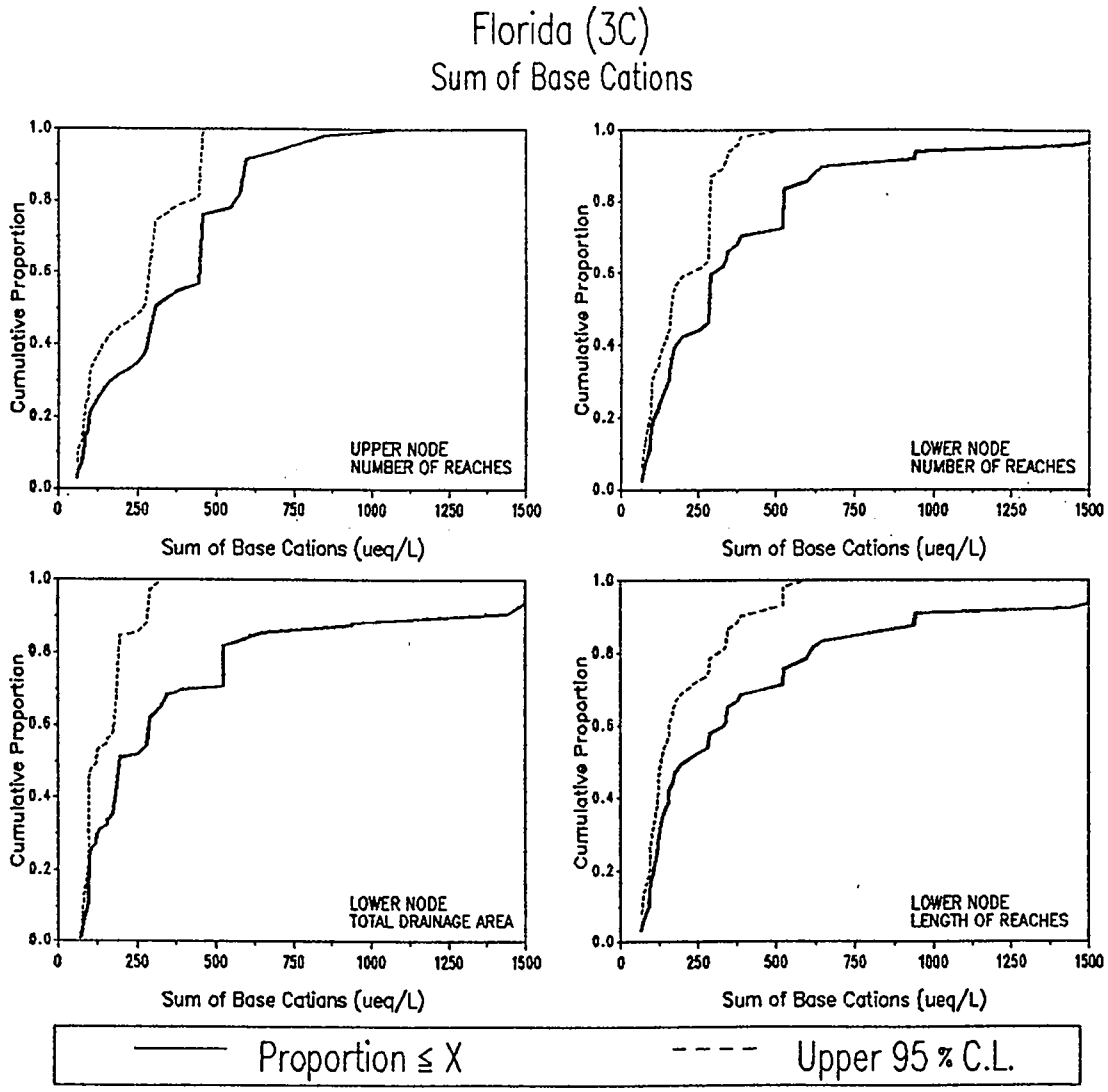


	POPULATION ESTIMATES			
	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	4204	4116	22480	123512
STD ERROR	406	410	2491	27587
20 % (ueq/L)	202.82	237.10	253.86	202.78
40 % (ueq/L)	259.18	289.16	291.13	248.08
MEDIAN(ueq/L)	317.27	308.86	350.65	273.89
60 % (ueq/L)	342.47	372.42	369.15	346.80
80 % (ueq/L)	566.24	577.24	664.09	523.52

SUMMARY STATISTICS (ueq/L)

	SAMPLE			POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	49	69.09	2856.99	442.92	422.73
LOWER	48	172.83	3080.17	529.11	527.39

Figure 5-328. Population estimates for sum of base cations (SOBC) for the Ozarks/Ouachitas subregion (2D).



POPULATION ESTIMATES

	UPPER NODE	LOWER NODE		
	NUMBER OF REACHES	NUMBER OF REACHES	REACH LENGTH (km)	TOTAL DRAINAGE AREA (sq km)
TOTALS	1727	1555	4820	26382
STD ERROR	437	306	723	6633
20 % (ueq/L)	97.35	106.21	106.49	97.33
40 % (ueq/L)	278.82	174.11	155.45	181.88
MEDIAN (ueq/L)	303.95	283.97	206.67	195.75
60 % (ueq/L)	446.91	294.37	331.37	288.50
80 % (ueq/L)	560.46	524.11	607.96	524.39

SUMMARY STATISTICS (ueq/L)

		SAMPLE		POPULATION	
NODE	n	MIN	MAX	MEAN	SD
UPPER	31	60.33	1085.81	360.59	231.39
LOWER	34	68.54	1879.25	387.41	386.98

Figure 5-329. Population estimates for sum of base cations (SOBC) for Florida subregion (3C).

SECTION 6
PHYSICAL DATA LISTINGS

Physical data describing the streams and watersheds sampled in Phase I of the survey are presented in this section. Table 6-1 lists data from the regular Phase I streams, including the overall sample weight for each stream (W), the direct drainage area to the reach (A1 or a_1), the total drainage area above each node of a reach (A_WS), the 1:250,000-scale Shreve (1966) stream order (RCH_HW) at the lower node of the reach, the 1:24,000-scale Shreve stream order at each node, the 1:24,000-scale Strahler (1957) stream order of each node, the reach length from upper to lower node, the elevation of the sampling location at each node, the stream gradient calculated between sampling sites, the stream width, and the average stream depth. Table 6-2 lists similar data for the special interest sites visited during the Phase I survey.

Table 6-1. Physical data listing for regular streams.

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
1D022009	L	65.306122	0.98	57.57	4	19	4	2.17	410.5	0.61	7.0	0.25
	U	65.306122	0.98	55.03	4	19	4	2.17	423.3	0.61	6.0	0.20
1D022010	L	59.738953	18.47	47.83	1	28	4	14.42	386.5	1.06	7.0	0.20
	U	59.738953	18.47	2.36	1	1	1	14.42	533.1	1.06	2.5	0.15
1D022022	L	59.738953	38.28	99.14	1	71	4	16.09	445.0	0.33	16.0	0.40
	U	59.738953	38.28	11.94	1	12	3	16.09	496.8	0.33	5.0	0.15
1D024010	L	59.738953	10.13	26.23	1	10	3	7.72	539.5	3.05	6.0	0.40
	U	59.738953	10.13	0.44	1	1	1	7.72	772.6	3.05	1.0	0.20
1D024021	L	19.335347	3.31	76.42	2	33	4	1.64	371.8	0.83	24.0	0.60
	U	19.335347	3.31	67.85	2	29	4	1.64	377.3	0.83	7.0	0.60
1D025003	L	59.738953	1.43	3.70	1	3	2	2.77	152.4	4.13	1.5	0.50
	U	59.738953	1.43	0.31	1	1	1	2.77	256.0	4.13	0.5	0.40
1D029004	L	59.738953	5.06	13.10	1	9	2	7.08	306.3	1.23	4.0	1.00
	U	59.738953	5.06	0.05	1	1	1	7.08	376.4	1.23	0.8	0.10
1D029010	L	59.738953	15.26	61.30	2	19	4	10.35	340.7	0.93	20.0	0.50
	U	59.738953	15.26	21.78	2	7	3	10.35	436.1	0.93	5.0	0.15
1D029015	L	2.090820	30.61	79.27	1	54	4	23.04	315.1	1.11	12.0	0.20
	U	2.090820	30.61	0.44	1	1	1	23.04	565.4	1.11	0.5	0.05
1D029016	L	7.150838	8.95	23.18	1	18	3	10.88	467.5	1.68	10.0	0.30
	U	7.150838	8.95	0.47	1	3	2	10.88	614.1	1.68	4.5	0.20
1D029018	L	59.738953	3.39	8.78	1	3	2	5.76	260.3	2.07	4.0	0.10
	U	59.738953	3.39	0.28	1	1	1	5.76	375.8	2.07	0.3	0.08
1D029020	L	9.861325	6.49	16.81	1	14	3	6.03	284.4	3.27	4.0	0.15
	U	9.861325	6.49	0.23	1	1	1	6.03	466.3	3.27	0.6	0.15
1D029023	L	59.738953	4.46	11.55	1	8	3	6.63	438.9	3.86	2.0	0.30
	U	59.738953	4.46	0.44	1	1	1	6.63	682.1	3.86	1.5	0.10
1D029028	L	59.738953	4.54	24.06	2	11	3	4.68	268.8	2.99	3.5	0.30
	U	59.738953	4.54	12.30	2	5	3	4.68	405.1	2.99	2.5	0.70
1D029031	L	59.738953	4.03	10.44	1	6	3	7.03	333.1	3.08	5.0	0.25
	U	59.738953	4.03	0.28	1	1	1	7.03	541.6	3.08	3.5	0.10
1D029042	L	10.031348	6.38	16.52	1	9	3	7.95	362.7	4.39	3.5	0.25
	U	10.031348	6.38	0.78	1	1	1	7.95	707.7	4.39	2.5	0.20

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
1D029043	L	9.756098	6.56	16.99	1	6	3	6.53	547.1	1.53	5.0	0.15
	U	9.756098	6.56	0.23	1	1	1	6.53	637.0	1.53	1.5	0.10
1D029044	L	5.618964	11.39	29.50	1	6	2	4.43	337.1	1.03	10.0	0.30
	U	5.618964	11.39	18.49	1	4	2	4.43	377.9	1.03	10.0	0.30
1D029051	L	59.738953	1.23	47.31	4	35	3	4.94	248.1	1.19	6.0	0.20
	U	59.738953	1.23	44.13	4	30	3	4.94	302.7	1.19	5.5	0.30
1D029052	L	59.738953	2.39	22.58	3	8	3	3.09	211.5	0.62	8.0	0.30
	U	59.738953	2.39	16.39	3	7	3	3.09	230.1	0.62	10.0	0.30
1D029056	L	59.738953	6.70	17.35	1	14	3	12.09	157.0	1.12	2.0	0.30
	U	59.738953	6.70	0.21	1	1	1	12.09	291.1	1.12	0.5	0.10
1D029057	L	59.738953	5.75	92.97	11	53	4	7.40	176.2	0.38	7.0	0.50
	U	59.738953	5.75	78.08	11	41	4	7.40	204.2	0.38	5.0	0.30
1D030001	L	59.738953	1.24	14.09	2	6	3	1.90	475.5	2.73	8.0	0.20
	U	59.738953	1.24	10.88	2	5	3	1.90	524.2	2.73	4.0	0.20
1D030004	L	2.353807	27.19	70.42	1	30	3	22.71	490.7	1.54	11.6	0.35
	U	2.353807	27.19	0.78	1	1	1	22.71	816.8	1.54	3.0	0.17
1D030005	L	9.425626	6.79	17.58	1	6	3	5.78	210.3	11.12	7.0	0.20
	U	9.425626	6.79	0.85	1	1	1	5.78	816.8	11.12	5.0	0.20
1D030017	L	10.355987	6.18	99.14	4	38	4	4.99	262.1	0.73	10.2	1.00
	U	10.355987	6.18	83.13	4	31	4	4.99	297.2	0.73	10.0	0.20
1D030018	L	15.724816	4.07	10.54	1	3	1	3.81	268.2	0.82	2.5	0.20
	U	15.724816	4.07	4.92	1	1	1	3.81	295.6	0.82	3.5	0.20
1D030019	L	59.738953	2.10	5.44	1	4	2	5.25	97.5	2.41	0.2	0.05
	U	59.738953	2.10	1.14	1	3	2	5.25	216.4	2.41	1.3	0.30
1D030021	L	59.738953	2.31	5.98	1	3	2	3.81	344.4	2.36	3.0	0.15
	U	59.738953	2.31	1.66	1	1	1	3.81	429.7	2.36	1.5	0.15
1D030023	L	59.738953	3.85	9.97	1	6	3	2.90	317.0	4.00	3.0	0.50
	U	59.738953	3.85	0.85	1	1	1	2.90	429.7	4.00	1.5	0.10
1D030025	L	59.738953	8.29	21.47	1	16	3	5.91	289.5	1.78	9.0	0.35
	U	59.738953	8.29	11.76	1	8	3	5.91	377.9	1.78	5.0	0.40

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
1D030038	L	59.738953	1.39	3.60	1	1	1	2.35	333.7	2.20	3.0	2.50
	U	59.738953	1.39	1.92	1	1	1	2.35	384.0	2.20	1.5	0.20
1D030041	L	59.738953	1.37	34.68	2	25	3	3.30	324.6	0.52	7.0	0.30
	U	59.738953	1.37	31.13	2	21	3	3.30	341.4	0.52	10.0	1.00
1D030044	L	59.738953	2.13	34.68	2	11	3	4.86	100.6	0.73	11.0	0.30
	U	59.738953	2.13	29.16	2	8	3	4.86	134.1	0.73	12.0	0.40
1D030048	L	78.048780	0.82	117.83	7	50	4	2.20	280.4	0.61	25.0	0.50
	U	78.048780	0.82	115.71	7	50	4	2.20	292.6	0.61	10.0	0.70
1D030050	L	59.738953	2.56	6.63	1	2	1	5.75	411.5	1.96	2.0	0.60
	U	59.738953	2.56	0.96	1	1	1	5.75	521.2	1.96	1.0	0.10
1D030070	L	142.222222	0.45	14.14	2	5	3	5.02	112.8	0.22	7.5	0.45
	U	142.222222	0.45	12.97	2	5	3	5.02	115.8	0.22	5.0	0.30
1D030071	L	145.454545	0.44	60.88	5	19	3	1.34	106.7	0.45	5.0	0.50
	U	145.454545	0.44	59.75	5	19	3	1.34	112.2	0.45	11.4	0.40
1D030074	L	59.738953	8.78	22.74	1	16	3	6.63	353.6	2.05	6.0	0.25
	U	59.738953	8.78	2.51	1	3	2	6.63	486.1	2.05	1.5	0.10
1D030080	L	59.738953	8.48	21.96	1	12	3	11.26	249.9	1.11	10.0	0.40
	U	59.738953	8.48	1.94	1	1	1	11.26	371.8	1.11	2.0	0.10
1D030083	L	59.738953	3.45	8.93	1	5	2	4.63	139.0	1.06	5.5	0.30
	U	59.738953	3.45	7.20	1	1	1	4.63	185.9	1.06	4.0	0.30
1D030092	L	59.738953	3.05	79.97	4	42	4	4.20	128.0	0.80	12.0	0.40
	U	59.738953	3.05	72.07	4	41	4	4.20	152.4	0.80	25.0	0.50
1D030093	L	59.738953	5.38	13.93	1	7	3	6.92	131.1	1.42	2.0	0.25
	U	59.738953	5.38	1.06	1	1	1	6.92	222.5	1.42	2.0	0.30
1D031002	L	59.738953	1.63	25.46	2	32	4	5.33	109.7	0.40	7.0	0.20
	U	59.738953	1.63	21.24	2	32	4	5.33	126.5	0.40	8.0	0.30
1D031006	L	59.738953	2.18	5.65	1	3	2	1.08	131.1	0.60	2.0	0.20
	U	59.738953	2.18	5.83	1	3	2	1.08	137.2	0.60	10.0	0.10
1D031014	L	59.738953	1.08	2.80	1	2	2	1.90	158.5	4.15	2.0	0.10
	U	59.738953	1.08	0.41	1	1	1	1.90	228.6	4.15	2.0	0.12

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
1D036006	L	168.421053	0.38	8.68	2	5	2	2.67	215.5	1.88	2.5	0.20
	U	168.421053	0.38	7.69	2	4	2	2.67	261.5	1.88	1.0	0.10
1D036008	L	59.738953	1.91	4.95	1	3	1	3.72	157.0	0.79	1.0	0.20
	U	59.738953	1.91	0.36	1	1	1	3.72	185.3	0.79	0.6	0.10
1D036010	L	123.076923	0.52	1.35	1	1	1	1.46	281.0	1.95	1.5	0.30
	U	123.076923	0.52	0.23	1	1	1	1.46	310.9	1.95	0.3	0.10
1D036011	L	59.738953	2.17	5.62	1	1	1	3.52	281.0	4.83	3.0	0.40
	U	59.738953	2.17	1.24	1	1	1	3.52	443.5	4.83	2.0	0.60
1D036012	L	133.333333	0.48	1.24	1	1	1	2.20	301.1	5.13	1.3	0.20
	U	133.333333	0.48	0.16	1	1	1	2.20	392.0	5.13	1.0	0.20
1D036017	L	59.738953	3.71	9.61	1	4	2	5.81	332.8	0.59	4.0	0.20
	U	59.738953	3.71	1.84	1	1	1	5.81	365.7	0.59	4.0	0.40
1D037003	L	130.612245	0.49	1.27	1	1	1	1.32	249.9	1.69	1.5	0.20
	U	130.612245	0.49	0.54	1	1	1	1.32	269.7	1.69	2.2	0.10
1D037004	L	5.423729	11.80	30.56	1	8	2	14.47	341.4	0.92	7.0	0.60
	U	5.423729	11.80	0.41	1	1	1	14.47	473.9	0.92	0.8	0.10
1D037005	L	15.201900	4.21	10.90	1	2	2	5.29	182.9	6.85	5.0	0.40
	U	15.201900	4.21	0.03	1	1	1	5.29	509.0	6.85	2.5	0.10
1D037010	L	59.738953	1.67	4.32	1	1	1	5.57	83.8	2.62	3.0	0.10
	U	59.738953	1.67	0.05	1	1	1	5.57	204.2	2.62	3.0	0.05
1D037011	L	59.738953	1.41	3.65	1	1	1	3.11	155.4	0.24	1.0	0.20
	U	59.738953	1.41	0.00	1	1	1	3.11	161.5	0.24	1.0	0.40
1D037016	L	59.738953	1.42	66.19	3	36	3	2.12	160.0	0.30	6.5	0.40
	U	59.738953	1.42	62.52	3	33	3	2.12	166.1	0.30	6.0	1.00
1D037020	L	67.368421	0.95	100.48	3	43	4	1.69	57.9	0.84	8.0	0.40
	U	67.368421	0.95	98.02	3	43	4	1.69	71.6	0.84	8.0	0.25
1D037021	L	59.738953	4.04	10.46	1	3	2	5.28	143.2	1.36	3.0	0.10
	U	59.738953	4.04	1.40	1	2	2	5.28	204.2	1.36	3.0	0.20
1D037028	L	59.738953	5.65	121.72	4	36	4	7.55	73.1	0.23	13.0	0.70
	U	59.738953	5.65	107.09	4	36	4	7.55	85.3	0.23	12.0	0.60

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
2A058004	L	121.387472	0.67	11.91	3	20	3	1.61	243.8	0.32	2.3	0.14
	U	121.387472	0.67	10.18	3	17	3	1.61	248.4	0.32	3.1	0.10
2A058005	L	121.387472	3.53	77.69	9	89	4	6.40	287.4	0.29	10.0	0.50
	U	121.387472	3.53	68.55	9	76	4	6.40	304.2	0.29	9.8	0.12
2A067012	L	121.387472	5.32	13.78	1	12	3	6.24	862.5	7.95	5.3	0.10
	U	121.387472	5.32	0.16	1	1	1	6.24	1341	7.95	0.7	0.10
2A068004	L	121.387472	1.39	28.10	4	25	3	4.06	679.7	0.76	4.0	0.15
	U	121.387472	1.39	24.50	4	21	3	4.06	710.1	0.76	5.4	0.20
2A068007	L	121.387472	3.21	8.31	1	9	3	4.09	707.1	0.93	1.2	0.12
	U	121.387472	3.21	0.49	1	5	2	4.09	731.5	0.93	2.4	0.10
2A068015	L	121.387472	5.56	14.40	1	6	2	8.77	618.7	4.98	1.2	0.20
	U	121.387472	5.56	0.39	1	1	1	8.77	1048	4.98	1.6	0.03
2A068022	L	121.387472	1.68	50.58	2	46	4	4.63	673.6	0.68	5.0	0.40
	U	121.387472	1.68	46.23	2	44	4	4.63	704.1	0.68	9.0	0.35
2A068023	L	121.387472	0.81	61.71	2	59	4	2.12	740.6	0.30	7.0	0.20
	U	121.387472	0.81	59.62	2	57	4	2.12	746.7	0.30	5.0	0.20
2A068032	L	121.387472	0.80	2.07	1	9	3	2.96	743.7	5.05	0.6	0.03
	U	121.387472	0.80	0.08	1	9	3	2.96	768.1	5.05	0.3	0.10
2A068048	L	121.387472	2.58	17.74	2	13	3	3.14	838.2	4.69	7.7	0.10
	U	121.387472	2.58	11.06	2	7	3	3.14	984.5	4.69	6.3	0.20
2A068055	L	121.387472	2.45	6.34	1	1	1	7.31	1033	4.99	6.0	0.10
	U	121.387472	2.45	0.28	1	1	1	7.31	1359	4.99	2.3	0.10
2A07701	L	15.440290	8.29	21.47	1	12	3	7.40	609.6	6.55	10.6	0.42
	U	15.440290	8.29	0.28	1	1	1	7.40	1036	6.55	1.8	0.05
2A07702	L	30.331754	4.22	10.93	1	4	3	9.38	231.6	1.28	2.8	0.28
	U	30.331754	4.22	0.08	1	1	1	9.38	329.2	1.28	0.8	0.03
2A07703	L	32.653061	3.92	10.15	1	5	2	5.62	487.7	0.68	2.9	0.21
	U	32.653061	3.92	1.42	1	1	1	5.62	512.0	0.68	1.5	0.13
2A07801	L	54.237288	2.36	91.13	8	236	5	2.25	414.5	0.54	13.0	0.27
	U	54.237288	2.36	85.02	8	243	5	2.25	426.7	0.54	40.0	0.46

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
2A07802	L	17.462483	7.33	18.98	1	37	4	7.32	914.4	2.67	6.3	0.15
	U	17.462483	7.33	1.01	1	2	2	7.32	1097	2.67	1.2	0.09
2A07803	L	64.646465	1.98	5.13	1	10	3	2.66	280.4	1.10	2.0	0.13
	U	64.646465	1.98	0.39	1	1	1	2.66	304.8	1.10	0.3	0.09
2A07805	L	93.430657	1.37	29.91	3	49	4	3.33	435.8	2.17	4.5	0.40
	U	93.430657	1.37	26.36	3	41	4	3.33	499.8	2.17	5.0	0.15
2A07806	L	22.857143	5.60	14.50	1	41	3	5.20	670.5	7.55	5.1	0.21
	U	22.857143	5.60	2.43	1	6	3	5.20	993.6	7.55	3.7	0.08
2A07807	L	8.488064	15.08	39.05	1	15	3	10.01	670.5	3.63	5.8	0.22
	U	8.488064	15.08	1.50	1	1	1	10.01	1024	3.63	3.1	0.15
2A07808	L	4.891097	26.17	67.77	1	33	6	15.14	445.0	1.92	10.1	0.34
	U	4.891097	26.17	0.23	1	1	1	15.14	676.6	1.92	1.2	0.15
2A07810	L	4.680073	27.35	138.86	3	141	4	21.77	432.8	1.78	12.0	0.85
	U	4.680073	27.35	68.03	3	56	4	21.77	810.7	1.78	25.0	0.30
2A07811	L	26.722338	4.79	12.40	1	8	3	4.06	548.6	12.45	6.7	0.30
	U	26.722338	4.79	2.23	1	2	2	4.06	829.0	12.45	4.6	0.52
2A07812	L	43.686007	2.93	7.59	1	9	3	4.76	883.9	10.61	2.7	0.16
	U	43.686007	2.93	0.26	1	1	1	4.76	1237	10.61	0.6	0.05
2A07813	L	13.347237	9.59	24.84	1	55	5	8.51	621.8	3.26	4.0	0.61
	U	13.347237	9.59	0.26	1	1	1	8.51	853.4	3.26	1.2	0.09
2A07814	L	9.282088	13.79	81.29	2	85	4	9.90	597.4	0.68	10.3	0.27
	U	9.282088	13.79	45.58	2	22	3	9.90	661.4	0.68	6.1	0.24
2A07815	L	7.673861	16.68	43.20	1	20	3	11.25	426.7	2.70	7.6	0.24
	U	7.673861	16.68	4.51	1	3	2	11.25	682.7	2.70	4.6	0.61
2A07816	L	10.829103	11.82	30.61	1	19	4	10.88	579.1	6.99	11.0	0.25
	U	10.829103	11.82	1.04	1	1	1	10.88	1231	6.99	3.0	0.30
2A07817	L	12.367150	10.35	26.80	1	19	4	6.31	731.5	9.08	9.1	0.61
	U	12.367150	10.35	3.13	1	2	2	6.31	1292	9.08	9.1	0.09
2A07818	L	126.732673	1.01	42.16	3	19	3	2.14	731.5	2.46	8.8	0.23
	U	126.732673	1.01	39.55	3	18	3	2.14	780.2	2.46	3.0	0.46

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	MODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
2A07819	L	3.550624	36.05	93.36	1	46	4	23.01	426.7	1.00	9.8	0.30
	U	3.550624	36.05	0.28	1	6	2	23.01	573.0	1.00	1.2	0.21
2A07820	L	10.440457	12.26	115.92	4	135	5	7.72	829.0	0.85	15.2	0.61
	U	10.440457	12.26	84.17	4	93	5	7.72	890.0	0.85	8.5	0.24
2A07821	L	50.393701	2.54	6.58	1	4	2	2.48	551.7	17.65	3.0	0.20
	U	50.393701	2.54	3.83	1	2	2	2.48	864.1	17.65	0.9	0.15
2A07822	L	19.452888	6.58	36.36	2	76	4	6.82	609.6	0.75	6.7	0.17
	U	19.452888	6.58	19.32	2	29	4	6.82	659.9	0.75	4.6	0.15
2A07823	L	16.931217	7.56	19.58	1	30	4	9.00	548.6	5.17	5.2	0.13
	U	16.931217	7.56	0.91	1	3	2	9.00	853.4	5.17	0.9	0.15
2A07824	L	10.339257	12.38	32.06	1	21	4	6.39	950.9	6.04	14.3	0.19
	U	10.339257	12.38	2.93	1	6	3	6.39	1308	6.04	6.1	0.46
2A07825	L	5.631324	22.73	58.86	1	49	4	32.15	731.5	1.14	14.6	0.25
	U	5.631324	22.73	0.23	1	1	1	32.15	1009	1.14	3.0	0.18
2A07826	L	31.372549	4.08	10.57	1	11	3	4.80	646.1	0.44	4.0	0.15
	U	31.372549	4.08	0.80	1	1	1	4.80	661.4	0.44	0.9	0.08
2A07827	L	32.323232	3.96	10.26	1	40	4	6.57	502.9	3.12	6.5	0.10
	U	32.323232	3.96	0.44	1	30	4	6.57	586.7	3.12	3.7	0.15
2A07828	L	17.391304	7.36	19.06	1	12	3	7.47	960.1	4.87	6.7	0.28
	U	17.391304	7.36	1.89	1	2	2	7.47	1298	4.87	3.7	0.09
2A07829	L	15.130024	8.46	21.91	1	14	3	5.31	688.8	3.29	6.7	0.18
	U	15.130024	8.46	5.21	1	3	2	5.31	853.4	3.29	6.7	0.18
2A07830	L	23.659889	5.41	14.01	1	12	3	6.47	652.2	1.58	2.9	0.20
	U	23.659889	5.41	0.41	1	1	1	6.47	731.5	1.58	1.5	0.05
2A07831	L	4.587814	27.90	72.25	1	30	3	16.87	268.2	1.93	12.8	0.43
	U	4.587814	27.90	2.56	1	5	3	16.87	548.6	1.93	3.7	0.18
2A07832	L	7.248018	17.66	110.40	6	106	4	9.98	542.5	0.69	12.6	0.37
	U	7.248018	17.66	64.67	6	52	4	9.98	606.5	0.69	15.2	0.23
2A07833	L	21.476510	5.96	15.43	1	13	3	6.40	682.7	5.30	4.2	0.17
	U	21.476510	5.96	0.28	1	1	1	6.40	1030	5.30	0.5	0.05

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
2A07834	L	28.444444	4.50	11.65	1	5	2	6.16	838.2	6.17	0.8	0.13
	U	28.444444	4.50	1.58	1	1	1	6.16	1207	6.17	3.0	0.09
2A07835	L	11.996251	10.67	27.63	1	22	3	8.14	329.2	3.80	9.8	0.26
	U	11.996251	10.67	5.13	1	4	2	8.14	621.8	3.80	1.8	0.30
2A07881	L	19.482496	6.57	43.71	3	72	4	10.32	499.8	0.85	8.0	0.20
	U	19.482496	6.57	26.70	3	53	4	10.32	621.8	0.85	4.6	0.15
2A07882	L	57.657658	2.22	5.75	1	4	2	3.12	935.7	6.12	3.3	0.19
	U	57.657658	2.22	0.98	1	2	2	3.12	1164	6.12	1.8	0.15
2A08801	L	75.739645	1.69	4.38	1	4	2	3.19	243.8	3.57	2.2	0.12
	U	75.739645	1.69	0.21	1	1	1	3.19	335.3	3.57	0.6	0.05
2A08802	L	58.447489	2.19	5.67	1	9	3	4.57	505.9	1.06	3.7	0.13
	U	58.447489	2.19	0.00	1	1	1	4.57	542.5	1.06	0.3	0.05
2A08803	L	50.393701	2.54	11.29	2	31	3	5.12	487.7	0.54	4.3	0.16
	U	50.393701	2.54	4.71	2	16	3	5.12	512.0	0.54	2.0	0.09
2A08804	L	129.292929	0.99	2.56	1	2	2	3.36	566.9	7.43	4.0	0.05
	U	129.292929	0.99	0.05	1	1	1	3.36	749.8	7.43	3.0	0.09
2A08805	L	38.670695	3.31	8.57	1	2	2	7.26	487.7	0.98	2.5	0.23
	U	38.670695	3.31	0.28	1	1	1	7.26	554.7	0.98	0.6	0.09
2A08806	L	213.333333	0.60	1.55	1	4	2	1.98	560.8	2.75	1.3	0.07
	U	213.333333	0.60	0.03	1	1	1	1.98	585.2	2.75	0.6	0.08
2A08808	L	39.875389	3.21	8.31	1	7	3	4.86	408.4	3.09	3.4	0.19
	U	39.875389	3.21	0.80	1	1	1	4.86	524.2	3.09	1.0	0.08
2A08809	L	65.306122	1.96	48.22	7	30	4	3.43	512.0	0.74	9.1	0.51
	U	65.306122	1.96	43.15	7	29	4	3.43	533.4	0.74	8.2	0.36
2A08810	L	68.085106	1.88	4.87	1	5	2	4.34	448.0	2.27	10.7	0.18
	U	68.085106	1.88	0.03	1	1	1	4.34	527.3	2.27	4.6	0.01
2A08811	L	99.224806	1.29	3.34	1	2	2	2.22	374.9	2.26	2.4	0.18
	U	99.224806	1.29	0.83	1	1	1	2.22	408.4	2.26	0.9	0.08
2A08901	L	17.089453	7.49	19.40	1	10	3	8.27	595.9	3.89	7.0	0.24
	U	17.089453	7.49	0.18	1	1	1	8.27	902.2	3.89	0.9	0.09

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
2A08902	L	15.980025	8.01	133.37	7	99	4	5.86	484.6	0.77	19.6	0.52
	U	15.980025	8.01	112.63	7	81	4	5.86	521.2	0.77	9.1	0.30
2A08903	L	56.387665	2.27	148.73	13	133	5	3.44	560.8	0.34	20.8	0.27
	U	56.387665	2.27	142.85	13	127	5	3.44	566.9	0.34	15.2	0.76
2A08904	L	25.498008	5.02	13.00	1	4	2	5.63	441.9	1.27	5.3	0.01
	U	25.498008	5.02	0.31	1	1	1	5.63	510.5	1.27	0.9	0.02
2A08905	L	64.974619	1.97	83.80	3	60	4	2.46	435.8	0.83	12.6	0.44
	U	64.974619	1.97	78.70	3	39	4	2.46	457.2	0.83	12.2	0.21
2A08906	L	25.196850	5.08	13.16	1	8	3	8.27	429.7	0.90	9.3	0.02
	U	25.196850	5.08	1.32	1	3	2	8.27	469.4	0.90	2.9	0.15
2B036003	L	317.795997	1.39	103.49	3	29	3	1.53	352.0	0.80	17.8	0.35
	U	317.795997	1.39	99.89	3	28	3	1.53	362.7	0.80	8.0	0.55
2B036023	L	317.795997	1.67	4.32	1	3	2	2.14	248.4	1.25	1.0	0.20
	U	317.795997	1.67	1.40	1	1	1	2.14	264.9	1.25	1.0	0.20
2B036027	L	317.795997	0.83	113.77	16	55	5	1.88	147.2	0.21	15.0	0.75
	U	317.795997	0.83	111.62	16	55	5	1.88	150.9	0.21	10.0	0.80
2B036028	L	317.795997	1.44	3.73	1	2	2	3.22	121.9	1.85	4.0	0.15
	U	317.795997	1.44	0.28	1	1	1	3.22	179.8	1.85	1.0	0.15
2B036031	L	317.795997	0.69	22.97	2	3	2	2.67	208.8	2.24	7.0	0.40
	U	317.795997	0.69	21.18	2	3	2	2.67	262.1	2.24	3.0	0.40
2B036046	L	317.795997	3.94	10.20	1	1	1	6.03	192.0	2.96	4.0	0.60
	U	317.795997	3.94	1.17	1	1	1	6.03	377.9	2.96	1.5	0.10
2B036051	L	320.000000	0.02	16.86	3	6	3	0.23	184.4	0.69	6.0	0.10
	U	320.000000	0.02	16.81	3	6	3	0.23	185.6	0.69	4.5	0.40
2B036057	L	317.795997	1.24	3.21	1	3	2	4.28	112.8	0.75	2.5	0.20
	U	317.795997	1.24	0.18	1	1	1	4.28	143.2	0.75	1.0	0.10
2B036062	L	317.795997	0.46	18.65	2	22	3	1.90	271.3	0.71	3.5	0.25
	U	317.795997	0.46	17.45	2	22	3	1.90	283.5	0.71	5.1	0.30
2B036076	L	317.795997	1.29	87.40	11	51	3	3.23	246.9	0.79	7.0	0.30
	U	317.795997	1.29	84.06	11	48	3	3.23	271.3	0.79	8.0	0.40

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
2B036083	L	317.795997	0.48	10.75	2	11	3	1.42	114.0	0.02	2.5	0.15
	U	317.795997	0.48	9.50	2	9	3	1.42	114.3	0.02	3.5	0.15
2B041008	L	317.795997	0.26	16.29	3	11	3	0.79	281.9	0.88	3.5	0.20
	U	317.795997	0.26	15.62	3	11	3	0.79	288.0	0.88	5.0	0.30
2B041016	L	326.875883	0.35	0.91	1	1	1	1.96	132.6	2.99	1.6	0.10
	U	326.875883	0.35	0.05	1	1	1	1.96	187.4	2.99	0.5	0.05
2B041018	L	125.089914	0.94	2.43	1	1	1	4.75	173.7	4.28	0.7	0.05
	U	125.089914	0.94	0.16	1	1	1	4.75	310.9	4.28	1.0	0.05
2B041020	L	317.795997	0.70	1.81	1	2	2	2.75	167.6	5.10	1.8	0.10
	U	317.795997	0.70	0.03	1	1	1	2.75	274.3	5.10	0.8	0.10
2B041029	L	317.795997	0.34	9.17	4	11	3	1.85	144.8	1.01	1.4	0.15
	U	317.795997	0.34	8.29	4	11	3	1.85	163.1	1.01	3.5	0.06
2B041032	L	317.795997	1.59	4.12	1	6	3	4.75	201.2	4.00	1.5	0.30
	U	317.795997	1.59	0.08	1	1	1	4.75	387.1	4.00	0.2	0.03
2B041042	L	317.795997	0.59	42.55	13	23	3	1.46	204.2	0.43	10.0	0.50
	U	317.795997	0.59	41.02	13	22	3	1.46	210.3	0.43	9.0	0.11
2B041049	L	317.795997	0.29	0.75	1	1	1	1.53	286.5	8.88	2.7	0.09
	U	317.795997	0.29	0.18	1	1	1	1.53	377.9	8.88	0.5	0.06
2B041054	L	317.795997	0.55	1.42	1	2	2	1.96	253.0	2.32	0.0	0.70
	U	317.795997	0.55	0.21	1	1	1	1.96	291.1	2.32	2.0	0.08
2B042003	L	317.795997	1.28	122.31	9	72	4	3.20	222.5	0.49	13.0	0.40
	U	317.795997	1.28	119.00	9	70	4	3.20	230.4	0.49	6.0	0.40
2B042005	L	317.795997	0.49	1.27	1	2	2	1.80	176.2	1.03	1.4	0.25
	U	317.795997	0.49	0.10	1	1	1	1.80	192.0	1.03	0.4	0.05
2B042007	L	317.795997	0.24	24.89	4	7	3	1.35	127.4	0.38	4.5	0.30
	U	317.795997	0.24	24.27	4	7	3	1.35	132.6	0.38	4.5	0.15
2B042017	L	317.795997	0.90	19.60	5	8	2	1.34	182.6	0.53	4.0	0.50
	U	317.795997	0.90	17.27	5	7	2	1.34	189.3	0.53	4.0	0.30
2B042022	L	317.795997	0.50	1.29	1	1	1	1.24	231.6	7.58	2.1	0.15
	U	317.795997	0.50	0.10	1	1	1	1.24	304.8	7.58	2.2	0.08

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
2B042032	L	302.662854	0.21	0.54	1	1	1	1.14	128.6	1.63	0.9	0.05
	U	302.662854	0.21	0.34	1	1	1	1.14	136.2	1.63	0.3	0.04
2B042036	L	317.795997	0.52	118.79	13	60	4	1.75	134.7	0.27	8.0	0.35
	U	317.795997	0.52	117.45	13	56	4	1.75	139.3	0.27	12.0	0.80
2B042044	L	317.795997	0.46	1.19	1	1	1	2.48	70.1	1.00	.	.
	U	317.795997	0.46	0.08	1	1	1	2.48	88.4	1.00	.	.
2B042047	L	320.000000	0.11	1.97	2	3	2	0.40	149.0	0.72	0.8	0.35
	U	320.000000	0.11	1.68	2	3	2	0.40	151.5	0.72	0.9	0.20
2B042052	L	317.795997	0.98	2.54	1	3	2	3.19	138.7	1.80	2.3	0.10
	U	317.795997	0.98	0.18	1	1	1	3.19	183.5	1.80	0.6	0.05
2B042063	L	317.795997	0.41	132.78	25	111	5	1.35	66.1	0.05	20.0	2.00
	U	317.795997	0.41	131.71	25	108	5	1.35	66.7	0.05	20.0	1.50
2B042064	L	317.795997	0.31	0.80	1	1	1	1.05	93.6	1.41	1.5	0.10
	U	317.795997	0.31	0.10	1	1	1	1.05	105.2	1.41	1.3	0.05
2B047013	L	320.000000	0.02	2.80	2	5	3	0.31	377.9	4.14	2.5	0.05
	U	320.000000	0.02	2.75	2	5	3	0.31	388.6	4.14	1.5	0.15
2B047019	L	317.795997	0.79	2.05	1	2	2	1.34	152.4	1.85	.	.
	U	317.795997	0.79	1.24	1	2	2	1.34	176.8	1.85	.	.
2B047022	L	317.795997	0.94	6.24	2	6	2	2.72	547.1	5.02	2.0	0.10
	U	317.795997	0.94	3.81	2	4	2	2.72	681.2	5.02	2.0	0.10
2B047032	L	317.795997	0.85	10.44	2	5	2	2.61	822.9	4.46	5.0	0.30
	U	317.795997	0.85	8.24	2	5	2	2.61	938.4	4.46	5.0	0.20
2B047036	L	317.795997	1.72	23.23	3	14	3	2.74	461.7	1.24	5.0	0.25
	U	317.795997	1.72	18.78	3	14	3	2.74	481.6	1.24	5.0	0.30
2B047044	L	317.795997	5.01	23.15	3	15	3	8.67	780.2	1.37	5.0	0.20
	U	317.795997	5.01	10.18	3	6	3	8.67	899.1	1.37	2.0	0.20
2B047050	L	317.795997	0.71	1.84	1	2	2	2.37	347.5	0.96	0.8	0.08
	U	317.795997	0.71	1.09	1	2	2	2.37	356.6	0.96	0.3	0.05
2B047061	L	317.795997	0.38	124.23	12	105	5	2.32	373.4	0.89	10.8	0.30
	U	317.795997	0.38	123.25	12	104	5	2.32	393.2	0.89	5.0	0.70

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
2B047062	L	288.905452	0.22	0.57	1	1	1	1.16	374.9	2.71	0.7	0.07
	U	288.905452	0.22	0.16	1	1	1	1.16	387.1	2.71	0.3	0.03
2B047066	L	317.795997	0.54	1.40	1	1	1	2.24	164.6	2.22	2.0	0.10
	U	317.795997	0.54	0.18	1	1	1	2.24	204.2	2.22	1.8	0.05
2B047076	L	47.407407	1.35	3.50	1	2	2	4.07	353.6	5.34	2.0	0.09
	U	47.407407	1.35	0.13	1	1	1	4.07	542.5	5.34	0.8	0.07
2B047078	L	317.795997	1.68	4.35	1	6	3	3.19	167.6	1.12	4.0	1.00
	U	317.795997	1.68	0.39	1	1	1	3.19	195.1	1.12	1.2	0.10
2B047087	L	317.795997	0.45	1.17	1	1	1	2.56	371.8	1.17	2.0	0.08
	U	317.795997	0.45	0.26	1	1	1	2.56	396.2	1.17	0.5	0.04
2B047089	L	58.715596	1.09	17.33	5	11	2	1.56	426.7	3.83	7.0	0.30
	U	58.715596	1.09	14.50	5	10	2	1.56	484.6	3.83	7.0	0.30
2B047093	L	317.795997	0.59	1.53	1	1	1	2.17	509.0	7.66	0.3	0.02
	U	317.795997	0.59	0.34	1	1	1	2.17	670.5	7.66	.	.
2B047100	L	96.969697	0.66	13.98	3	7	3	1.96	388.6	0.92	5.0	0.06
	U	96.969697	0.66	12.28	3	7	3	1.96	405.4	0.92	2.0	0.15
2B057029	L	317.795997	0.69	1.79	1	1	1	1.74	676.6	4.06	0.2	0.03
	U	317.795997	0.69	0.16	1	1	1	1.74	694.9	4.06	0.5	0.05
2B057042	L	317.795997	4.85	12.56	1	11	3	6.34	688.8	1.67	4.0	0.15
	U	317.795997	4.85	2.56	1	2	2	6.34	762.0	1.67	1.5	0.10
2B058015	L	317.795997	2.75	7.12	1	7	2	4.83	304.8	4.97	3.0	0.10
	U	317.795997	2.75	1.74	1	3	2	4.83	499.8	4.97	3.0	0.10
2B058017	L	317.795997	2.46	6.37	1	16	4	4.88	219.4	2.02	2.0	0.15
	U	317.795997	2.46	0.34	1	1	1	4.88	317.3	2.02	1.0	0.05
2B058024	L	317.795997	2.29	5.93	1	2	2	3.57	371.8	6.60	5.1	0.10
	U	317.795997	2.29	0.70	1	1	1	3.57	606.5	6.60	1.6	0.08
2B077012	L	121.387472	2.11	33.67	3	37	4	2.09	222.5	0.30	3.9	0.10
	U	121.387472	2.11	28.20	3	30	3	2.09	228.6	0.30	6.3	0.20
2B077016	L	121.387472	3.98	10.31	1	14	3	7.29	240.8	0.48	5.8	0.20
	U	121.387472	3.98	1.32	1	8	3	7.29	265.2	0.48	0.7	0.20

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
2B087003	L	121.387472	5.51	19.53	2	15	3	6.65	184.4	0.43	5.3	0.25
	U	121.387472	5.51	5.26	2	3	2	6.65	210.3	0.43	2.9	0.15
2B087005	L	121.387472	1.45	3.76	1	3	2	2.70	216.4	1.37	1.0	0.05
	U	121.387472	1.45	0.16	1	1	1	2.70	231.6	1.37	0.8	0.05
2B088002	L	121.387472	1.02	2.64	1	3	2	2.53	227.1	1.40	0.0	0.00
	U	121.387472	1.02	0.36	1	1	1	2.53	257.8	1.40	0.0	0.00
2B088004	L	121.387472	1.39	13.91	2	28	3	3.01	252.1	0.25	8.0	0.50
	U	121.387472	1.39	10.31	2	25	3	3.01	256.9	0.25	5.1	0.40
2B088006	L	121.387472	0.90	24.50	3	18	4	2.30	226.5	0.29	7.2	0.70
	U	121.387472	0.90	22.17	3	17	4	2.30	232.9	0.29	6.7	0.20
2B088007	L	145.454545	0.44	1.14	1	4	3	1.63	273.1	0.54	1.7	0.10
	U	145.454545	0.44	0.05	1	4	3	1.63	274.9	0.54	1.0	0.10
2B088013	L	172.972973	0.37	0.96	1	1	1	2.17	245.0	1.19	0.0	0.00
	U	172.972973	0.37	0.16	1	1	1	2.17	267.0	1.19	0.0	0.00
2B088016	L	121.387472	4.23	10.95	1	16	3	8.16	264.9	0.63	5.8	0.70
	U	121.387472	4.23	0.23	1	2	2	8.16	306.9	0.63	1.6	0.20
2B088019	L	177.777778	0.36	25.41	4	20	3	0.98	387.1	0.66	3.0	0.20
	U	177.777778	0.36	24.47	4	19	3	0.98	393.2	0.66	4.3	0.10
2B088020	L	121.387472	0.97	2.51	1	4	2	3.77	381.0	0.76	1.1	0.25
	U	121.387472	0.97	0.05	1	1	1	3.77	406.9	0.76	0.1	0.03
2B088021	L	0.000000	0.91	2.36	1	.	.	2.64	.	.	.	.
	U	0.000000	0.91	.	1	.	.	2.64	.	.	.	.
2B088022	L	266.666667	0.24	6.94	2	7	3	1.01	214.9	0.32	4.3	0.18
	U	266.666667	0.24	6.32	2	7	3	1.01	217.0	0.32	3.0	0.20
2B088026	L	121.387472	1.06	2.75	1	2	2	3.17	196.6	0.65	1.1	0.06
	U	121.387472	1.06	0.28	1	1	1	3.17	213.3	0.65	0.8	0.15
2B088033	L	142.222222	0.45	1.17	1	1	1	2.69	218.8	1.17	0.0	0.00
	U	142.222222	0.45	0.57	1	1	1	2.69	228.6	1.17	0.0	0.00
2B088041	L	121.387472	0.66	1.71	1	1	1	2.09	198.1	0.93	0.3	0.05
	U	121.387472	0.66	0.26	1	1	1	2.09	216.4	0.93	0.0	0.00

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
2B088045	L	121.387472	1.03	2.67	1	2	2	3.38	224.0	1.31	0.8	0.18
	U	121.387472	1.03	0.05	1	1	1	3.38	260.6	1.31	0.8	0.05
2B088049	L	121.387472	1.26	3.26	1	5	2	3.54	171.3	0.56	.	.
	U	121.387472	1.26	1.61	1	4	2	3.54	181.3	0.56	.	.
2B088065	L	121.387472	0.70	1.81	1	1	1	3.03	208.8	3.77	.	.
	U	121.387472	0.70	0.03	1	1	1	3.03	259.1	3.77	.	.
2B088069	L	121.387472	1.28	3.31	1	2	2	4.12	217.9	1.55	1.7	0.10
	U	121.387472	1.28	0.31	1	2	2	4.12	265.2	1.55	0.3	0.05
2B098006	L	121.387472	2.17	5.62	1	8	3	4.06	259.1	1.96	1.0	0.06
	U	121.387472	2.17	1.35	1	2	2	4.06	310.9	1.96	0.5	0.03
2B098015	L	121.387472	3.06	7.92	1	6	3	5.23	277.4	1.38	6.7	0.60
	U	121.387472	3.06	0.05	1	1	1	5.23	327.6	1.38	0.7	0.10
2B098019	L	121.387472	4.07	25.41	2	16	3	6.58	196.9	1.53	11.8	0.70
	U	121.387472	4.07	14.87	2	9	3	6.58	278.9	1.53	8.7	0.30
2C028043	L	145.260810	4.60	11.91	1	8	3	4.22	413.6	0.84	7.0	0.30
	U	145.260810	4.60	6.14	1	5	3	4.22	444.1	0.84	3.5	0.50
2C028050	L	2.334914	27.41	70.98	1	49	4	13.74	323.7	1.55	7.0	0.30
	U	2.334914	27.41	4.79	1	1	1	13.74	535.8	1.55	1.5	0.15
2C028051	L	2.631579	24.32	62.98	1	41	4	17.12	274.3	1.65	10.0	0.50
	U	2.631579	24.32	2.98	1	2	2	17.12	554.7	1.65	1.5	0.20
2C028056	L	18.604651	3.44	51.04	2	32	3	3.54	405.4	0.35	6.0	0.50
	U	18.604651	3.44	42.14	2	26	3	3.54	417.3	0.35	5.0	0.50
2C028057	L	145.260810	0.62	131.27	3	62	4	1.58	403.8	0.20	30.0	1.20
	U	145.260810	0.62	129.67	3	61	4	1.58	406.9	0.20	20.0	1.50
2C028060	L	145.260810	4.04	10.46	1	4	2	3.72	371.2	1.53	5.0	0.20
	U	145.260810	4.04	2.95	1	1	1	3.72	426.7	1.53	2.0	0.20
2C028061	L	10.078740	6.35	64.41	2	28	3	5.78	317.0	1.34	7.0	0.40
	U	10.078740	6.35	47.96	2	21	3	5.78	393.2	1.34	5.0	0.40
2C028069	L	35.555556	1.80	4.66	1	1	1	3.32	518.4	1.04	4.0	0.30
	U	35.555556	1.80	2.67	1	1	1	3.32	549.8	1.04	3.0	0.30

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
2C028070	L	9.770992	6.55	16.96	1	6	2	6.58	414.2	7.03	4.0	0.20
	U	9.770992	6.55	6.47	1	3	2	6.58	572.7	7.03	3.0	0.15
2C028071	L	2.853321	22.43	58.09	1	30	3	14.68	295.6	1.42	7.0	0.40
	U	2.853321	22.43	0.00	1	18	3	14.68	393.2	1.42	2.0	0.50
2C028075	L	15.130024	4.23	10.95	1	4	3	6.12	428.2	3.58	2.0	0.20
	U	15.130024	4.23	1.92	1	1	1	6.12	646.4	3.58	1.0	0.10
2C029002	L	145.260810	4.12	10.67	1	8	2	4.59	496.8	2.89	3.0	0.10
	U	145.260810	4.12	0.10	1	1	1	4.59	612.6	2.89	0.9	0.05
2C029016	L	29.090909	2.20	5.70	1	2	1	5.83	509.0	2.10	3.0	0.30
	U	29.090909	2.20	2.77	1	1	1	5.83	600.4	2.10	1.5	0.50
2C029020	L	7.025247	9.11	23.59	1	10	3	9.33	344.4	2.76	3.0	0.20
	U	7.025247	9.11	5.72	1	3	2	9.33	533.4	2.76	1.5	0.20
2C035010	L	1.619843	39.51	144.25	3	37	4	9.04	441.9	0.21	10.0	0.60
	U	1.619843	39.51	41.93	3	24	4	9.04	460.2	0.21	7.0	1.00
2C035011	L	4.459930	14.35	37.16	1	13	3	10.22	467.8	1.05	5.0	0.40
	U	4.459930	14.35	5.41	1	1	1	10.22	533.4	1.05	3.5	0.15
2C035016	L	3.953057	16.19	41.93	1	14	4	13.95	460.5	0.55	0.5	7.00
	U	3.953057	16.19	10.36	1	6	3	13.95	512.0	0.55	4.0	0.40
2C035024	L	7.683073	8.33	21.57	1	28	3	11.38	283.5	0.60	5.0	0.60
	U	7.683073	8.33	1.94	1	2	2	11.38	341.7	0.60	1.5	0.20
2C035027	L	145.260810	7.63	19.76	1	11	3	8.63	563.5	1.74	8.0	0.30
	U	145.260810	7.63	11.50	1	9	3	8.63	609.0	1.74	6.0	0.35
2C035035	L	2.805787	22.81	114.10	3	85	5	9.80	471.8	0.59	12.0	0.40
	U	2.805787	22.81	55.03	3	33	4	9.80	529.7	0.59	8.0	0.30
2C035041	L	5.190592	12.33	31.93	1	22	3	12.10	502.9	1.80	3.0	0.30
	U	5.190592	12.33	17.27	1	14	3	12.10	585.2	1.80	2.5	0.40
2C035047	L	2.017654	31.72	82.15	1	37	4	21.02	618.7	1.01	7.0	0.25
	U	2.017654	31.72	7.69	1	5	2	21.02	712.9	1.01	2.0	0.30
2C035049	L	145.260810	11.15	28.88	1	14	4	11.10	425.2	3.15	8.0	0.11
	U	145.260810	11.15	0.85	1	1	1	11.10	755.9	3.15	1.2	0.04

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
2C036001	L	145.260810	0.58	1.50	1	3	2	1.27	307.8	6.86	0.5	0.20
	U	145.260810	0.58	0.05	1	1	1	1.27	384.0	6.86	0.5	0.05
2C040003	L	145.260810	0.94	126.77	18	65	4	3.41	294.1	0.09	.	.
	U	145.260810	0.94	124.33	18	64	4	3.41	297.2	0.09	3.5	0.30
2C040006	L	145.260810	0.98	2.54	1	3	2	2.93	426.7	4.07	2.0	0.15
	U	145.260810	0.98	0.18	1	1	1	2.93	539.5	4.07	1.9	0.07
2C041001	L	145.260810	0.73	46.82	26	29	4	2.16	387.1	1.57	18.0	0.30
	U	145.260810	0.73	44.93	26	29	4	2.16	420.6	1.57	10.0	0.50
2C041002	L	168.421053	0.38	0.98	1	1	1	1.35	499.8	3.89	1.7	0.10
	U	168.421053	0.38	0.03	1	1	1	1.35	548.6	3.89	0.5	0.05
2C041005	L	168.421053	0.38	0.98	1	1	1	1.32	655.3	3.47	0.8	0.08
	U	168.421053	0.38	0.31	1	1	1	1.32	688.8	3.47	0.3	0.04
2C041007	L	320.000000	0.18	7.12	2	2	2	0.90	344.4	2.41	2.0	0.20
	U	320.000000	0.18	6.66	2	2	2	0.90	365.7	2.41	3.0	0.20
2C041014	L	22.939068	2.79	11.21	2	2	2	2.03	573.0	1.26	1.0	0.50
	U	22.939068	2.79	3.99	2	2	2	2.03	576.0	1.26	3.0	0.15
2C041016	L	168.421053	0.38	0.98	1	1	1	1.26	524.2	5.05	1.0	0.07
	U	168.421053	0.38	0.10	1	1	1	1.26	585.2	5.05	0.3	0.07
2C041027	L	14.678899	4.36	11.29	1	3	2	6.98	515.1	2.06	3.0	0.20
	U	14.678899	4.36	0.28	1	1	1	6.98	658.3	2.06	1.0	0.05
2C041029	L	145.260810	2.90	7.51	1	5	2	4.02	728.4	2.93	3.3	0.10
	U	145.260810	2.90	0.10	1	1	1	4.02	841.2	2.93	0.3	0.04
2C041033	L	145.260810	0.68	1.76	1	1	1	2.35	548.6	5.49	0.5	0.05
	U	145.260810	0.68	0.13	1	1	1	2.35	670.5	5.49	0.8	0.03
2C041035	L	145.260810	1.43	43.09	7	21	3	2.83	726.9	0.06	9.0	0.40
	U	145.260810	1.43	39.39	7	19	3	2.83	728.4	0.06	6.0	0.33
2C041036	L	145.260810	0.52	1.35	1	1	1	1.26	795.5	4.04	1.5	0.10
	U	145.260810	0.52	0.18	1	1	1	1.26	835.1	4.04	1.5	0.08
2C041037	L	145.260810	0.51	15.59	4	4	2	1.22	585.2	2.33	4.0	0.45
	U	145.260810	0.51	14.27	4	4	2	1.22	612.6	2.33	3.0	0.20

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRHWD	STRHDP
2C041039	L	145.260810	0.54	5.75	2	6	2	1.06	576.0	1.17	2.0	0.20
	U	145.260810	0.54	4.35	2	4	2	1.06	588.2	1.17	2.0	0.10
2C041040	L	145.260810	0.71	1.84	1	1	1	1.96	658.3	5.10	1.3	0.15
	U	145.260810	0.71	0.31	1	1	1	1.96	701.0	5.10	1.3	0.09
2C041043	L	145.260810	1.97	5.10	1	6	3	2.66	530.3	5.34	1.9	0.30
	U	145.260810	1.97	0.13	1	1	1	2.66	670.5	5.34	0.3	0.02
2C041045	L	145.260810	3.20	19.76	2	12	3	4.81	484.6	1.79	6.0	0.30
	U	145.260810	3.20	11.47	2	8	3	4.81	569.9	1.79	5.0	0.20
2C041051	L	145.260810	1.65	4.27	1	4	2	3.25	557.8	14.99	2.0	0.20
	U	145.260810	1.65	0.05	1	1	1	3.25	1021	14.99	0.3	0.02
2C046004	L	145.260810	1.62	18.72	3	18	3	3.28	246.9	0.47	7.3	0.75
	U	145.260810	1.62	14.53	3	17	3	3.28	262.1	0.47	3.0	0.32
2C046005	L	228.571429	0.28	0.73	1	1	1	1.19	313.9	7.77	0.7	0.20
	U	228.571429	0.28	0.44	1	1	1	1.19	362.7	7.77	2.0	0.20
2C046009	L	61.538462	1.04	2.69	1	1	1	2.40	234.7	2.69	2.5	0.08
	U	61.538462	1.04	0.10	1	1	1	2.40	298.7	2.69	1.0	0.06
2C046011	L	145.260810	1.03	50.40	14	33	4	2.04	332.2	0.63	11.0	0.35
	U	145.260810	1.03	47.73	14	25	4	2.04	344.4	0.63	8.0	0.35
2C046013	L	145.260810	0.63	45.22	9	39	4	1.77	448.0	1.58	10.0	0.50
	U	145.260810	0.63	43.59	9	39	4	1.77	475.5	1.58	6.0	0.50
2C046015	L	145.260810	3.00	7.77	1	5	2	5.04	856.4	5.39	7.5	0.20
	U	145.260810	3.00	0.16	1	1	1	5.04	1058	5.39	0.6	0.05
2C046016	L	145.260810	0.87	2.25	1	1	1	2.72	185.9	3.20	2.5	0.20
	U	145.260810	0.87	0.18	1	1	1	2.72	265.2	3.20	0.5	0.05
2C046017	L	145.260810	0.93	8.13	3	7	3	2.43	195.1	1.71	2.5	0.30
	U	145.260810	0.93	5.72	3	6	3	2.43	234.1	1.71	2.4	0.10
2C046018	L	156.097561	0.41	8.65	3	12	3	1.17	207.3	2.93	1.0	0.10
	U	156.097561	0.41	7.59	3	11	3	1.17	240.8	2.93	2.0	0.20
2C046021	L	200.000000	0.32	3.00	2	2	2	0.85	428.2	4.73	3.0	0.08
	U	200.000000	0.32	2.18	2	2	2	0.85	464.8	4.73	1.7	0.08

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
2C046023	L	145.260810	1.19	3.08	1	1	1	2.51	691.9	2.40	2.4	0.15
	U	145.260810	1.19	0.31	1	1	1	2.51	743.7	2.40	2.5	0.15
2C046030	L	145.260810	1.31	3.39	1	1	1	3.97	560.8	2.46	3.3	0.30
	U	145.260810	1.31	0.13	1	1	1	3.97	658.3	2.46	0.3	0.05
2C046031	L	145.260810	3.72	15.31	3	10	2	6.36	667.5	0.17	5.0	0.40
	U	145.260810	3.72	5.67	3	5	2	6.36	678.1	0.17	3.5	0.10
2C046033	L	320.000000	0.19	4.35	4	4	2	0.74	704.1	4.60	3.0	0.08
	U	320.000000	0.19	3.86	4	3	2	0.74	730.0	4.60	3.5	0.20
2C046034	L	145.260810	0.61	1.58	1	1	1	1.66	879.3	19.04	1.8	0.12
	U	145.260810	0.61	0.23	1	1	1	1.66	1183	19.04	1.3	0.10
2C046041	L	145.260810	0.88	2.28	1	6	3	3.11	676.6	4.86	2.5	0.25
	U	145.260810	0.88	0.10	1	1	1	3.11	822.9	4.86	0.8	0.15
2C046043	L	206.451613	0.31	41.41	11	22	3	0.89	937.2	1.89	7.0	0.25
	U	206.451613	0.31	40.61	11	22	3	0.89	954.0	1.89	7.0	0.40
2C046046	L	320.000000	0.20	0.52	1	1	1	0.76	292.6	11.09	1.5	0.30
	U	320.000000	0.20	0.13	1	1	1	0.76	365.7	11.09	1.0	0.05
2C046047	L	145.260810	1.10	8.18	3	11	3	2.54	237.7	3.18	3.5	0.20
	U	145.260810	1.10	5.33	3	6	3	2.54	310.9	3.18	2.5	0.15
2C046048	L	145.260810	0.72	1.86	1	1	1	2.06	219.4	11.61	2.0	0.15
	U	145.260810	0.72	0.08	1	1	1	2.06	451.1	11.61	0.5	0.05
2C046050	L	320.000000	0.20	0.52	1	1	1	1.05	603.5	6.31	0.7	0.04
	U	320.000000	0.20	0.05	1	1	1	1.05	655.3	6.31	0.4	0.05
2C046052	L	145.260810	0.47	16.06	9	17	3	1.46	731.5	0.43	5.0	0.10
	U	145.260810	0.47	14.84	9	17	3	1.46	737.6	0.43	5.0	0.30
2C046053	L	320.000000	0.14	45.61	10	22	3	0.85	822.9	1.80	5.5	1.00
	U	320.000000	0.14	45.24	10	22	3	0.85	835.1	1.80	6.0	0.50
2C046055	L	145.260810	0.66	1.71	1	1	1	2.09	792.4	19.76	0.6	0.08
	U	145.260810	0.66	0.21	1	1	1	2.09	865.6	19.76	0.6	0.05
2C046062	L	145.260810	4.04	10.46	1	2	2	8.56	865.6	3.76	4.7	0.08
	U	145.260810	4.04	0.34	1	1	1	8.56	1146	3.76	0.7	0.06

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
2C046063	L	145.260810	0.90	2.33	1	2	2	2.33	681.2	1.66	1.6	0.05
	U	145.260810	0.90	0.18	1	1	1	2.33	719.3	1.66	0.5	0.03
2C047004	L	145.260810	0.57	20.25	2	19	3	2.37	591.3	0.28	4.8	0.70
	U	145.260810	0.57	18.78	2	17	3	2.37	597.4	0.28	4.5	0.15
2C047007	L	145.260810	1.31	3.39	1	4	2	4.55	606.5	4.53	2.3	0.08
	U	145.260810	1.31	0.16	1	1	1	4.55	792.4	4.53	0.8	0.05
2C047010	L	304.761905	0.21	7.72	2	2	2	1.53	920.5	3.26	2.0	0.20
	U	304.761905	0.21	7.17	2	2	2	1.53	969.2	3.26	2.0	0.40
2C057004	L	145.260810	1.24	3.21	1	2	2	1.50	720.8	6.42	2.0	0.10
	U	145.260810	1.24	1.89	1	2	2	1.50	810.7	6.42	1.5	0.15
2C057011	L	145.260810	1.03	2.67	1	1	1	3.12	682.7	2.46	2.0	0.10
	U	145.260810	1.03	0.05	1	1	1	3.12	746.7	2.46	2.0	0.15
2C066013	L	121.387472	6.68	17.30	1	15	3	10.36	295.6	0.86	9.6	0.90
	U	121.387472	6.68	1.17	1	1	1	10.36	376.4	0.86	1.1	0.25
2C066017	L	121.387472	7.54	19.53	1	21	3	7.76	344.4	2.39	3.6	0.05
	U	121.387472	7.54	2.41	1	2	2	7.76	524.2	2.39	2.6	0.10
2C066022	L	121.387472	7.22	18.70	1	31	4	9.25	323.1	1.02	2.9	0.15
	U	121.387472	7.22	0.47	1	3	2	9.25	411.5	1.02	0.8	0.12
2C066026	L	121.387472	1.96	5.08	1	6	3	4.97	487.7	1.16	2.9	0.06
	U	121.387472	1.96	0.05	1	1	1	4.97	534.9	1.16	1.7	0.03
2C066027	L	121.387472	1.33	3.44	1	4	2	3.62	454.1	1.13	2.0	0.20
	U	121.387472	1.33	0.03	1	1	1	3.62	489.2	1.13	0.4	0.10
2C066038	L	121.387472	3.08	7.98	1	9	3	6.21	533.4	1.07	1.6	0.12
	U	121.387472	3.08	0.00	1	7	3	6.21	557.8	1.07	1.0	0.09
2C066039	L	121.387472	1.74	4.51	1	5	2	2.41	527.3	0.40	0.5	0.12
	U	121.387472	1.74	2.02	1	3	2	2.41	533.4	0.40	1.2	0.06
2C067001	L	121.387472	0.82	126.95	10	79	4	1.90	320.0	0.32	7.3	0.30
	U	121.387472	0.82	124.83	10	79	4	1.90	326.1	0.32	7.6	0.45
2C077007	L	121.387472	2.34	25.25	2	19	3	4.67	393.2	0.57	3.5	0.20
	U	121.387472	2.34	19.19	2	14	3	4.67	417.6	0.57	2.4	0.20

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
2C077022	L	121.387472	5.07	13.13	1	9	3	5.05	524.2	0.63	5.1	0.10
	U	121.387472	5.07	2.18	1	2	2	5.05	554.7	0.63	2.7	0.10
2C077023	L	121.387472	4.93	12.77	1	8	3	7.71	234.7	4.08	2.6	0.30
	U	121.387472	4.93	0.34	1	1	1	7.71	527.3	4.08	1.4	0.20
2C077024	L	121.387472	2.14	14.97	2	14	3	4.76	240.8	1.69	4.4	0.20
	U	121.387472	2.14	9.43	2	11	3	4.76	320.0	1.69	3.0	0.30
2C088002	L	0.000000	0.67	16.08	3	.	.	1.53	.	.	.	.
	U	0.000000	0.67	14.35	3	.	.	1.53	.	.	.	.
2C088003	L	121.387472	0.81	2.10	1	2	2	1.98	399.3	3.34	2.3	0.06
	U	121.387472	0.81	0.13	1	1	1	1.98	445.0	3.34	0.3	0.03
2C088004	L	121.387472	1.26	3.26	1	1	1	3.33	408.4	0.66	2.8	0.15
	U	121.387472	1.26	0.23	1	1	1	3.33	429.7	0.66	0.3	0.04
2D072004	L	75.055557	1.85	4.79	1	7	3	4.10	143.2	0.64	2.9	0.34
	U	75.055557	1.85	0.18	1	1	1	4.10	167.6	0.64	0.8	0.12
2D072013	L	75.055557	1.53	3.96	1	10	3	3.07	210.3	0.92	1.5	0.18
	U	75.055557	1.53	0.54	1	1	1	3.07	231.6	0.92	1.5	0.10
2D073003	L	75.055557	4.56	11.81	1	13	3	4.33	457.2	2.23	8.0	0.40
	U	75.055557	4.56	1.92	1	6	3	4.33	512.0	2.23	4.0	0.50
2D073004	L	75.055557	1.85	4.79	1	5	2	2.57	518.1	3.12	2.7	0.40
	U	75.055557	1.85	1.50	1	2	2	2.57	563.9	3.12	2.8	0.10
2D073009	L	75.055557	6.46	16.73	1	52	4	7.06	362.7	2.95	8.0	0.50
	U	75.055557	6.46	3.24	1	14	3	7.06	554.7	2.95	1.6	0.10
2D073024	L	142.222222	0.45	44.60	3	26	3	1.34	320.0	0.85	8.0	0.25
	U	142.222222	0.45	43.43	3	26	3	1.34	330.7	0.85	8.5	1.00
2D073025	L	130.612245	0.49	51.07	3	23	3	1.63	381.0	0.78	5.0	0.15
	U	130.612245	0.49	49.80	3	23	3	1.63	393.2	0.78	9.4	0.65
2D073026	L	75.055557	2.86	33.85	2	21	4	2.09	234.7	0.99	4.0	0.30
	U	75.055557	2.86	26.44	2	17	4	2.09	253.0	0.99	4.0	0.20
2D073027	L	75.055557	6.52	16.89	1	9	2	9.43	285.0	1.91	7.0	0.60
	U	75.055557	6.52	0.44	1	1	1	9.43	452.6	1.91	1.8	0.15

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
2D073029	L	75.055557	6.30	16.32	1	10	3	7.24	249.9	1.34	4.3	0.48
	U	75.055557	6.30	1.40	1	1	1	7.24	323.1	1.34	1.3	0.24
2D073036	L	75.055557	2.42	122.47	7	50	4	3.52	228.6	0.32	10.0	0.50
	U	75.055557	2.42	116.20	7	50	4	3.52	236.2	0.32	15.0	1.70
2D073044	L	75.055557	4.42	11.45	1	4	2	6.68	141.7	1.34	6.0	0.30
	U	75.055557	4.42	2.93	1	1	1	6.68	199.6	1.34	0.8	0.03
2D073048	L	75.055557	1.95	5.05	1	1	1	3.93	132.6	2.86	2.3	0.20
	U	75.055557	1.95	0.75	1	1	1	3.93	240.8	2.86	1.1	0.10
2D073052	L	75.055557	2.94	7.61	1	4	2	4.44	185.9	1.36	1.0	0.10
	U	75.055557	2.94	1.66	1	3	2	4.44	237.7	1.36	2.7	0.10
2D073053	L	172.972973	0.37	69.15	5	53	4	0.45	149.3	0.36	13.0	0.80
	U	172.972973	0.37	68.19	5	38	4	0.45	150.9	0.36	6.0	0.30
2D073057	L	87.671233	0.73	1.89	1	1	1	3.12	105.2	0.04	0.8	0.06
	U	87.671233	0.73	0.73	1	1	1	3.12	106.1	0.04	1.8	0.10
2D073066	L	75.055557	2.76	83.52	6	55	4	5.42	126.5	0.36	10.0	0.50
	U	75.055557	2.76	76.37	6	47	4	5.42	144.8	0.36	10.0	0.80
2D073075	L	75.055557	4.92	12.74	1	13	3	3.51	118.9	1.43	5.7	0.32
	U	75.055557	4.92	0.28	1	1	1	3.51	167.6	1.43	2.1	0.11
2D073080	L	75.055557	11.31	79.76	3	89	4	10.44	102.1	0.42	3.0	0.60
	U	75.055557	11.31	50.47	3	70	4	10.44	125.0	0.42	6.8	1.20
2D073086	L	75.055557	4.38	11.34	1	17	3	7.26	120.4	0.50	4.4	0.23
	U	75.055557	4.38	0.18	1	1	1	7.26	150.9	0.50	2.1	0.90
2D073092	L	139.130435	0.46	1.19	1	1	1	2.85	89.6	0.07	6.0	0.20
	U	139.130435	0.46	0.05	1	1	1	2.85	90.8	0.07	5.0	0.20
2D073099	L	75.055557	1.99	5.15	1	3	2	3.89	94.5	0.75	3.5	0.20
	U	75.055557	1.99	0.91	1	1	1	3.89	121.9	0.75	0.9	0.10
2D073100	L	75.055557	17.23	44.62	1	12	3	8.24	202.7	1.12	5.8	0.45
	U	75.055557	17.23	1.22	1	1	1	8.24	274.3	1.12	4.2	0.25
2D073106	L	290.909091	0.22	67.83	2	20	4	0.92	88.4	0.18	6.8	1.13
	U	290.909091	0.22	67.26	2	19	4	0.92	89.9	0.18	8.1	0.58

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
2D074006	L	75.055557	3.11	8.05	1	9	3	6.97	180.4	1.04	3.2	0.28
	U	75.055557	3.11	3.50	1	2	2	6.97	243.8	1.04	3.9	0.19
2D074009	L	75.055557	7.21	124.75	7	116	4	6.97	96.0	0.29	11.6	0.32
	U	75.055557	7.21	106.08	7	97	4	6.97	115.2	0.29	6.9	0.80
2D074012	L	75.055557	0.90	2.33	1	5	2	4.30	65.2	0.44	3.4	0.77
	U	75.055557	0.90	0.60	1	1	1	4.30	82.0	0.44	0.6	0.09
2D083027	L	75.055557	5.13	13.29	1	9	3	5.97	204.2	1.03	2.5	0.10
	U	75.055557	5.13	0.05	1	1	1	5.97	262.1	1.03	0.6	0.16
2D083039	L	75.055557	6.31	16.34	1	7	3	6.02	267.9	1.11	10.0	1.00
	U	75.055557	6.31	1.92	1	3	2	6.02	325.8	1.11	5.5	0.09
2D083076	L	75.055557	5.86	15.18	1	5	2	11.38	214.9	0.72	5.0	0.60
	U	75.055557	5.86	0.03	1	1	1	11.38	294.4	0.72	1.0	0.20
2D083081	L	75.055557	10.97	28.41	1	9	3	13.45	164.6	0.72	4.0	0.25
	U	75.055557	10.97	0.13	1	1	1	13.45	256.0	0.72	1.5	0.18
2D083086	L	75.055557	1.84	24.08	2	7	3	3.83	149.3	0.34	3.2	0.06
	U	75.055557	1.84	19.32	2	6	3	3.83	161.2	0.34	5.0	0.20
2D083096	L	75.055557	3.95	10.23	1	4	2	8.18	133.5	1.29	4.0	0.80
	U	75.055557	3.95	0.00	1	1	1	8.18	175.6	1.29	1.4	0.15
2D083098	L	75.055557	8.97	23.23	1	23	3	12.57	131.7	0.35	5.0	1.50
	U	75.055557	8.97	0.18	1	1	1	12.57	170.7	0.35	0.7	0.06
2D084013	L	75.055557	8.85	22.92	1	19	3	11.55	81.4	0.30	10.4	1.90
	U	75.055557	8.85	0.80	1	9	3	11.55	102.7	0.30	7.0	0.28
2D084022	L	75.055557	7.41	19.19	1	8	3	7.72	140.5	1.48	4.5	0.30
	U	75.055557	7.41	2.64	1	2	2	7.72	247.5	1.48	2.5	0.20
2D084025	L	75.055557	0.95	2.46	1	1	1	2.25	89.0	2.31	1.5	0.14
	U	75.055557	0.95	0.03	1	1	1	2.25	128.0	2.31	0.7	0.11
2D084033	L	75.055557	3.62	90.02	2	34	4	17.38	210.0	0.65	12.0	0.61
	U	75.055557	3.62	80.64	2	2	2	17.38	321.9	0.65	1.9	0.18
2D084041	L	75.055557	5.32	13.78	1	3	2	8.71	227.7	0.84	7.0	0.15
	U	75.055557	5.32	0.78	1	2	2	8.71	257.5	0.84	5.0	0.09

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
2D084051	L	75.055557	4.25	11.01	1	3	2	4.23	331.3	1.15	10.7	0.27
	U	75.055557	4.25	0.10	1	1	1	4.23	377.6	1.15	4.7	0.21
2D084052	L	75.055557	4.82	12.48	1	4	2	8.67	222.5	0.79	6.4	0.21
	U	75.055557	4.82	0.05	1	1	1	8.67	281.9	0.79	1.1	0.12
2D084054	L	75.055557	2.88	7.46	1	1	1	8.90	222.5	1.62	4.1	0.18
	U	75.055557	2.88	0.78	1	1	1	8.90	364.2	1.62	1.6	0.15
2D084058	L	75.055557	4.95	54.02	3	25	3	4.12	95.1	0.60	8.0	0.18
	U	75.055557	4.95	41.20	3	17	3	4.12	118.9	0.60	10.0	0.40
2D084077	L	152.380952	0.42	1.09	1	1	1	1.46	125.6	3.57	2.0	0.20
	U	152.380952	0.42	0.08	1	1	1	1.46	164.6	3.57	1.2	0.15
2D084079	L	75.055557	2.47	6.40	1	4	2	5.13	109.1	0.64	2.3	0.06
	U	75.055557	2.47	0.57	1	1	1	5.13	137.2	0.64	0.8	0.09
2D084082	L	75.055557	2.27	5.88	1	5	3	5.44	142.9	0.74	3.8	0.24
	U	75.055557	2.27	0.85	1	2	2	5.44	180.4	0.74	0.8	0.15
2D093005	L	75.055557	7.76	20.10	1	13	3	11.68	91.4	0.29	8.0	2.50
	U	75.055557	7.76	0.08	1	1	1	11.68	125.0	0.29	0.5	0.10
2D093007	L	75.055557	2.58	6.68	1	2	2	5.94	96.9	1.06	0.1	1.80
	U	75.055557	2.58	0.39	1	1	1	5.94	120.4	1.06	0.9	0.40
2D093008	L	75.055557	2.13	5.52	1	5	2	4.09	96.0	0.79	13.0	0.40
	U	75.055557	2.13	0.91	1	1	1	4.09	126.5	0.79	1.8	0.06
2D094009	L	75.055557	4.30	11.14	1	11	3	3.88	105.2	0.21	2.5	0.30
	U	75.055557	4.30	5.36	1	8	3	3.88	111.2	0.21	1.5	0.10
3A058013	L	228.571429	0.28	0.73	1	1	1	1.58	164.6	2.84	1.2	0.10
	U	228.571429	0.28	0.10	1	1	1	1.58	192.0	2.84	1.4	0.10
3A058014	L	157.960303	0.59	1.53	1	1	1	2.20	146.3	1.79	0.7	0.10
	U	157.960303	0.59	0.03	1	1	1	2.20	182.9	1.79	0.9	0.10
3A068007	L	157.960303	10.66	103.98	5	100	4	13.65	249.9	0.30	8.7	0.40
	U	157.960303	10.66	76.37	5	69	4	13.65	289.5	0.30	11.3	0.60
3A068012	L	157.960303	5.88	15.23	1	17	3	10.96	288.0	0.87	5.5	0.50
	U	157.960303	5.88	7.54	1	7	3	10.96	336.8	0.87	2.5	0.10

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
3A068020	L	157.960303	5.42	14.04	1	12	3	7.89	272.8	0.65	2.8	0.20
	U	157.960303	5.42	4.77	1	6	3	7.89	320.0	0.65	2.1	0.08
3A069003	L	157.960303	6.35	98.80	7	104	4	2.51	205.7	0.18	6.0	0.20
	U	157.960303	6.35	82.35	7	100	4	2.51	210.3	0.18	4.0	0.30
3A079012	L	157.960303	5.57	14.42	1	4	2	8.69	303.3	1.45	8.3	0.60
	U	157.960303	5.57	0.13	1	1	1	8.69	423.7	1.45	1.3	0.10
3A086009	L	157.960303	1.05	53.40	4	63	4	2.82	108.2	0.12	4.3	0.60
	U	157.960303	1.05	50.68	4	61	4	2.82	111.2	0.12	7.1	0.36
3A086010	L	157.960303	1.82	4.71	1	4	2	3.57	132.6	0.60	1.8	0.10
	U	157.960303	1.82	0.41	1	1	1	3.57	152.4	0.60	0.3	0.05
3A086015	L	157.960303	2.23	5.78	1	.	.	2.96	.	.	.	.
	U	157.960303	2.23	.	1	.	.	2.96	.	.	.	.
3A086024	L	157.960303	4.92	20.33	2	20	3	4.41	150.9	0.36	6.9	0.27
	U	157.960303	4.92	7.59	2	8	3	4.41	163.1	0.36	2.3	0.10
3A087008	L	157.960303	1.89	51.82	5	44	3	4.10	152.1	0.23	14.6	0.20
	U	157.960303	1.89	46.93	5	41	3	4.10	161.2	0.23	6.5	0.80
3A088006	L	157.960303	1.41	3.65	1	1	1	2.08	239.3	1.76	.	.
	U	157.960303	1.41	0.05	1	1	1	2.08	268.2	1.76	.	.
3A088012	L	157.960303	2.19	5.67	1	4	2	3.73	298.7	1.99	1.6	0.18
	U	157.960303	2.19	0.34	1	2	2	3.73	347.5	1.99	1.3	0.11
3A088022	L	157.960303	0.55	7.07	2	3	2	1.79	297.8	0.39	1.4	0.10
	U	157.960303	0.55	5.65	2	3	2	1.79	303.9	0.39	2.1	0.18
3A088025	L	157.960303	1.44	3.73	1	4	2	2.98	230.7	1.48	0.3	0.03
	U	157.960303	1.44	0.10	1	1	1	2.98	271.3	1.48	0.4	0.09
3A088028	L	157.960303	0.46	1.19	1	1	1	1.40	303.3	1.39	1.0	0.09
	U	157.960303	0.46	0.18	1	1	1	1.40	320.0	1.39	0.9	0.03
3A089002	L	157.960303	0.96	2.49	1	1	1	3.09	246.0	0.81	1.8	0.10
	U	157.960303	0.96	0.60	1	1	1	3.09	268.2	0.81	1.9	0.10
3A089004	L	157.960303	1.49	3.86	1	20	3	5.52	263.6	1.06	5.7	0.10
	U	157.960303	1.49	3.19	1	3	2	5.52	310.3	1.06	3.3	0.10

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
3A089013	L	157.960303	0.58	44.23	2	37	4	2.35	239.3	0.16	5.9	0.20
	U	157.960303	0.58	42.73	2	33	4	2.35	242.3	0.16	2.0	0.20
3A089024	L	157.960303	0.66	1.71	1	1	1	1.90	204.2	2.01	3.7	0.20
	U	157.960303	0.66	0.31	1	1	1	1.90	240.8	2.01	0.8	0.08
3A089068	L	157.960303	5.93	15.36	1	11	3	7.79	214.9	0.48	2.6	0.15
	U	157.960303	5.93	0.23	1	2	2	7.79	246.9	0.48	1.4	0.03
3A089086	L	157.960303	5.08	13.16	1	9	3	8.27	425.2	0.86	7.6	0.30
	U	157.960303	5.08	2.23	1	3	2	8.27	467.8	0.86	2.6	0.10
3A097026	L	157.960303	1.81	15.25	2	11	3	4.15	74.7	0.39	3.7	0.70
	U	157.960303	1.81	10.57	2	8	3	4.15	89.9	0.39	0.6	0.10
3A097029	L	157.960303	1.11	2.87	1	2	2	2.49	89.9	2.84	1.4	0.15
	U	157.960303	1.11	0.05	1	1	1	2.49	149.3	2.84	0.5	0.15
3A097031	L	157.960303	8.69	22.50	1	6	3	8.26	82.3	0.22	2.8	0.50
	U	157.960303	8.69	3.83	1	3	2	8.26	85.3	0.22	5.1	0.60
3A098011	L	157.960303	3.09	8.00	1	8	2	5.23	304.2	0.96	6.7	0.30
	U	157.960303	3.09	0.80	1	1	1	5.23	347.2	0.96	1.7	0.10
3A098025	L	157.960303	1.43	3.70	1	6	3	2.94	315.1	1.59	1.8	0.20
	U	157.960303	1.43	0.39	1	1	1	2.94	354.5	1.59	0.4	0.03
3A098034	L	157.960303	1.12	2.90	1	3	2	2.11	267.9	1.88	0.9	0.05
	U	157.960303	1.12	0.31	1	1	1	2.11	306.0	1.88	1.4	0.06
3A098038	L	157.960303	0.81	92.17	9	92	5	1.13	224.9	0.09	7.8	0.20
	U	157.960303	0.81	90.07	9	92	5	1.13	225.8	0.09	8.6	0.30
3A098039	L	157.960303	0.47	1.22	1	2	2	1.72	264.6	0.74	0.9	0.12
	U	157.960303	0.47	0.10	1	1	1	1.72	274.0	0.74	1.1	0.10
3A098069	L	157.960303	3.80	9.84	1	6	3	3.80	223.7	0.49	1.8	0.17
	U	157.960303	3.80	3.16	1	3	2	3.80	239.3	0.49	2.0	0.10
3A098075	L	157.960303	8.57	22.19	1	26	4	7.27	187.4	0.43	5.2	0.24
	U	157.960303	8.57	2.49	1	5	3	7.27	213.3	0.43	1.7	0.20
3A098078	L	157.960303	2.53	6.55	1	9	3	3.51	192.6	0.44	3.7	0.20
	U	157.960303	2.53	2.20	1	4	3	3.51	207.3	0.44	1.0	0.20

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
3A098082	L	157.960303	2.67	6.91	1	4	2	2.85	202.4	0.41	3.8	0.10
	U	157.960303	2.67	1.92	1	3	2	2.85	213.3	0.41	2.1	0.20
3A099019	L	157.960303	2.31	26.49	2	24	4	3.88	137.2	0.29	1.3	0.20
	U	157.960303	2.31	20.51	2	21	4	3.88	147.8	0.29	5.1	0.10
3A099027	L	157.960303	3.10	8.03	1	5	2	4.33	157.0	0.60	3.4	0.10
	U	157.960303	3.10	0.91	1	1	1	4.33	181.3	0.60	1.5	0.10
3A099037	L	157.960303	9.77	25.30	1	28	4	10.28	147.8	0.48	0.1	4.10
	U	157.960303	9.77	0.85	1	3	2	10.28	185.9	0.48	0.5	0.10
3A099051	L	157.960303	3.68	10.07	3	65	4	4.62	131.1	0.14	7.6	0.20
	U	157.960303	3.68	0.54	3	56	4	4.62	137.2	0.14	4.9	0.20
3A099052	L	177.777778	0.36	16.99	2	14	3	1.53	143.2	0.44	2.3	0.24
	U	177.777778	0.36	16.06	2	13	3	1.53	149.3	0.44	4.3	0.12
3A099062	L	157.960303	1.11	2.87	1	1	1	1.80	140.2	1.23	.	.
	U	157.960303	1.11	0.28	1	1	1	1.80	156.0	1.23	0.2	0.03
3A106008	L	157.960303	2.78	7.20	1	8	3	3.72	131.1	0.57	1.0	0.10
	U	157.960303	2.78	0.34	1	1	1	3.72	149.3	0.57	0.9	0.10
3A106020	L	157.960303	6.43	45.19	2	38	4	5.07	80.8	0.09	2.1	0.60
	U	157.960303	6.43	28.54	2	31	4	5.07	83.8	0.09	8.9	1.60
3A106023	L	157.960303	2.78	7.20	1	5	2	2.17	106.7	0.62	3.0	0.10
	U	157.960303	2.78	3.88	1	3	2	2.17	118.9	0.62	1.9	0.10
3A106029	L	157.960303	15.75	67.07	2	51	3	13.15	121.9	0.28	9.8	0.15
	U	157.960303	15.75	26.29	2	16	3	13.15	157.0	0.28	8.5	0.80
3A106035	L	157.960303	0.62	1.61	1	2	2	1.96	88.4	0.49	1.2	0.10
	U	157.960303	0.62	2.30	1	2	2	1.96	96.0	0.49	1.0	1.50
3A107010	L	157.960303	0.69	17.71	2	9	3	1.58	230.1	0.50	3.7	0.30
	U	157.960303	0.69	15.93	2	9	3	1.58	237.7	0.50	2.9	0.30
3A107034	L	157.960303	0.95	2.46	1	3	2	2.19	181.3	0.63	1.2	0.10
	U	157.960303	0.95	0.23	1	1	1	2.19	193.5	0.63	1.0	0.10
3A107037	L	157.960303	5.17	13.39	1	16	3	6.28	141.7	0.66	9.1	1.52
	U	157.960303	5.17	2.12	1	6	3	6.28	179.8	0.66	0.3	0.05

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
3A107041	L	157.960303	3.26	8.44	1	5	2	3.97	163.1	0.56	3.5	0.20
	U	157.960303	3.26	1.06	1	2	2	3.97	184.4	0.56	1.0	0.10
3B036002	L	238.806172	1.43	3.70	1	8	3	9.12	125.3	1.84	5.0	0.15
	U	238.806172	1.43	0.21	1	1	1	9.12	290.2	1.84	1.0	0.08
3B037006	L	238.806172	0.63	41.95	2	48	4	0.90	7.6	0.24	25.0	1.00
	U	238.806172	0.63	40.32	2	45	4	0.90	9.1	0.24	5.0	1.50
3B037023	L	8.579088	7.46	19.32	1	14	3	10.11	27.4	0.14	3.5	0.37
	U	8.579088	7.46	0.26	1	3	2	10.11	38.1	0.14	1.3	0.40
3B037024	L	11.636364	5.50	14.24	1	12	3	6.21	21.3	0.22	1.5	0.20
	U	11.636364	5.50	0.70	1	1	1	6.21	35.1	0.22	0.3	0.20
3B042006	L	238.806172	2.41	6.24	1	1	1	4.44	164.6	1.63	1.5	0.20
	U	238.806172	2.41	0.36	1	1	1	4.44	234.7	1.63	0.6	0.20
3B042010	L	238.806172	0.87	26.88	4	7	3	1.34	33.5	0.90	3.0	0.20
	U	238.806172	0.87	24.63	4	7	3	1.34	39.6	0.90	2.5	0.30
3B042017	L	238.806172	2.86	7.41	1	8	2	6.13	137.2	1.33	3.5	0.20
	U	238.806172	2.86	0.44	1	1	1	6.13	210.3	1.33	1.5	0.10
3B042036	L	197.867971	0.35	0.91	1	1	1	1.63	88.4	2.19	3.0	0.05
	U	197.867971	0.35	0.18	1	1	1	1.63	121.9	2.19	1.0	0.05
3B042041	L	238.806172	0.27	28.59	7	19	4	1.42	3.7	0.16	15.0	0.75
	U	238.806172	0.27	27.89	7	19	4	1.42	4.6	0.16	15.0	0.61
3B042042	L	238.806172	1.34	16.03	4	13	3	2.90	96.0	0.36	4.5	0.40
	U	238.806172	1.34	12.56	4	11	3	2.90	105.2	0.36	2.5	0.25
3B043001	L	238.806172	6.87	17.79	1	3	2	8.22	135.6	0.98	7.0	0.30
	U	238.806172	6.87	0.85	1	1	1	8.22	212.7	0.98	0.3	0.10
3B043010	L	238.806172	0.27	70.39	7	92	4	5.20	10.7	0.13	9.0	1.00
	U	238.806172	0.27	69.69	7	78	4	5.20	16.8	0.13	3.0	2.00
3B043012	L	26.556017	2.41	6.24	1	4	2	5.83	13.7	0.20	1.5	0.40
	U	26.556017	2.41	0.44	1	2	2	5.83	19.8	0.20	2.1	0.10
3B043021	L	32.323232	1.98	5.13	1	4	3	3.80	15.2	0.46	3.5	0.30
	U	32.323232	1.98	0.57	1	2	2	3.80	29.0	0.46	1.9	0.10

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
3B043023	L	6.639004	9.64	24.97	1	19	3	9.49	27.4	0.15	6.0	1.25
	U	6.639004	9.64	0.73	1	4	2	9.49	35.1	0.15	1.0	0.15
3B043024	L	7.142857	8.96	23.20	1	18	3	13.63	7.6	0.19	3.3	0.33
	U	7.142857	8.96	2.07	1	10	3	13.63	25.9	0.19	3.0	0.40
3B043032	L	238.806172	7.65	19.81	1	2	2	8.56	29.0	0.17	7.0	0.50
	U	238.806172	7.65	1.04	1	1	1	8.56	41.1	0.17	1.0	0.20
3B043033	L	2.922374	21.90	56.72	1	13	3	20.23	15.2	0.12	5.0	1.50
	U	2.922374	21.90	31.28	1	9	3	20.23	23.8	0.12	2.0	1.50
3B043034	L	19.335347	3.31	8.57	1	6	2	7.31	13.7	0.08	9.0	4.00
	U	19.335347	3.31	0.08	1	3	2	7.31	18.3	0.08	1.0	1.20
3B043035	L	65.979381	0.97	131.97	6	54	4	1.16	16.8	0.09	15.0	1.50
	U	65.979381	0.97	129.46	6	54	4	1.16	17.7	0.09	8.0	4.00
3B043053	L	238.806172	1.55	4.01	1	2	2	3.64	12.2	0.53	1.3	0.50
	U	238.806172	1.55	0.65	1	2	2	3.64	22.9	0.53	2.3	0.17
3B043055	L	3.333333	19.20	49.72	1	20	3	14.32	7.6	0.15	6.0	0.50
	U	3.333333	19.20	0.26	1	1	1	14.32	28.0	0.15	0.5	0.02
3B043061	L	238.806172	5.61	58.04	3	.	.	7.64	.	.	.	.
	U	238.806172	5.61	43.51	3	.	.	7.64	.	.	900.0	2.00
3B043067	L	16.080402	3.98	10.31	1	2	2	4.65	7.6	0.30	5.0	0.20
	U	16.080402	3.98	1.50	1	1	1	4.65	18.0	0.30	0.1	0.03
3B043077	L	52.032520	1.23	20.74	2	9	3	2.25	1.5	0.05	.	.
	U	52.032520	1.23	17.56	2	8	3	2.25	2.4	0.05	100.0	1.00
3B043079	L	238.806172	2.56	6.63	1	4	2	3.97	11.6	0.16	3.0	0.50
	U	238.806172	2.56	1.40	1	1	1	3.97	15.2	0.16	1.5	0.30
3B047003	L	93.351504	1.10	2.85	1	3	2	2.80	89.9	0.92	1.4	0.10
	U	93.351504	1.10	0.57	1	1	1	2.80	109.7	0.92	1.0	0.04
3B048023	L	238.806172	1.97	5.10	1	3	2	2.86	45.7	0.43	3.0	0.20
	U	238.806172	1.97	0.18	1	1	1	2.86	57.9	0.43	4.9	0.05
3B048029	L	238.806172	0.75	1.94	1	2	2	3.22	54.3	0.65	1.3	0.05
	U	238.806172	0.75	0.18	1	1	1	3.22	71.6	0.65	0.3	0.04

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
3B048034	L	238.806172	0.49	1.27	1	1	1	1.87	39.6	1.01	2.6	0.10
	U	238.806172	0.49	0.26	1	1	1	1.87	57.9	1.01	1.3	0.10
3B048046	L	238.806172	0.85	2.20	1	1	1	2.85	10.7	1.14	1.8	0.09
	U	238.806172	0.85	0.05	1	1	1	2.85	42.7	1.14	1.0	0.05
3B048063	L	238.806172	0.42	1.09	1	2	2	1.42	9.1	1.43	1.2	0.10
	U	238.806172	0.42	0.10	1	1	1	1.42	21.3	1.43	0.9	0.10
3B048065	L	307.036507	0.21	0.54	1	1	1	1.83	0.6	0.02	3.0	0.60
	U	307.036507	0.21	0.03	1	1	1	1.83	0.9	0.02	10.0	0.30
3B048082	L	238.806172	2.91	7.54	1	8	3	5.42	19.8	0.91	1.5	0.30
	U	238.806172	2.91	0.13	1	1	1	5.42	63.4	0.91	0.4	0.10
3B048094	L	238.806172	2.62	53.74	3	44	4	4.28	70.7	0.10	1.5	0.30
	U	238.806172	2.62	46.95	3	35	3	4.28	74.7	0.10	2.5	0.70
3B048101	L	238.806172	2.16	5.59	1	8	2	3.73	1.5	0.53	1.9	0.28
	U	238.806172	2.16	0.16	1	5	2	3.73	14.6	0.53	1.1	0.08
3B049010	L	238.806172	1.30	3.37	1	4	2	3.81	10.7	0.12	4.0	0.50
	U	238.806172	1.30	0.03	1	1	1	3.81	15.2	0.12	4.0	1.00
3B049011	L	238.806172	0.93	2.41	1	3	2	2.38	15.2	-0.07	4.0	0.50
	U	238.806172	0.93	0.73	1	1	1	2.38	13.7	-0.07	4.0	0.50
3B049022	L	238.806172	2.13	5.52	1	1	1	3.99	4.6	0.14	5.0	0.20
	U	238.806172	2.13	2.72	1	1	1	3.99	7.6	0.14	10.0	0.20
3B049031	L	125.799680	1.12	2.90	1	1	1	3.28	10.4	0.05	2.5	0.30
	U	125.799680	1.12	0.57	1	1	1	3.28	11.9	0.05	1.0	0.30
3B058021	L	238.806172	1.20	3.11	1	4	2	1.58	147.8	0.72	1.6	0.20
	U	238.806172	1.20	1.48	1	3	2	1.58	157.0	0.72	2.3	0.10
3B058023	L	238.806172	3.07	7.95	1	9	3	5.17	79.2	0.63	1.6	0.10
	U	238.806172	3.07	1.50	1	1	1	5.17	105.2	0.63	3.1	0.10
3B059007	L	238.806172	1.80	4.66	1	4	2	4.10	57.3	0.58	4.0	0.80
	U	238.806172	1.80	0.10	1	1	1	4.10	79.9	0.58	1.0	0.10
3B059009	L	238.806172	2.13	66.66	13	92	4	4.18	21.0	0.17	8.0	0.30
	U	238.806172	2.13	61.14	13	71	4	4.18	27.1	0.17	4.0	0.50

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
3B059013	L	238.806172	1.13	2.93	1	2	2	3.33	0.3	0.73	2.1	0.25
	U	238.806172	1.13	0.18	1	1	1	3.33	21.9	0.73	0.5	0.07
3B059029	L	238.806172	1.32	3.42	1	2	2	2.53	10.7	0.75	1.0	0.10
	U	238.806172	1.32	0.23	1	1	1	2.53	25.9	0.75	0.9	0.04
3B059034	L	238.806172	1.85	4.79	1	2	2	3.70	34.4	0.63	1.5	0.30
	U	238.806172	1.85	0.08	1	1	1	3.70	56.1	0.63	0.5	0.10
3B059038	L	320.000000	0.08	18.59	2	16	3	0.63	5.5	0.23	5.0	1.00
	U	320.000000	0.08	18.39	2	15	3	0.63	6.7	0.23	6.0	1.25
3B059073	L	238.806172	1.07	2.77	1	3	2	3.38	1.5	0.37	5.1	1.11
	U	238.806172	1.07	0.03	1	1	1	3.38	11.9	0.37	0.7	0.08
3B059075	L	238.806172	5.17	13.39	1	33	3	1.85	1.2	0.07	30.0	3.00
	U	238.806172	5.17	11.68	1	3	2	1.85	2.4	0.07	20.0	3.00
3B059080	L	238.806172	0.33	18.05	2	14	3	1.03	73.1	0.37	75.0	1.00
	U	238.806172	0.33	17.20	2	14	3	1.03	76.5	0.37	4.0	1.25
3B059090	L	238.806172	1.84	4.77	1	11	2	4.20	0.6	0.22	8.0	1.00
	U	238.806172	1.84	2.98	1	3	2	4.20	3.0	0.22	2.3	0.30
3B059105	L	238.806172	1.00	2.59	1	1	1	3.51	1.2	0.69	2.0	0.20
	U	238.806172	1.00	0.26	1	1	1	3.51	22.6	0.69	1.0	0.06
3B070004	L	238.806172	0.46	20.54	2	6	2	2.08	14.6	0.33	1.7	0.20
	U	238.806172	0.46	19.35	2	6	2	2.08	19.5	0.33	8.0	0.25
3B070009	L	238.806172	3.78	21.05	2	9	3	5.71	1.2	0.13	6.0	0.75
	U	238.806172	3.78	11.27	2	7	3	5.71	5.8	0.13	7.8	0.30
3B070015	L	238.806172	0.34	12.51	5	11	3	0.87	22.2	0.08	5.0	0.80
	U	238.806172	0.34	11.63	5	10	3	0.87	22.9	0.08	5.0	1.00
3B070024	L	238.806172	0.39	1.01	1	1	1	0.95	26.8	0.77	1.7	0.20
	U	238.806172	0.39	0.28	1	1	1	0.95	32.3	0.77	0.7	0.07
3B070043	L	320.000000	0.18	126.98	4	21	4	0.82	0.9	0.05	40.0	3.00
	U	320.000000	0.18	126.51	4	21	4	0.82	1.2	0.05	35.0	5.00
3B070050	L	238.806172	0.67	16.42	2	22	3	1.77	5.5	0.16	3.2	0.38
	U	238.806172	0.67	14.68	2	22	3	1.77	7.6	0.16	2.9	0.20

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRHDP
3B070058	L	238.806172	16.91	43.79	1	18	3	15.63	20.1	0.12	15.0	0.50
	U	238.806172	16.91	3.47	1	2	2	15.63	38.7	0.12	1.5	0.20
3B070059	L	238.806172	3.90	10.10	1	5	2	4.14	14.0	0.27	2.0	0.40
	U	238.806172	3.90	1.09	1	1	1	4.14	24.4	0.27	2.0	0.45
3B070075	L	238.806172	0.47	18.52	4	3	2	1.48	1.5	0.11	4.2	0.52
	U	238.806172	0.47	17.30	4	3	2	1.48	3.0	0.11	4.0	0.50
3C123008	L	32.015297	2.82	129.69	9	126	4	3.11	26.2	0.13	9.0	0.01
	U	32.015297	2.82	122.39	9	116	4	3.11	30.2	0.13	7.0	0.08
3C123009	L	48.868778	1.36	23.02	2	5	3	2.20	16.8	0.16	8.0	0.30
	U	48.868778	1.36	19.50	2	5	3	2.20	19.8	0.16	8.0	0.80
3C123010	L	0.000000	3.99	10.33	1	.	.	4.99	.	.	.	.
	U	0.000000	3.99	.	1	.	.	4.99	.	.	2.0	0.10
3C123011	L	36.317781	1.83	4.74	1	2	2	4.26	33.5	0.52	3.1	0.20
	U	36.317781	1.83	0.49	1	1	1	4.26	53.3	0.52	0.6	0.06
3C123013	L	32.015297	4.10	10.62	1	10	3	6.45	32.0	0.32	5.0	0.30
	U	32.015297	4.10	0.05	1	2	2	6.45	47.2	0.32	4.0	0.30
3C123016	L	32.015297	5.50	14.24	1	3	2	6.08	4.6	0.41	6.0	0.33
	U	32.015297	5.50	3.76	1	1	1	6.08	27.4	0.41	1.6	0.18
3C123017	L	32.015297	3.24	8.39	1	3	2	5.97	1.5	0.41	5.5	0.80
	U	32.015297	3.24	0.98	1	1	1	5.97	25.9	0.41	1.2	0.07
3C123018	L	32.015297	3.21	8.31	1	2	2	5.20	6.1	0.50	5.5	0.20
	U	32.015297	3.21	1.55	1	2	2	5.20	25.9	0.50	1.5	0.40
3C124001	L	32.901752	2.02	5.23	1	10	3	5.02	19.8	0.35	8.0	0.03
	U	32.901752	2.02	0.16	1	2	2	5.02	35.1	0.35	10.0	0.08
3C124002	L	32.015297	2.48	6.42	1	8	3	6.20	22.9	0.31	2.0	0.25
	U	32.015297	2.48	0.03	1	1	1	6.20	41.1	0.31	.	.
3C124003	L	83.076923	0.80	2.07	1	1	1	1.22	21.6	0.20	3.5	0.28
	U	83.076923	0.80	0.49	1	1	1	1.22	22.2	0.20	3.5	0.28
3C124006	L	37.129351	1.79	21.75	2	7	2	2.25	29.0	0.03	.	.
	U	37.129351	1.79	17.12	2	7	2	2.25	29.6	0.03	.	.

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
3C124010	L	32.015297	2.24	5.80	1	1	1	3.32	19.8	0.03	.	.
	U	32.015297	2.24	0.05	1	1	1	3.32	20.7	0.03	4.5	0.40
3C124012	L	32.015297	8.69	22.50	1	8	3	8.03	30.5	0.20	0.3	0.15
	U	32.015297	8.69	4.12	1	1	1	8.03	44.2	0.20	.	.
3C124015	L	32.015297	2.96	7.67	1	1	1	4.81	29.0	0.27	0.0	0.00
	U	32.015297	2.96	3.06	1	1	1	4.81	41.1	0.27	0.0	0.00
3C124018	L	53.169231	1.25	3.24	1	7	3	3.32	4.6	0.81	0.0	0.00
	U	53.169231	1.25	0.18	1	1	1	3.32	30.5	0.81	.	.
3C124019	L	38.640429	1.72	16.52	4	16	3	3.25	27.4	0.40	4.0	0.15
	U	38.640429	1.72	12.07	4	11	3	3.25	38.1	0.40	0.4	0.07
3C124020	L	32.015297	4.13	10.70	1	8	3	7.24	47.2	0.38	3.5	0.30
	U	32.015297	4.13	0.26	1	1	1	7.24	71.6	0.38	1.2	0.05
3C124021	L	46.153846	1.44	23.59	2	11	3	2.30	50.3	0.16	7.0	0.20
	U	46.153846	1.44	19.86	2	10	3	2.30	53.3	0.16	4.0	0.20
3C124023	L	32.015297	3.05	7.90	1	1	1	4.17	25.9	0.54	0.3	0.07
	U	32.015297	3.05	3.99	1	1	1	4.17	41.1	0.54	6.0	0.20
3C124025	L	32.015297	3.77	9.76	1	6	2	4.54	36.6	0.52	8.0	0.21
	U	32.015297	3.77	1.50	1	1	1	4.54	57.9	0.52	2.3	0.08
3C124026	L	32.015297	6.81	17.64	1	7	3	6.63	59.4	0.26	1.2	0.08
	U	32.015297	6.81	3.11	1	1	1	6.63	71.6	0.26	4.1	0.25
3C124028	L	32.015297	6.43	16.65	1	8	3	4.38	29.0	0.39	1.8	0.28
	U	32.015297	6.43	2.33	1	1	1	4.38	42.7	0.39	0.7	0.10
3C124032	L	38.640429	1.72	4.45	1	1	1	3.27	20.1	1.01	1.2	0.16
	U	38.640429	1.72	1.81	1	1	1	3.27	29.9	1.01	2.0	0.15
3C124034	L	32.015297	2.98	7.72	1	1	1	4.94	16.8	0.48	1.0	0.05
	U	32.015297	2.98	0.36	1	1	1	4.94	40.2	0.48	.	.
3C124036	L	38.866397	1.71	4.43	1	1	1	3.72	12.2	0.84	1.9	0.40
	U	38.866397	1.71	0.98	1	1	1	3.72	41.1	0.84	2.0	0.15
3C124038	L	68.517050	0.97	46.25	8	17	3	1.90	32.0	0.05	10.0	0.60
	U	68.517050	0.97	43.74	8	16	3	1.90	32.9	0.05	7.0	0.60

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
3C124045	L	32.015297	2.16	5.59	1	1	1	2.77	10.7	0.19	7.0	0.12
	U	32.015297	2.16	0.16	1	1	1	2.77	13.7	0.19	.	.
3C124047	L	35.164835	1.89	4.89	1	3	2	2.37	25.9	0.38	2.0	0.34
	U	35.164835	1.89	0.26	1	2	2	2.37	32.0	0.38	0.0	0.00
3C124049	L	39.326354	1.69	4.38	1	1	1	2.20	22.9	0.54	.	.
	U	39.326354	1.69	0.41	1	1	1	2.20	29.0	0.54	6.0	0.30
3C124050	L	55.384615	1.20	3.11	1	1	1	2.03	21.3	0.23	.	.
	U	55.384615	1.20	0.10	1	1	1	2.03	25.3	0.23	.	.
3C124052	L	35.164835	1.89	4.89	1	2	2	2.41	19.8	0.05	4.0	0.20
	U	35.164835	1.89	1.48	1	1	1	2.41	20.7	0.05	.	.
3C125002	L	86.313686	0.77	1.99	1	1	1	2.01	43.6	0.04	.	.
	U	86.313686	0.77	0.00	1	1	1	2.01	44.2	0.04	.	.
3C125003	L	32.015297	27.52	71.27	1	23	3	5.29	31.7	0.12	2.4	0.20
	U	32.015297	27.52	61.77	1	16	3	5.29	37.5	0.12	4.1	0.65
3C126003	L	32.015297	2.28	5.90	1	11	3	2.41	4.6	0.45	1.5	0.21
	U	32.015297	2.28	2.56	1	4	2	2.41	15.2	0.45	1.8	0.22
3C132004	L	32.015297	7.69	19.92	1	10	3	2.14	38.1	0.08	7.1	0.34
	U	32.015297	7.69	0.10	1	1	1	2.14	39.6	0.08	6.5	0.33
3C132006	L	49.971082	1.33	10.85	2	8	3	2.33	32.0	0.42	0.0	0.00
	U	49.971082	1.33	7.41	2	8	3	2.33	39.6	0.42	0.8	0.10
3C132009	L	76.392573	0.87	2.25	1	1	1	2.00	31.1	0.82	.	.
	U	76.392573	0.87	0.23	1	1	1	2.00	41.1	0.82	.	.
3C132011	L	32.015297	8.30	21.49	1	3	2	1.53	22.9	0.14	1.8	0.15
	U	32.015297	8.30	7.61	1	2	2	1.53	23.8	0.14	3.0	0.70
3C133001	L	0.000000	0.87	2.25	1	.	.	1.79	.	.	.	.
	U	0.000000	0.87	.	1	.	.	1.79	.	.	.	.
3C133002	L	170.414201	0.39	17.14	4	12	3	1.22	12.8	0.49	2.7	0.48
	U	170.414201	0.39	16.13	4	12	3	1.22	18.3	0.49	3.1	0.26
3C133003	L	66.461538	1.00	9.06	2	6	3	2.29	1.5	0.06	.	.
	U	66.461538	1.00	6.47	2	5	3	2.29	2.4	0.06	.	.

Table 6-1. Physical data listing for regular streams (continued).

RCH_ID	NODE	W	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
3C133005	L	207.692308	0.32	9.27	4	6	3	1.00	11.9	0.05	2.0	0.15
	U	207.692308	0.32	8.44	4	6	3	1.00	12.2	0.05	4.0	0.30
3C133008	L	34.615385	1.92	24.47	4	9	3	2.27	11.6	0.13	2.0	0.40
	U	34.615385	1.92	19.50	4	9	3	2.27	13.7	0.13	5.0	0.40
3C133011	L	83.076923	0.80	19.66	3	6	3	2.00	5.5	0.02	.	.
	U	83.076923	0.80	17.58	3	6	3	2.00	5.8	0.02	2.5	0.35
3C133013	L	32.015297	2.77	18.88	2	3	2	2.03	7.6	0.18	2.5	0.10
	U	32.015297	2.77	11.71	2	3	2	2.03	10.1	0.18	2.5	0.20
3C133024	L	332.307692	0.09	5.49	2	2	2	0.47	10.1	0.07	.	.
	U	332.307692	0.09	5.26	2	2	2	0.47	10.4	0.07	0.9	0.40
3C133029	L	38.640429	1.72	4.45	1	1	1	2.70	3.7	0.35	0.0	0.00
	U	38.640429	1.72	0.23	1	1	1	2.70	11.6	0.35	0.0	0.00
3C136032	L	316.483516	0.21	0.54	1	1	1	1.26	31.7	0.06	0.0	0.00
	U	316.483516	0.21	0.18	1	1	1	1.26	32.3	0.06	0.0	0.00
3C136033	L	32.015297	2.65	6.86	1	1	1	4.46	37.8	0.01	4.5	0.18
	U	32.015297	2.65	0.03	1	1	1	4.46	38.1	0.01	4.0	0.45

Table 6-2. Physical data listing for special interest sites

RCH_ID	NODE	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
1D030910	L	.	9.30	3	3	2	.	637.0	.	4.0	0.30
1D030911	L	.	7.12	3	3	2	.	582.1	.	5.0	0.10
1D030912	L	.	23.41	7	7	3	.	652.2	.	7.0	0.25
1D030924	L	.	12.07	4	4	2	.	201.2	.	2.0	0.30
1D030925	L	.	1.68	2	2	2	.	292.6	.	3.0	0.30
1D030926	L	.	3.81	1	1	1	.	216.4	.	2.0	0.30
2A07891	L	5.19	13.44	1	16	3	3.75	755.9	.	9.1	0.21
2A07892	L	8.09	20.95	1	23	3	5.33	438.9	.	6.7	0.52
2A07893	L	5.48	14.19	1	8	3	6.94	938.7	.	4.6	0.23
2A07894	L	0.40	9.37	3	7	3	3.46	694.9	.	4.6	0.15
2A07895	L	9.05	23.44	1	9	3	9.64	707.1	6.13	3.8	0.27
	U	9.05	0.23	1	6	3	9.64	944.8	6.13	4.6	0.21
2A07896	L	0.43	1.11	1	1	1	1.01	950.9	.	1.2	0.08
2A08891	L	2.83	7.33	1	7	3	3.60	774.2	4.35	7.6	0.22
	U	2.83	0.23	1	1	1	3.60	890.0	4.35	1.2	0.09
2B035913	L	.	8.05	5	5	2	.	469.1	.	5.0	0.30
2B036903	L	.	8.52	1	1	1	.	303.3	.	10.0	0.25
2B036904	L	.	1.17	1	1	1	.	265.2	.	4.0	0.30
2B036905	L	.	27.81	8	8	3	.	301.7	.	15.0	0.40
2B042922	L	.	10.02	4	4	2	.	318.5	.	6.1	0.25
2B047916	L	.	5.00	4	4	3	.	451.1	.	2.0	0.30
2B047917	L	.	3.42	2	2	2	.	414.5	.	2.0	0.15
2B047918	L	.	2.43	1	1	1	.	487.7	.	0.9	0.20
2B047919	L	.	2.98	1	1	1	.	358.1	.	3.0	0.15
2B047920	L	.	2.82	1	1	1	.	438.9	.	2.5	0.10
2B047929	L	.	3.06	1	1	1	.	359.6	.	1.3	0.08
2C035915	L	.	6.81	4	4	2	.	591.3	.	5.0	0.25
2C041901	L	.	0.36	2	2	2	.	743.7	.	1.8	0.17
2C041902	L	.	15.12	14	14	3	.	512.0	.	10.0	0.18
2C041914	L	.	3.42	1	1	1	.	583.7	.	2.7	0.12

Table 6-2. Physical data listing for special interest sites (Continued)

RCH_ID	NODE	A1	A_WS	RCH_HW	SHRE75	STRA75	RCH_LN	ELEV	GRADE	STRMWD	STRMDP
2C077923	L	.	0.96	1	1	1	.	519.7	.	0.1	0.95
2D083927	L	.	2.18	1	1	1	.	368.8	.	4.0	0.30
2D083928	L	.	6.68	2	2	2	.	329.2	.	6.0	0.30
3B042907	L	.	13.98	10	10	3	.	3.0	.	4.3	0.35
3B042908	L	.	18.05	18	18	3	.	3.0	.	5.0	0.60
3B042921	L	.	0.57	1	1	1	.	182.9	.	1.2	0.08
3B043909	L	.	5.44	1	1	1	.	35.1	.	1.0	0.30
3B048906	L	.	37.65	14	14	3	.	5.2	.	4.0	0.60

SECTION 7
CHEMICAL DATA LISTINGS

The chemical data collected at the regular Phase I streams and at the special interest sites are presented in this section. Data are organized into four groupings of variables: (1) major cation and anions; (2) acid neutralizing capacity, pH, and related variables; (3) aluminum, other metals, and dissolved organic carbon; and (4) other miscellaneous water quality parameters. Data for both upper and lower node samples are presented here, and where more than one visit was made to a sampling location (i.e., the Mid-Atlantic Region and the Southern Blue Ridge subregion), data from all individual visits are presented except for duplicate values that have been averaged. Data from the regular streams are contained in Tables 7-1 through 7-4. Data from the special interest sites are in Tables 7-5 through 7-8. The definition of variable names, a brief description of sample methods, and units of measurement are listed in Table 2-2. The variables presented in this section are generally in metric units, with ion concentrations presented in charge-equivalent basis where possible. For more details on the methods of data collection and data management, see Section 3 of Volume I of this report.

NOTE: Slightly different analytical techniques were used in the chemical analysis of some variables in the NSS-I Pilot Survey (subregion 2As). (Pilot Survey streams are distinguishable by their 7-digit RCH_ID.) These include:

1. ALOR16 (Tables 7-3, 7-7): In the Pilot Survey, the nonexchangeable aluminum species were analyzed by an MIBK extraction rather than by the PCV technique used in the full-scale NSS-I Survey.

2. PTD16 (Tables 7-4, 7-8): In the Pilot Survey, phosphorus was analyzed on an <u>unfiltered</u> sample and represents total phosphorus (PTL16). Due to space limitations, PTL16 values for the Pilot Survey are presented under the PTD16 heading. In the full-scale NSS-I Survey, phosphorus was analyzed on a filtered sample and represents total dissolved phosphorus (PTD16).

Table 7-1. Major cation and anion concentrations in regular streams

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
1D022009	L	1	848.3	205.6	116.6	18.5	1189.0	237.3	43.1	166.2	2.6	735.4
	L	2	1312.4	315.9	146.2	23.0	1797.4	264.4	52.3	237.5	6.0	1187.9
	U	1	878.2	213.1	110.5	18.8	1220.6	233.2	44.8	162.8	2.9	714.4
	U	2	1347.3	306.0	142.2	23.0	1818.5	264.4	49.8	226.8	6.5	1252.7
1D022010	L	1	1087.8	282.2	169.6	25.8	1565.4	285.2	53.6	210.2	1.9	968.8
	L	2	1427.1	394.8	207.9	25.8	2055.7	337.3	47.4	249.7	4.0	1335.2
	U	1	588.8	123.4	63.1	10.3	785.6	237.3	30.8	85.2	0.6	337.7
	U	2	898.2	176.9	66.1	12.6	1153.7	239.4	16.5	80.1	1.9	780.1
1D022022	L	1	418.7	211.4	202.7	20.6	853.4	299.8	18.1	163.1	0.4	325.5
	L	2	648.7	304.4	300.1	30.2	1283.4	254.0	6.6	276.2	0.9	492.9
	U	1	390.2	176.0	175.7	16.8	758.8	245.7	15.5	159.0	0.4	261.8
	U	2	509.0	237.7	227.1	23.7	997.5	237.3	2.5	229.1	0.8	392.8
1D024010	L	1	237.0	71.3	34.2	9.1	351.7	154.9	17.7	23.4	0.1	125.3
	L	2	280.9	92.1	50.0	9.5	432.6	162.2	17.6	26.3	0.1	183.7
	U	1	186.6	56.4	18.4	6.7	268.1	154.5	50.3	13.9	0.0	28.9
	U	2	199.1	67.9	19.1	6.2	292.3	162.0	45.6	13.5	0.0	39.1
1D024021	L	1	178.1	74.6	39.9	8.2	300.9	134.5	18.9	49.9	0.0	75.3
	L	2	188.1	84.7	53.1	8.4	334.4	133.9	12.7	50.5	0.0	76.3
	U	1	182.1	77.9	45.7	7.7	313.4	135.5	23.1	52.8	0.1	73.8
	U	2	189.1	84.7	53.1	8.2	335.1	143.4	13.3	56.7	0.0	71.6
1D025003	L	1	2599.8	2286.8	116.1	37.6	5040.4	306.1	75.0	163.3	28.0	3356.7
	L	2	2984.0	2615.9	110.1	28.4	5738.3	337.3	99.0	164.2	38.7	4221.5
	U	1	2135.7	2237.5	93.5	202.5	4669.2	320.6	23.9	245.4	10.0	3157.5
	U	2	2739.5	2550.1	100.5	210.2	5600.2	291.5	10.1	220.3	7.7	3943.0
1D029004	L	1	224.1	134.1	137.0	19.2	514.4	243.6	4.2	107.8	0.1	157.4
	L	2	264.5	157.1	165.7	20.4	607.7	212.4	1.5	120.7	0.1	188.7
	U	1	254.0	145.6	125.7	17.3	542.6	283.2	25.0	98.7	0.1	149.4
	U	2	260.5	160.4	111.4	17.1	549.3	262.3	20.6	67.4	0.1	192.6
1D029010	L	1	1008.0	297.8	243.6	49.9	1599.2	401.8	57.3	233.9	1.9	893.8
	L	2	1337.3	345.5	326.3	56.5	2065.6	383.1	3.2	335.7	17.2	1157.3
	U	1	698.6	177.7	97.0	35.3	1008.6	331.0	71.1	106.6	0.6	491.5
	U	2	1018.0	261.6	137.9	41.9	1459.4	314.4	51.0	125.8	1.3	753.4
1D029015	L	1*	263.5	186.7	40.9	18.4	509.5	589.2	9.6	44.0	0.0	0.7
	L	2*	310.4	221.3	50.0	20.4	602.1	578.8	5.7	44.3	0.0	0.6
	U	1	1187.6	493.6	355.8	114.6	2151.6	514.3	1.0	411.9	2.8	1041.4
	U	2	2160.7	872.0	648.1	95.9	3776.7	514.3	1.2	694.0	6.9	2328.8

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
1D029016	L	1*	898.2	1702.8	34.4	19.6	2654.9	1057.7	26.8	24.8	0.0	0.0
	L	2*	1252.5	2377.3	46.1	23.9	3699.8	5371.6	19.8	25.8	0.0	0.0
	U	1	126.2	94.6	16.3	11.0	248.2	239.4	9.4	19.9	0.0	0.4
	U	2	128.7	85.6	24.2	12.2	250.7	224.9	7.0	22.3	0.0	0.9
1D029018	L	1	563.9	191.7	124.0	40.9	920.4	372.7	34.7	119.6	0.4	379.6
	L	2	708.6	238.6	140.5	43.0	1130.6	318.5	33.1	139.6	0.8	558.2
	U	1	489.5	171.9	89.6	42.4	793.5	210.3	0.7	37.0	0.2	316.1
	U	2	673.6	263.2	92.2	41.2	1070.3	116.0	0.5	29.6	0.5	806.2
1D029020	L	1	405.7	139.8	100.9	19.3	665.8	274.8	16.6	90.0	0.2	219.7
	L	2	474.0	163.7	108.3	23.4	769.5	279.0	4.1	92.5	0.4	329.8
	U	1	918.2	255.0	517.6	87.7	1778.5	410.2	187.1	792.7	0.3	335.5
	U	2	1107.8	317.5	552.4	120.7	2098.4	376.8	157.8	877.3	0.6	560.8
1D029023	L	1	130.2	60.1	31.6	12.1	234.0	132.0	33.6	37.8	0.0	14.2
	L	2	136.2	63.2	35.0	12.7	247.0	127.6	30.0	37.8	0.0	30.9
	U	1	48.5	24.7	15.5	5.7	94.4	164.3	12.2	16.0	0.0	0.2
	U	2	38.8	21.6	15.7	5.3	81.5	144.3	5.2	21.2	0.0	0.4
1D029028	L	1	131.2	78.0	14.9	16.9	241.0	189.0	5.5	19.3	0.0	19.1
	L	2	174.6	93.0	24.6	18.1	310.3	197.4	4.6	19.1	0.0	50.3
	U	1	69.4	74.4	13.0	16.1	172.8	157.2	6.4	13.3	0.0	1.1
	U	2	83.8	80.5	18.4	15.1	197.9	190.9	4.2	15.0	0.0	0.5
1D029031	L	1	167.7	62.0	28.4	10.1	268.3	178.2	11.7	19.3	0.0	24.4
	L	2	169.2	61.4	35.5	10.8	276.9	153.2	6.2	23.9	0.0	51.6
	U	1	208.6	73.0	14.2	12.7	308.6	186.8	45.6	21.9	0.0	98.8
	U	2	242.0	78.8	15.6	12.4	348.8	180.5	46.3	21.7	0.0	68.5
1D029042	L	1	124.3	67.5	14.4	9.7	216.0	141.2	45.3	21.7	0.0	5.4
	L	2	123.3	66.6	16.7	9.5	216.1	144.7	41.3	21.3	0.0	5.2
	U	1	72.4	35.2	12.2	8.5	128.3	122.8	53.6	15.7	0.0	0.4
	U	2	72.4	33.5	13.0	7.0	125.8	134.1	8.7	21.2	0.0	0.8
1D029043	L	1	113.3	37.0	14.2	8.0	172.5	143.7	16.0	17.4	0.0	1.1
	L	2	117.3	38.1	15.4	8.9	179.6	139.5	12.0	18.4	0.0	2.8
	U	1	31.6	27.5	17.1	4.7	80.9	114.1	6.5	16.5	0.0	0.4
	U	2	25.7	28.0	14.1	3.8	71.6	86.6	9.0	17.6	0.0	0.4
1D029044	L	1	459.1	90.5	287.1	19.2	855.9	222.8	8.0	275.6	0.3	300.2
	L	2	488.0	106.9	269.7	19.1	883.8	239.4	14.5	293.4	0.2	277.1
	U	1	466.1	92.1	302.8	21.4	882.3	216.5	2.2	313.1	0.3	319.3
	U	2	499.0	102.8	304.5	21.6	928.0	224.9	3.2	324.4	0.3	304.5

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
1D029051	L	1	187.6	59.1	146.6	12.6	405.9	178.4	16.3	176.0	0.0	24.8
	L	2	215.6	71.8	157.9	11.5	456.7	190.5	11.8	187.0	0.0	38.5
	U	1	168.7	42.6	62.6	10.6	284.5	169.3	20.0	74.8	0.0	9.0
	U	2	186.4	53.1	81.6	11.1	332.1	174.0	18.2	98.0	0.0	22.5
1D029052	L	1	282.4	148.9	231.4	17.3	680.1	233.2	12.8	230.8	0.1	146.7
	L	2	323.4	176.0	238.4	16.8	754.6	239.4	14.1	263.8	0.1	149.4
	U	1	277.4	157.9	268.8	18.2	722.4	224.9	13.6	282.1	0.1	186.7
	U	2	346.8	185.1	249.7	16.8	798.4	245.7	21.3	264.9	0.1	168.7
1D029056	L	1	568.9	249.2	126.1	26.8	971.1	310.2	156.5	160.8	0.3	278.7
	L	2	698.6	292.8	140.5	35.0	1167.0	356.0	113.9	182.5	0.9	445.8
	U	1	122.8	120.1	53.5	15.8	312.2	195.5	13.4	27.6	0.0	31.8
	U	2	137.2	130.8	55.2	17.6	340.9	210.3	12.4	30.7	0.0	67.1
1D029057	L	1	250.5	134.1	97.9	20.9	503.4	171.3	68.6	126.7	0.1	88.5
	L	2	365.3	162.1	127.0	28.4	682.7	177.2	55.5	140.8	0.2	226.7
	U	1	352.3	160.4	113.5	24.0	650.2	199.0	91.9	133.7	0.1	120.7
	U	2	274.0	141.5	100.0	22.7	538.1	151.6	42.4	115.1	0.1	148.1
1D030001	L	1	251.5	69.7	16.8	8.9	346.9	161.6	14.5	17.0	0.1	113.1
	L	2	294.9	86.4	19.8	9.3	410.5	170.3	21.9	17.5	0.1	120.3
	U	1	244.5	66.3	18.7	9.1	338.6	162.4	18.7	18.0	0.1	111.1
	U	2	289.4	81.6	20.6	9.5	401.1	174.9	26.5	20.6	0.0	101.6
1D030004	L	1	97.3	56.4	44.2	7.9	205.9	134.4	12.8	50.2	0.0	5.4
	L	2	101.3	58.7	53.1	8.1	221.2	131.0	11.6	54.4	0.0	7.8
	U	1	35.3	32.6	12.5	4.5	84.9	128.3	18.5	13.2	0.0	0.4
	U	2	36.4	36.2	13.9	4.9	91.4	120.1	16.9	14.2	0.0	0.2
1D030005	L	1	145.2	75.9	28.2	7.7	257.0	134.9	16.0	23.0	0.0	52.9
	L	2	149.7	80.1	30.1	7.7	267.6	153.9	13.4	23.7	0.0	52.4
	U	1	93.3	61.0	15.0	7.1	176.4	121.0	5.1	20.9	0.0	16.2
	U	2	106.3	64.9	17.1	6.2	194.5	138.7	4.7	16.0	0.0	29.8
1D030017	L	1	152.7	72.6	62.2	11.8	299.3	143.0	17.6	75.0	0.0	28.2
	L	2	167.7	80.1	72.6	11.5	331.9	165.9	16.5	102.7	0.0	35.2
	U	1	141.7	69.3	38.1	10.2	259.3	139.1	23.2	50.5	0.0	18.7
	U	2	144.2	72.5	40.2	9.6	266.6	156.1	20.6	46.0	0.0	27.4
1D030018	L	1	132.2	75.9	56.1	6.6	270.8	123.0	0.3	35.8	0.0	65.4
	L	2	138.7	81.6	59.6	6.6	286.5	133.9	0.8	31.3	0.0	68.6
	U	1	146.7	80.9	51.8	6.1	285.6	139.1	1.3	32.2	0.0	74.1
	U	2	161.2	86.4	54.8	6.0	308.3	145.9	1.8	33.6	0.0	75.5

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
1D030019	L	1	415.2	153.8	129.2	12.3	710.5	198.6	4.2	111.4	0.2	312.5
	L	2	578.8	195.8	155.7	14.3	944.7	258.2	9.2	143.6	0.4	459.8
	U	1	191.6	109.4	104.0	7.1	412.1	142.0	0.4	82.4	0.0	104.6
	U	2	220.6	120.1	111.8	5.1	457.5	139.5	0.6	93.9	0.1	119.3
1D030021	L	1	405.2	132.4	131.4	22.2	691.2	270.7	3.8	123.0	0.3	296.6
	L	2	482.5	162.1	146.2	24.7	815.4	214.4	6.9	123.6	0.6	367.1
	U	1	410.4	145.6	130.1	13.8	699.9	231.1	2.5	136.7	0.2	280.3
	U	2	440.1	155.5	109.6	12.3	717.5	160.1	19.4	82.9	0.2	430.4
1D030023	L	1	538.9	92.1	83.1	22.7	736.9	233.2	19.5	73.3	0.4	350.9
	L	2	663.7	118.5	94.0	21.1	897.2	251.9	37.7	77.0	0.5	428.6
	U	1	598.8	93.8	63.5	18.7	774.8	210.3	5.4	56.4	0.5	396.0
	U	2	573.8	97.1	67.9	17.2	756.0	217.6	1.0	54.3	0.3	375.3
1D030025	L	1	290.4	62.7	66.6	14.9	434.6	182.6	3.3	45.7	0.1	160.2
	L	2	347.3	78.6	84.4	14.3	524.5	192.2	6.2	59.2	0.1	164.3
	U	1	300.4	54.4	47.0	10.7	412.4	175.3	7.0	32.2	0.1	139.6
	U	2	359.3	66.4	70.9	13.2	509.7	173.2	7.0	50.8	0.1	145.6
1D030038	L	1	441.6	57.7	96.6	19.5	615.4	197.6	3.3	88.9	0.4	281.6
	L	2	523.9	67.9	103.5	16.3	711.8	216.5	9.2	77.0	0.4	319.2
	U	1	401.7	61.0	81.3	18.9	563.0	187.6	1.1	74.8	0.2	241.8
	U	2	459.6	67.9	82.6	17.1	627.3	204.2	1.1	70.0	0.2	254.9
1D030041	L	1	229.5	87.2	246.2	19.3	582.3	170.5	4.4	273.9	0.0	67.0
	L	2	255.0	101.2	261.0	19.2	636.4	199.0	4.6	281.0	0.0	70.2
	U	1	251.5	97.9	310.6	21.3	681.3	181.6	8.3	330.1	0.0	72.0
	U	2	271.0	102.8	300.1	20.4	694.4	199.0	8.0	321.6	0.0	68.6
1D030044	L	1	308.9	125.9	96.6	14.9	546.2	186.8	1.9	69.4	0.2	223.8
	L	2	400.2	159.6	116.6	15.8	692.1	205.5	6.1	88.0	0.4	361.9
	U	1	260.5	112.7	75.7	12.1	461.0	175.7	0.9	49.1	0.2	146.0
	U	2	355.3	148.9	90.9	12.9	608.0	198.2	1.1	55.6	0.5	311.7
1D030048	L	1	678.6	132.4	292.3	33.0	1136.4	314.4	21.9	318.8	0.5	413.5
	L	2	698.6	134.1	321.0	32.5	1186.2	322.7	16.1	327.2	0.3	375.5
	U	1	703.6	129.1	292.3	33.2	1158.3	314.4	22.7	321.6	0.5	426.5
	U	2	688.6	143.1	297.5	32.5	1161.8	339.4	22.3	327.2	0.4	526.6
1D030050	L	1	373.8	75.9	70.9	14.4	535.0	224.9	10.3	48.2	0.1	190.1
	L	2	528.9	107.8	94.0	13.6	744.2	239.4	24.0	70.0	0.1	288.7
	U	1	137.2	57.7	22.4	6.1	223.5	183.2	0.1	14.5	0.0	19.4
	U	2	166.7	66.4	33.4	5.5	272.0	185.5	1.9	17.2	0.0	29.6

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
1D030070	L	1*	1556.9	454.9	1944.4	80.0	4036.3	466.4	41.0	2166.5	0.9	1172.8
	L	2*	1868.4	621.9	2676.3	94.4	5260.9	498.0	28.7	2818.2	9.7	1883.1
	U	1*	1157.7	408.0	1470.3	58.8	3094.8	412.2	17.7	1633.4	1.0	932.3
	U	2*	1742.6	612.8	2649.5	90.9	5095.8	487.6	13.1	2799.4	12.1	1859.0
1D030071	L	1	1037.9	345.5	617.7	30.9	2032.1	406.0	48.6	837.8	1.2	758.8
	L	2	1258.5	422.1	668.6	30.1	2379.3	375.2	25.5	849.6	8.2	1052.8
	U	1	1082.8	372.6	617.7	29.9	2103.1	403.9	45.0	820.9	1.3	770.1
	U	2	1237.6	413.9	689.6	29.7	2370.8	382.0	27.3	883.5	23.1	1049.5
1D030074	L	1	329.3	83.9	162.7	17.9	593.8	226.9	19.7	181.7	0.1	107.4
	L	2	405.7	111.9	164.0	17.3	698.9	247.8	24.5	204.8	0.1	196.6
	U	1	328.3	77.6	214.0	24.6	644.5	258.2	1.8	268.3	0.0	63.7
	U	2	332.8	80.5	222.7	23.9	660.0	274.8	1.0	270.0	0.0	48.6
1D030080	L	1	.	.	.	.	.	.	.	.	0.0	43.1
	L	2	229.3	90.6	138.4	13.0	471.3	211.5	0.0	162.5	0.1	111.4
	U	1	151.9	71.9	62.0	10.7	296.6	178.1	0.5	76.7	0.0	25.7
	U	2	139.3	71.7	67.2	10.1	288.4	189.6	0.5	75.7	0.0	36.9
1D030083	L	1	578.8	262.4	433.3	16.7	1291.3	283.2	17.3	595.2	0.5	397.0
	L	2	706.5	310.7	530.3	17.7	1565.2	310.8	11.0	671.2	3.8	605.7
	U	1	378.7	184.3	251.4	12.3	826.8	256.1	14.3	321.6	0.3	235.2
	U	2	505.3	221.4	297.8	12.8	1037.3	278.7	8.0	390.9	1.8	430.4
1D030092	L	1	399.2	176.0	174.4	12.5	762.2	235.3	7.3	203.1	0.3	274.2
	L	2	405.2	185.0	193.1	12.9	796.2	235.3	3.9	225.0	1.2	331.1
	U	1	284.9	134.1	155.3	12.1	586.4	220.7	4.5	171.5	0.1	155.9
	U	2	293.5	140.9	172.3	13.0	619.7	237.0	0.0	187.8	0.6	217.2
1D030093	L	1	1177.6	304.4	617.7	45.0	2144.7	437.2	49.5	877.3	1.7	730.6
	L	2	1212.0	316.4	629.1	46.7	2204.2	385.2	8.3	841.3	12.8	945.1
	U	1	1541.9	353.7	530.7	47.6	2473.9	489.3	99.0	643.2	3.8	1067.3
	U	2	1330.6	346.8	454.9	42.3	2174.6	458.2	9.9	633.3	4.5	1035.8
1D031002	L	1	1207.6	547.9	153.1	16.9	1925.4	297.7	10.3	157.7	6.1	1288.0
	L	2	1277.4	680.3	164.0	16.5	2138.2	322.7	12.7	151.2	4.8	1342.0
	U	1	993.0	290.4	138.8	13.5	1435.6	266.5	5.1	140.2	2.1	956.3
	U	2	1018.0	412.9	128.3	14.1	1573.4	301.9	6.8	123.0	2.2	923.7
1D031006	L	1	1497.0	1275.0	198.4	37.6	3008.0	245.7	15.9	301.8	6.3	2127.0
	L	2	1422.1	1324.4	197.5	29.9	2973.9	249.8	11.7	253.0	4.4	1792.8
	U	1	1227.5	1077.6	130.5	32.0	2467.6	226.9	1.1	213.0	3.5	1869.1
	U	2	1162.7	1151.6	137.9	23.1	2475.3	235.3	0.1	206.5	2.5	1458.7

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
1D031014	L	1	291.9	116.0	87.4	23.3	518.6	184.0	0.2	57.0	0.1	176.9
	L	2	324.8	134.9	95.7	21.2	576.6	195.3	4.3	56.7	0.1	224.9
	U	1	279.4	109.4	73.9	26.6	489.4	216.5	0.5	50.5	0.1	149.0
	U	2	292.9	109.4	71.3	26.3	500.0	251.9	0.1	47.4	0.1	124.5
1D036006	L	1	461.1	199.9	148.3	23.8	833.1	314.4	123.7	200.6	0.1	164.3
	L	2	482.5	208.9	148.3	23.9	863.7	260.2	159.2	204.2	0.1	233.9
	U	1	568.9	251.7	187.9	28.4	1036.9	414.3	169.4	248.5	0.1	150.3
	U	2	394.7	174.4	132.7	18.1	719.9	249.8	97.6	187.3	0.0	112.1
1D036008	L	1	504.0	231.2	231.4	37.8	1004.4	241.5	216.1	264.0	0.1	190.7
	L	2	490.0	242.7	224.5	38.4	995.5	149.5	167.8	280.4	0.2	300.5
	U	1	246.5	204.0	374.1	28.6	853.2	224.9	63.6	510.6	0.0	27.9
	U	2	260.5	208.9	349.7	24.7	843.8	162.4	57.9	468.3	0.0	79.8
1D036010	L	1	553.9	449.1	131.4	46.5	1180.9	366.4	454.9	183.1	0.1	104.9
	L	2	514.0	449.1	152.3	41.2	1156.5	260.2	306.5	199.7	0.2	235.0
	U	1	703.6	503.4	312.3	43.2	1562.6	399.7	580.7	389.3	0.0	71.7
	U	2	613.8	557.7	295.8	35.8	1503.1	333.1	508.1	369.6	0.1	117.5
1D036011	L	1	87.3	48.1	25.4	13.6	174.4	125.1	19.8	31.6	0.0	3.9
	L	2	62.4	44.1	27.3	12.3	146.1	104.1	8.9	27.8	0.0	14.2
	U	1	29.3	30.3	19.8	13.2	92.7	93.9	1.5	23.2	0.0	0.3
	U	2	23.0	29.6	20.5	12.0	85.1	71.8	0.7	25.1	0.0	1.7
1D036012	L	1	342.8	171.9	234.5	23.8	773.0	337.3	111.1	268.3	0.0	43.1
	L	2	316.9	172.7	265.3	24.2	779.1	254.0	86.3	344.2	0.0	60.3
	U	1	100.3	71.0	236.6	16.0	423.9	175.3	6.0	253.3	0.0	9.4
	U	2	110.8	87.2	321.0	16.1	535.1	162.0	6.1	352.6	0.0	3.9
1D036017	L	1	179.6	81.1	75.3	13.3	349.3	136.8	44.4	90.8	0.0	61.2
	L	2	198.1	96.2	74.8	13.4	382.5	115.3	51.0	93.9	0.0	101.4
	U	1	93.3	55.4	47.0	11.5	207.2	117.0	3.4	66.3	0.0	19.3
	U	2	108.3	68.4	49.6	12.2	238.4	104.5	4.0	68.8	0.0	24.6
1D037003	L	1	269.0	159.6	122.2	12.3	563.1	245.7	3.7	137.4	0.1	139.5
	L	2	264.4	169.0	119.5	12.4	565.3	226.0	1.4	120.7	0.2	184.0
	U	1	141.7	92.1	57.0	8.3	299.1	201.7	1.7	41.2	0.0	20.8
	U	2	142.5	95.7	65.6	9.0	312.8	225.8	1.5	41.9	0.0	33.4
1D037004	L	1	161.7	72.6	105.3	10.6	350.1	119.5	41.3	134.6	0.0	68.6
	L	2	184.1	78.8	103.5	10.3	376.8	86.0	41.0	166.4	0.0	66.4
	U	1	412.7	233.6	1035.3	22.7	1704.3	193.6	40.0	1777.2	0.0	86.6
	U	2	406.7	230.3	822.1	18.9	1478.0	152.8	36.5	1218.7	0.0	73.4

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
1D037005	L	1	34.9	33.6	50.0	7.7	126.2	62.5	0.3	65.7	0.0	2.1
	L	2	28.9	30.1	49.6	5.8	114.4	46.6	0.2	70.2	0.0	9.2
	U	1	9.4	8.6	22.4	4.8	45.2	31.9	0.3	21.3	0.0	8.2
	U	2	9.9	8.1	22.2	5.0	45.2	16.0	0.1	26.1	0.0	1.6
1D037010	L	1	1327.3	403.9	405.4	29.7	2166.3	533.0	117.3	490.9	2.9	948.4
	L	2	1476.4	495.2	448.7	31.4	2451.8	574.8	85.5	521.1	8.6	1232.1
	U	1	1417.2	538.0	474.1	44.2	2473.5	516.3	150.0	682.7	4.3	997.9
	U	2	1691.5	780.6	519.9	34.6	3026.5	498.8	45.5	739.6	10.4	1637.6
1D037011	L	1*	2929.1	1990.7	219.2	38.6	5177.7	1013.9	62.3	352.6	29.2	3747.4
	L	2*	2889.9	2364.4	211.0	41.5	5506.9	894.3	42.2	289.5	47.1	4082.3
	U	1*	2874.2	2081.2	874.3	34.8	5864.5	470.5	80.2	1526.2	40.7	3697.3
	U	2*	2761.4	2498.1	699.3	33.0	5991.8	505.1	73.7	1216.9	79.9	4172.3
1D037016	L	1	212.6	155.5	115.7	17.9	501.6	111.6	134.8	126.1	0.1	134.8
	L	2	216.1	170.3	113.5	15.8	515.7	89.1	118.2	123.0	0.1	102.8
	U	1	221.6	162.1	114.0	17.3	514.9	117.6	139.0	126.1	0.1	134.7
	U	2	215.1	168.6	117.4	16.8	518.0	89.1	128.2	131.7	0.0	100.8
1D037020	L	1	1357.3	508.4	244.5	39.6	2149.8	988.9	167.8	304.7	1.7	600.5
	L	2	1367.5	640.9	268.1	39.7	2316.2	1195.8	139.4	292.5	5.2	717.5
	U	1	1317.4	523.2	249.3	36.6	2126.4	1215.9	132.6	279.6	0.9	541.5
	U	2	1373.6	632.9	230.7	46.5	2283.7	1006.1	218.2	278.5	5.3	663.7
1D037021	L	1	828.3	389.1	430.6	27.9	1676.0	583.0	51.9	567.0	1.2	566.2
	L	2	786.8	460.5	418.2	35.7	1701.2	579.9	46.9	552.9	2.8	576.7
	U	1	369.8	229.5	218.8	16.1	834.2	262.3	56.3	185.3	0.6	311.8
	U	2	360.8	252.5	225.1	15.5	854.0	261.1	56.3	187.6	0.7	317.1
1D037028	L	1*	3108.8	1595.8	429.8	107.6	5242.0	1480.3	337.1	569.8	33.3	3022.9
	L	2*	3162.6	2165.8	459.1	109.8	5897.4	1345.6	326.5	561.4	86.4	3667.1
	U	1*	3223.5	1439.5	452.4	123.8	5239.2	1667.7	362.9	578.3	14.1	2605.5
	U	2*	3322.8	1889.3	510.8	130.0	5852.9	1624.0	383.2	648.8	52.8	3239.3
2A058004	L	1	272.0	218.0	168.8	57.0	715.7	41.6	31.9	90.3	0.3	365.6
	U	1	254.0	218.0	161.8	59.1	692.9	37.1	33.6	82.9	0.3	371.2
2A058005	L	1	334.8	56.2	142.7	42.4	576.1	59.8	24.5	90.6	0.3	457.9
	U	1	329.8	157.1	138.8	40.7	666.4	60.2	19.7	92.8	0.3	470.0
2A067012	L	1	106.8	94.6	73.9	17.9	293.3	37.7	22.1	28.8	0.1	183.2
	U	1	70.9	58.7	34.7	10.5	174.7	29.8	13.8	12.9	0.1	109.7

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2A068004	L	1	246.5	148.1	113.5	40.7	548.8	43.5	28.6	82.1	0.2	295.4
	U	1	231.5	150.5	100.0	34.5	516.6	39.8	26.0	57.8	0.4	319.5
2A068007	L	1	2145.7	1949.6	38.2	60.3	4193.8	97.0	51.3	68.3	28.4	3808.0
	U	1	2025.9	1834.4	38.2	85.7	3984.2	65.8	70.3	71.9	12.6	3694.8
2A068015	L	1	1701.6	1020.0	44.8	50.6	2817.0	241.5	64.8	64.9	9.8	2083.1
	U	1	23.4	24.9	20.9	16.9	86.1	26.2	16.5	9.1	0.0	35.2
2A068022	L	1	189.1	114.3	78.3	30.9	412.7	27.1	31.9	67.4	0.1	231.2
	U	1	177.6	111.1	70.0	27.9	386.6	25.8	31.8	58.7	0.1	253.5
2A068023	L	1	170.7	143.1	64.4	16.1	394.3	31.6	17.7	40.6	0.3	205.2
	U	1	176.1	144.0	64.4	15.7	400.2	25.3	15.8	34.7	0.3	232.2
2A068032	L	1	693.6	641.6	33.4	30.4	1399.1	52.3	10.4	30.2	2.1	1258.8
	U	1	703.6	666.3	23.1	24.5	1417.4	43.3	17.7	30.5	4.3	1327.2
2A068048	L	1	97.8	38.7	97.4	22.2	256.1	67.0	28.1	52.8	0.0	68.5
	U	1	74.4	27.9	79.6	17.7	199.5	67.5	31.3	47.7	0.0	25.6
2A068055	L	1	80.8	25.8	50.0	9.4	166.1	28.1	11.0	25.9	0.0	79.8
	U	1	97.8	16.3	32.4	6.9	153.3	72.2	6.0	13.0	0.0	39.5
2A07701	L	1	81.3	26.9	38.3	12.1	158.7	25.8	12.0	15.5	0.1	57.2
	L	2	71.4	30.6	38.1	12.8	152.8	27.8	14.6	16.5	0.1	77.8
	L	3	91.3	30.1	38.6	13.8	173.8	28.1	12.3	15.2	0.1	74.7
	L	4*	107.8	38.0	39.5	13.8	199.1	29.8	11.9	14.9	0.1	113.0
	U	3	45.7	17.8	31.0	11.9	106.4	33.5	11.7	14.5	0.0	28.1
	U	4*	43.3	18.2	32.9	10.3	104.6	31.0	11.7	14.9	0.0	38.4
2A07702	L	0*	1177.6	121.6	71.5	11.7	1382.4	96.2	0.2	28.8	24.4	1109.5
	L	1	1122.7	121.3	72.0	13.0	1329.1	97.7	0.0	29.1	22.0	1023.9
	L	2*	988.0	118.5	73.9	14.5	1195.0	94.1	2.5	29.1	4.5	884.9
	L	3	1157.7	127.5	69.6	13.8	1368.6	90.4	5.3	25.9	7.8	1229.1
	L	4*	1447.1	127.5	65.3	15.0	1654.9	86.6	5.9	25.9	11.7	1494.1
	U	4*	266.5	172.7	80.5	13.8	533.5	87.7	10.7	19.2	0.6	399.4
2A07703	L	1	89.8	49.4	65.7	22.6	227.5	42.3	5.0	18.2	0.1	120.1
	L	2	87.6	51.4	61.1	22.2	222.3	43.6	6.5	25.6	0.1	123.5
	L	3	82.8	48.1	66.6	22.7	220.2	35.2	3.8	27.6	0.1	108.6
	L	4*	97.3	51.3	63.1	23.0	234.7	31.4	6.0	24.7	0.1	137.5
	U	3	46.4	37.2	68.3	24.6	176.5	36.4	1.7	15.8	0.1	88.2
	U	4*	50.9	38.7	65.7	22.9	178.2	31.9	2.6	16.6	0.0	86.1

*Non-interest samples/reaches--see Table 4-3 for explanation

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2A07801	L	1	349.3	100.4	80.3	23.6	553.5	64.2	13.4	19.6	1.8	433.9
	L	2	291.9	92.1	83.5	24.2	491.7	57.3	7.3	22.2	1.1	357.3
	L	3	302.4	88.8	80.0	25.6	496.8	62.7	11.9	16.6	1.2	330.8
	L	4*	683.6	160.0	99.8	31.5	974.9	64.4	12.6	21.6	19.3	747.4
	U	3	300.4	83.1	77.4	24.4	485.3	60.4	11.7	23.1	0.8	310.3
	U	4*	543.9	137.4	104.4	30.7	816.4	60.4	12.6	19.1	5.9	601.9
2A07802	L	1	147.2	71.0	122.9	22.0	363.1	28.3	22.4	64.7	0.3	189.6
	L	2	125.2	71.4	120.1	20.9	337.6	30.8	26.8	79.8	0.1	164.5
	L	3	131.2	71.9	123.5	22.5	349.1	27.1	19.0	62.6	0.2	226.8
	L	4*	135.2	70.2	125.3	24.5	355.2	24.4	5.7	62.3	0.2	181.9
	U	4*	145.2	69.8	124.0	23.4	362.3	21.7	29.2	50.8	0.3	220.4
2A07803	L	1	1781.4	259.9	96.6	22.3	2160.3	126.6	1.0	39.1	28.7	1570.3
	L	2	1297.4	223.7	83.5	20.8	1625.5	118.0	4.4	37.8	11.6	1422.9
	L	3	1686.6	275.6	100.0	27.4	2089.6	112.8	7.6	41.5	7.4	1945.5
	L	4*	2410.2	367.7	136.6	51.4	2965.9	106.8	11.0	56.4	18.5	2484.9
	U	3	1841.3	297.0	114.4	25.8	2278.5	112.0	6.9	27.3	8.5	2033.2
	U	4*	2455.1	364.4	136.2	23.6	2979.2	109.7	6.8	29.3	19.8	2266.8
2A07805	L	1	79.3	38.3	53.5	10.6	181.7	43.1	26.1	20.6	0.1	93.5
	L	2	83.8	38.5	50.0	10.5	182.8	41.8	26.9	21.5	0.0	64.3
	L	3	93.3	39.5	56.1	10.6	199.5	37.5	21.3	22.3	0.0	77.8
	L	4*	127.7	56.4	79.6	10.9	274.7	37.3	18.4	29.3	0.1	146.2
	U	4*	73.4	35.9	55.7	8.4	173.3	32.3	18.4	11.0	0.1	82.7
2A07806	L	0*	67.6	20.8	63.6	12.8	164.8	26.0	17.4	14.5	0.1	97.9
	L	1	67.9	22.4	67.9	14.3	172.4	28.9	15.1	13.5	0.0	66.4
	L	2	67.4	21.6	76.6	13.4	178.9	28.3	16.1	15.2	0.0	87.1
	L	3	70.4	22.8	70.5	15.0	178.6	28.3	17.4	13.0	0.0	69.3
	L	4*	75.8	24.9	75.7	14.2	190.7	29.6	17.3	12.3	0.1	92.4
	U	4*	52.4	16.5	50.5	12.4	131.7	17.6	16.5	12.3	0.0	48.8
2A07807	L	0*	120.8	74.7	102.3	20.2	317.9	62.3	41.9	46.3	0.2	170.5
	L	1	102.3	71.2	103.1	20.7	297.3	62.3	30.7	38.2	0.2	150.1
	L	2	104.3	65.8	95.7	21.7	287.5	61.4	26.1	41.2	0.1	122.6
	L	3	106.3	72.1	105.3	22.9	306.6	50.4	24.8	38.1	0.1	138.2
	L	4*	109.8	70.4	109.2	27.4	316.7	48.1	19.4	34.1	0.1	177.6
	U	4*	72.9	42.9	62.2	13.8	191.8	23.9	14.4	16.0	0.1	107.4
2A07808	L	1	108.8	65.8	63.7	14.0	252.2	36.4	8.3	28.8	0.2	131.0
	L	2	96.8	70.1	67.0	14.5	248.4	42.9	13.1	32.7	0.1	149.4
	L	3	101.8	65.5	52.2	14.7	234.2	62.0	12.5	28.2	0.0	92.7
	L	4*	118.8	77.9	69.2	18.3	284.2	36.0	21.8	31.3	0.1	195.6
	U	4*	131.7	50.0	47.4	11.9	241.1	26.0	7.2	13.1	0.2	187.9

*Non-interest samples/reaches--see Table 4-3 for explanation

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2A07810	L	1	69.4	26.8	33.8	11.8	141.7	36.2	17.6	11.7	0.0	41.4
	L	2	57.9	27.6	33.7	11.2	130.4	37.7	18.1	14.5	0.0	54.9
	L	3	64.4	29.0	35.9	13.4	142.7	33.5	14.9	13.9	0.0	58.0
	L	4*	77.8	33.6	41.8	13.5	166.7	34.1	12.3	11.8	0.0	81.0
	U	4*	58.9	26.1	32.8	10.6	128.4	37.7	25.0	10.8	0.0	44.7
2A07811	L	1	59.4	33.7	26.8	10.8	130.7	48.3	45.8	12.3	0.0	6.3
	L	2	50.4	29.9	27.3	9.8	117.4	40.6	39.4	13.8	0.0	13.8
	L	3	48.9	27.1	29.4	10.2	115.7	41.8	33.1	12.0	0.0	14.8
	L	4*	45.7	25.1	34.0	7.7	112.5	41.4	24.5	12.2	0.0	20.7
	U	4*	49.9	28.1	29.9	7.0	114.9	47.3	33.4	13.3	0.0	16.5
2A07812	L	1	53.9	27.0	55.7	12.5	149.0	23.7	4.2	12.7	0.0	78.1
	L	2	52.4	25.9	56.5	12.8	147.7	23.8	3.6	11.9	0.0	82.2
	L	3	54.4	26.7	63.9	14.8	159.9	22.1	3.3	11.7	0.0	83.9
	L	4*	72.9	35.7	70.0	16.0	194.6	21.7	12.3	11.1	0.1	114.8
	U	4*	57.9	33.2	48.7	10.3	150.1	33.1	25.2	11.0	0.0	61.8
2A07813	L	0*	243.5	132.6	165.2	34.5	575.8	71.2	37.4	75.0	0.9	374.1
	L	1	228.5	133.3	177.0	37.3	576.2	78.3	29.7	81.2	0.7	312.6
	L	2	226.5	130.0	172.3	34.5	563.3	68.9	31.1	78.4	0.5	362.6
	L	3	221.1	136.6	183.1	38.0	578.7	76.3	28.7	73.1	0.8	374.5
	L	4*	242.5	140.7	180.5	45.8	609.5	68.1	27.3	69.7	0.9	396.2
	U	3*	134.7	76.7	109.2	28.9	349.6	30.2	33.1	19.3	0.4	244.1
	U	4*	153.7	88.0	92.2	47.3	381.2	55.8	37.1	23.4	0.2	230.6
2A07814	L	0*	212.6	143.1	164.7	36.0	556.4	94.5	30.3	85.2	0.9	348.3
	L	1	196.6	149.7	206.6	39.9	592.8	88.1	24.4	83.8	1.3	329.2
	L	2	175.4	130.8	151.4	40.5	498.1	86.5	26.9	71.8	0.2	248.7
	L	3	181.6	139.8	164.4	39.9	525.8	75.8	25.8	66.3	0.2	272.7
	L	4*	223.1	160.4	193.6	77.2	654.3	105.6	26.1	101.3	0.4	348.0
	U	3	122.3	96.2	118.3	31.2	368.0	65.4	20.3	44.0	0.2	197.7
	U	4*	168.9	124.6	158.3	45.1	497.0	72.6	13.8	60.7	0.4	315.5
2A07815	L	1	59.9	30.0	54.1	11.9	155.9	43.5	1.4	16.4	0.0	53.5
	L	2	51.9	33.0	59.2	12.2	156.3	47.5	2.5	18.1	0.0	75.2
	L	3	58.9	31.3	45.2	12.9	148.3	66.0	4.0	17.4	0.0	40.4
	L	4*	59.9	35.2	52.6	15.1	162.8	45.4	5.0	15.2	0.0	67.9
	U	4*	55.9	33.2	40.5	13.1	142.7	43.1	6.5	14.7	0.0	53.9
2A07816	L	1	34.8	16.7	33.3	9.5	94.3	24.2	8.7	11.8	0.0	40.5
	L	2	32.6	16.6	34.1	10.9	94.2	19.4	8.7	11.9	0.0	41.8
	L	3	33.5	16.2	36.2	11.1	97.0	16.6	5.3	11.7	0.0	35.2
	L	4*	37.5	18.4	38.1	10.8	104.9	17.7	8.1	11.1	0.0	50.3
	U	4*	35.6	19.1	26.1	6.4	87.1	24.6	28.7	12.6	0.0	16.1

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2A07817	L	1	38.8	17.4	31.0	9.1	96.2	19.2	14.8	10.7	0.0	26.8
	L	2	35.8	20.1	30.1	9.1	95.1	23.9	23.4	11.2	0.0	27.5
	L	3	44.1	20.0	28.1	10.0	102.2	27.7	24.2	12.0	0.0	17.4
	L	4*	43.4	20.9	28.7	8.2	101.2	34.9	22.1	10.2	0.0	28.4
	U	4*	71.4	24.8	27.0	8.3	131.5	53.1	57.7	12.8	0.0	8.2
2A07818	L	1	49.4	27.4	46.3	12.9	136.1	24.2	14.4	11.4	0.1	67.2
	L	2	46.4	27.9	46.5	13.0	133.8	22.3	14.7	11.9	0.0	62.7
	L	3	48.4	28.3	50.0	14.7	141.4	21.2	12.7	11.7	0.0	61.7
	L	4*	56.9	31.7	54.8	15.9	159.2	24.8	11.5	11.4	0.0	80.4
	U	3	44.4	27.6	49.6	14.4	136.0	20.8	12.7	10.1	0.0	56.9
	U	4*	56.4	31.6	53.9	15.5	157.4	26.6	12.5	12.0	0.0	78.0
2A07819	L	1	126.2	52.3	127.0	20.3	325.9	21.2	7.6	29.9	0.5	193.8
	L	2	110.5	56.0	142.2	20.6	329.4	21.4	7.3	32.6	0.3	242.7
	L	3*	107.3	51.3	105.3	23.5	287.4	38.1	15.9	35.0	0.1	140.1
	L	4*	121.8	58.7	131.4	29.4	341.3	20.5	10.5	33.3	0.2	246.4
	U	4*	186.1	84.7	147.0	23.4	441.3	30.8	14.4	35.0	0.3	307.8
2A07820	L	0*	65.4	33.9	45.6	12.4	157.2	30.4	12.2	20.7	0.0	77.3
	L	1	54.9	34.6	45.5	13.9	148.9	28.7	9.4	18.5	0.0	56.6
	L	2	56.4	30.1	43.3	12.8	142.7	39.8	10.4	19.9	0.0	57.2
	L	3	52.4	34.9	46.1	13.8	147.2	27.1	8.9	18.6	0.0	65.0
	L	4*	55.9	35.2	50.0	15.2	156.4	27.5	9.8	19.2	0.0	68.9
	U	3	37.5	24.6	36.7	10.7	109.4	22.3	6.8	15.8	0.0	38.8
	U	4*	41.9	25.9	38.7	11.5	118.0	26.0	7.8	14.3	0.0	40.1
2A07821	L	1	63.4	25.3	80.5	13.6	182.8	12.4	7.1	24.4	0.1	94.8
	L	2	56.4	25.1	86.3	13.7	181.5	16.7	7.5	26.1	0.1	108.4
	L	3	57.4	27.5	70.0	14.2	169.1	22.9	8.2	29.3	0.1	85.6
	L	4*	63.4	29.0	81.8	14.7	188.8	11.6	7.2	26.1	0.1	110.6
	U	4*	64.4	27.6	80.5	15.0	187.5	9.3	7.1	26.5	0.1	145.8
2A07822	L	1	118.3	52.2	67.9	16.2	254.5	30.4	12.9	28.2	0.1	130.3
	L	2	104.3	49.5	65.3	14.3	233.4	29.6	8.6	31.3	0.1	122.2
	L	3	113.3	52.2	71.8	16.3	253.5	27.3	11.0	27.1	0.1	160.2
	L	4*	142.7	65.1	81.3	19.9	309.0	27.3	15.0	32.4	0.2	190.3
	U	4*	146.2	62.0	82.2	18.8	309.2	32.7	20.5	34.4	0.1	184.6
2A07823	L	1	77.8	52.3	70.0	21.5	221.6	72.2	4.5	24.9	0.1	79.7
	L	2	69.9	51.6	67.4	19.3	208.2	60.0	3.1	26.7	0.1	84.0
	L	3	67.4	46.9	72.6	22.6	209.5	65.0	2.6	22.9	0.1	102.8
	L	4*	183.1	79.5	85.3	35.5	383.5	93.7	3.6	32.4	0.3	199.8
	U	3	41.4	22.5	66.1	18.2	148.3	16.9	1.5	15.8	0.1	97.7
	U	4*	296.4	66.4	72.2	28.1	463.1	42.9	4.9	19.4	0.6	352.6

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2A07824	L	1	46.9	27.4	35.1	10.4	119.7	28.3	20.6	13.2	0.0	31.4
	L	2	40.5	28.5	34.4	10.7	114.2	29.7	22.0	16.5	0.0	37.6
	L	3	39.5	26.7	36.0	11.8	114.1	28.3	18.5	13.7	0.0	41.9
	L	4*	48.2	29.2	41.4	12.4	131.1	32.5	15.9	12.6	0.0	45.8
	U	4*	34.9	19.8	33.1	7.8	95.6	29.8	10.0	11.4	0.0	28.7
2A07825	L	0*	30.4	20.4	42.2	8.4	101.3	15.4	1.5	14.8	0.0	75.1
	L	1	31.6	22.0	43.9	10.2	107.8	15.8	0.2	14.9	0.0	41.2
	L	2	30.1	21.8	41.6	9.3	102.8	22.8	1.2	16.9	0.0	45.6
	L	3	28.6	21.5	42.5	9.7	102.3	15.2	0.6	15.1	0.0	43.3
	L	4*	35.1	25.5	45.7	12.4	118.7	22.9	2.1	14.3	0.0	54.0
	U	3	40.5	26.5	55.7	9.6	132.3	21.4	4.1	55.6	0.0	27.9
	U	4*	44.8	31.0	52.2	10.7	138.7	26.9	4.2	45.1	0.0	27.0
2A07826	L	1	232.5	89.6	189.5	35.8	547.4	32.5	45.5	93.7	0.4	274.8
	L	2	213.1	89.7	214.9	35.0	552.7	26.0	35.8	88.3	0.3	323.3
	L	3	233.0	97.9	175.7	38.6	545.3	47.9	44.2	87.7	0.5	297.4
	L	4*	236.0	92.1	212.7	39.1	580.0	33.7	54.4	98.7	0.2	311.2
	U	3	202.1	78.7	206.6	35.5	523.0	44.3	48.6	99.0	0.2	255.6
	U	4*	313.9	108.6	96.6	94.6	613.6	98.9	40.0	330.1	0.0	131.8
2A07827	L	1	234.5	66.6	43.1	12.6	356.8	30.6	3.7	18.3	0.4	207.6
	L	2	151.7	64.2	40.7	14.4	271.1	32.3	3.6	20.2	0.3	195.8
	L	3	170.2	64.2	41.6	12.2	288.2	33.5	3.0	18.9	0.2	178.2
	L	4*	223.6	87.2	46.1	19.2	376.0	35.4	6.2	22.1	0.3	261.2
	U	4*	38.4	27.1	44.8	11.9	122.2	33.9	2.5	12.8	0.0	56.8
2A07828	L	0*	31.4	19.2	31.7	9.0	91.2	17.8	4.7	14.1	0.0	45.1
	L	1	30.6	21.0	32.6	10.1	94.3	17.6	4.5	13.5	0.0	31.7
	L	2	29.5	19.7	30.8	9.6	89.7	20.6	4.0	14.2	0.0	35.0
	L	3	29.1	21.1	33.6	10.5	94.4	15.9	4.4	13.0	0.0	40.5
	L	4*	108.3	39.2	35.5	16.2	199.1	27.9	7.9	15.3	0.1	98.2
	U	3	16.3	15.4	27.9	8.6	68.2	9.3	4.7	10.9	0.0	23.2
	U	4*	25.4	18.7	26.9	8.4	79.4	19.1	4.6	10.3	0.0	19.0
2A07829	L	1	30.3	19.2	44.8	10.9	105.2	14.8	8.9	16.0	0.0	59.6
	L	2	30.2	18.1	41.8	11.3	101.4	15.9	9.3	17.5	0.0	52.5
	L	3	32.5	19.0	42.2	11.4	105.2	13.5	11.1	15.8	0.0	35.7
	L	4*	39.7	23.2	47.8	12.5	123.2	12.5	15.1	15.4	0.0	60.6
	U	3	24.9	16.5	42.1	10.4	93.8	6.2	0.0	13.4	0.0	45.9
	U	4*	29.4	19.7	46.5	11.4	107.2	6.5	1.1	12.9	0.0	71.9

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2A07830	L	0*	121.8	59.9	105.7	20.7	308.0	34.4	26.1	51.6	0.4	228.4
	L	1	108.8	61.8	109.2	19.8	299.6	31.2	21.6	41.8	0.2	169.9
	L	2	176.6	93.8	123.5	52.2	446.1	65.2	26.8	84.3	0.0	165.4
	L	3	114.3	63.9	107.4	20.7	306.3	30.1	21.7	47.5	0.1	153.8
	L	4*	29.8	17.3	68.3	12.6	128.0	15.3	1.6	17.0	0.0	58.8
	U	4*	148.7	75.1	130.9	31.7	386.4	32.9	32.7	59.8	0.1	200.9
2A07831	L	0*	206.1	113.5	263.5	23.0	606.1	62.3	17.9	192.1	0.5	336.3
	L	1	182.1	118.5	487.2	25.8	813.6	83.5	15.3	403.4	0.5	307.3
	L	2*	176.6	114.3	253.2	28.4	572.5	85.6	24.8	171.0	0.1	188.2
	L	3	191.6	132.4	965.7	33.2	1323.0	89.7	16.6	840.7	0.2	317.6
	L	4*	183.6	111.1	134.0	28.1	456.8	55.0	18.7	63.2	0.2	227.3
	U	3	110.8	73.3	94.4	19.0	297.5	25.8	18.5	42.9	0.1	161.4
	U	4*	127.7	79.0	109.2	25.3	341.2	35.0	26.6	55.0	0.1	190.3
2A07832	L	1	57.9	33.6	46.5	12.4	150.4	26.4	6.7	19.2	0.0	61.0
	L	2	52.9	36.4	46.1	12.1	147.5	27.5	15.0	33.3	0.0	62.6
	L	3	56.4	37.2	48.7	14.2	156.5	26.9	8.7	20.3	0.0	76.5
	L	4*	66.4	41.5	52.2	20.9	181.1	37.1	9.9	23.3	0.0	92.1
	U	3	51.4	33.2	46.5	13.3	144.5	27.7	2.9	16.2	0.0	81.2
	U	4*	58.9	35.9	50.9	14.9	160.6	29.1	4.5	16.2	0.1	87.8
2A07833	L	1	138.5	73.2	54.4	12.6	278.7	26.0	5.0	21.3	0.4	179.5
	L	2	126.2	76.3	53.1	12.6	268.2	31.0	6.4	25.1	0.2	179.5
	L	3	130.2	75.5	58.3	18.5	282.5	25.8	6.6	24.4	0.2	208.3
	L	4*	179.1	103.6	69.6	20.3	372.7	38.3	10.0	25.4	0.4	262.8
	U	3	143.7	61.8	93.1	16.9	315.5	9.6	8.1	91.7	0.1	184.9
	U	4*	161.7	68.5	113.5	19.2	362.9	11.9	8.1	139.1	0.1	199.4
2A07834	L	0*	22.2	16.0	41.9	7.6	87.7	18.9	2.7	21.7	0.0	48.2
	L	1	24.1	18.5	41.6	8.2	92.3	15.7	2.6	22.8	0.0	39.8
	L	2	30.6	19.0	36.9	8.4	95.0	20.7	2.0	24.0	0.0	21.5
	L	3	27.2	18.7	41.8	8.6	96.2	15.5	4.0	20.8	0.0	25.5
	L	4*	32.3	20.8	43.9	10.1	107.2	19.8	3.3	22.1	0.0	42.2
	U	4*	45.9	30.4	58.3	13.0	147.6	25.2	14.7	60.4	0.0	21.5
2A07835	L	1	40.7	28.6	72.2	9.5	151.0	25.1	1.3	23.1	0.1	79.3
	L	2	43.9	30.3	70.9	10.3	155.4	24.6	1.5	27.1	0.1	90.2
	L	3	39.5	30.7	71.3	11.0	152.5	24.8	1.5	25.4	0.1	72.1
	L	4*	60.6	37.9	79.6	12.5	190.7	21.7	5.5	23.7	0.1	120.3
	U	4*	46.9	28.2	65.7	10.0	150.8	14.2	3.7	24.8	0.1	82.2

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2A07881	L	1	432.6	228.7	299.7	50.9	1011.9	174.9	27.9	183.4	1.3	506.6
	L	2	405.7	216.8	273.8	49.1	945.4	203.5	29.8	180.5	0.6	440.0
	L	3	410.2	215.5	303.2	58.6	987.4	174.9	21.0	184.2	1.2	566.2
	L	4*	623.7	312.6	508.9	81.8	1527.1	156.6	9.5	394.9	5.3	851.0
	U	3	296.9	158.8	208.4	41.7	705.7	150.3	21.6	75.0	0.5	425.1
	U	4*	436.6	233.6	266.2	62.1	998.6	125.8	23.1	117.1	1.4	672.7
2A07882	L	1	65.1	34.3	52.2	11.1	162.7	22.4	16.3	16.4	0.1	85.2
	L	2	51.9	29.8	47.4	10.9	140.0	22.1	14.6	20.3	0.1	88.0
	L	3	64.4	34.1	54.4	12.6	165.4	21.0	15.6	20.0	0.0	73.6
	L	4*	89.3	48.5	67.4	15.2	220.4	20.7	26.1	20.6	0.1	136.2
	U	4*	42.8	22.5	45.7	10.0	121.1	22.3	16.0	13.0	0.0	54.0
2A08801	L	0*	1596.8	183.9	96.7	12.5	1889.8	55.6	1.6	40.6	20.1	1482.3
	L	1	1526.9	176.9	97.4	14.4	1815.7	67.0	1.8	37.5	12.4	1448.5
	L	2	1127.7	140.7	79.2	23.7	1371.3	80.4	1.8	41.2	3.4	919.3
	L	3	1037.9	134.1	73.9	15.9	1261.8	43.9	2.4	38.6	12.7	1631.4
	L	4*	1566.9	178.5	93.1	20.4	1858.9	53.7	4.7	40.3	13.4	1569.9
	U	4*	1492.0	171.9	60.9	11.7	1736.5	49.6	1.7	32.7	8.2	1448.9
2A08802	L	1	41.1	40.9	39.5	13.5	135.0	15.2	6.2	18.9	0.1	73.4
	L	2	33.7	67.4	39.0	17.3	157.3	14.7	7.0	18.7	0.0	74.8
	L	3	34.5	39.8	39.4	14.0	127.8	15.1	5.5	19.0	0.0	64.7
	L	4*	35.3	40.6	39.5	13.2	128.7	11.0	7.1	18.6	0.0	65.9
	U	4*	36.9	28.7	60.9	16.1	142.6	15.0	1.1	15.3	0.0	74.3
2A08803	L	1	122.8	67.6	45.1	10.2	245.7	25.2	2.7	18.6	0.8	151.1
	L	2	112.3	66.9	45.2	10.3	234.7	24.8	2.6	22.8	0.2	161.8
	L	3	127.2	71.4	43.9	11.1	253.7	26.9	2.4	18.1	0.2	150.7
	L	4*	139.7	78.4	46.5	12.0	276.7	29.8	6.2	20.2	0.2	177.5
	U	4*	147.2	100.4	47.4	10.3	305.2	21.2	9.5	22.8	0.2	205.4
2A08804	L	1	27.5	27.1	37.8	11.3	103.8	24.8	2.5	19.7	0.0	43.4
	L	2	28.4	26.6	37.4	11.8	104.1	22.9	3.9	18.9	0.0	46.4
	L	3	28.1	27.0	39.2	12.9	107.3	20.5	3.1	18.9	0.0	37.4
	L	4*	32.5	30.5	39.0	13.3	115.3	24.3	5.5	17.7	0.0	38.9
	U	4*	29.7	23.1	38.6	12.0	103.5	22.7	5.3	18.1	0.0	50.6
2A08805	L	1	68.4	52.0	55.5	15.6	191.5	35.2	8.0	27.0	0.0	79.2
	L	2	60.9	48.1	62.0	15.2	186.2	32.1	6.0	30.2	0.1	100.6
	L	3	70.4	51.8	54.4	16.4	193.0	32.1	7.0	24.0	0.1	91.5
	L	4*	88.8	62.1	55.2	17.5	223.7	38.9	9.2	27.3	0.1	109.4
	U	4*	30.6	37.5	36.0	10.0	114.2	32.1	0.8	18.2	0.0	38.0

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2A08806	L	1	65.9	52.9	80.1	39.3	238.2	15.6	26.3	34.7	0.0	78.5
	L	2	61.4	46.2	85.7	27.1	220.4	13.8	20.8	27.4	0.1	143.5
	L	3	68.4	50.2	79.6	39.4	237.5	30.0	42.6	31.6	0.1	131.4
	L	4*	75.3	57.6	82.6	29.4	245.0	11.9	24.0	28.5	0.1	137.3
	U	4*	54.4	47.1	65.7	26.8	194.1	11.7	7.6	22.3	0.1	119.7
2A08808	L	1	293.2	78.6	62.5	21.0	455.2	167.9	5.4	28.6	0.1	135.0
	L	2	267.5	78.5	71.3	16.2	433.5	169.9	4.1	30.7	0.3	179.0
	L	3	296.9	78.5	69.6	18.0	463.0	198.0	5.0	26.5	0.3	174.0
	L	4*	425.4	99.9	77.9	23.8	627.0	273.8	8.5	26.4	0.4	271.0
	U	4*	71.4	54.0	70.5	15.9	211.8	43.7	8.0	21.9	0.1	113.6
2A08809	L	0*	39.8	29.8	49.6	14.0	133.2	19.5	1.6	21.7	0.0	75.9
	L	1	36.8	32.0	50.5	15.8	135.0	18.0	1.8	22.4	0.0	58.0
	L	2*	49.0	34.0	46.1	18.8	147.9	30.2	5.2	21.3	0.0	60.3
	L	3	37.5	32.8	52.9	16.8	139.9	17.0	2.2	21.0	0.0	72.3
	L	4*	42.5	33.6	51.3	17.0	144.4	21.9	3.5	20.1	0.0	56.6
	U	4*	37.3	31.6	48.7	16.4	134.1	26.4	3.8	20.1	0.0	55.4
2A08810	L	1	76.8	58.6	64.8	16.1	216.3	18.4	14.7	30.2	0.1	106.6
	L	2	67.9	59.1	57.0	15.8	199.8	27.3	15.1	29.9	0.1	106.4
	L	3	71.4	61.1	63.1	18.4	214.0	18.6	14.5	32.2	0.1	130.3
	L	4*	95.6	72.0	66.3	26.3	260.3	28.4	21.7	34.1	0.1	170.8
	U	4*	68.4	72.6	57.9	12.9	211.7	14.3	2.0	22.3	0.2	180.9
2A08811	L	0*	95.6	57.1	64.9	12.9	230.5	62.8	2.7	33.3	0.1	115.3
	L	1	85.8	60.1	68.3	14.4	228.7	70.4	3.2	35.5	0.1	82.2
	L	2	110.8	63.3	68.7	15.5	258.3	76.6	7.5	45.7	0.1	99.1
	L	3	94.3	63.0	70.9	16.2	244.4	70.2	3.6	32.4	0.1	104.5
	L	4*	123.5	71.8	70.3	17.5	283.1	66.4	6.7	34.8	0.1	152.9
	U	4*	70.9	55.9	72.6	18.3	217.7	50.0	4.6	28.8	0.1	100.5
2A08901	L	1	50.4	32.7	65.3	14.1	162.5	15.8	6.0	20.6	0.1	109.0
	L	2	57.4	33.7	58.3	15.8	165.2	20.2	9.0	24.7	0.1	95.2
	L	3	63.9	32.0	64.8	17.0	177.6	13.7	5.2	21.5	0.1	90.2
	L	4*	77.3	41.0	67.0	18.5	203.9	18.5	8.2	22.5	0.2	148.4
	U	3	27.6	19.3	42.0	10.7	99.7	13.6	0.0	19.8	0.0	44.9
	U	4*	29.6	21.8	41.6	9.0	102.0	15.7	0.6	17.5	0.0	55.1
2A08902	L	0*	27.2	21.6	44.5	8.7	102.0	15.2	2.0	21.4	0.0	71.5
	L	1	24.7	23.1	45.2	9.5	102.6	13.3	1.6	23.2	0.0	51.5
	L	2*	26.3	23.3	39.6	9.8	99.1	23.9	3.1	21.0	0.0	28.0
	L	3	26.2	18.7	46.1	9.9	100.9	12.4	1.5	20.8	0.0	41.0
	L	4*	33.0	25.8	47.8	11.7	118.5	14.6	1.6	20.9	0.0	56.3
	U	4*	42.0	30.5	51.3	12.0	135.8	19.9	3.8	23.7	0.0	61.3

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2A08903	L	1	57.9	48.3	59.0	13.7	178.9	22.9	10.7	32.7	0.0	59.5
	L	2	60.4	49.2	64.8	13.8	188.1	21.9	10.0	32.7	0.1	96.4
	L	3	61.4	47.3	55.5	14.1	178.3	25.5	9.1	28.8	0.1	80.4
	L	4*	78.3	60.0	62.2	17.1	217.6	28.3	19.4	33.6	0.1	111.5
	U	3	56.4	42.6	52.2	13.9	165.1	27.1	8.0	25.8	0.1	78.6
	U	4*	80.3	60.6	59.6	16.4	216.9	28.9	20.5	32.2	0.1	107.5
2A08904	L	0*	94.8	54.2	87.4	17.1	253.5	23.9	9.1	30.2	0.3	183.2
	L	1	86.8	55.4	88.7	17.5	248.5	23.1	8.1	31.3	0.1	140.5
	L	2*	82.8	48.5	66.3	32.1	229.8	42.2	16.5	34.6	0.0	95.0
	L	3	83.8	55.6	85.7	19.7	244.8	21.2	6.3	26.9	0.1	139.6
	L	4*	91.8	56.5	83.1	23.7	255.1	29.8	14.0	29.3	0.1	137.6
	U	3	48.8	48.8	110.1	19.8	227.4	12.5	3.2	22.7	0.1	133.2
	U	4*	55.4	52.2	97.0	20.5	225.1	15.3	4.0	23.2	0.1	135.3
2A08905	L	1	34.8	26.8	47.0	12.6	121.3	19.1	0.0	19.8	0.0	56.2
	L	2	27.3	27.7	47.4	13.2	115.7	17.7	1.5	25.7	0.0	60.0
	L	3	29.6	28.5	49.2	14.8	122.1	18.0	1.4	22.3	0.0	55.1
	L	4*	32.2	29.9	54.4	15.5	132.0	15.8	0.9	21.7	0.0	70.6
	U	3	25.6	25.6	43.5	13.5	108.2	17.0	0.4	18.1	0.0	51.2
	U	4*	28.3	28.0	47.8	14.4	118.5	20.3	0.2	18.0	0.0	64.3
2A08906	L	0*	38.8	37.8	53.5	18.6	148.6	16.4	22.4	34.1	0.1	86.7
	L	1	33.2	37.0	52.0	23.8	145.9	16.4	20.9	34.7	0.0	50.3
	L	2*	31.7	32.3	45.7	58.8	168.5	35.4	32.6	37.0	0.0	34.0
	L	3	34.0	38.7	53.5	29.1	155.4	16.3	19.5	33.9	0.0	40.4
	L	4*	23.6	27.7	42.2	19.6	113.1	31.9	45.2	23.1	0.0	28.6
	U	4*	34.3	36.1	47.4	30.2	148.0	37.5	26.1	31.6	0.0	41.2
2B036003	L	1	1646.7	294.5	78.7	20.4	2040.3	210.3	140.2	112.0	5.9	1484.1
	L	2	2150.7	363.6	80.0	21.7	2616.0	245.7	164.5	115.7	9.4	1788.8
	U	1	1676.6	324.1	75.7	22.0	2098.5	214.4	151.3	115.9	4.4	1490.4
	U	2	2225.5	401.4	76.1	21.7	2724.8	249.8	177.4	117.9	8.3	2039.0
2B036023	L	1	2284.1	994.6	178.3	50.0	3507.0	278.8	419.8	352.6	35.2	2717.9
	L	2	2599.8	1061.2	164.4	59.8	3885.2	295.6	438.7	316.0	8.9	2278.9
	U	1	184.3	148.2	247.2	26.7	606.3	180.5	12.1	309.3	0.1	107.2
	U	2	200.1	152.2	242.7	24.8	619.8	179.9	7.6	299.0	0.0	83.8
2B036027	L	1	688.6	241.8	99.2	28.6	1058.3	202.6	135.8	115.9	2.0	598.1
	L	2	718.1	269.3	110.0	26.6	1124.1	208.3	87.9	123.4	4.9	706.9
	U	1	778.4	253.4	87.0	26.6	1145.4	203.4	139.4	106.6	1.7	668.5
	U	2	805.5	274.0	98.0	26.2	1203.7	209.7	79.3	109.8	9.5	823.0

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2B036028	L	1	175.6	86.4	128.8	20.5	411.3	110.3	43.6	136.3	0.1	93.4
	L	2	163.6	87.5	103.7	18.1	372.9	110.0	29.8	86.5	0.2	146.1
	U	1	122.8	66.3	56.5	20.0	265.6	83.5	33.7	32.2	0.0	72.3
	U	2	110.8	73.8	58.2	17.5	260.4	84.0	28.5	32.6	0.1	116.8
2B036031	L	1*	2250.5	2434.9	67.9	34.0	4787.3	4684.5	1.1	29.3	0.0	12.5
	L	2*	2512.7	2278.6	74.2	35.6	4901.1	4852.8	2.3	36.2	0.2	117.5
	U	1*	1751.5	2895.6	63.9	36.8	4747.8	5642.2	0.3	20.6	0.0	0.3
	U	2*	1778.6	2811.7	69.2	35.9	4695.4	5533.3	2.0	27.7	0.0	0.1
2B036046	L	1	93.3	76.6	102.2	14.7	286.8	95.1	12.0	119.9	0.0	26.9
	L	2	107.5	80.0	109.0	12.9	309.4	92.3	11.1	126.7	0.1	79.0
	U	1	.	.	.	.	.	71.4	1.9	29.9	0.0	0.3
	U	2	29.0	29.0	26.5	8.5	93.1	69.3	3.0	29.0	0.0	1.1
2B036051	L	1*	4371.2	1472.5	126.1	39.4	6009.2	851.5	432.3	293.4	46.3	3831.6
	L	2*	4228.9	1615.1	127.2	34.7	6005.8	961.7	400.7	281.7	70.3	4219.1
	U	1*	4281.4	1332.6	122.2	41.7	5777.9	795.3	411.3	284.9	40.6	3681.1
	U	2*	4234.8	1608.3	128.1	34.9	6006.1	951.0	401.3	280.9	98.1	4260.7
2B036057	L	1	1327.3	620.2	243.6	53.2	2244.4	435.1	472.6	389.3	2.1	899.1
	L	2	1546.5	584.5	273.3	48.1	2452.5	399.8	310.7	386.5	27.6	1409.1
	U	1	793.4	310.9	153.1	38.4	1295.8	474.7	111.8	222.0	0.4	384.5
	U	2	723.0	338.0	192.3	28.9	1282.2	405.5	111.8	242.7	2.9	631.2
2B036062	L	1	218.1	151.4	81.8	22.4	473.6	157.2	50.8	66.6	0.1	137.4
	L	2	197.8	156.9	84.0	19.0	457.7	162.6	33.0	60.7	0.8	227.9
	U	1	200.1	148.9	77.0	20.8	446.8	147.2	51.1	58.4	0.1	128.9
	U	2	186.8	147.0	86.1	19.2	439.1	158.1	30.2	60.5	0.8	205.4
2B036076	L	1	219.6	111.1	47.8	18.9	397.4	141.8	43.1	55.9	0.1	120.3
	L	2	262.6	126.9	45.3	17.6	452.5	144.1	35.1	48.5	0.7	244.0
	U	1	232.0	118.5	62.6	18.9	432.0	149.3	41.9	70.0	0.2	131.6
	U	2	269.3	131.0	61.9	16.3	478.4	141.1	35.5	64.5	0.6	239.6
2B036083	L	1	1576.8	745.3	535.0	80.3	2937.5	530.9	346.8	662.9	3.1	1320.6
	L	2	1496.8	726.4	611.5	55.6	2890.4	436.7	299.3	662.9	22.2	1597.8
	U	1	1566.9	789.7	526.3	99.7	2982.6	503.8	350.0	648.8	2.6	1336.9
	U	2	1386.4	734.0	535.4	56.6	2712.4	393.6	331.2	631.9	18.4	1485.2
2B041008	L	1	174.2	154.6	67.9	23.4	420.0	208.2	29.8	45.7	0.1	89.7
	L	2	167.3	153.8	85.7	26.2	433.1	208.8	13.3	51.5	0.2	143.6
	U	1	165.2	151.4	64.8	25.3	406.7	201.3	27.6	42.9	0.1	83.7
	U	2	159.6	145.5	85.0	26.5	416.6	214.1	16.2	51.4	0.2	151.7

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2B041016	L	1	277.4	199.9	152.7	31.7	661.7	229.0	9.2	99.9	0.3	260.5
	L	2	341.8	230.7	198.7	28.9	800.0	218.1	2.3	138.0	2.8	452.5
	U	1	202.1	240.2	263.6	36.1	742.0	247.8	30.5	281.0	0.0	133.2
	U	2	222.2	276.8	357.3	39.0	895.3	238.4	26.5	382.3	0.1	234.9
2B041018	L	1	1507.0	498.5	128.3	62.9	2196.7	951.5	66.0	78.4	2.9	1013.8
	L	2	1731.6	508.8	157.4	70.8	2468.6	1072.2	27.2	86.8	9.3	1278.3
	U	1	226.5	338.9	37.7	57.0	660.2	472.6	392.0	54.7	0.0	5.3
	U	2	432.1	298.4	38.7	57.6	826.7	427.3	350.1	58.7	0.0	6.9
2B041020	L	1	208.6	209.8	70.0	38.1	526.5	383.1	7.9	41.5	0.0	63.5
	L	2	188.8	198.5	78.6	45.0	510.9	353.9	0.6	46.2	0.1	120.4
	U	1	313.9	218.8	52.2	39.9	624.8	316.5	5.3	48.5	0.1	118.3
	U	2	207.6	148.9	64.2	36.6	457.4	272.7	1.0	48.0	0.1	177.4
2B041029	L	1	344.3	199.9	97.0	33.2	674.4	231.1	46.1	91.1	0.3	232.1
	L	2	308.0	175.4	105.6	31.2	620.2	214.2	28.4	83.7	0.9	294.4
	U	1	211.6	168.6	75.7	29.7	485.6	200.1	35.3	63.5	0.1	132.8
	U	2	190.2	156.8	85.8	29.6	462.4	192.5	29.3	68.6	0.4	188.4
2B041032	L	1	271.5	292.8	161.8	32.0	758.1	403.9	118.7	79.8	0.1	120.4
	L	2	253.1	287.5	154.1	35.4	730.1	374.4	148.1	74.7	0.2	166.0
	U	1	344.1	347.1	761.2	63.2	1515.6	494.5	44.9	912.6	0.0	39.0
	U	2	567.5	561.8	1053.9	80.1	2263.3	409.4	41.6	1733.1	0.0	22.6
2B041042	L	1	963.1	269.0	86.1	29.7	1347.9	331.0	11.0	71.4	3.7	817.4
	L	2	1194.0	299.0	99.4	28.7	1621.1	305.8	6.6	76.2	14.8	1251.6
	U	1	938.1	267.3	89.2	30.4	1325.1	341.4	3.4	76.2	4.0	812.5
	U	2	1082.5	295.2	98.0	28.9	1504.7	301.4	6.8	75.1	16.6	1143.8
2B041049	L	1	1137.7	258.3	41.7	20.0	1457.7	189.5	4.4	38.1	6.1	1126.9
	L	2	1228.9	294.1	43.8	21.5	1588.4	180.1	4.8	38.9	20.7	1458.7
	U	1	61.9	91.3	22.8	18.9	194.9	231.1	0.2	24.0	0.0	1.1
	U	2	58.8	82.2	23.1	21.2	185.3	227.6	0.1	25.6	0.0	0.7
2B041054	L	1	423.7	493.6	204.4	63.4	1185.1	635.0	93.7	88.9	0.3	284.6
	L	2	608.8	735.4	249.7	67.5	1661.4	726.6	132.4	176.6	0.3	450.5
	U	1	270.0	310.9	107.0	49.6	737.5	391.4	0.9	36.7	0.1	236.8
	U	2	337.3	408.0	121.4	54.5	921.2	426.8	4.1	33.9	0.3	344.9
2B042003	L	1	198.6	81.4	110.1	25.6	415.6	142.4	12.5	93.9	0.1	125.2
	L	2	204.6	90.7	119.8	26.0	441.1	135.5	9.4	99.4	0.5	202.3
	U	1	166.7	68.9	111.4	25.6	372.4	149.7	11.0	96.5	0.1	132.1
	U	2	180.2	71.9	127.5	25.7	405.4	136.9	9.9	100.9	0.2	148.4

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2B042005	L	1	2529.9	1357.3	578.5	38.9	4504.6	1272.1	68.7	366.7	35.5	2557.8
	L	2	2690.8	1499.4	635.6	33.8	4859.5	1252.5	36.4	375.2	46.4	3347.6
	U	1	2465.1	954.2	482.8	64.9	3967.1	986.9	1129.1	612.2	3.3	1234.3
	U	2	1625.6	761.4	344.1	45.8	2776.8	632.1	62.6	234.9	9.6	2032.5
2B042007	L	1	1137.7	564.3	231.4	32.5	1965.9	441.4	243.6	290.6	48.6	822.0
	L	2	1117.8	590.8	262.7	28.3	1999.6	359.9	185.1	311.6	8.0	1173.5
	U	1	1092.8	554.4	209.7	31.1	1888.0	423.7	206.5	272.8	5.7	915.2
	U	2	1121.1	571.4	250.6	28.3	1971.3	347.3	161.8	281.3	18.5	1214.0
2B042017	L	1	568.9	342.2	168.8	30.9	1110.8	152.0	290.3	223.1	0.7	390.4
	L	2	548.3	313.2	173.0	28.7	1063.2	135.3	280.0	223.7	2.0	424.8
	U	1	588.8	352.1	173.1	31.5	1145.5	148.4	312.9	231.9	1.8	401.9
	U	2	534.1	304.5	176.3	29.5	1044.4	133.9	289.8	232.6	1.6	405.4
2B042022	L	1	328.8	301.1	107.4	7.2	744.5	251.9	4.1	152.6	0.4	279.1
	L	2	332.4	306.1	118.3	6.8	763.6	266.6	0.0	151.5	1.8	419.5
	U	1	367.8	367.7	99.2	5.1	839.8	299.8	116.6	101.8	0.5	390.5
	U	2	354.4	378.6	113.8	4.9	851.7	301.9	5.1	108.4	1.4	470.0
2B042032	L	1	4151.7	480.4	194.0	26.6	4852.7	603.8	501.6	502.1	26.3	2931.9
	L	2	4080.9	558.9	184.4	22.7	4846.8	659.7	610.9	502.3	41.6	3288.9
	U	1	3203.6	631.8	120.9	37.3	3993.6	841.1	551.6	505.0	21.1	2053.9
	U	2	4133.1	662.8	138.1	23.4	4957.3	688.1	755.9	503.8	24.5	3368.4
2B042036	L	1	688.6	412.9	274.0	29.4	1405.0	335.2	106.8	392.1	1.4	496.1
	L	2	627.7	411.3	272.6	30.6	1342.1	288.8	67.3	400.6	5.2	619.4
	U	1	643.7	398.1	281.9	30.2	1353.9	341.4	107.6	394.9	1.1	459.6
	U	2	620.6	404.5	274.5	30.3	1329.9	280.0	65.6	405.7	3.7	604.3
2B042044	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
2B042047	L	1	323.6	255.4	311.0	38.0	928.0	107.6	175.0	418.9	0.2	189.0
	L	2	281.3	243.9	302.0	37.1	864.3	100.7	154.5	401.3	0.4	237.6
	U	1	317.4	246.8	325.4	38.4	927.9	105.8	175.8	423.1	0.1	156.8
	U	2	277.8	242.0	303.9	40.2	864.0	103.0	164.9	446.3	0.2	202.1
2B042052	L	1	868.3	557.7	1400.7	33.5	2860.2	203.4	119.5	1943.7	1.2	484.9
	L	2	901.5	586.0	1485.0	34.5	3007.1	178.2	93.2	1994.1	3.1	614.9
	U	1*	1956.1	547.9	1348.5	100.0	3952.4	341.4	274.2	1797.0	6.9	1607.7
	U	2*	2263.6	700.9	2061.6	99.1	5125.1	323.0	294.5	2250.0	15.4	2023.1

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2B042063	L	1	1013.0	483.7	448.0	45.3	1990.0	476.8	102.6	493.7	2.2	911.7
	L	2	927.9	512.4	519.9	51.6	2011.8	460.8	35.7	507.8	4.1	995.5
	U	1	1018.0	462.3	465.4	45.0	1990.7	480.9	104.8	499.3	3.0	935.6
	U	2	917.3	500.4	462.8	51.6	1932.1	467.8	35.1	459.5	5.2	1002.4
2B042064	L	1	262.5	200.7	218.8	33.0	715.0	70.0	177.4	231.0	0.2	239.2
	L	2	250.8	210.3	231.1	36.2	728.5	84.4	161.9	194.1	0.4	285.5
	U	1	356.8	184.3	219.2	60.6	820.9	60.0	190.3	182.5	0.1	334.5
	U	2	356.7	193.1	238.7	106.6	895.2	64.8	182.1	202.7	0.5	469.0
2B047013	L	1	319.9	386.6	174.9	56.0	937.3	572.5	2.6	30.5	0.2	224.2
	L	2	663.7	847.3	261.9	67.0	1839.8	1347.1	2.4	47.1	0.7	285.5
	U	1	403.2	487.0	189.7	55.7	1135.6	759.9	2.6	36.1	0.4	248.5
	U	2	461.1	557.7	234.9	67.0	1320.7	824.5	2.3	36.4	0.3	332.3
2B047019	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
2B047022	L	1	818.4	132.4	53.5	27.9	1032.2	196.1	22.9	24.8	2.6	796.3
	L	2	783.4	150.5	53.5	23.9	1011.4	174.5	26.0	25.4	4.6	741.0
	U	1	983.0	137.4	46.5	21.9	1188.9	187.2	46.5	21.3	2.1	908.4
	U	2	1052.9	158.8	45.7	22.9	1280.2	163.9	54.2	24.4	3.1	1010.6
2B047032	L	1	112.8	80.9	37.8	18.2	249.7	129.3	38.6	11.8	0.0	74.7
	L	2	109.8	87.2	37.3	17.1	251.4	118.7	34.0	13.8	0.0	58.7
	U	1	89.3	62.7	33.5	17.6	203.1	100.6	35.5	12.2	0.0	63.3
	U	2	98.8	75.4	36.0	17.1	227.3	104.3	26.9	12.9	0.1	62.6
2B047036	L	1	88.3	111.1	51.8	21.3	272.5	151.2	3.0	14.2	0.0	56.4
	L	2	80.5	97.6	51.4	21.3	250.7	155.6	2.1	16.9	0.1	68.5
	U	1	87.3	108.6	51.3	21.3	268.6	153.9	2.1	14.8	0.0	59.3
	U	2	79.6	99.1	50.3	21.5	250.6	155.0	1.8	16.3	0.0	72.0
2B047044	L	1	336.8	104.5	38.1	17.6	496.9	122.4	16.3	14.8	0.5	250.1
	L	2	648.7	167.8	41.2	18.9	876.6	147.4	5.9	11.1	4.5	823.9
	U	1	107.3	74.3	35.1	16.9	233.5	99.7	15.4	10.4	0.0	72.7
	U	2	120.3	73.6	41.8	18.4	254.0	93.1	7.1	9.7	0.0	82.2
2B047050	L	1	3410.7	1772.7	61.1	66.1	5310.6	139.2	158.9	130.3	55.2	4676.5
	L	2	3355.7	1667.7	59.3	56.1	5138.9	134.9	149.5	115.5	85.1	4875.1
	U	1	3532.9	1332.6	78.3	77.5	5021.3	192.8	147.3	162.8	86.5	4315.9
	U	2	4040.6	1294.5	77.3	68.6	5481.0	193.5	161.4	154.4	156.3	5034.3

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2B047061	L	1	628.7	381.7	68.3	33.5	1112.2	151.8	97.1	84.1	3.5	716.9
	L	2	609.5	370.7	70.2	33.8	1084.2	147.0	79.4	82.7	59.2	758.9
	U	1	480.5	302.7	61.3	30.2	874.8	147.0	70.0	68.0	1.6	539.5
	U	2	467.7	291.9	61.6	32.2	853.4	151.0	63.6	68.2	4.7	597.7
2B047062	L	1*	3697.6	1908.4	91.8	157.5	5855.3	416.4	86.5	185.6	63.8	4820.5
	L	2*	4525.7	3072.0	432.9	72.9	8103.4	351.2	54.0	406.2	72.1	7517.7
	U	1*	4396.2	2895.6	274.0	64.9	7630.7	364.3	75.8	304.7	60.1	6563.2
	U	2*	3934.9	2265.4	82.3	63.4	6346.0	318.6	144.8	149.3	69.4	6155.5
2B047066	L	1	114.8	47.6	112.2	24.9	299.5	99.1	1.9	55.3	0.1	124.8
	L	2	111.8	49.6	117.7	22.4	301.5	76.1	0.0	49.3	0.3	185.9
	U	1*	.	.	.	.	.	.	.	.	.	.
	U	2	96.4	53.1	146.7	24.0	320.2	132.8	0.3	58.6	0.1	124.6
2B047076	L	1	26.1	48.5	26.6	41.2	142.3	107.2	0.0	23.0	0.0	7.1
	L	2	27.8	45.5	26.6	41.0	140.9	110.1	0.4	23.7	0.0	8.9
	U	1	33.4	40.0	26.6	53.1	153.1	110.4	5.6	21.9	0.0	9.9
	U	2	34.8	41.7	26.3	52.0	154.8	112.7	7.6	22.2	0.0	11.1
2B047078	L	1	333.3	130.0	245.8	46.3	755.4	83.1	72.7	180.0	0.3	379.0
	L	2	341.5	138.6	262.0	48.5	790.6	68.7	69.9	200.9	1.5	480.9
	U	1	159.7	102.0	120.5	39.4	421.6	84.1	34.7	85.2	0.0	178.1
	U	2	165.9	113.5	127.3	45.0	451.6	101.1	22.8	89.1	0.2	270.3
2B047087	L	1*	4322.5	753.4	701.4	37.3	5814.6	1857.1	2.6	568.3	48.9	3607.5
	L	2*	3703.9	713.3	579.2	31.0	5027.4	1467.8	2.3	400.6	53.2	3581.0
	U	1*	4821.5	810.3	531.2	6.4	6169.4	1444.2	0.0	183.4	51.0	4633.7
	U	2*	3903.2	718.5	480.5	46.3	5148.6	1224.6	1.7	240.2	42.9	4081.0
2B047089	L	1	83.4	93.2	69.0	12.6	258.2	67.3	5.0	24.5	0.3	160.0
	L	2	87.6	93.7	68.0	13.0	262.2	70.1	1.8	24.9	0.3	175.4
	U	1	79.2	89.3	67.0	14.1	249.7	70.5	5.2	23.6	0.4	156.3
	U	2	86.7	88.8	68.3	14.2	258.0	73.7	4.5	23.9	0.3	161.5
2B047093	L	1	988.0	90.5	19.6	7.3	1105.4	22.3	0.4	13.1	3.9	1046.3
	L	2*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
2B047100	L	1	384.7	246.8	246.2	28.6	906.4	243.6	5.1	299.0	0.7	256.9
	L	2	420.5	265.2	249.3	31.2	966.2	269.8	3.0	351.5	2.1	374.2
	U	1	310.4	246.8	242.3	27.1	826.6	247.8	5.3	304.7	0.2	174.6
	U	2	384.3	287.3	274.2	28.9	974.7	300.2	2.2	383.7	0.9	309.9

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2B057029	L	1	2040.9	76.2	29.8	9.3	2156.1	21.2	2.4	40.1	16.1	1925.0
	L	2	1851.3	77.6	26.4	27.9	1983.1	14.8	0.5	42.9	5.0	1676.7
	U	1	2400.2	68.9	34.2	9.1	2512.5	30.6	13.3	46.3	6.3	2060.2
	U	2	2519.9	68.9	30.8	8.7	2628.4	26.6	14.8	48.2	9.4	2360.4
2B057042	L	1	504.0	686.0	254.9	42.2	1487.1	855.7	0.8	372.4	0.1	118.0
	L	2	496.0	671.2	241.9	45.8	1454.9	847.4	0.3	341.3	0.1	150.2
	U	1*	1951.1	2763.9	900.4	73.6	5689.1	3331.2	8.4	1591.0	2.1	536.8
	U	2*	1581.8	2179.9	704.7	69.3	4535.7	2435.9	4.7	1167.9	0.8	354.3
2B058015	L	1	194.2	188.7	27.7	34.1	444.6	72.4	2.9	30.6	1.2	328.0
	L	2	225.3	210.3	30.3	36.1	502.1	71.9	4.2	32.1	1.9	404.5
	U	1	10.3	37.8	21.4	32.8	102.2	71.5	0.1	18.3	0.0	8.0
	U	2	12.9	40.4	21.9	32.8	108.0	76.0	0.0	18.8	0.0	8.4
2B058017	L	1	101.7	49.8	95.2	20.7	267.4	31.8	11.3	37.2	0.2	169.5
	U	1	118.4	75.6	102.4	19.8	316.2	33.4	14.2	32.9	0.3	222.7
	U	2	123.2	73.5	102.1	19.7	318.4	32.7	11.2	33.1	0.4	245.3
2B058024	L	1	124.3	75.3	87.0	15.5	302.1	31.9	1.7	24.7	0.5	242.7
	U	1	101.0	59.6	87.9	17.7	266.3	31.3	2.9	25.1	0.2	195.5
	U	2	112.8	60.4	86.3	17.5	277.0	29.0	4.5	25.5	0.4	229.6
2B077012	L	1	1871.2	1390.2	90.9	80.5	3432.9	80.4	39.5	151.2	10.8	3088.2
	U	1	1412.2	1135.2	56.5	46.8	2650.7	50.4	37.6	70.2	13.1	2158.1
2B077016	L	1	2579.8	636.7	118.8	35.8	3371.1	83.3	6.7	94.2	20.7	3191.4
	U	1	2170.6	503.4	75.3	28.1	2777.5	59.5	45.8	163.6	8.5	2265.7
2B087003	L	1	1591.8	804.5	59.6	21.5	2477.4	48.9	40.8	67.4	10.7	2120.6
	U	1	1926.1	523.2	59.6	16.9	2525.8	53.7	27.6	60.7	14.7	2165.2
2B087005	L	1	222.6	88.8	116.6	11.8	439.7	144.3	1.0	89.7	0.1	191.5
	U	1	285.4	118.5	170.5	20.1	594.5	186.1	22.6	122.1	0.1	194.6
2B088002	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
2B088004	L	1	2135.7	381.7	123.1	100.2	2740.7	81.2	81.8	151.5	13.8	2324.9
	U	1	2140.7	321.6	114.8	68.0	2645.2	72.5	92.4	144.2	16.4	2304.8
2B088006	L	1	2380.2	156.3	66.1	18.0	2620.6	160.9	10.9	56.4	27.9	2479.2
	U	1	2300.4	447.5	66.1	18.0	2832.0	137.0	11.2	53.6	21.1	2149.7

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2B088007	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
2B088013	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
2B088016	L	1	1686.6	292.8	97.9	30.4	2107.8	64.8	5.3	59.0	8.6	1882.6
	U	1	583.8	239.4	70.5	18.5	912.2	60.8	0.5	39.2	2.4	799.6
2B088019	L	1	348.3	160.4	119.6	50.6	679.0	161.1	99.7	212.1	0.1	107.4
	U	1	332.3	144.0	123.1	48.3	647.7	146.6	101.0	208.5	0.1	97.5
2B088020	L	1	132.2	78.0	75.7	29.4	315.3	98.3	10.4	130.3	0.0	46.8
	U	1	173.7	87.2	104.0	63.9	428.7	105.1	156.9	87.5	0.0	27.8
2B088021	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
2B088022	L	1	708.6	81.7	37.3	13.6	841.2	62.0	9.7	42.6	2.2	678.4
	U	1	653.7	79.9	35.8	13.4	782.7	62.3	8.5	48.5	1.2	635.5
2B088026	L	1	2789.4	656.4	171.0	45.0	3661.8	179.5	47.7	141.6	37.0	3356.0
	U	1	2093.3	501.0	71.1	41.3	2706.7	49.4	56.7	74.9	12.4	2459.5
2B088033	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
2B088041	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
2B088045	L	1	2085.8	597.2	90.9	80.0	2854.0	60.8	35.2	106.1	14.8	2679.6
	U	1	1167.7	872.0	38.3	19.6	2097.6	40.0	1.4	42.9	13.5	1893.8
2B088049	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
2B088065	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
2B088069	L	1	148.2	119.3	142.7	16.0	426.2	28.1	0.0	37.8	0.7	299.6
	U	1	122.3	98.7	112.2	8.4	341.6	8.5	0.4	32.4	0.5	298.4
2B098006	L	1	150.7	127.5	119.6	14.1	411.9	43.7	0.3	43.4	0.4	283.9
	U	1	149.2	122.6	125.7	10.6	408.1	14.3	2.0	49.1	0.4	284.3

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2B098015	L	1	93.8	99.1	114.2	10.1	317.2	19.2	0.8	41.5	0.3	259.7
	U	1	56.9	64.0	99.2	8.5	228.6	16.4	0.3	34.4	0.1	156.3
2B098019	L	1	116.0	124.5	159.5	20.8	420.7	67.0	0.5	53.5	0.5	277.0
	U	1	71.7	52.2	73.7	14.7	212.3	52.3	0.1	43.9	0.1	99.3
2C028043	L	1	249.3	183.4	151.5	28.8	613.0	398.2	29.0	143.3	0.0	67.4
	L	2	304.4	242.7	237.5	36.1	820.6	418.5	27.3	200.3	0.1	121.3
	U	1	246.6	161.2	171.9	24.8	604.4	342.4	31.2	192.6	0.0	74.0
	U	2	329.3	223.7	227.1	35.8	816.0	353.9	29.7	237.2	0.1	149.7
2C028050	L	1	242.0	129.1	31.2	19.6	421.9	233.2	9.9	87.5	0.0	60.1
	L	2	272.0	129.1	52.6	26.1	479.8	262.3	26.1	44.6	0.0	83.5
	U	1	117.3	83.1	69.2	18.2	287.7	266.5	14.6	33.6	0.0	0.5
	U	2	115.3	69.9	79.2	19.7	284.0	245.7	11.8	88.6	0.0	0.5
2C028051	L	1*	575.0	695.0	28.8	22.1	1320.9	1719.7	12.6	22.7	0.0	0.2
	L	2*	1861.3	1990.7	52.6	30.9	3935.5	4476.3	4.7	26.2	0.0	0.0
	U	1	189.8	80.9	28.3	17.4	316.4	221.9	38.5	22.1	0.0	56.8
	U	2	262.7	105.3	40.7	19.0	427.8	218.6	25.6	22.6	0.2	143.7
2C028056	L	1	412.6	338.4	205.5	30.5	987.0	908.9	32.4	125.9	0.0	33.7
	L	2	908.2	720.6	412.4	41.7	2082.8	1834.2	26.3	176.3	0.0	30.9
	U	1	263.4	192.2	92.4	26.7	574.7	445.8	34.0	69.3	0.0	15.4
	U	2	423.2	350.4	168.8	32.0	974.3	845.3	27.7	100.1	0.0	19.8
2C028057	L	1	194.1	106.9	77.0	20.4	398.4	241.5	24.4	69.7	0.0	21.9
	L	2	200.1	111.1	130.1	23.0	464.2	218.6	16.1	90.3	0.1	101.7
	U	1	187.6	105.3	57.0	19.5	369.4	249.8	21.9	56.7	0.0	25.5
	U	2	190.1	108.6	88.3	22.0	409.0	216.5	12.9	74.5	0.0	72.5
2C028060	L	1*	561.2	474.3	69.8	25.1	1130.4	2111.1	9.4	34.9	0.0	0.1
	L	2*	1392.2	929.5	121.4	40.1	2483.3	4934.3	8.8	29.3	0.0	0.0
	U	1*	155.2	197.4	17.2	19.1	389.0	408.2	7.1	22.9	0.0	0.4
	U	2*	189.1	244.3	19.7	20.2	473.4	526.7	5.6	23.9	0.0	0.3
2C028061	L	1	143.1	98.3	42.3	19.0	302.7	209.6	14.6	41.0	0.0	38.3
	L	2	189.1	100.4	73.9	21.7	385.1	222.8	11.9	66.6	0.0	76.4
	U	1	119.4	90.8	25.2	18.4	253.9	184.4	22.4	23.3	0.0	21.5
	U	2	151.2	98.7	52.6	21.7	324.3	187.4	17.3	33.3	0.0	55.1
2C028069	L	1	90.6	92.1	32.4	15.9	231.0	207.3	2.1	50.2	0.0	0.7
	L	2	97.8	102.0	35.3	15.4	250.5	192.4	0.5	56.1	0.0	1.7
	U	1	88.0	93.9	46.8	15.5	244.2	217.3	2.6	72.0	0.0	0.5
	U	2	94.8	97.9	48.3	17.2	258.1	200.1	2.6	74.5	0.0	0.5

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2C028070	L	1	112.4	75.0	18.0	15.8	221.2	197.6	3.1	23.9	0.0	3.0
	L	2	116.8	69.9	23.5	16.2	226.3	192.6	3.0	26.4	0.0	3.6
	U	1	81.0	60.1	15.4	14.9	171.5	202.1	2.1	20.8	0.0	0.3
	U	2	90.3	59.7	17.1	15.6	182.8	220.7	3.7	23.2	0.0	0.4
2C028071	L	1*	1038.2	1192.4	87.4	33.0	2350.9	2815.2	15.2	82.9	0.0	0.1
	L	2*	2455.1	2443.1	81.8	39.9	5019.9	5517.3	9.1	60.4	0.0	0.0
	U	1*	351.1	502.0	64.4	26.0	943.4	1128.1	299.3	32.6	0.0	0.4
	U	2*	379.7	567.6	65.7	26.3	1039.4	1107.6	6.7	47.7	0.0	0.9
2C028075	L	1	85.8	68.9	31.1	14.2	200.0	194.9	6.1	37.5	0.0	3.4
	L	2	86.3	70.7	30.9	15.6	203.5	174.7	4.5	42.6	0.0	0.5
	U	1	71.9	56.2	16.2	11.1	155.3	201.5	1.0	25.6	0.0	0.3
	U	2	70.9	55.2	16.0	12.2	154.3	186.1	0.7	23.6	0.0	0.6
2C029002	L	1	262.0	105.3	33.7	15.4	416.4	174.1	40.0	44.0	0.0	83.9
	L	2	274.0	103.6	44.4	14.7	436.6	175.7	27.9	51.6	0.1	148.8
	U	1	192.1	83.1	17.7	16.6	309.5	169.7	40.2	16.1	0.0	54.0
	U	2	203.6	81.8	21.8	16.2	323.4	172.4	40.3	14.8	0.0	101.7
2C029016	L	1	76.3	56.2	33.3	15.2	181.0	99.6	13.0	48.1	0.0	9.8
	L	2	69.9	53.0	31.5	14.7	169.0	92.6	6.2	39.5	0.0	19.8
	U	1	117.8	59.8	100.9	17.4	295.9	94.5	34.0	130.3	0.0	8.7
	U	2	111.3	56.3	78.3	14.7	260.6	67.5	21.0	108.0	0.0	29.6
2C029020	L	1	87.8	81.7	22.4	17.7	209.6	183.4	2.9	36.1	0.0	1.9
	L	2	83.8	75.0	28.8	17.9	205.6	171.8	0.8	35.8	0.0	5.3
	U	1	79.3	65.2	56.5	15.8	216.9	143.0	5.6	65.4	0.0	1.3
	U	2	76.3	58.1	50.0	16.4	200.9	136.4	2.8	67.1	0.0	3.8
2C035010	L	1*	1701.6	1702.8	122.7	39.1	3566.2	4059.9	15.4	97.6	0.0	0.1
	L	2*	2909.2	2780.4	147.0	51.4	5888.0	7078.8	10.5	82.7	0.0	0.1
	U	1*	708.6	970.7	77.0	29.7	1785.9	2248.6	7.1	53.3	0.0	0.0
	U	2*	798.4	1209.2	63.9	29.9	2101.5	2581.7	3.3	38.1	0.0	0.0
2C035011	L	1	195.6	65.3	49.1	21.5	331.4	185.4	8.4	63.3	0.1	96.7
	L	2	222.1	62.1	43.1	21.7	348.9	184.7	8.9	49.4	0.1	79.8
	U	1	126.6	54.1	44.5	18.1	243.4	110.9	9.7	57.7	0.0	62.1
	U	2	131.7	53.5	35.3	17.7	238.2	99.9	10.0	45.1	0.0	50.9
2C035016	L	1*	903.2	1275.0	94.0	33.2	2305.4	2810.7	7.5	62.9	0.0	0.0
	L	2*	1517.0	2426.7	120.9	38.9	4103.4	5267.5	4.0	52.8	0.0	0.0
	U	1	219.6	136.6	90.9	20.9	467.9	347.7	9.6	102.1	0.0	8.0
	U	2	207.6	94.6	89.6	20.5	412.2	192.2	10.7	124.4	0.0	63.8

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2C035024	L	1	988.0	479.6	221.0	38.1	1726.7	762.0	94.7	221.2	1.5	601.7
	L	2	1427.1	735.4	289.7	39.1	2491.4	1145.1	60.6	204.0	1.7	850.5
	U	1	908.2	513.3	233.2	52.2	1706.8	612.1	314.5	251.1	0.7	529.2
	U	2	1192.6	631.8	336.7	48.1	2209.1	578.8	211.3	296.2	3.3	933.9
2C035027	L	1	304.0	173.7	124.4	22.2	624.3	298.8	63.3	187.4	0.0	66.7
	L	2	355.3	198.2	152.3	20.8	726.6	326.9	39.4	237.5	0.1	101.5
	U	1	288.2	153.5	64.4	25.3	531.4	282.8	90.4	103.5	0.0	67.7
	U	2	324.8	165.3	56.1	24.0	570.3	287.3	66.3	85.5	0.0	67.9
2C035035	L	1*	2361.3	1400.1	411.9	57.4	4230.7	4336.8	48.8	284.1	0.0	0.5
	L	2*	3073.8	1908.4	399.3	71.6	5453.2	5975.3	47.1	183.4	0.0	0.1
	U	1	759.4	401.2	316.2	35.2	1512.0	1101.1	54.3	355.4	0.1	125.9
	U	2	858.3	477.1	179.2	36.6	1551.2	1190.9	66.0	197.5	0.0	40.4
2C035041	L	1*	1074.3	571.1	267.8	33.3	1946.7	2474.1	40.7	403.4	0.0	0.4
	L	2*	1472.0	695.9	179.2	31.2	2378.4	2602.5	40.8	238.9	0.0	0.1
	U	1	597.3	239.8	123.4	25.2	985.7	357.6	44.4	163.0	2.9	446.5
	U	2	588.8	252.5	107.9	26.3	975.6	324.8	46.6	154.6	1.1	478.6
2C035047	L	1	171.6	67.9	39.0	14.8	293.3	209.0	27.4	52.3	0.0	16.8
	L	2	211.1	73.0	37.8	15.1	337.0	195.3	30.2	50.8	0.0	42.6
	U	1	433.7	131.6	22.0	17.8	605.0	417.6	65.4	36.7	0.1	120.9
	U	2	379.7	111.1	19.7	17.4	527.8	310.2	67.1	32.7	0.1	95.8
2C035049	L	1	553.9	148.9	110.5	24.5	837.8	293.6	65.2	144.7	0.3	276.3
	L	2	633.7	165.3	105.3	26.1	930.4	326.9	64.4	152.3	0.4	356.4
	U	1	638.7	137.4	379.8	23.8	1179.6	243.6	86.3	490.9	0.3	322.0
	U	2	648.7	131.6	318.4	23.6	1122.3	245.7	77.7	442.9	0.3	348.6
2C036001	L	1	283.4	169.5	91.3	21.2	565.5	266.5	4.5	31.6	0.2	174.6
	L	2	370.8	200.7	100.0	25.5	697.0	266.5	2.9	33.3	0.7	341.7
	U	1	200.6	174.4	91.3	23.4	489.7	262.3	13.6	28.0	0.2	104.6
	U	2	270.0	194.1	117.9	25.1	607.1	260.2	3.3	27.2	0.1	258.1
2C040003	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
2C040006	L	1	643.7	445.8	56.5	31.7	1177.8	943.1	30.6	60.9	0.0	81.2
	L	2	1521.9	1159.9	76.6	55.0	2813.4	2498.4	14.6	78.4	0.1	120.6
	U	1	206.6	132.4	75.7	30.4	445.1	216.5	31.8	104.4	0.0	58.7
	U	2	203.1	137.4	67.9	27.7	436.1	194.7	8.9	102.1	0.0	76.6

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2C041001	L	1	387.2	137.4	34.2	18.1	576.9	358.1	29.2	51.3	0.1	98.4
	L	2	420.7	150.5	38.4	18.0	627.5	418.5	27.9	56.1	0.1	96.1
	U	1	355.8	134.1	34.2	18.3	542.4	329.0	26.1	49.6	0.1	84.7
	U	2	391.7	150.5	37.0	17.5	596.7	364.3	25.3	54.7	0.1	85.3
2C041002	L	1	227.0	106.1	27.5	26.3	387.0	256.1	25.8	32.7	0.0	25.9
	L	2	208.6	102.8	30.5	25.8	367.8	272.7	24.8	36.4	0.0	34.2
	U	1	146.7	101.2	24.5	19.1	291.5	216.5	18.9	33.6	0.0	4.7
	U	2	125.7	97.1	25.8	17.3	265.8	199.5	14.4	3.4	0.0	11.6
2C041005	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
2C041007	L	1	377.2	153.8	34.2	27.6	592.9	349.8	0.6	54.4	0.2	172.7
	L	2	425.1	163.7	41.8	28.4	659.1	349.8	5.0	54.4	0.1	129.1
	U	1	347.8	144.0	29.0	26.1	546.8	281.1	5.8	35.5	0.2	151.1
	U	2	381.2	152.2	33.5	26.7	593.7	297.7	3.3	38.5	0.1	131.1
2C041014	L	1	583.8	107.8	34.2	16.6	742.4	247.8	44.4	49.9	0.6	356.6
	L	2	633.7	107.8	36.0	15.8	793.3	247.8	41.5	53.0	0.8	379.4
	U	1	598.8	114.3	27.1	16.4	756.7	264.4	44.8	37.5	0.9	400.0
	U	2	633.7	106.1	33.7	17.3	790.8	249.8	43.1	51.1	1.5	436.6
2C041016	L	1	425.1	168.6	31.4	21.6	646.7	214.4	34.7	45.4	0.5	312.2
	L	2	484.0	200.7	41.2	22.1	748.1	216.5	26.9	44.6	0.8	404.7
	U	1	583.8	246.0	39.9	18.1	887.8	239.4	45.5	84.1	0.6	427.9
	U	2	718.6	304.4	49.6	12.3	1084.8	222.8	22.1	78.7	1.0	608.6
2C041027	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1	718.6	137.4	90.9	25.3	972.1	510.1	7.4	73.6	0.4	356.1
	U	2	1112.8	195.8	187.9	27.4	1523.8	647.5	13.3	115.9	0.7	689.9
2C041029	L	1	70.9	46.2	10.8	12.2	140.1	184.3	11.5	15.6	0.0	0.3
	L	2	72.9	45.6	13.2	12.5	144.2	177.8	11.2	19.0	0.0	0.4
	U	1	94.3	66.0	8.4	16.4	185.0	163.9	28.6	17.6	0.0	0.6
	U	2	95.8	67.9	9.6	14.8	188.2	170.5	33.6	19.3	0.0	1.1
2C041033	L	1*	206.6	104.5	31.1	26.8	369.1	343.5	17.1	34.1	0.0	0.7
	L	2*	348.8	186.7	30.8	34.3	600.6	691.2	10.0	26.8	0.0	1.2
	U	1	129.7	69.7	28.6	23.0	251.0	159.1	41.1	46.5	0.0	5.8
	U	2	129.2	74.0	41.2	20.9	265.4	.	.	.	0.0	17.0

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2C041035	L	1	363.8	152.2	214.0	35.8	765.8	155.5	70.5	252.2	0.1	222.6
	L	2	435.6	176.0	200.1	36.8	848.6	126.4	53.9	222.9	0.2	276.5
	U	1	380.7	162.1	228.8	35.3	806.9	155.9	72.3	273.6	0.1	258.9
	U	2	458.6	181.0	249.7	37.3	926.6	132.0	53.4	282.1	0.2	299.4
2C041036	L	1	1018.0	373.5	17.2	18.1	1426.7	734.9	14.5	20.9	1.3	563.4
	L	2	1127.7	419.5	19.8	15.8	1582.9	889.0	13.5	21.6	1.0	574.6
	U	1	342.3	139.0	15.7	16.1	513.2	356.0	18.5	20.8	0.0	77.1
	U	2	568.9	209.8	17.5	17.0	813.1	566.3	21.6	22.8	0.1	172.1
2C041037	L	1*	1586.8	1020.0	161.4	30.4	2798.7	3018.9	54.7	182.8	0.0	0.1
	L	2*	2105.8	1447.8	150.1	30.9	3734.6	3997.4	75.0	169.3	0.0	0.1
	U	1*	1437.1	929.5	172.7	30.4	2569.8	2914.8	54.8	185.9	0.0	0.1
	U	2*	2160.7	1661.7	157.9	32.2	4012.4	4122.4	72.6	175.2	0.0	0.1
2C041039	L	1	124.3	89.7	34.7	17.9	266.5	166.4	39.0	17.7	0.0	30.3
	L	2	158.7	93.0	41.8	20.6	314.0	182.6	27.1	22.0	0.1	81.3
	U	1	105.3	88.0	28.4	17.9	239.6	156.8	41.5	14.2	0.0	16.3
	U	2	144.7	91.3	39.9	20.6	296.6	159.7	25.3	16.5	0.0	52.9
2C041040	L	1	111.8	97.9	32.1	26.6	268.3	185.5	46.8	21.7	0.0	34.8
	L	2	120.3	110.2	39.9	27.1	297.5	182.8	38.9	22.5	0.0	38.3
	U	1	121.8	111.1	40.7	31.2	304.7	199.2	58.7	35.5	0.0	32.5
	U	2	130.7	122.6	44.8	30.2	328.3	174.9	56.3	31.0	0.0	37.9
2C041043	L	1	868.3	254.2	243.6	39.9	1405.9	272.7	14.1	188.7	2.3	878.0
	L	2	1362.3	308.5	2057.5	103.8	3832.1	.	.	.	0.8	1807.8
	U	1	145.7	129.1	51.3	30.9	357.1	202.2	33.9	26.8	0.0	66.2
	U	2	153.2	136.6	63.1	32.5	385.3	216.5	32.6	29.3	0.0	87.5
2C041045	L	1	141.7	90.5	97.9	17.1	347.2	146.2	29.4	74.8	0.0	56.3
	L	2	202.6	118.5	88.3	22.4	431.8	162.0	24.8	63.5	0.1	104.3
	U	1	135.7	79.9	110.5	16.6	342.7	129.3	25.5	84.6	0.0	57.7
	U	2	213.1	115.2	107.4	21.1	456.8	139.5	26.0	81.8	0.2	125.7
2C041051	L	1	86.8	40.6	18.2	6.7	152.4	157.8	2.7	9.9	0.0	0.2
	L	2	92.3	38.8	23.8	7.5	162.5	165.7	2.2	11.8	0.0	0.9
	U	1	32.8	24.2	7.3	5.1	69.3	145.1	3.3	8.9	0.0	0.5
	U	2	34.5	27.3	9.4	6.0	77.2	138.0	3.7	12.4	0.0	0.4
2C046004	L	1*	668.7	240.2	370.6	45.5	1325.0	420.6	25.8	293.4	0.7	599.4
	L	2	1611.8	470.5	68.3	78.0	2228.6	458.0	22.1	778.6	1.8	1457.3
	U	1*	718.6	238.6	452.4	50.9	1460.4	349.8	33.1	389.3	0.7	617.8
	U	2	1437.1	388.3	817.8	86.9	2730.1	466.4	35.8	880.2	2.0	1208.2

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2C046005	L	1	151.7	103.6	19.7	19.2	294.3	216.5	19.8	17.9	0.0	23.0
	L	2	156.7	105.3	19.9	23.5	305.4	203.2	18.9	16.4	0.0	44.6
	U	1	146.2	94.6	20.8	20.1	281.7	186.1	15.2	14.0	0.0	44.8
	U	2	156.7	95.4	21.1	23.7	297.0	192.2	19.2	17.4	0.1	66.8
2C046009	L	1	256.5	169.7	79.7	34.5	540.4	263.7	4.5	78.0	0.5	199.0
	L	2	283.9	182.6	79.6	33.5	579.6	239.4	3.2	84.1	0.2	184.1
	U	1	475.8	309.4	103.1	44.3	932.6	304.0	3.3	36.5	2.8	643.1
	U	2	497.0	310.9	110.5	47.0	965.5	266.5	4.8	36.7	1.7	534.0
2C046011	L	1*	372.8	216.3	104.4	28.6	722.1	449.7	21.0	50.5	0.3	203.0
	L	2	633.7	385.0	331.5	46.3	1396.5	853.6	26.5	81.5	0.5	355.0
	U	1*	428.1	246.0	109.2	29.9	813.2	460.1	23.2	46.0	0.6	268.2
	U	2	653.7	403.1	394.1	47.6	1498.4	928.6	28.4	78.1	1.8	382.4
2C046013	L	1	104.8	105.3	47.0	15.5	272.5	144.3	34.0	46.5	0.0	35.7
	L	2	118.3	110.2	40.2	18.4	287.1	129.1	22.7	37.0	0.0	55.2
	U	1	98.3	105.3	50.0	15.8	269.4	139.3	36.0	48.2	0.0	19.5
	U	2	109.8	105.3	48.3	18.4	281.7	126.2	23.5	49.1	0.0	40.3
2C046015	L	1	728.5	473.8	39.2	43.2	1284.8	886.9	41.6	45.4	0.6	263.4
	L	2	933.1	651.5	45.7	51.9	1682.2	1140.9	28.7	64.9	1.1	328.8
	U	1	713.6	203.2	10.1	28.6	955.5	589.2	87.1	12.1	1.5	373.8
	U	2	1861.3	1768.6	43.5	90.8	3764.1	3247.9	26.6	20.1	0.1	327.4
2C046016	L	1	638.7	36.9	543.8	45.5	1264.8	410.2	7.6	682.7	0.6	316.8
	L	2	803.4	383.3	970.0	52.9	2209.7	393.5	5.7	1306.1	0.5	431.0
	U	1	407.7	222.1	81.8	34.0	745.6	386.8	12.7	45.4	0.4	236.8
	U	2	523.9	280.5	112.2	42.2	958.9	341.4	17.9	49.4	0.4	430.6
2C046017	L	1	294.9	252.5	107.4	39.6	694.5	493.4	12.0	54.2	0.1	105.3
	L	2	329.8	291.2	161.8	44.7	827.6	518.4	5.4	71.4	0.4	135.0
	U	1	231.5	181.8	58.7	38.9	510.9	310.2	11.4	44.6	0.1	123.8
	U	2	248.5	186.7	60.0	41.4	536.7	272.7	6.5	42.0	0.2	113.3
2C046018	L	1	328.9	229.4	70.9	41.5	670.8	570.7	15.7	58.7	0.0	32.8
	L	2	316.4	229.5	70.5	42.7	659.0	530.9	9.3	51.8	0.0	42.6
	U	1	260.6	189.2	69.3	40.2	559.3	450.5	15.9	63.4	0.0	61.1
	U	2	281.9	195.8	63.9	41.2	582.8	437.2	9.0	51.6	0.0	66.9
2C046021	L	1*	653.7	417.9	37.3	36.6	1145.4	876.5	16.8	17.3	0.1	130.5
	L	2	1571.8	921.3	55.2	69.3	2617.7	1938.3	10.0	15.1	1.4	373.3
	U	1	953.1	556.1	40.4	42.2	1591.7	1163.8	16.9	16.3	0.3	257.7
	U	2	1851.3	1077.6	57.9	74.7	3061.4	2290.2	11.7	14.8	1.9	525.8

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2C046023	L	1	292.9	190.8	119.6	24.2	627.6	224.9	33.9	82.4	0.2	197.8
	L	2	528.9	319.2	216.6	37.6	1102.3	399.7	14.0	59.0	1.3	618.5
	U	1*	207.1	190.8	18.4	18.2	434.5	226.9	32.4	14.6	0.1	86.9
	U	2	389.7	306.8	50.0	28.5	775.1	376.8	31.3	16.9	0.4	259.2
2C046030	L	1	762.4	913.5	99.8	43.6	1819.3	1794.7	21.1	36.3	0.5	270.7
	L	2	778.4	830.8	92.2	42.7	1744.2	1334.6	12.3	22.1	0.5	257.5
	U	1	185.5	163.5	13.9	27.8	390.7	221.5	133.4	15.8	0.0	23.6
	U	2	190.1	175.2	14.2	28.1	407.6	216.5	124.2	15.9	0.0	26.4
2C046031	L	1	848.1	756.2	184.7	37.8	1826.7	1041.2	29.7	141.6	3.3	791.5
	L	2	1447.1	1176.3	157.5	49.9	2830.7	1363.7	23.2	75.9	1.9	1068.9
	U	1	901.3	793.6	145.3	41.3	1881.5	1081.7	41.0	97.4	3.6	827.4
	U	2	1896.2	1702.8	149.6	57.5	3806.2	1432.4	53.7	63.5	5.1	1444.0
2C046033	L	1	62.9	56.2	6.8	9.3	135.1	80.6	45.9	14.6	0.0	4.1
	L	2	59.9	47.9	9.0	10.6	127.3	90.2	33.9	12.1	0.0	2.1
	U	1	64.4	58.0	6.7	9.7	138.8	79.7	46.3	11.4	0.0	1.1
	U	2	59.9	49.6	8.4	10.5	128.4	92.2	35.0	12.5	0.0	1.9
2C046034	L	1	79.3	56.2	6.3	7.2	149.0	110.8	36.1	12.5	0.0	1.0
	L	2	75.3	49.6	8.6	9.3	142.8	108.5	32.4	12.1	0.0	3.1
	U	1	43.7	36.2	5.6	6.2	91.7	116.4	35.6	12.8	0.0	0.1
	U	2	42.2	33.2	6.9	7.8	90.1	117.8	33.2	11.2	0.0	0.2
2C046041	L	1	243.0	94.6	188.8	30.9	557.3	172.8	26.8	219.8	0.1	72.4
	L	2	274.0	98.7	174.0	40.1	586.8	182.6	20.8	194.9	0.1	151.6
	U	1	158.2	58.0	67.4	19.6	303.2	193.0	6.9	46.5	0.0	11.1
	U	2	148.2	51.2	50.0	18.7	268.1	192.6	4.2	44.6	0.0	23.2
2C046043	L	1	126.2	56.2	107.0	7.5	296.9	135.5	32.7	123.8	0.0	7.6
	L	2	127.2	54.7	57.9	8.8	248.6	146.2	26.6	63.5	0.0	6.6
	U	1	114.3	54.4	94.4	7.3	270.4	132.8	32.9	104.9	0.0	0.9
	U	2	119.8	53.0	47.4	8.8	229.0	143.0	26.6	53.3	0.0	3.4
2C046046	L	1	988.0	1250.4	62.6	73.4	2374.4	2206.9	0.2	30.2	0.0	35.8
	L	2	1217.6	1472.5	68.3	78.5	2836.8	2560.9	23.5	32.2	0.0	51.6
	U	1	1172.6	1349.1	75.3	85.1	2682.1	1873.8	39.0	46.5	0.0	81.6
	U	2	1297.4	1505.4	84.0	89.8	2976.5	2560.9	32.7	46.8	0.0	84.9
2C046047	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2C046048	L	1	302.4	363.6	69.2	40.7	775.8	555.9	21.1	46.8	0.1	72.7
	L	2	319.9	353.7	68.7	47.0	789.4	583.0	16.6	49.9	0.1	134.2
	U	1	180.1	273.1	36.4	39.9	529.5	378.9	59.5	37.2	0.0	13.8
	U	2	185.1	273.9	30.3	43.2	532.5	412.2	66.3	36.4	0.0	28.3
2C046050	L	1	159.3	89.8	211.7	36.5	497.3	149.2	18.7	282.2	0.0	60.9
	L	2	148.2	93.0	200.1	37.8	479.1	131.4	12.1	275.0	0.0	77.3
	U	1	54.2	78.5	16.8	16.0	165.6	139.8	4.6	22.3	0.0	10.2
	U	2	49.6	77.6	17.1	16.7	161.0	129.5	2.2	20.4	0.0	12.1
2C046052	L	1	1137.7	822.6	331.5	51.9	2343.7	1355.4	41.3	88.3	3.0	786.9
	L	2	988.0	710.7	279.3	46.3	2024.3	1228.4	34.2	86.9	2.8	640.6
	U	1	1142.7	815.2	331.5	52.2	2341.5	1394.9	40.8	87.5	3.7	691.3
	U	2	1022.9	745.3	279.3	48.3	2095.8	1267.9	33.4	88.0	1.1	606.4
2C046053	L	1	113.3	88.0	16.0	12.5	229.8	141.8	28.7	12.1	0.0	36.1
	L	2	93.8	75.5	14.9	12.6	196.8	133.2	23.4	13.0	0.0	15.4
	U	1	115.3	89.7	16.4	12.8	234.1	146.4	28.4	13.4	0.0	88.9
	U	2	93.3	77.1	14.4	12.3	197.2	123.7	21.3	11.3	0.0	19.9
2C046055	L	1	1387.2	213.1	118.3	10.0	1728.6	199.7	18.7	168.4	8.0	1238.0
	L	2	1746.5	261.6	121.4	13.7	2143.1	224.9	24.5	165.3	16.5	1639.3
	U	1	2350.3	300.2	41.9	11.5	2703.9	251.9	10.4	52.5	22.6	2047.7
	U	2	2510.0	316.7	42.0	14.0	2882.7	251.9	6.9	50.5	27.6	2132.9
2C046062	L	1	185.6	169.5	26.4	16.6	398.0	262.3	34.2	13.0	0.0	52.4
	L	2	187.6	169.5	32.7	18.6	408.4	205.7	19.2	16.8	0.0	97.6
	U	1	241.0	187.6	18.7	19.0	466.3	249.8	12.9	10.7	0.1	96.0
	U	2	248.5	191.7	24.6	21.6	486.4	235.3	11.7	10.9	0.1	131.8
2C046063	L	1	1551.9	280.5	84.8	38.6	1955.8	127.0	5.0	53.3	7.6	1698.2
	L	2	1871.2	345.5	92.2	51.1	2360.1	111.8	6.6	65.4	5.9	1766.8
	U	1	2150.7	417.9	75.7	75.7	2719.9	214.4	25.0	63.5	9.0	2310.4
	U	2	2365.3	408.0	70.0	29.7	2873.0	229.0	25.2	38.1	7.9	2063.6
2C047004	L	1	323.9	106.1	37.8	20.3	488.1	163.0	34.0	18.2	0.5	218.3
	L	2	453.6	138.2	49.6	26.1	667.5	161.4	23.1	26.8	0.4	354.3
	U	1	331.8	104.5	37.8	19.5	493.6	159.1	34.7	12.3	0.3	221.6
	U	2	504.0	143.1	45.7	25.2	718.0	183.4	26.6	22.3	1.3	424.9
2C047007	L	1	140.7	104.5	50.9	25.6	321.7	231.1	16.5	14.9	0.0	74.0
	L	2	142.7	115.2	47.4	27.4	332.7	214.4	10.3	16.7	0.1	76.2
	U	1	162.7	97.9	40.7	22.5	323.7	220.7	55.3	15.3	0.0	66.2
	U	2	176.6	115.2	43.5	23.7	359.0	190.5	50.8	15.9	0.0	51.0

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2C047010	L	1	70.4	49.4	22.4	18.2	160.4	79.5	57.4	15.1	0.0	17.2
	L	2	69.9	50.8	22.6	17.8	161.2	68.7	48.4	15.0	0.0	14.8
	U	1	74.8	49.4	22.3	18.7	165.3	79.3	58.1	13.1	0.0	23.1
	U	2	68.9	50.3	22.2	18.4	159.7	65.8	51.0	14.0	0.0	15.4
2C057004	L	1	89.3	105.3	19.7	17.7	232.0	183.6	8.0	16.1	0.0	17.9
	L	2	62.4	80.1	14.4	16.0	173.0	154.9	5.7	16.2	0.0	1.4
	U	1	62.4	84.7	15.3	16.7	179.1	165.5	9.4	16.1	0.0	1.5
	U	2	53.9	77.1	13.7	14.8	159.4	159.7	6.4	16.4	0.0	2.3
2C057011	L	1	588.8	220.5	94.4	24.2	927.9	120.8	3.9	33.0	1.7	715.3
	L	2	663.7	244.3	88.3	28.6	1024.9	109.1	4.3	29.1	2.6	759.3
	U	1	728.5	255.0	110.5	19.8	1113.9	191.8	5.0	23.2	1.9	824.4
	U	2	718.6	258.3	96.1	27.4	1100.4	183.0	0.2	22.7	2.6	777.3
2C066013	L	1	1352.3	1316.2	281.9	61.1	3011.4	1759.3	2.9	48.8	2.5	1311.4
	U	1	375.7	455.7	159.6	39.9	1031.0	448.7	1.5	34.1	0.8	498.4
2C066017	L	1	2095.8	1711.0	234.0	62.4	4103.2	2852.3	2.9	55.0	4.2	951.3
	U	1	1921.1	1546.5	153.1	67.8	3688.5	2644.1	5.4	22.9	5.2	881.8
2C066022	L	1	843.3	463.9	154.9	39.9	1502.0	845.3	2.5	103.2	1.2	487.2
	U	1*	983.0	1472.5	153.1	41.9	2650.5	3018.9	0.1	47.1	0.0	0.4
2C066026	L	1	55.9	51.3	24.4	18.2	149.7	71.4	11.9	37.2	0.0	17.1
	U	1	303.1	74.3	67.2	35.9	480.6	149.1	25.3	122.0	0.0	134.4
2C066027	L	1	26.9	37.3	20.2	15.1	99.6	56.8	3.0	16.3	0.0	15.4
	U	1	9.3	25.2	18.8	10.4	63.6	57.7	0.3	16.1	0.0	3.8
2C066038	L	1	319.4	75.9	90.5	43.0	528.7	105.6	51.0	169.8	0.1	143.4
	U	1	331.8	87.2	99.6	41.4	560.1	104.1	61.1	185.9	0.1	148.3
2C066039	L	1	73.9	39.2	29.0	17.9	159.9	71.8	4.2	33.9	0.0	46.9
	U	1	303.9	57.7	78.3	22.2	462.1	97.4	2.8	104.9	0.1	229.2
2C067001	L	1*	1871.2	1900.2	2496.9	84.4	6352.7	3851.7	10.4	82.7	23.4	1984.4
	U	1*	1951.1	1998.9	2201.1	84.9	6236.0	3893.3	10.6	79.6	21.9	2390.3
2C077007	L	1	443.6	306.8	82.2	22.2	854.9	224.9	4.0	72.5	0.6	368.3
	U	1	399.2	112.7	59.6	20.6	592.0	206.1	4.4	50.5	0.7	320.4
2C077022	L	1	251.5	207.3	48.7	23.3	530.8	295.6	2.4	43.4	0.1	143.3
	U	1	44.6	42.9	32.1	11.9	131.6	51.2	2.4	36.4	0.0	34.4

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2C077023	L	1	948.1	562.7	77.0	38.1	1625.9	1093.0	0.1	45.7	0.9	380.2
	U	1	396.2	111.1	100.9	27.6	635.8	100.6	6.0	129.8	0.4	344.6
2C077024	L	1	1911.2	414.6	60.5	24.0	2410.3	385.2	38.2	58.4	8.1	1533.3
	U	1	773.4	383.3	64.8	23.8	1245.4	553.8	12.6	37.0	2.1	526.0
2C088002	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
2C088003	L	1	106.3	83.9	62.6	17.9	270.7	69.1	47.3	100.4	0.0	37.8
	U	1	275.4	150.5	84.4	23.3	533.6	106.2	201.6	202.0	0.0	8.6
2C088004	L	1	189.6	108.6	66.1	44.7	409.1	76.8	64.0	127.5	0.0	81.0
	U	1	203.6	125.0	91.3	115.1	535.0	71.6	52.9	179.7	0.0	96.3
2D072004	L	1	263.5	388.3	439.3	25.3	1116.4	591.3	1.0	82.9	0.5	355.1
	U	1	243.0	375.1	401.9	27.1	1047.2	464.3	0.4	80.4	1.1	441.3
2D072013	L	1	306.9	538.0	373.2	40.9	1259.0	801.6	0.4	120.2	0.2	237.5
	U	1	102.8	204.8	253.2	39.1	599.9	333.1	0.5	99.0	0.2	165.1
2D073003	L	1	190.1	75.6	53.9	26.3	346.0	56.6	0.0	56.7	0.2	194.8
	U	1	80.3	57.6	44.8	19.2	201.9	45.0	5.0	42.6	0.1	98.9
2D073004	L	1	174.6	61.2	37.3	16.0	289.2	45.0	0.4	33.9	0.2	184.5
	U	1	114.8	68.4	46.5	19.2	248.8	46.0	1.0	45.4	0.1	132.6
2D073009	L	1	167.7	60.7	38.3	19.9	286.6	58.5	17.9	32.2	0.1	150.0
	U	1	40.2	50.7	30.0	23.4	144.2	41.8	36.8	22.4	0.0	33.4
2D073024	L	1	130.7	60.5	45.7	16.4	253.3	47.7	4.1	38.4	0.2	151.0
	U	1	121.8	58.3	45.7	15.6	241.3	49.3	9.5	37.5	0.2	127.8
2D073025	L	1	114.7	64.0	48.7	17.4	244.7	46.5	2.8	48.0	0.2	142.4
	U	1	126.0	67.6	51.0	17.6	262.2	47.7	2.9	49.5	0.3	167.0
2D073026	L	1	145.7	71.2	50.0	14.2	281.2	64.1	0.3	36.7	0.3	238.5
	U	1	192.1	77.7	53.5	14.8	338.0	75.0	0.6	36.7	0.4	201.2
2D073027	L	1	139.7	79.9	49.8	16.4	285.9	62.8	1.1	42.7	0.1	120.1
	U	1	26.3	52.0	39.5	12.9	130.8	39.3	0.2	34.1	0.0	56.9
2D073029	L	1	64.9	52.3	43.1	12.5	172.8	54.1	1.8	36.4	0.0	75.8
	U	1	91.8	57.3	51.3	15.6	216.1	82.7	2.6	63.2	0.1	92.8

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2D073036	L	1	91.8	57.3	40.7	15.2	205.1	45.0	0.3	24.3	0.1	113.4
	U	1	88.3	55.7	39.5	14.7	198.2	48.9	1.0	25.9	0.1	108.3
2D073044	L	1	123.3	161.2	180.5	46.5	511.5	113.9	81.8	159.4	0.1	133.1
	U	1	314.9	208.1	71.8	39.4	634.1	208.2	267.8	92.0	0.0	18.0
2D073048	L	1	50.4	83.1	82.6	16.3	232.4	60.8	3.4	53.0	0.1	106.8
	U	1	27.5	43.8	52.6	11.9	135.9	48.9	0.1	43.7	0.0	56.0
2D073052	L	1	54.2	64.1	61.2	11.6	191.1	59.2	11.8	46.0	0.0	59.9
	U	1	43.0	50.6	53.9	11.8	159.3	50.9	0.5	47.3	0.0	44.8
2D073053	L	1	54.3	79.1	66.6	20.5	220.5	60.7	16.7	45.7	0.1	82.3
	U	1	49.5	70.5	63.7	20.0	203.7	55.8	15.9	45.6	0.0	75.3
2D073057	L	1*	3957.1	1538.3	236.6	96.7	5828.6	119.9	166.1	101.3	32.1	5675.5
	U	1	683.6	313.4	44.4	122.0	1163.4	91.2	10.2	35.5	1.0	865.4
2D073066	L	1	97.6	111.9	98.7	40.7	348.8	61.0	64.6	97.2	0.1	110.4
	U	1	90.4	110.5	102.3	37.5	340.6	63.5	58.4	96.1	0.1	105.7
2D073075	L	1	53.1	108.6	111.1	14.7	287.6	98.1	1.5	41.5	0.1	132.9
	U	1	42.0	93.8	87.4	15.6	238.8	82.0	0.7	35.0	0.0	96.8
2D073080	L	1	65.9	85.6	92.2	30.7	274.3	53.7	41.0	74.5	0.0	70.6
	U	1	72.4	83.9	87.4	31.5	275.1	53.3	41.1	69.7	0.0	79.9
2D073086	L	1	312.4	483.7	565.5	37.6	1399.2	559.2	0.1	178.0	1.3	623.4
	U	1	149.2	221.3	352.3	19.9	742.7	206.1	0.8	143.6	0.8	401.5
2D073092	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
2D073099	L	1	70.4	97.9	110.5	15.9	294.6	65.0	4.8	64.9	0.1	141.5
	U	1	92.8	128.3	143.5	14.8	379.4	69.7	0.8	121.9	0.1	138.3
2D073100	L	1	80.3	169.5	194.0	27.9	471.7	222.8	0.0	130.9	0.1	109.7
	U	1	47.7	111.1	143.5	27.6	329.9	135.3	0.0	61.5	0.1	105.9
2D073106	L	1	119.2	165.8	223.1	34.2	542.2	124.3	1.3	145.3	0.2	264.7
	U	1	116.5	157.7	211.3	32.1	517.7	116.7	3.1	139.1	0.3	266.9
2D074006	L	1	106.8	62.6	44.4	13.6	227.3	45.0	5.1	44.0	0.1	110.3
	U	1	192.6	77.6	62.2	13.5	345.9	63.4	4.3	70.7	0.3	176.8

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2D074009	L	1	43.5	58.7	57.2	15.6	175.1	52.8	4.3	39.2	0.0	68.4
	U	1	41.7	57.8	57.0	15.5	172.0	52.9	3.5	37.6	0.0	59.4
2D074012	L	1	263.0	175.2	535.0	54.7	1028.0	84.3	0.6	592.4	0.3	330.2
	U	1	60.9	94.6	140.1	20.8	316.4	68.9	8.7	104.7	0.0	88.8
2D083027	L	1	339.1	152.3	170.0	27.3	688.6	204.5	2.3	95.0	1.7	350.8
	U	1	80.4	86.1	259.3	21.1	446.9	208.2	2.7	96.9	0.1	126.3
2D083039	L	1	76.2	102.6	115.0	14.9	308.6	57.5	7.7	71.1	0.3	161.9
	U	1	52.1	89.9	83.7	13.8	239.5	59.2	3.2	54.8	0.0	123.2
2D083076	L	1	102.8	82.5	160.9	27.2	373.4	73.4	0.0	104.4	0.2	168.0
	U	1	78.5	59.1	178.6	21.1	337.3	69.5	0.1	119.2	0.1	131.8
2D083081	L	1	88.0	93.9	149.5	23.0	354.4	85.1	3.9	60.5	0.3	176.4
	U	1	106.2	119.5	181.6	22.0	429.3	78.8	18.2	98.0	0.1	198.8
2D083086	L	1	126.9	168.9	256.0	22.0	573.9	167.4	1.4	91.7	0.5	311.3
	U	1	110.2	129.0	178.6	20.6	438.4	122.1	0.8	124.2	0.2	187.5
2D083096	L	1	2777.9	142.3	112.4	47.5	3080.2	165.1	0.6	126.9	35.4	2797.9
	U	1	489.5	165.3	130.8	130.0	915.6	61.5	0.0	61.0	1.1	621.5
2D083098	L	1	117.7	100.8	115.1	23.9	357.5	77.3	3.4	99.6	0.1	125.4
	U	1	30.2	67.9	111.8	7.3	217.4	20.6	12.7	156.3	0.0	43.4
2D084013	L	1	66.9	99.5	78.7	16.7	261.9	60.2	0.7	55.9	0.0	91.1
	U	1	51.4	101.2	86.1	13.7	252.4	58.9	0.6	61.8	0.0	91.5
2D084022	L	1	87.6	111.8	58.9	11.9	270.3	51.2	1.5	47.7	0.2	162.7
	U	1	25.6	83.5	43.4	9.3	161.8	37.8	0.0	34.8	0.0	80.9
2D084025	L	1	37.2	113.6	62.2	9.5	222.5	72.6	0.2	68.3	0.0	64.1
	U	1	59.0	198.8	130.2	11.3	399.3	82.5	1.5	208.6	0.1	109.0
2D084033	L	1	37.9	87.1	60.4	10.8	196.2	52.4	0.3	44.4	0.1	86.7
	U	1	34.2	73.5	56.9	9.2	173.7	59.4	0.6	54.1	0.0	55.8
2D084041	L	1	490.4	126.6	54.0	11.2	682.1	117.8	0.3	40.8	3.3	535.5
	U	1	441.2	90.2	47.3	9.5	588.3	110.7	0.3	41.8	2.0	445.7
2D084051	L	1	301.0	79.3	50.0	11.4	441.7	78.1	0.9	36.5	1.3	341.3
	U	1	72.5	76.3	60.1	12.4	221.2	63.0	0.7	32.6	0.2	123.8

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
2D084052	L	1	1390.0	152.7	57.3	11.2	1611.2	165.2	1.7	47.1	29.5	1728.1
	U	1	1219.4	124.0	47.5	6.1	1397.1	137.2	1.0	40.3	13.7	1298.1
2D084054	L	1	406.4	256.6	64.2	23.5	750.6	53.1	0.4	45.5	4.4	652.5
	U	1	14.3	17.3	29.5	8.0	69.1	34.5	0.0	31.0	0.0	20.5
2D084058	L	1	537.4	151.8	154.2	25.9	869.4	203.5	1.8	84.2	3.9	607.5
	U	1	574.8	139.9	137.5	24.0	876.2	200.8	4.3	80.3	4.9	623.7
2D084077	L	1	56.5	118.7	104.5	20.0	299.7	95.8	6.0	79.6	0.1	105.8
	U	1	65.1	125.0	133.0	19.9	342.9	125.8	0.4	91.2	0.1	137.3
2D084079	L	1	48.1	100.5	126.5	14.6	289.6	72.1	0.3	68.4	0.1	126.5
	U	1	49.1	113.9	138.5	13.3	314.9	81.7	0.5	83.9	0.1	114.5
2D084082	L	1	164.7	95.8	111.8	30.1	402.5	56.5	20.6	120.1	0.5	199.9
	U	1	305.3	155.1	203.1	39.6	703.0	81.0	37.5	211.2	0.4	335.1
2D093005	L	1	75.3	122.0	251.8	30.1	479.2	59.5	5.1	225.8	0.1	146.8
	U	1	311.9	151.7	80.1	24.3	568.0	126.9	0.1	70.1	0.2	269.8
2D093007	L	1	158.6	114.8	103.2	21.2	397.8	80.9	35.1	134.8	0.2	169.4
	U	1	99.1	81.5	75.8	20.5	276.9	72.2	17.3	92.9	0.1	140.4
2D093008	L	1	124.7	75.4	89.1	19.9	309.1	47.1	0.3	103.1	0.0	163.2
	U	1	96.8	66.0	110.2	13.8	286.8	76.4	1.0	133.3	0.0	56.5
2D094009	L	1	1431.0	195.4	607.5	57.2	2291.0	726.7	0.5	505.0	6.0	1140.7
	U	1	2078.9	172.4	547.3	58.3	2857.0	473.7	0.9	403.4	18.9	1927.4
3A058013	L	1	176.6	130.8	84.4	35.0	426.9	21.9	0.4	36.1	0.5	262.6
	U	1	180.6	139.8	80.5	35.4	436.4	22.9	0.5	36.5	0.4	258.6
3A058014	L	1	155.7	115.2	176.6	42.4	489.9	19.7	1.0	45.1	0.4	306.4
	U	1	296.4	208.9	257.5	42.4	805.3	21.0	18.4	63.2	1.2	714.1
3A068007	L	1	176.6	124.2	100.0	24.7	425.6	41.6	15.8	38.9	0.3	245.4
	U	1	109.3	77.1	82.2	19.6	288.2	30.4	9.9	32.2	0.1	124.4
3A068012	L	1	131.7	69.7	100.0	27.6	329.1	21.2	15.8	42.9	0.2	203.8
	U	1	95.3	61.4	79.6	20.8	257.1	19.3	15.2	36.1	0.1	148.3
3A068020	L	1	176.1	102.8	131.4	48.1	458.4	24.8	46.8	60.4	0.2	273.9
	U	1	112.3	76.3	107.9	44.0	340.4	15.1	51.0	56.4	0.1	200.0

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
3A069003	L	1	209.1	130.8	124.8	31.7	496.4	18.5	10.8	42.3	0.4	366.0
	U	1	203.6	129.1	128.8	31.2	492.7	18.4	10.1	41.2	0.3	287.4
3A079012	L	1	88.3	63.2	87.0	30.9	269.4	37.7	11.9	43.4	0.1	146.1
	U	1	73.4	63.2	68.7	28.4	233.6	47.9	0.0	31.0	0.1	115.2
3A086009	L	1	252.6	96.6	56.7	26.1	432.1	164.9	4.6	56.5	0.2	122.8
	U	1	239.2	92.9	55.4	25.8	413.2	158.8	4.1	54.9	0.2	185.2
3A086010	L	1	191.2	127.8	61.3	38.5	418.8	257.5	7.5	44.5	0.1	106.0
	U	1	68.5	93.1	40.7	39.1	241.3	157.4	2.7	31.6	0.0	54.6
3A086015	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
3A086024	L	1	72.9	91.8	52.5	19.5	236.6	83.4	16.4	49.8	0.0	81.6
	U	1	65.8	73.3	58.0	18.2	215.2	64.0	19.3	54.3	0.0	74.9
3A087008	L	1	98.7	130.5	45.9	16.7	291.9	126.3	14.4	44.6	0.1	103.7
	U	1	84.6	115.1	47.4	15.0	262.0	102.6	15.7	50.7	0.1	87.6
3A088006	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
3A088012	L	1	194.1	178.9	53.9	29.9	456.9	76.8	0.2	42.3	0.6	319.2
	U	1	151.7	117.6	56.1	25.5	351.0	99.3	0.2	48.8	0.2	185.0
3A088022	L	1	249.5	140.7	157.9	42.2	590.3	23.7	17.3	57.5	0.7	494.8
	U	1	263.5	149.7	154.9	41.7	609.7	25.0	18.5	55.3	0.7	491.8
3A088025	L	1	118.3	57.6	273.2	19.2	468.2	183.0	0.1	75.9	0.1	234.5
	U	1	306.4	268.2	177.0	8.0	759.6	12.5	0.1	34.4	0.7	732.6
3A088028	L	1	165.2	111.1	163.3	28.4	467.9	17.0	7.8	58.4	0.5	334.2
	U	1	139.2	77.4	175.7	32.2	424.6	23.9	16.0	51.9	0.1	369.6
3A089002	L	1	167.7	109.4	131.4	29.7	438.1	21.0	44.0	84.3	0.2	232.3
	U	1	125.7	75.8	124.4	25.5	351.4	14.8	86.3	83.2	0.1	137.2
3A089004	L	1	89.2	72.4	98.2	30.0	289.8	22.2	31.1	64.9	0.2	159.2
	U	1	70.9	63.9	103.5	35.3	273.6	17.3	30.7	54.4	0.2	163.3
3A089013	L	1	146.2	96.3	157.6	37.1	437.2	19.6	13.4	70.0	0.6	315.6
	U	1	152.8	101.8	157.5	37.9	450.0	19.5	10.5	72.4	0.5	313.3

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
3A089024	L	1	103.8	80.8	130.5	29.7	344.7	18.4	22.3	70.5	0.1	196.6
	U	1	64.4	54.0	134.8	26.8	280.0	12.6	17.3	64.3	0.1	171.4
3A089068	L	1	82.8	53.0	104.8	40.4	281.0	32.9	24.4	67.1	0.2	125.5
	U	1	111.8	71.2	122.7	36.8	342.5	37.1	71.6	82.4	0.1	135.6
3A089086	L	1	36.0	35.5	55.8	20.6	147.9	16.9	22.4	34.0	0.0	66.0
	U	1	24.4	26.2	51.8	18.1	120.5	19.4	4.8	27.9	0.0	59.1
3A097026	L	1	38.2	42.6	45.1	14.7	140.6	49.9	4.2	46.5	0.0	37.8
	U	1	24.1	38.8	42.2	12.9	118.0	47.6	0.3	42.5	0.0	36.4
3A097029	L	1	45.6	82.6	78.2	20.1	226.5	91.0	5.4	63.1	0.1	81.3
	U	1	34.5	69.3	69.7	16.5	190.0	62.6	2.0	37.7	0.0	83.0
3A097031	L	1	47.3	45.4	57.4	14.9	165.0	58.5	7.9	57.5	0.0	38.3
	U	1	37.7	43.2	53.0	15.8	149.7	54.4	13.1	54.4	0.0	30.7
3A098011	L	1	223.6	183.4	207.9	31.7	646.6	38.1	6.9	70.2	1.2	549.2
	U	1	205.6	153.8	187.5	32.0	578.9	25.1	2.5	46.5	1.1	497.9
3A098025	L	1	63.1	52.4	77.9	20.9	214.2	36.3	18.5	51.1	0.1	97.8
	U	1	35.3	40.6	57.2	17.0	150.1	17.6	4.6	33.1	0.0	83.2
3A098034	L	1	66.0	72.8	102.7	52.5	294.0	46.5	29.9	85.4	0.1	123.6
	U	1	46.5	45.7	162.5	33.9	288.6	37.4	50.4	114.2	0.0	70.3
3A098038	L	1	179.3	126.4	150.4	39.2	495.3	46.9	8.2	66.2	0.7	365.7
	U	1	169.1	120.4	148.4	40.6	478.5	47.8	7.8	66.6	0.7	357.1
3A098039	L	1	94.4	62.9	133.2	28.5	319.0	23.6	2.4	54.8	0.4	257.5
	U	1	50.9	49.8	94.0	43.2	238.0	54.7	0.1	52.6	0.1	98.1
3A098069	L	1	139.7	105.5	167.9	27.1	440.3	27.9	16.1	56.5	0.6	341.5
	U	1	126.4	111.5	152.8	33.0	423.7	21.0	48.9	59.6	0.5	345.4
3A098075	L	1	142.4	129.1	171.9	21.4	464.7	27.9	18.4	66.0	0.7	375.6
	U	1	126.3	118.6	190.4	64.2	499.6	28.5	56.1	107.3	0.4	352.5
3A098078	L	1	342.3	387.6	199.5	39.0	968.4	122.2	5.8	95.9	3.3	823.5
	U	1	309.4	289.8	242.3	44.6	886.1	91.2	7.4	112.1	1.8	699.5
3A098082	L	1	78.9	67.4	135.5	22.8	304.6	36.0	12.5	61.5	0.1	171.2
	U	1	62.7	53.8	127.3	15.9	259.7	29.9	4.9	62.9	0.1	161.4

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
3A099019	L	1	354.8	164.5	339.3	48.1	906.7	26.4	0.6	92.2	2.0	790.5
	U	1	319.4	125.9	313.2	42.4	800.9	30.8	7.0	95.3	2.1	722.7
3A099027	L	1	222.1	87.2	307.1	30.4	646.8	58.5	9.6	83.2	1.1	477.9
	U	1	105.8	60.5	221.0	15.0	402.2	61.0	0.7	73.6	0.2	257.9
3A099037	L	1	250.5	120.9	305.4	55.2	732.0	60.8	32.3	112.3	0.9	471.0
	U	1	104.3	39.6	300.1	24.9	469.0	66.6	3.9	85.8	0.5	272.5
3A099051	L	1	183.4	127.5	186.2	53.8	550.9	40.7	13.5	83.8	0.9	396.6
	U	1	182.6	125.9	183.6	53.2	545.2	37.7	10.4	83.2	0.9	410.6
3A099052	L	1	189.5	141.2	203.3	61.4	595.5	40.2	26.6	125.5	1.3	485.7
	U	1	184.6	136.4	173.3	58.4	552.7	39.6	20.3	96.4	0.8	391.2
3A099062	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
3A106008	L	1	36.0	52.3	48.0	13.4	149.8	38.0	0.4	53.6	0.0	53.6
	U	1	41.2	67.0	59.7	15.1	182.9	46.6	0.4	51.4	0.1	120.1
3A106020	L	1	67.4	55.6	53.6	18.0	194.6	38.6	0.6	52.7	0.1	117.9
	U	1	58.7	45.6	50.5	15.3	170.2	37.6	36.2	49.3	0.0	87.4
3A106023	L	1	27.1	37.8	55.1	6.6	126.7	24.7	8.2	56.7	0.0	34.7
	U	1	23.2	37.3	57.9	7.1	125.5	24.7	10.4	60.2	0.0	27.7
3A106029	L	1	99.8	88.3	170.7	22.8	381.5	60.1	3.4	57.7	0.5	255.9
	U	1	88.7	103.2	135.3	21.7	348.8	46.7	2.9	60.2	0.5	235.8
3A106035	L	1	49.5	57.9	64.0	12.1	183.5	47.8	4.5	58.8	0.1	88.3
	U	1	30.5	40.1	55.4	8.5	134.5	41.2	1.5	52.2	0.0	64.5
3A107010	L	1	104.7	103.1	111.0	43.3	362.1	51.9	33.4	78.1	0.2	193.3
	U	1	99.0	102.3	104.5	43.8	349.6	51.2	29.1	79.0	0.2	179.7
3A107034	L	1	195.7	151.1	343.9	19.8	710.5	50.6	6.1	102.5	1.7	597.8
	U	1	159.2	130.7	332.0	18.2	640.1	40.2	15.4	105.5	0.9	534.0
3A107037	L	1	132.0	105.5	216.7	28.1	482.3	62.6	5.5	71.7	0.5	347.5
	U	1	120.4	122.1	232.2	19.8	494.4	49.7	2.7	75.4	0.3	342.1
3A107041	L	1	104.8	111.9	164.2	24.4	405.3	64.3	3.6	69.7	0.6	265.3
	U	1	108.9	120.3	169.6	26.5	425.4	81.4	8.0	92.1	0.2	232.5

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
3B036002	L	1	1352.3	695.9	1091.8	82.6	3222.7	741.2	345.2	598.1	5.8	1868.5
	L	2	1317.3	1304.2	1382.7	95.4	4099.6	779.1	380.4	678.3	18.3	2348.6
	U	1	37.0	51.3	50.5	17.3	156.1	103.1	0.8	53.3	0.0	3.3
	U	2	33.1	45.1	50.5	15.9	144.5	103.6	0.8	50.4	0.0	1.8
3B037006	L	1	472.6	289.9	285.1	39.3	1086.9	237.4	102.5	451.4	0.2	251.0
	L	2	490.6	300.1	293.5	40.9	1125.0	239.1	81.3	395.3	0.5	325.6
	U	1	486.0	292.3	328.6	46.0	1152.9	313.1	92.4	493.7	0.2	228.4
	U	2	496.7	295.1	302.6	43.8	1138.1	261.3	76.4	436.8	0.5	309.3
3B037023	L	1	35.8	41.9	84.8	5.7	168.2	192.8	0.3	87.5	0.0	0.2
	L	2	34.1	38.2	87.2	5.9	165.4	173.0	0.4	94.6	0.0	0.3
	U	1	254.5	234.4	230.1	57.5	776.6	314.4	75.8	321.6	0.0	28.3
	U	2	226.4	230.6	235.6	60.5	753.0	287.2	56.9	278.5	0.0	61.8
3B037024	L	1	75.2	66.5	131.8	18.1	291.8	213.9	5.7	144.9	0.0	0.7
	L	2	47.8	51.5	87.5	18.8	205.6	186.7	1.0	96.9	0.0	0.7
	U	1	45.3	33.8	100.7	3.5	183.2	266.0	0.0	115.6	0.0	0.9
	U	2	47.4	35.4	126.4	7.3	216.4	268.3	0.0	150.6	0.0	0.6
3B042006	L	1	408.2	332.3	362.8	24.6	1127.9	72.7	322.6	468.3	0.3	190.7
	L	2	378.4	305.2	369.1	23.0	1075.7	71.9	321.0	493.7	0.6	247.6
	U	1	519.0	487.8	352.3	35.5	1394.7	88.5	382.3	473.9	0.5	377.1
	U	2	544.6	457.1	345.7	33.1	1380.5	91.9	374.0	493.7	1.5	439.2
3B042010	L	1	688.6	518.2	266.2	40.4	1513.5	201.5	472.6	352.6	0.4	321.9
	L	2	649.6	475.1	243.4	37.5	1405.6	194.7	482.7	352.6	1.6	381.6
	U	1	753.5	503.4	310.6	46.0	1613.5	205.9	501.6	375.2	0.4	305.0
	U	2	665.7	491.5	249.1	36.1	1442.4	193.1	506.4	368.4	1.3	366.6
3B042017	L	1	743.5	503.4	302.8	44.5	1594.2	210.3	354.9	490.9	0.6	426.0
	L	2	672.7	434.7	294.6	44.3	1446.2	206.7	359.9	493.7	1.6	431.0
	U	1	918.2	695.9	809.1	51.7	2474.8	224.9	509.7	1275.1	0.2	295.0
	U	2	832.7	618.5	756.9	49.2	2257.4	208.6	526.5	1174.9	0.3	331.4
3B042036	L	1	1507.0	518.2	696.0	58.8	2780.0	235.3	110.7	1122.8	4.2	1072.4
	L	2	1348.6	440.9	752.5	66.5	2608.5	243.7	96.0	1103.9	9.6	1226.2
	U	1	188.1	105.3	212.3	33.8	539.4	117.2	65.2	103.2	0.1	188.7
	U	2	173.4	104.8	211.6	32.5	522.2	126.3	56.5	107.5	0.2	250.0
3B042041	L	1	509.6	290.0	200.6	73.8	1073.9	150.5	86.9	306.6	0.9	510.6
	L	2	587.7	294.6	255.2	68.8	1206.3	106.2	70.3	342.9	1.0	714.2
	U	1	483.2	276.1	188.2	73.2	1020.7	135.0	95.3	294.5	0.8	469.2
	U	2	507.7	276.5	190.3	67.4	1041.9	100.6	77.8	278.4	1.0	601.3

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
3B042042	L	1	467.1	278.9	282.8	37.6	1066.3	133.9	126.5	304.7	0.9	434.9
	L	2	426.1	268.6	297.1	41.2	1033.0	170.7	93.6	331.2	2.1	483.9
	U	1	418.7	269.8	260.1	36.3	984.9	117.6	140.2	304.7	1.3	414.8
	U	2	394.4	262.4	278.8	41.1	976.7	147.1	109.7	315.4	1.5	447.3
3B043001	L	1	1018.0	681.1	526.3	58.3	2283.7	389.3	361.3	773.0	2.8	697.9
	L	2	979.6	643.4	511.3	54.7	2189.0	362.1	353.7	681.9	5.4	735.2
	U	1	195.1	208.9	159.2	38.1	601.4	25.6	141.6	186.2	0.2	231.2
	U	2	186.7	195.0	159.9	36.6	578.1	23.7	131.7	190.7	0.2	224.7
3B043010	L	1	122.3	84.7	126.6	21.7	355.3	231.1	6.2	116.8	0.0	0.6
	L	2	144.4	116.8	165.4	26.8	453.5	292.1	3.6	172.4	0.0	1.5
	U	1	117.8	84.7	121.4	20.4	344.3	226.9	6.5	124.4	0.0	0.4
	U	2	118.3	97.6	144.3	21.6	381.8	255.5	1.6	145.8	0.0	0.6
3B043012	L	1	38.6	43.3	153.8	5.7	241.3	189.0	0.1	168.8	0.0	0.4
	L	2	84.0	67.0	367.6	11.5	530.1	180.3	47.7	380.0	0.0	0.2
	U	1	168.6	294.6	260.5	20.6	744.3	815.7	1.4	143.6	0.0	0.4
	U	2	25.7	32.7	144.7	3.9	207.0	205.5	0.2	169.8	0.0	0.2
3B043021	L	1	92.3	118.5	244.9	42.7	498.4	152.8	76.9	200.6	0.0	16.1
	L	2	100.0	125.2	257.7	45.3	528.2	140.9	79.4	222.4	0.0	61.6
	U	1	96.3	165.3	214.0	43.0	518.6	145.3	120.2	191.3	0.0	29.0
	U	2	100.1	160.8	191.1	37.5	489.5	151.3	129.1	207.3	0.0	42.2
3B043023	L	1	29.3	45.6	119.2	10.2	204.3	149.4	0.2	133.0	0.0	0.3
	L	2	23.0	32.0	106.1	9.9	171.0	88.0	0.0	120.2	0.0	0.5
	U	1	49.4	57.7	152.5	0.9	260.5	383.4	0.2	139.9	0.0	0.2
	U	2	50.2	62.7	173.7	1.2	287.8	418.5	0.4	171.8	0.0	0.2
3B043024	L	2	24.0	65.2	148.5	9.1	246.8	195.9	0.7	148.7	0.0	0.2
	U	1	33.9	52.1	136.0	6.4	228.4	202.4	0.1	149.3	0.0	0.2
	U	2	34.2	56.8	143.0	4.1	238.1	200.3	0.0	162.8	0.0	0.2
3B043032	L	1	148.4	121.1	365.7	39.9	675.2	167.0	78.5	396.4	0.0	3.8
	L	2	153.7	130.0	305.4	37.3	626.4	132.4	90.8	332.9	0.0	48.6
	U	1	280.4	147.0	673.1	20.9	1121.4	290.7	18.0	792.4	0.0	5.0
	U	2	290.9	146.4	543.8	22.2	1003.3	268.6	18.2	708.1	0.0	13.6
3B043033	L	1	57.3	49.0	112.4	16.3	235.1	173.8	0.8	125.1	0.0	0.4
	L	2	56.9	48.7	99.6	13.7	218.9	131.4	3.3	108.6	0.0	1.3
	U	1	52.9	42.1	102.4	11.4	208.9	174.5	0.1	111.8	0.0	0.4
	U	2	64.9	52.2	132.7	17.0	266.7	187.6	0.1	156.6	0.0	0.6

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
3B043034	L	1	31.7	37.8	95.2	4.1	168.9	180.7	0.6	91.0	0.0	0.4
	L	2	22.8	27.2	85.5	6.8	142.3	115.3	0.0	87.7	0.0	0.5
	U	1	52.0	39.3	97.1	3.1	191.6	230.4	0.0	93.3	0.0	0.5
	U	2	45.2	33.1	79.0	4.2	161.5	175.2	0.0	88.1	0.0	0.5
3B043035	L	1	34.9	36.8	106.6	17.0	195.2	140.5	0.8	116.8	0.0	0.4
	L	2	35.0	34.6	102.1	18.0	189.7	121.2	0.8	111.4	0.0	0.5
	U	1	34.0	37.5	104.4	16.3	192.2	130.1	1.5	117.6	0.0	0.6
	U	2	34.9	35.6	104.7	18.3	193.5	126.3	0.6	114.2	0.0	0.4
3B043053	L	1	917.6	683.4	259.7	97.5	1958.2	641.9	583.7	519.1	0.1	188.7
	L	2	838.3	760.1	274.0	90.5	1963.0	672.5	577.5	521.9	0.1	152.6
	U	1	737.5	659.2	281.2	112.0	1789.9	566.4	584.7	459.8	0.0	148.3
	U	2	768.5	686.0	271.4	106.4	1832.3	603.8	579.1	457.0	0.0	141.9
3B043055	L	1	85.8	80.0	190.1	30.9	386.8	190.3	39.0	172.9	0.0	2.4
	L	2	82.8	71.2	183.6	28.9	366.5	178.6	16.9	163.1	0.0	5.1
	U	1*	2155.7	584.9	8047.5	96.7	10885	470.5	1.4	10720	0.1	626.3
	U	2*	1342.3	557.7	4872.0	82.1	6854.1	516.3	2.0	5247.1	0.8	1110.1
3B043061	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
3B043067	L	1	34.0	88.8	120.1	17.0	259.9	55.6	76.1	128.9	0.0	0.8
	L	2	33.6	86.9	123.1	16.3	259.9	40.4	78.2	127.2	0.0	2.2
	U	1	333.3	207.3	126.6	102.8	770.0	410.2	83.7	186.5	0.0	49.4
	U	2	323.7	211.7	138.4	100.4	774.2	390.1	71.4	210.4	0.0	74.8
3B043077	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
3B043079	L	1	307.3	260.6	251.1	54.7	873.8	152.9	173.0	338.5	0.0	63.1
	L	2	387.8	359.7	262.1	70.4	1080.0	122.7	383.1	377.5	0.1	176.0
	U	1	228.2	87.0	270.9	34.0	620.1	103.2	1.0	332.9	0.0	24.2
	U	2	252.5	91.7	305.4	33.1	682.7	40.5	0.7	313.2	0.0	113.3
3B047003	L	1	415.2	422.8	180.1	64.9	1083.0	170.5	27.7	172.4	0.8	659.8
	L	2	439.8	421.5	197.8	47.0	1106.1	127.2	5.0	128.9	4.8	882.0
	U	1	172.7	199.1	131.4	22.7	525.8	62.0	1.3	64.9	0.1	243.1
	U	2	163.5	200.0	154.7	25.9	544.1	48.0	2.4	56.8	1.3	434.4
3B048023	L	1	514.0	246.8	430.6	30.9	1222.3	397.7	53.4	677.0	0.0	109.6
	L	2	495.4	241.3	437.4	28.1	1202.2	365.9	47.3	753.2	0.2	156.1
	U	1	466.6	375.9	139.6	37.3	1019.5	197.2	564.5	245.4	0.0	3.8
	U	2	423.3	355.4	143.7	36.2	958.7	193.2	578.9	226.1	0.0	4.8

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
3B048029	L	1	753.5	428.6	309.7	54.2	1546.0	453.9	97.7	324.4	0.8	557.6
	L	2	898.0	566.4	430.8	70.1	1965.3	481.3	20.6	428.8	5.5	1039.6
	U	1	272.0	206.5	160.5	21.3	660.2	281.1	1.0	124.7	0.1	158.7
	U	2	574.1	392.1	197.8	21.7	1185.6	234.6	1.4	136.0	4.8	690.5
3B048034	L	1	230.0	112.7	110.1	12.4	465.2	274.8	0.1	137.9	0.0	15.1
	L	2	231.8	126.3	122.0	19.9	500.0	194.1	0.8	160.2	0.0	63.2
	U	1	127.7	119.3	144.4	26.3	417.8	197.4	4.2	123.6	0.0	70.2
	U	2	865.5	521.1	656.8	171.7	2215.0	189.6	3.8	336.0	7.1	1658.4
3B048046	L	1	643.7	169.5	2422.9	135.3	3371.4	649.6	390.3	1024.0	1.6	1276.7
	L	2	589.7	131.9	3249.3	163.2	4134.0	777.6	384.5	1052.7	11.1	1876.8
	U	1	415.2	219.6	1117.9	31.5	1784.2	84.1	29.5	1246.9	0.1	263.2
	U	2	378.6	201.0	1121.1	31.4	1732.1	211.7	21.7	1173.5	0.2	300.1
3B048063	L	1	53.4	95.4	185.3	24.9	359.0	113.7	12.1	170.4	0.0	45.1
	L	2	55.8	91.1	198.0	24.4	369.4	99.3	7.5	180.0	0.0	71.4
	U	1	67.4	111.9	214.5	25.2	418.9	121.8	8.6	157.4	0.0	77.2
	U	2	55.7	86.9	202.3	25.6	370.6	99.3	1.9	165.5	0.0	77.3
3B048065	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
3B048082	L	1	63.9	111.9	81.3	27.1	284.2	183.2	2.2	81.0	0.0	14.1
	L	2	60.8	103.6	89.3	29.0	282.7	177.7	22.8	79.7	0.0	7.4
	U	1	23.8	71.1	78.3	29.7	202.8	84.3	1.5	114.8	0.0	8.6
	U	2	24.7	71.1	74.6	26.6	196.9	76.1	1.7	105.3	0.0	7.2
3B048094	L	1	75.8	97.1	116.6	24.4	313.9	127.0	2.0	67.4	0.0	89.6
	L	2	85.3	112.4	130.5	24.2	352.5	78.0	0.4	61.3	0.1	181.2
	U	1	73.9	93.0	98.7	24.2	289.8	135.3	2.4	61.8	0.0	66.8
	U	2	67.1	98.8	107.8	24.4	298.1	111.3	2.7	54.4	0.1	111.3
3B048101	L	1	117.8	188.4	203.6	41.4	551.1	88.1	105.3	271.1	0.0	48.8
	U	1	29.3	52.4	100.0	19.5	201.3	91.2	2.7	109.7	0.0	4.8
	U	2	34.8	49.8	102.6	19.9	207.1	81.4	0.9	108.4	0.0	7.2
3B049010	L	1	355.7	321.6	472.1	102.0	1251.4	180.4	297.7	434.4	0.1	208.6
	L	2	334.0	296.1	410.8	70.1	1110.9	145.3	301.2	378.5	0.2	243.5
	U	1	356.0	311.9	351.8	98.2	1118.0	189.1	362.3	333.2	0.0	155.5
	U	2	345.0	279.5	409.1	82.7	1116.3	214.2	369.0	363.0	0.0	132.7

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
3B049011	L	1	349.5	182.9	314.4	66.7	913.5	209.5	152.9	310.4	0.1	239.9
	L	2	307.8	178.0	354.7	52.1	892.6	186.1	149.2	284.2	0.1	232.9
	U	1	730.9	383.3	379.3	58.5	1552.0	243.3	637.8	440.1	0.0	109.3
	U	2	672.9	354.0	438.7	48.9	1514.5	231.0	680.6	464.9	0.0	114.7
3B049022	L	1	395.9	365.0	228.3	82.2	1071.4	168.6	401.6	386.5	0.0	110.5
	L	2	381.8	383.5	242.1	79.9	1087.3	121.0	440.4	357.5	0.1	147.3
	U	1	455.5	414.6	223.9	90.3	1184.3	229.7	188.3	298.4	0.0	100.4
	U	2	264.5	256.9	251.5	72.6	845.4	109.2	116.3	376.1	0.1	151.2
3B049031	L	1	417.2	271.5	259.4	74.9	1023.0	345.7	225.6	389.3	0.0	1.6
	L	2	432.7	261.8	284.6	73.9	1053.0	329.6	204.7	418.2	0.0	3.2
	U	1	1255.3	574.8	428.1	226.1	2484.3	915.2	977.6	589.8	0.0	23.1
	U	2	1147.6	577.1	467.6	219.1	2411.5	852.5	998.8	643.2	0.0	22.3
3B058021	L	1	234.8	253.8	129.2	17.8	635.6	234.6	8.1	65.1	1.2	331.0
	L	2	221.3	244.5	126.6	16.2	608.6	206.5	11.5	70.7	1.2	362.3
	U	1	208.7	207.6	128.8	26.1	571.2	37.2	21.2	89.9	1.7	414.3
	U	2	172.6	197.8	124.7	20.8	515.8	33.2	23.7	100.7	0.8	399.8
3B058023	L	1	319.5	262.8	271.4	34.4	888.1	81.3	0.6	125.3	2.3	678.8
	L	2	351.0	257.0	288.5	33.2	929.7	65.9	0.7	129.8	2.3	786.4
	U	1	233.8	229.3	243.9	28.4	735.3	63.1	0.1	95.0	3.8	602.3
	U	2	265.9	235.3	260.0	29.4	790.6	47.9	0.0	99.2	2.0	678.2
3B059007	L	1	208.1	181.8	156.6	93.1	639.6	90.4	24.7	202.5	0.1	231.1
	L	2	198.8	165.6	160.6	75.0	600.0	47.4	13.9	159.1	0.5	355.6
	U	1	51.1	66.2	78.7	28.8	224.8	64.0	0.4	86.0	0.0	40.2
	U	2	70.9	100.1	115.4	33.7	320.0	39.1	1.0	88.7	0.0	155.2
3B059009	L	1	47.5	54.5	109.0	26.6	237.6	71.8	1.2	109.8	0.0	11.2
	L	2	48.6	60.0	109.1	24.9	242.6	45.2	2.3	105.0	0.0	16.0
	U	1	39.4	49.8	102.5	25.6	217.3	68.1	0.3	108.4	0.0	7.8
	U	2	41.5	55.0	110.4	26.5	233.4	41.2	1.4	111.0	0.0	10.1
3B059013	L	1*	130.7	465.6	1744.3	72.1	2412.8	285.2	1.8	1828.0	0.1	198.2
	L	2	45.5	98.0	122.0	24.7	290.1	109.8	14.7	132.7	0.0	29.4
	U	1	24.7	69.8	84.0	15.8	194.2	101.2	0.3	96.2	0.0	7.0
	U	2	22.7	60.0	87.7	16.1	186.6	81.2	0.2	96.7	0.0	9.2
3B059029	L	1	454.1	199.1	145.3	33.0	831.4	108.9	32.3	214.7	0.5	437.6
	L	2	490.8	206.2	151.2	32.3	880.5	86.6	22.7	208.4	1.3	520.8
	U	1	153.2	271.5	193.6	33.2	651.5	119.3	12.1	397.8	0.0	58.7
	U	2	151.4	271.0	196.9	33.8	653.2	91.6	9.9	363.2	0.0	108.6

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
3B059034	L	2	809.0	339.2	1130.8	67.4	2346.4	445.5	35.0	1379.6	0.6	448.4
	U	1	184.8	87.4	143.9	26.8	443.0	155.7	9.1	161.9	0.0	34.0
	U	2	118.2	73.1	122.3	36.1	349.7	76.4	17.7	182.2	0.0	37.2
3B059038	L	2	1015.8	88.7	115.4	22.5	1242.3	59.2	0.5	112.8	4.8	1116.6
	U	1	1001.0	75.1	107.4	20.8	1204.4	91.2	1.2	107.1	3.4	960.3
	U	2	1146.4	88.0	115.7	21.6	1371.7	63.6	0.8	111.6	3.3	1204.4
3B059073	L	1*	545.0	399.0	255.9	78.6	1278.6	123.7	236.2	386.5	0.9	482.4
	L	2	501.8	430.2	249.5	78.8	1260.3	73.5	266.1	393.8	1.2	489.5
	U	1*	267.5	231.6	874.8	54.9	1428.9	200.9	82.0	999.6	0.0	109.9
	U	2	520.4	656.4	132.1	71.4	1380.3	142.8	629.4	466.6	0.3	463.1
3B059075	L	1	588.0	263.7	670.6	50.3	1572.6	225.7	0.2	682.0	1.2	562.6
	U	1	494.5	190.0	489.8	41.8	1216.1	153.7	0.2	471.1	2.6	553.1
3B059080	L	1	208.7	156.5	241.1	62.4	668.7	100.7	8.7	179.2	0.9	351.4
	L	2	232.5	181.5	263.7	65.5	743.1	84.2	3.4	193.2	0.5	425.8
	U	1	201.7	153.4	243.8	62.4	661.2	103.1	10.9	180.0	0.6	313.3
	U	2	204.3	152.8	261.2	64.0	682.2	102.7	1.5	197.8	0.6	347.4
3B059090	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	3549.7	149.3	284.3	32.5	4015.8	167.5	0.7	267.2	53.5	3601.4
3B059105	L	1	2047.9	336.3	239.1	49.5	2672.8	470.6	127.1	409.0	11.8	1588.0
	L	2	1974.1	316.1	285.9	51.0	2627.1	407.7	114.2	417.9	15.7	1749.1
	U	1	376.7	285.7	227.4	40.5	930.3	518.8	17.0	349.8	0.0	105.5
	U	2	330.6	253.7	236.8	41.7	862.9	408.3	9.6	318.0	0.0	47.0
3B070004	L	2	137.5	64.7	162.9	34.0	399.1	53.5	11.9	196.9	0.0	15.4
	U	1	94.8	55.5	131.6	29.5	311.4	72.0	1.1	165.1	0.0	2.2
	U	2	110.0	60.8	153.9	33.5	358.1	44.5	4.5	208.8	0.0	2.9
3B070009	L	1	1640.5	151.7	235.0	37.6	2064.8	158.6	59.7	297.0	11.5	1613.6
	L	2	1835.5	141.7	243.3	34.5	2255.0	134.4	53.4	283.6	17.1	1911.5
	U	1	901.4	161.0	194.1	41.7	1298.3	167.3	28.5	288.9	1.7	757.4
	U	2	999.3	157.9	208.4	38.8	1404.4	129.7	14.1	273.9	6.3	1018.9
3B070015	L	1	35.7	36.4	80.2	21.8	174.1	66.2	0.3	89.5	0.0	1.6
	L	2	29.8	30.4	82.1	28.3	170.7	32.0	1.3	91.1	0.0	2.0
	U	1	34.6	35.8	81.3	20.8	172.4	62.8	0.4	91.6	0.0	1.1
	U	2	30.1	30.3	83.8	24.0	168.3	32.1	0.6	89.1	0.0	1.8

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
3B070024	L	1	347.1	277.0	177.9	46.3	848.2	298.5	191.1	307.0	0.0	18.3
	L	2	355.3	245.1	168.3	45.1	813.9	294.6	178.2	292.0	0.0	53.6
	U	1	418.2	347.1	196.6	51.3	1013.2	326.3	262.6	355.4	0.0	19.3
	U	2	439.6	312.6	192.3	55.0	999.5	337.3	261.3	338.5	0.0	38.7
3B070043	L	1	757.9	371.2	767.4	59.1	1955.6	368.8	11.3	787.1	0.5	502.2
	L	2	953.1	406.4	922.2	55.7	2337.4	443.5	1.8	860.4	0.4	663.3
	U	1	499.7	255.5	550.4	49.9	1355.4	362.2	12.3	802.9	0.6	576.1
	U	2	943.1	412.9	913.5	56.8	2326.3	431.0	3.2	857.6	0.4	669.6
3B070050	L	1	222.9	137.2	249.1	43.1	652.3	158.4	2.6	311.7	0.0	57.6
	L	2	238.5	143.1	417.6	54.5	853.7	138.9	1.3	394.9	0.1	219.1
	U	1	227.7	142.0	246.8	42.6	659.1	166.5	2.6	312.1	0.0	62.5
	U	2	269.0	161.2	428.9	62.1	921.2	149.1	0.7	392.1	0.1	247.6
3B070058	L	1	129.5	87.3	211.0	59.5	487.3	19.4	0.8	218.1	0.0	136.8
	L	2	197.1	107.8	225.3	67.8	598.0	10.2	0.4	215.0	0.0	167.6
	U	1	248.8	169.5	210.0	62.0	690.2	97.1	92.5	314.5	0.0	146.4
	U	2	373.3	250.1	300.1	60.9	984.3	141.8	172.6	437.3	0.0	205.7
3B070059	L	1	411.1	170.7	199.4	56.8	837.9	140.8	11.1	297.6	0.7	337.8
	L	2	418.2	185.1	196.6	52.9	852.8	122.2	11.2	281.0	0.2	353.2
	U	1	174.3	92.6	150.2	36.6	453.7	99.1	29.4	233.8	0.0	3.5
	U	2	270.0	125.0	163.1	41.7	599.8	149.1	63.4	282.1	0.0	7.1
3B070075	L	1	373.4	189.9	259.3	74.3	896.9	233.8	0.5	331.6	0.2	225.6
	L	2	416.2	222.9	279.3	72.6	991.0	184.7	0.6	355.4	0.2	317.0
	U	1	361.4	194.3	270.2	75.8	901.7	259.8	6.3	366.7	0.2	193.1
	U	2	398.7	213.1	287.1	75.2	974.0	216.5	3.7	383.7	0.1	245.9
3C123008	L	1	45.9	45.9	96.1	9.3	197.2	5.6	19.8	93.1	0.0	52.2
	U	1	38.5	36.9	104.0	7.4	186.7	20.0	4.7	84.9	0.0	60.4
3C123009	L	1	7.3	19.6	52.6	2.6	82.1	10.1	4.9	59.2	0.0	7.1
	U	1	6.1	18.6	52.6	2.1	79.5	1.0	4.1	56.4	0.0	6.1
3C123010	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	5.1	19.7	55.2	1.7	81.8	10.0	5.5	67.4	0.0	6.1
3C123011	L	1	5.0	16.3	44.8	2.5	68.5	11.3	5.7	52.8	0.0	1.8
	U	1	3.4	17.0	39.4	2.4	62.2	8.7	11.4	53.0	0.0	3.0
3C123013	L	1	31.1	31.3	63.1	7.6	133.1	14.6	2.0	73.1	0.0	19.9
	U	1	18.0	29.0	73.9	6.3	127.2	13.2	14.7	90.0	0.0	9.4

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
3C123016	L	1	7.4	22.5	63.1	2.6	95.6	11.0	5.0	73.3	0.0	5.5
	U	1	3.1	20.6	68.7	1.6	94.0	9.5	8.8	79.8	0.0	7.2
3C123017	L	1	27.6	35.4	275.8	7.2	345.9	86.2	31.8	184.8	0.0	28.2
	U	1	8.9	33.2	68.3	2.9	113.2	33.7	7.3	84.6	0.0	5.2
3C123018	L	1	71.9	32.1	68.3	3.2	175.4	34.1	0.0	83.2	0.0	53.5
	U	1	15.7	29.4	54.4	3.1	102.6	37.7	0.3	64.0	0.0	3.7
3C124001	L	1	728.5	132.4	68.7	14.3	944.1	5.0	1.5	92.5	0.7	790.9
	U	1	45.9	51.0	129.6	49.1	275.6	1.8	0.6	216.9	0.0	12.3
3C124002	L	1	1741.5	75.8	58.7	3.2	1879.2	8.4	7.3	70.8	8.8	1784.2
	U	1*	.	.	.	.	.	.	.	.	.	.
3C124003	L	1	27.8	39.0	89.6	9.2	165.6	2.7	0.6	113.4	0.0	1.2
	U	1*	.	.	.	.	.	.	.	.	.	.
3C124006	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
3C124010	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1	19.0	26.7	87.0	7.0	139.8	4.6	0.2	113.7	0.0	3.2
3C124012	L	1	27.1	35.5	56.1	4.6	123.4	5.8	2.3	67.4	0.0	27.2
	U	1*	.	.	.	.	.	.	.	.	.	.
3C124015	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
3C124018	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
3C124019	L	1	24.9	23.0	51.8	5.8	105.3	10.8	0.3	66.6	0.0	7.5
	U	1	50.4	35.0	64.8	8.3	158.5	27.1	0.1	83.5	0.0	18.3
3C124020	L	1	25.7	35.0	45.7	13.4	119.8	14.2	18.4	63.5	0.0	3.5
	U	1	13.7	21.1	42.7	7.2	84.8	11.4	14.5	37.8	0.0	4.9
3C124021	L	1	15.3	27.1	40.5	10.2	93.0	9.2	5.4	66.0	0.0	1.3
	U	1	3.9	9.9	45.7	0.9	60.3	2.3	0.1	60.2	0.0	3.1
3C124023	L	1	311.4	58.1	110.5	43.0	522.9	23.1	78.2	279.6	0.2	308.5
	U	1	295.4	292.0	113.5	44.0	744.9	7.5	10.6	327.2	0.1	266.4

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
3C124025	L	1	59.9	35.2	57.0	3.9	155.9	19.2	9.2	60.4	0.0	46.8
	U	1	56.4	97.9	59.6	8.2	222.0	22.3	33.6	77.6	0.0	44.3
3C124026	L	1	367.3	380.0	181.8	10.9	940.1	6.7	290.3	290.6	0.0	243.2
	U	1	69.4	71.0	125.7	2.9	269.0	4.2	2.6	149.8	0.0	42.4
3C124028	L	1	367.3	83.9	135.7	10.7	597.6	7.8	12.4	141.3	0.2	335.1
	U	1	309.4	111.1	131.4	7.3	559.1	6.4	17.4	114.8	0.1	242.0
3C124032	L	1	9.9	19.4	40.5	3.8	73.6	18.5	4.0	46.3	0.0	3.9
	U	1	10.4	20.4	40.5	4.2	75.5	18.1	7.0	48.8	0.0	6.1
3C124034	L	1	64.9	116.0	57.4	14.9	253.2	3.1	124.4	101.0	0.0	14.7
	U	1*	.	.	.	.	.	.	.	.	.	.
3C124036	L	1	62.9	28.7	50.0	4.2	145.7	32.2	0.7	58.8	0.0	28.9
	U	1	14.8	24.8	39.6	4.2	83.4	33.9	10.5	45.7	0.0	1.7
3C124038	L	1	26.1	22.5	45.7	3.8	98.0	17.4	4.4	43.7	0.0	7.2
	U	1	25.0	21.9	45.7	4.0	96.6	16.8	4.4	44.6	0.0	4.9
3C124045	L	1	111.3	96.2	144.4	26.0	377.9	13.0	44.8	179.0	0.0	97.8
	U	1*	.	.	.	.	.	.	.	.	.	.
3C124047	L	1	280.4	38.8	66.6	5.0	390.8	11.4	0.3	69.4	0.0	180.0
	U	1*	.	.	.	.	.	.	.	.	.	.
3C124049	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1	330.3	26.2	85.3	2.9	444.7	4.5	0.9	109.5	0.0	164.9
3C124050	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
3C124052	L	1	64.9	19.4	67.9	3.0	155.1	5.4	0.4	71.4	0.0	46.1
	U	1*	.	.	.	.	.	.	.	.	.	.
3C125002	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
3C125003	L	1	738.5	658.1	201.8	5.6	1604.0	31.9	11.6	241.8	1.1	867.3
	U	1	24.5	52.5	173.6	0.0	250.6	3.6	0.3	186.8	0.0	0.1
3C126003	L	1	295.9	190.8	154.9	3.5	645.1	40.0	1.2	154.6	0.3	323.2
	U	1	182.6	157.9	201.8	2.1	544.5	41.4	0.4	224.0	0.1	166.6

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-1. Major cation and anion concentrations in regular streams (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SOBC	SO416	NO316	CL16	CO316	HCO316
3C132004	L	1	733.5	293.7	375.8	35.5	1438.6	553.8	5.0	256.7	0.4	349.5
	U	1	653.7	259.1	137.5	35.5	1085.8	583.0	4.6	284.9	0.1	216.9
3C132006	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1	409.7	163.7	268.8	7.0	849.2	8.0	3.3	265.7	0.0	84.2
3C132009	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
3C132011	L	1	46.5	59.1	168.8	7.0	281.4	55.6	2.6	185.6	0.0	2.2
	U	1	70.4	123.4	375.8	4.4	574.0	7.4	0.1	440.1	0.0	0.3
3C133001	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
3C133002	L	1	214.1	83.1	221.0	6.5	524.7	25.0	0.0	237.0	0.0	78.2
	U	1	264.5	97.9	227.1	7.3	596.7	29.1	0.5	245.1	0.0	130.6
3C133003	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
3C133005	L	1	76.3	37.5	174.9	2.3	291.0	27.5	0.2	183.9	0.0	8.8
	U	1	78.3	37.5	187.9	2.1	305.8	27.3	0.4	180.0	0.0	19.2
3C133008	L	1	140.2	44.9	140.5	2.7	328.3	25.0	0.4	154.0	0.0	79.1
	U	1	164.7	46.2	156.2	3.0	370.1	29.1	0.3	149.8	0.0	70.9
3C133011	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	182.6	97.9	206.2	6.6	493.3	22.1	0.6	223.4	0.0	56.2
3C133013	L	1	55.9	74.4	207.9	2.8	340.9	8.6	0.1	224.6	0.0	0.2
	U	1	58.9	72.6	201.8	3.7	337.0	8.5	0.3	222.9	0.0	0.2
3C133024	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1	20.1	127.5	309.7	0.8	458.2	10.0	0.2	330.1	0.0	0.1
3C133029	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
3C136032	L	1*	.	.	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.	.	.
3C136033	L	1	152.7	158.8	305.4	1.9	618.8	2.0	0.3	442.9	0.0	1.4
	U	1	158.2	163.7	352.3	6.8	681.1	1.0	0.4	457.0	0.0	1.8

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
1D022009	L	1	740.4	7.90	8.24	7.75	0.0263	43.9	9.4	9.2
	L	2	1324.2	7.86	7.98	8.29	0.0186	36.2	14.9	14.4
	U	1	763.1	7.73	7.92	7.84	0.0234	42.0	9.0	9.1
	U	2	1277.0	7.58	7.69	8.23	0.0182	54.1	15.7	15.2
1D022010	L	1	1020.9	7.70	7.92	8.05	0.0479	91.5	12.9	12.5
	L	2	1449.6	7.95	8.16	8.28	0.0316	97.2	17.2	16.8
	U	1	409.3	7.32	7.37	7.82	0.0550	49.2	4.6	4.8
	U	2	818.8	7.52	7.59	8.06	0.0389	70.1	10.2	9.9
1D022022	L	1	410.6	7.49	7.68	7.59	0.0794	70.2	4.6	4.4
	L	2	706.0	7.51	7.57	8.14	0.0537	90.2	6.6	7.3
	U	1	330.6	7.34	7.46	7.52	0.0676	50.1	3.6	3.2
	U	2	518.3	7.86	7.94	7.97	0.0479	49.7	5.2	5.7
1D024010	L	1	161.4	7.31	7.20	7.51	0.1995	71.3	2.2	1.6
	L	2	246.0	7.34	7.21	7.59	0.2042	108.4	3.2	3.3
	U	1	49.5	6.56	6.56	7.15	0.6457	63.8	0.9	0.6
	U	2	65.9	6.63	6.55	7.45	0.6166	84.9	1.1	1.1
1D024021	L	1	101.1	6.97	6.88	7.25	0.2042	50.0	1.3	1.1
	L	2	144.5	7.20	7.09	7.51	0.1905	57.9	1.3	1.3
	U	1	94.0	6.88	6.83	7.05	0.1318	46.2	1.1	1.1
	U	2	128.1	7.01	6.90	7.36	0.1862	50.2	1.2	1.1
1D025003	L	1	4532.6	8.23	8.30	8.37	0.0112	138.7	41.5	45.3
	L	2	5210.3	8.23	8.34	8.52	0.0102	124.7	52.1	55.6
	U	1	4120.9	7.78	7.94	8.49	0.0295	243.8	40.5	42.9
	U	2	5040.8	7.68	7.70	8.23	0.0479	428.6	52.5	54.9
1D029004	L	1	179.8	7.01	7.07	7.15	0.1175	48.6	2.4	2.4
	L	2	281.5	7.12	7.14	7.58	0.1380	89.0	3.0	2.6
	U	1	203.2	6.64	6.67	7.13	0.2344	125.3	2.7	2.2
	U	2	212.3	6.67	6.74	7.45	0.2818	133.9	3.8	2.5
1D029010	L	1	940.0	7.50	7.62	7.79	0.0437	77.5	11.8	11.5
	L	2	1326.7	9.24	9.40	8.80	0.0063	13.2	14.2	14.9
	U	1	572.5	7.40	7.47	7.49	0.0832	113.5	7.0	6.3
	U	2	970.7	7.67	7.73	8.11	0.0562	116.8	10.2	10.3
1D029015	L	1*	-18.2	4.94	5.07	4.81	10.4713	142.6	0.2	0.1
	L	2*	-8.2	4.98	5.07	5.00	11.2202	138.1	0.2	0.0
	U	1	1199.3	8.26	8.70	8.07	0.0347	83.5	13.5	14.2
	U	2	3059.9	7.64	7.71	8.24	0.0316	179.6	30.0	29.4
1D029016	L	1*	-468.0	3.66	3.64	3.66	275.4229	1407.2	0.2	0.2
	L	2*	-661.9	3.51	3.50	3.54	338.8442	2007.9	0.1	0.1
	U	1	-20.0	4.95	4.97	4.91	13.8038	91.6	0.2	0.1
	U	2	-2.2	5.31	5.37	5.79	6.1660	65.5	0.2	0.0
1D029018	L	1	499.4	7.48	7.52	7.66	0.0955	102.3	5.5	5.3
	L	2	666.2	7.93	8.22	8.01	0.0631	84.7	7.7	7.3
	U	1	496.1	6.87	6.89	7.50	0.1585	168.8	5.1	5.3
	U	2	883.6	6.82	6.85	8.12	0.1660	243.8	13.3	10.8
1D029020	L	1	281.0	7.32	7.35	7.62	0.1230	65.5	3.4	3.3
	L	2	412.0	7.86	7.79	7.65	0.0692	66.1	4.6	4.5
	U	1	402.2	7.12	7.15	7.37	0.1202	116.7	5.1	4.4
	U	2	667.3	7.30	7.29	8.03	0.0813	118.4	8.0	8.0
1D029023	L	1	20.4	6.29	6.28	6.56	0.5754	29.0	0.4	0.5
	L	2	44.3	6.59	6.59	7.14	0.2455	30.6	0.6	0.4
	U	1	-78.0	4.21	4.17	4.23	67.6083	207.2	0.4	0.2
	U	2	-74.7	4.22	4.20	4.23	58.8844	211.1	0.6	0.0

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
1D029028	L	1	38.1	6.50	6.48	6.65	0.2291	33.8	0.3	0.3
	L	2	87.6	6.83	6.81	7.14	0.1698	34.1	0.8	0.8
	U	1	-3.9	5.31	5.25	5.59	5.6234	40.3	0.2	0.2
	U	2	-1.3	5.36	5.09	5.48	6.3096	87.8	0.1	0.1
1D029031	L	1	47.1	6.54	6.52	6.67	0.3162	40.3	0.5	0.5
	L	2	75.6	6.75	6.78	7.13	0.1660	31.4	0.9	0.7
	U	1	70.8	6.66	6.60	6.86	0.2188	46.3	1.8	0.7
	U	2	94.9	6.64	6.65	7.12	0.2089	48.4	1.2	0.9
1D029042	L	1	5.6	5.68	5.62	6.34	1.7378	35.8	0.3	0.2
	L	2	20.7	5.88	5.83	6.27	0.8913	49.9	0.2	0.0
	U	1	-42.8	4.64	4.69	4.61	25.7040	120.9	0.3	0.1
	U	2	-24.0	4.77	4.73	4.78	16.9824	114.2	0.4	0.0
1D029043	L	1	-4.8	5.18	5.20	5.36	7.4131	67.7	0.2	0.3
	L	2	7.7	5.65	5.71	6.10	2.6915	60.0	0.2	0.1
	U	1	-47.0	4.28	4.26	4.37	47.8630	175.7	0.5	0.4
	U	2	-44.2	4.40	4.40	4.41	38.9045	172.4	0.4	0.0
1D029044	L	1	319.8	7.25	7.26	7.33	0.0977	67.2	4.4	3.9
	L	2	363.4	7.29	7.36	7.59	0.1230	80.8	4.3	4.0
	U	1	357.7	7.30	7.42	7.46	0.1175	79.7	4.8	4.2
	U	2	377.6	7.14	7.22	7.78	0.1047	70.6	4.5	3.9
1D029051	L	1	46.2	6.63	6.67	6.67	0.3467	38.0	0.5	0.6
	L	2	88.2	6.99	7.09	6.94	0.1950	46.2	0.7	0.7
	U	1	20.7	6.25	6.22	6.41	0.8128	39.5	0.3	0.3
	U	2	53.0	6.54	6.61	6.83	0.2138	35.1	0.4	0.4
1D029052	L	1	198.2	7.30	6.43	7.17	0.1585	66.1	2.4	2.2
	L	2	265.5	7.35	7.51	7.66	0.1995	92.9	2.6	2.2
	U	1	206.8	7.17	7.21	7.22	0.1778	79.7	3.1	2.6
	U	2	285.4	7.29	7.29	7.65	0.1479	88.6	2.7	3.0
1D029056	L	1	334.3	7.21	7.25	7.45	0.0851	60.7	4.0	3.7
	L	2	532.6	7.32	7.33	7.87	0.0457	58.3	5.9	6.2
	U	1	64.6	6.51	6.56	7.22	0.3090	43.5	0.6	0.6
	U	2	115.5	6.40	6.41	7.24	0.3388	89.7	1.4	1.0
1D029057	L	1	184.2	7.07	7.12	7.13	0.1202	37.6	1.3	1.3
	L	2	316.1	7.43	7.64	7.64	0.1349	83.4	3.5	3.2
	U	1	218.7	7.08	7.27	7.33	0.1349	62.3	1.9	1.8
	U	2	268.9	7.32	7.46	7.66	0.1202	66.9	2.3	2.4
1D030001	L	1	151.4	7.16	7.30	7.30	0.1479	42.8	1.8	1.7
	L	2	285.5	7.20	7.30	7.44	0.1585	81.0	2.0	1.7
	U	1	146.5	6.97	7.10	7.27	0.1950	62.6	1.9	1.6
	U	2	194.6	6.90	7.07	7.47	0.2042	85.0	1.8	1.8
1D030004	L	1	12.0	5.91	6.00	6.21	1.2023	42.5	0.2	0.2
	L	2	16.2	6.27	6.15	6.37	1.2589	48.7	0.4	0.3
	U	1	-57.9	4.44	4.43	4.46	33.1131	146.3	0.4	0.2
	U	2	-43.6	4.55	4.46	4.52	33.1131	131.0	0.2	0.1
1D030005	L	1	72.7	6.84	6.86	7.05	0.1660	38.2	0.9	1.0
	L	2	96.0	6.92	6.96	7.24	0.2692	59.9	1.0	0.8
	U	1	29.1	6.37	6.37	6.72	0.6918	57.2	0.5	0.3
	U	2	45.7	6.27	6.30	6.88	0.5129	54.7	0.8	0.6
1D030017	L	1	44.5	6.84	7.03	6.93	0.3311	34.7	0.6	0.5
	L	2	76.3	6.79	6.91	7.05	0.2291	42.6	0.6	0.6
	U	1	50.6	6.72	6.76	6.73	0.3631	45.1	0.4	0.3
	U	2	52.1	6.41	6.61	6.97	0.4169	49.3	0.6	0.6

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
1D030018	L	1	92.0	6.77	6.82	7.15	0.2291	57.8	1.2	1.0
	L	2	133.7	6.80	6.89	7.34	0.2138	70.7	1.2	1.1
	U	1	96.9	6.72	6.85	7.20	0.1950	44.2	1.3	1.2
	U	2	132.8	6.72	6.85	7.07	0.1585	51.4	1.2	1.2
1D030019	L	1	379.4	7.24	7.29	7.66	0.1202	83.1	4.8	4.8
	L	2	581.6	7.43	7.57	7.90	0.1148	106.2	6.9	6.8
	U	1	145.6	6.67	6.65	7.34	0.1995	82.6	1.8	1.6
	U	2	206.9	6.80	6.88	7.37	0.1698	77.3	2.0	1.8
1D030021	L	1	364.7	7.52	7.56	7.20	0.0832	72.0	4.2	4.0
	L	2	470.6	7.51	7.43	7.71	0.0562	60.7	5.0	5.0
	U	1	383.6	7.31	7.36	7.66	0.1318	113.1	4.4	4.6
	U	2	443.4	6.91	6.88	7.27	0.1995	151.2	7.5	6.3
1D030023	L	1	423.7	7.34	7.42	7.83	0.0741	97.7	4.9	4.8
	L	2	540.3	7.09	7.16	7.74	0.0794	90.9	6.1	5.9
	U	1	508.8	7.80	7.98	7.71	0.0759	77.5	5.6	5.9
	U	2	527.1	7.12	7.15	7.48	0.1259	140.8	5.8	5.7
1D030025	L	1	191.0	7.30	7.30	7.31	0.1096	48.8	2.4	2.3
	L	2	285.0	7.43	7.32	7.64	0.1230	58.9	2.5	2.4
	U	1	189.7	7.26	7.37	7.34	0.1122	52.3	2.1	2.2
	U	2	286.0	7.34	7.31	7.48	0.1349	72.2	2.3	2.0
1D030038	L	1	317.2	7.54	7.67	7.53	0.0692	51.7	3.9	3.9
	L	2	446.0	7.47	7.46	7.70	0.0759	74.3	4.5	4.8
	U	1	291.3	7.38	7.60	7.46	0.1202	83.4	3.7	3.4
	U	2	357.8	7.75	8.03	7.62	0.1230	87.2	3.9	3.6
1D030041	L	1	99.1	6.79	7.02	7.11	0.4169	95.5	1.6	1.1
	L	2	137.4	6.94	7.16	7.26	0.3090	95.5	1.4	1.2
	U	1	112.4	6.66	6.71	7.30	0.5012	117.8	1.8	1.2
	U	2	146.7	6.73	6.84	7.27	0.4074	106.0	1.6	1.2
1D030044	L	1	262.5	7.44	7.48	7.66	0.0912	50.0	3.2	3.1
	L	2	416.2	7.30	7.53	7.64	0.0912	74.6	5.2	4.9
	U	1	207.2	7.20	7.14	7.50	0.0851	46.1	2.1	2.3
	U	2	376.4	7.25	7.33	7.77	0.0550	49.6	4.2	4.3
1D030048	L	1	450.4	7.35	7.54	7.62	0.0851	85.9	5.9	5.5
	L	2	499.4	7.57	7.74	7.59	0.1023	96.4	5.5	5.5
	U	1	459.1	7.50	7.64	7.74	0.0759	79.0	6.0	5.8
	U	2	514.3	7.29	7.32	7.90	0.1288	119.6	8.2	7.6
1D030050	L	1	243.4	6.82	6.88	7.42	0.1862	95.5	3.2	2.7
	L	2	430.5	6.84	6.85	7.73	0.1862	154.0	4.9	4.5
	U	1	35.8	5.82	5.83	6.72	0.8913	82.7	0.7	0.3
	U	2	60.4	6.10	6.11	6.85	0.8318	96.0	1.0	0.6
1D030070	L	1*	1208.1	7.45	7.63	8.36	0.1202	322.5	17.9	16.6
	L	2*	1886.9	7.56	7.73	8.50	0.0182	86.4	23.6	20.8
	U	1*	990.0	7.42	7.63	8.28	0.0912	198.9	13.5	11.6
	U	2*	1858.3	7.44	7.58	8.50	0.0145	55.0	23.1	21.5
1D030071	L	1	869.7	7.55	7.51	8.09	0.0575	86.1	10.3	9.4
	L	2	1068.0	7.80	8.11	8.19	0.0120	22.4	13.0	12.8
	U	1	790.9	7.65	6.32	8.15	0.0550	96.4	10.4	9.4
	U	2	1069.6	8.63	8.98	8.27	0.0043	-4.6	12.9	12.8
1D030074	L	1	139.6	7.04	7.09	7.28	0.1585	55.4	1.8	1.7
	L	2	251.3	7.23	7.24	7.60	0.1259	64.1	3.0	2.9
	U	1	102.6	6.63	6.74	7.11	0.5370	121.6	1.7	1.3
	U	2	104.3	6.31	6.35	6.95	0.9120	177.4	1.8	1.1

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
1D030080	L	1	55.4	6.55	6.52	7.21	0.3548	49.1	0.9	0.4
	L	2	118.4	6.74	6.79	7.23	0.1072	31.3	1.7	1.4
	U	1	39.1	6.20	6.29	7.15	0.6918	61.0	0.8	0.4
	U	2	40.1	6.34	6.55	7.13	0.2455	22.8	0.7	0.5
1D030083	L	1	403.8	7.47	7.44	7.83	0.0708	62.7	5.5	5.1
	L	2	606.3	7.80	8.40	7.83	0.0151	17.4	7.5	6.7
	U	1	273.0	7.16	7.19	7.30	0.0776	59.0	3.3	2.9
	U	2	418.8	7.75	7.86	7.82	0.0224	18.3	5.4	5.0
1D030092	L	1	285.6	7.18	7.22	7.63	0.0776	54.6	3.9	3.5
	L	2	285.7	7.43	7.42	7.78	0.0263	20.1	4.2	4.1
	U	1	176.0	7.01	7.13	7.41	0.1202	53.0	2.4	1.9
	U	2	218.8	7.37	7.53	7.42	0.0339	17.1	2.8	2.7
1D030093	L	1	730.1	7.65	7.45	8.12	0.0398	60.2	9.6	8.7
	L	2	961.6	8.33	8.55	8.23	0.0069	7.4	11.6	11.4
	U	1	1126.1	7.40	7.27	8.30	0.0263	65.8	13.6	12.9
	U	2	1049.0	7.40	7.48	8.25	0.0214	44.2	13.1	12.5
1D031002	L	1	1984.5	8.25	8.53	8.28	0.0200	72.0	16.2	16.4
	L	2	1633.4	8.01	8.20	8.08	0.0263	89.3	17.1	17.3
	U	1	1011.9	7.51	7.65	8.18	0.0427	96.6	12.6	11.3
	U	2	1149.9	7.49	7.59	7.95	0.0398	105.1	12.1	12.8
1D031006	L	1	2348.0	7.81	7.87	8.41	0.0316	161.3	27.4	27.5
	L	2	2417.4	7.78	7.91	8.36	0.0380	196.8	23.4	23.2
	U	1	1998.6	7.51	7.55	8.36	0.0501	199.5	25.0	23.8
	U	2	1989.7	7.50	7.56	8.03	0.0550	216.9	19.7	19.8
1D031014	L	1	228.6	6.89	6.91	7.44	0.1349	66.0	2.8	2.6
	L	2	303.4	6.93	6.99	7.51	0.1445	93.1	3.6	3.2
	U	1	187.5	6.81	6.89	7.44	0.2188	84.7	2.7	2.4
	U	2	196.3	6.70	6.76	7.33	0.1230	69.1	1.9	1.7
1D036006	L	1	184.7	7.17	7.35	7.17	0.2042	79.0	2.9	2.5
	L	2	272.3	8.57	8.71	7.70	0.2042	120.9	4.1	3.6
	U	1	222.4	6.84	6.90	7.15	0.2818	146.9	2.9	2.5
	U	2	204.1	7.26	7.36	7.47	0.2455	106.9	2.1	1.9
1D036008	L	1	266.1	7.08	7.17	7.36	0.1514	80.6	3.1	2.8
	L	2	405.0	7.29	7.41	7.80	0.1479	117.8	4.8	4.5
	U	1	63.3	6.21	6.31	6.53	0.5754	73.6	0.8	0.6
	U	2	124.4	6.47	6.54	7.23	0.2512	67.6	1.5	1.2
1D036010	L	1	186.7	7.12	7.31	7.23	0.1905	75.7	1.8	1.7
	L	2	325.1	7.21	7.48	7.73	0.1318	94.4	3.7	3.3
	U	1	140.3	6.59	6.66	6.88	0.2630	60.0	1.4	1.2
	U	2	215.1	6.80	6.90	7.56	0.1950	77.0	2.0	1.5
1D036011	L	1	11.1	5.78	5.90	6.02	1.6218	44.6	0.2	0.1
	L	2	15.5	6.15	6.12	6.02	0.6457	37.2	0.4	0.4
	U	1	-19.1	4.85	4.81	4.97	16.5959	71.5	0.1	0.0
	U	2	-1.7	5.07	4.95	5.08	5.3703	67.6	0.3	0.2
1D036012	L	1	64.0	6.62	6.63	6.98	0.4571	67.7	1.0	0.9
	L	2	99.0	6.62	6.84	7.50	0.3162	71.6	1.2	1.0
	U	1	30.7	5.55	5.52	5.80	0.6761	92.8	0.3	0.1
	U	2	7.5	5.72	5.67	5.99	2.5119	53.9	0.3	0.2
1D036017	L	1	81.8	6.76	6.75	6.94	0.2630	49.1	1.2	0.9
	L	2	122.1	7.01	6.87	7.33	0.1905	57.0	1.7	1.3
	U	1	28.5	6.29	6.28	6.61	0.6761	44.3	0.6	0.4
	U	2	54.7	6.34	6.43	7.01	0.9333	98.2	0.9	0.5

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
1D037003	L	1	164.8	6.89	6.92	7.24	0.1259	47.9	2.1	1.8
	L	2	207.8	6.91	6.96	7.68	0.0724	28.7	2.6	2.3
	U	1	36.5	6.32	6.36	7.04	0.5248	47.5	0.5	0.4
	U	2	45.3	6.28	6.34	6.69	0.4467	42.2	0.8	0.5
1D037004	L	1	66.4	6.54	6.63	6.97	0.2951	48.2	1.4	1.0
	L	2	121.2	6.62	6.82	7.28	0.3020	72.0	1.3	1.2
	U	1	131.1	6.41	6.43	6.90	0.2138	101.5	1.5	1.3
	U	2	102.5	6.40	6.46	7.27	0.3020	68.1	1.5	1.4
1D037005	L	1	2.2	5.65	5.65	5.82	2.3988	39.6	0.2	0.3
	L	2	6.0	5.93	5.95	6.07	1.6596	37.1	0.5	0.2
	U	1	36.6	4.67	4.64	4.80	3.0200	176.2	0.8	0.1
	U	2	-19.9	4.64	4.61	4.76	19.4984	241.9	0.9	0.2
1D037010	L	1	963.8	7.47	7.52	8.24	0.0309	70.1	12.2	11.5
	L	2	1252.1	7.71	7.79	8.29	0.0135	34.1	15.3	14.9
	U	1	1041.4	7.44	7.48	8.21	0.0219	48.9	12.6	12.4
	U	2	1683.3	7.70	7.74	8.48	0.0148	52.5	20.4	20.1
1D037011	L	1*	3905.5	7.93	8.04	8.63	0.0120	127.5	46.4	45.5
	L	2*	4527.7	7.89	7.98	8.81	0.0081	69.8	50.2	49.6
	U	1*	3890.1	8.21	8.33	8.63	0.0085	75.4	45.5	44.4
	U	2*	4286.5	8.19	8.34	8.82	0.0049	11.0	51.1	49.8
1D037016	L	1	147.9	7.23	7.23	7.16	0.1318	46.7	2.1	1.9
	L	2	193.9	7.22	7.20	7.31	0.1820	59.3	1.7	1.7
	U	1	151.8	7.11	7.29	7.27	0.1820	66.5	2.3	1.9
	U	2	177.7	7.23	7.25	7.15	0.2089	76.9	1.8	1.5
1D037020	L	1	630.7	7.78	7.87	7.94	0.0331	56.4	7.8	7.9
	L	2	733.6	8.20	8.50	7.73	0.0129	19.8	8.9	8.7
	U	1	566.0	7.97	8.03	8.02	0.0575	78.4	7.3	7.1
	U	2	719.1	8.06	8.34	8.09	0.0117	18.2	8.2	7.8
1D037021	L	1	562.1	7.69	7.77	7.98	0.0447	60.8	7.5	7.1
	L	2	599.7	7.70	7.78	7.98	0.0191	22.2	7.2	7.0
	U	1	332.5	7.23	7.19	7.66	0.0501	47.3	4.2	3.8
	U	2	384.7	7.27	7.26	7.73	0.0417	36.2	4.2	4.5
1D037028	L	1*	3043.3	8.15	8.19	8.48	0.0085	67.1	37.2	36.2
	L	2*	3624.7	8.27	8.39	8.71	0.0040	-15.8	45.0	39.9
	U	1*	2695.6	7.80	7.86	8.60	0.0174	124.1	32.6	31.2
	U	2*	3463.3	8.04	8.13	8.71	0.0058	21.4	39.7	39.2
2A058004	L	1	495.2	7.34	7.22	7.76	0.1000	111.4	5.4	5.2
	U	1	472.6	7.30	7.24	7.94	0.1047	109.1	5.5	5.4
2A058005	L	1	580.2	7.37	7.29	7.88	0.1479	159.2	7.3	6.8
	U	1	579.2	8.18	8.22	7.94	0.1318	137.6	7.3	7.0
2A067012	L	1	235.9	7.30	7.32	7.53	0.1738	96.7	3.1	2.6
	U	1	142.3	7.04	7.09	7.22	0.1660	49.5	1.8	1.6
2A068004	L	1	407.1	7.27	7.32	7.81	0.1380	117.4	4.6	4.4
	U	1	400.0	7.35	7.44	7.79	0.0776	72.3	4.5	4.4
2A068007	L	1	4041.8	8.40	8.47	8.47	0.0126	93.1	47.2	40.2
	U	1	3827.6	8.10	8.22	8.40	0.0275	236.7	47.2	46.7
2A068015	L	1	2451.6	8.33	8.36	8.38	0.0200	111.7	26.2	24.7
	U	1	40.3	6.37	6.35	6.87	0.4677	46.9	0.9	0.4

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
2A068022	L	1	326.2	7.60	7.42	7.69	0.1862	110.4	3.9	3.5
	U	1	293.7	7.39	7.35	7.44	0.1585	101.3	4.1	3.4
2A068023	L	1	355.8	7.50	7.37	7.58	0.0603	33.7	2.8	3.0
	U	1	319.8	7.46	7.31	7.70	0.0724	50.9	3.2	3.3
2A068032	L	1	1341.2	7.50	7.53	8.25	0.0550	141.8	17.0	15.7
	U	1	1390.3	8.06	8.11	8.08	0.0288	121.5	17.0	16.2
2A068048	L	1	90.2	6.96	6.94	7.05	0.1549	32.5	1.1	1.0
	U	1	43.0	6.45	6.47	6.74	0.6918	65.0	0.8	0.5
2A068055	L	1	114.1	6.91	6.92	7.20	0.1862	55.8	1.4	1.5
	U	1	60.8	6.62	6.61	7.01	0.1349	26.7	0.6	0.7
2A07701	L	1	91.4	7.03	6.89	7.34	0.0794	19.6	0.8	0.9
	L	2	87.2	7.08	6.88	7.12	0.1259	24.8	1.2	1.1
	L	3	97.1	7.12	7.06	7.41	0.1349	25.7	1.2	1.0
	L	4*	148.9	7.27	7.32	7.37	0.1122	35.3	1.7	1.6
	U	3	40.5	6.70	6.59	7.05	0.3715	28.5	0.6	0.4
	U	4*	57.1	6.61	6.75	7.00	0.3467	50.9	0.8	0.6
2A07702	L	0*	1185.6	8.64	8.51	8.57	0.0043	-10.4	13.6	13.9
	L	1	1148.2	8.69	8.57	8.27	0.0044	-11.4	12.5	12.5
	L	2*	978.2	8.22	8.09	8.38	0.0186	37.9	11.1	10.7
	L	3	1315.3	8.27	8.34	8.43	0.0148	43.2	15.3	15.1
	L	4*	1558.9	8.20	8.20	8.58	0.0120	36.8	18.5	17.2
	U	4*	462.2	6.95	6.95	7.94	0.0676	66.0	5.5	5.6
2A07703	L	1	149.7	6.94	6.62	7.40	0.0851	29.6	1.7	1.5
	L	2	148.1	6.93	6.74	7.45	0.1380	47.9	1.9	1.7
	L	3	145.7	6.95	6.94	7.40	0.1380	38.8	1.7	1.3
	L	4*	183.2	7.00	6.90	7.47	0.1259	63.1	2.1	1.8
	U	3	100.8	6.94	6.72	7.29	0.1175	30.1	1.3	1.1
	U	4*	133.5	6.96	6.84	7.25	0.2089	55.7	1.5	1.5
2A07801	L	1	456.6	8.51	8.47	8.36	0.0224	24.3	5.5	5.1
	L	2	391.6	8.21	7.73	7.79	0.0302	31.0	4.6	4.4
	L	3	377.2	8.19	7.84	7.81	0.0269	28.5	4.2	4.0
	L	4*	972.9	8.81	8.82	8.20	0.0036	-14.0	9.2	9.5
	U	3	370.4	8.38	8.22	7.83	0.0380	30.4	4.0	4.0
	U	4*	736.4	8.51	8.51	8.23	0.0095	17.8	7.4	7.5
2A07802	L	1	221.9	7.44	6.93	7.61	0.0676	47.8	2.6	2.3
	L	2	213.6	7.24	7.11	7.63	0.1698	71.2	2.7	2.3
	L	3	231.0	7.44	7.12	7.60	0.0955	43.4	3.3	2.6
	L	4*	280.1	7.67	7.53	7.70	0.0741	45.1	2.5	2.6
	U	4*	285.0	7.35	7.20	7.68	0.0741	50.6	3.1	3.1
2A07803	L	1	1736.5	8.50	8.39	8.61	0.0051	0.5	19.2	18.6
	L	2	1500.3	8.05	7.83	8.49	0.0115	42.9	17.6	17.6
	L	3	1954.5	8.11	8.09	8.65	0.0245	96.6	24.7	23.2
	L	4*	2927.7	8.29	8.25	8.63	0.0126	98.9	30.8	33.8
	U	3	2227.9	8.02	7.99	8.65	0.0224	106.6	25.7	24.6
	U	4*	3075.9	8.06	8.03	8.60	0.0107	94.0	28.0	30.4
2A07805	L	1	107.6	7.12	6.66	7.37	0.1096	28.8	1.4	1.0
	L	2	88.5	6.99	6.68	7.13	0.2630	44.1	1.2	1.0
	L	3	106.6	7.03	6.81	7.32	0.1549	32.5	1.3	0.9
	L	4*	191.3	7.11	7.12	7.39	0.1122	42.6	2.2	2.2
	U	4*	112.6	6.93	6.89	7.32	0.1549	37.8	1.3	1.3

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
2A07806	L	0*	117.2	6.90	5.89	7.21	0.1549	33.5	1.6	1.4
	L	1	113.2	7.06	6.86	7.23	0.1349	37.3	1.0	1.0
	L	2	103.2	7.06	7.07	7.23	0.3548	74.4	1.9	0.4
	L	3	97.8	6.97	6.93	7.12	0.1585	34.5	1.1	0.8
	L	4*	135.4	6.93	6.94	7.32	0.1122	37.4	1.4	1.3
	U	4*	83.6	6.70	6.49	7.22	0.1698	39.1	0.8	0.8
2A07807	L	0*	159.6	7.20	6.14	7.43	0.1023	34.8	2.5	1.6
	L	1	179.9	7.35	6.83	7.46	0.0631	32.0	2.1	2.0
	L	2	162.7	7.36	6.90	7.58	0.1413	48.8	1.9	1.8
	L	3	191.2	7.31	7.23	7.60	0.1660	63.4	2.3	1.8
	L	4*	232.0	7.35	7.18	7.62	0.1202	89.7	2.7	2.4
	U	4*	174.0	7.11	6.88	7.55	0.1380	71.0	1.7	1.5
2A07808	L	1	163.3	7.17	6.83	7.46	0.0525	26.9	1.8	1.8
	L	2	174.9	7.20	6.60	7.47	0.1549	74.1	2.4	1.8
	L	3	129.3	7.23	7.19	7.44	0.2818	67.7	1.8	1.4
	L	4*	215.9	7.37	7.32	7.57	0.1230	76.8	3.0	2.4
	U	4*	204.6	7.13	7.16	7.53	0.0851	45.5	2.7	2.3
2A07810	L	1	70.2	6.88	6.51	6.96	0.1905	28.4	0.7	0.7
	L	2	62.3	6.88	6.57	7.11	0.1820	28.4	0.9	0.8
	L	3	71.5	7.07	6.75	7.27	0.2951	36.4	1.2	0.9
	L	4*	114.3	7.32	7.27	7.27	0.1862	41.9	1.4	1.3
	U	4*	66.2	6.63	6.57	7.02	0.4169	63.0	1.0	0.8
2A07811	L	1	13.0	6.26	6.28	6.43	0.8128	31.9	0.2	0.3
	L	2	18.1	6.37	6.36	6.86	0.6026	27.6	0.4	0.3
	L	3	18.4	6.55	6.40	6.86	0.6026	23.8	0.4	0.3
	L	4*	37.3	6.47	6.61	6.67	0.4467	45.0	0.5	0.3
	U	4*	24.2	6.24	6.28	6.54	0.6607	53.9	0.5	0.2
2A07812	L	1	100.4	7.01	6.52	7.59	0.1479	34.5	1.3	1.1
	L	2	103.1	7.09	6.73	7.15	0.1698	43.4	1.4	1.1
	L	3	110.3	7.14	6.81	7.20	0.2042	41.3	1.5	1.1
	L	4*	155.6	7.09	7.11	7.33	0.0871	43.1	1.6	1.8
	U	4*	86.4	6.80	6.79	6.98	0.1905	42.0	1.1	0.9
2A07813	L	0*	360.8	7.75	6.44	7.84	0.0398	29.4	4.9	4.3
	L	1	367.6	7.72	7.16	7.69	0.0417	40.2	4.1	3.6
	L	2	366.1	8.07	7.78	7.82	0.0646	57.1	5.0	4.4
	L	3	400.1	7.83	7.84	7.84	0.0457	43.5	5.0	4.6
	L	4*	455.0	7.54	7.45	7.93	0.0417	53.4	5.2	4.9
	U	3*	256.9	7.43	7.20	7.77	0.0646	38.4	3.4	2.7
	U	4*	296.0	7.10	6.89	7.63	0.1413	105.1	3.6	2.9
2A07814	L	0*	326.0	7.73	.	7.84	0.0363	30.3	4.5	3.5
	L	1	376.2	7.91	7.21	7.76	0.0234	25.6	4.2	4.2
	L	2	301.6	7.67	7.31	7.70	0.1023	63.8	3.7	3.2
	L	3	360.8	7.51	7.53	7.80	0.1023	66.9	4.0	3.7
	L	4*	448.6	7.67	7.43	7.96	0.0871	102.9	5.0	4.7
	U	3	232.8	7.39	7.29	7.57	0.1000	49.0	2.9	2.5
	U	4*	372.4	7.63	7.35	7.88	0.0661	57.8	4.4	4.1
2A07815	L	1	96.5	6.98	6.70	7.27	0.1230	26.1	0.8	1.0
	L	2	95.1	7.04	6.53	7.32	0.1413	35.7	1.2	1.1
	L	3	70.6	6.86	6.75	7.10	0.3890	66.1	0.9	0.7
	L	4*	104.6	6.91	6.89	7.24	0.1820	59.8	1.1	1.0
	U	4*	86.6	6.93	6.85	7.14	0.2692	55.0	1.0	0.8
2A07816	L	1	48.4	6.72	6.39	7.08	0.1950	20.9	0.7	0.5
	L	2	66.0	6.81	6.54	6.84	0.2818	40.7	0.8	0.6
	L	3	59.2	6.89	6.74	6.97	0.4074	43.3	0.8	0.6
	L	4*	73.2	6.92	6.82	6.97	0.1738	40.2	0.8	0.8
	U	4*	32.2	6.49	6.49	6.44	0.4074	41.8	0.4	0.3

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
2A07817	L	1	36.4	6.59	6.53	7.01	0.1622	16.4	0.4	0.5
	L	2	30.4	6.65	6.45	6.90	0.3090	24.2	0.6	0.5
	L	3	28.7	6.64	6.41	6.76	0.3981	25.8	0.4	0.3
	L	4*	40.9	6.58	6.59	6.84	0.3467	37.8	0.6	0.5
	U	4*	12.2	6.06	6.09	6.29	1.1220	34.1	0.3	0.2
2A07818	L	1	83.0	6.91	6.45	7.10	0.1202	25.6	1.0	0.9
	L	2	88.5	7.10	6.75	7.10	0.2344	51.2	1.1	0.8
	L	3	94.9	7.08	6.79	7.18	0.3467	59.3	1.3	0.8
	L	4*	117.7	7.18	7.06	7.26	0.1862	53.9	1.4	1.0
	U	3	99.5	7.08	6.80	7.12	0.3162	56.1	1.2	0.7
	U	4*	114.7	7.06	6.96	7.30	0.1862	53.0	1.3	1.2
2A07819	L	1	246.1	7.34	7.12	7.60	0.0363	24.5	2.5	2.7
	L	2	254.3	7.47	6.75	7.64	0.0676	46.3	3.4	2.7
	L	3*	205.7	7.13	7.04	7.50	0.2239	81.3	2.5	1.9
	L	4*	297.8	7.45	7.42	7.73	0.1230	89.8	3.8	3.3
	U	4*	396.7	7.31	7.21	7.81	0.0891	67.1	4.4	4.3
2A07820	L	0*	112.4	6.96	7.33	7.24	0.1585	23.5	1.3	1.4
	L	1	72.5	7.07	6.65	7.06	0.1585	30.8	0.9	0.9
	L	2	77.2	6.91	6.79	7.19	0.2089	32.9	1.0	0.9
	L	3	82.1	6.93	6.65	7.20	0.1479	26.6	1.0	0.8
	L	4*	103.1	6.94	6.79	7.31	0.1950	38.3	1.2	1.0
	U	3	56.6	6.83	6.52	6.98	0.2042	24.3	0.7	0.5
	U	4*	69.5	6.70	6.72	7.09	0.2291	35.9	0.7	0.7
2A07821	L	1	131.4	7.06	6.65	7.33	0.1096	34.4	1.4	1.1
	L	2	140.0	7.13	6.68	7.31	0.1479	47.3	1.7	1.5
	L	3	116.7	7.06	6.94	7.28	0.0955	32.9	1.3	1.0
	L	4*	159.7	7.19	7.20	7.35	0.1259	46.8	1.7	1.5
	U	4*	160.0	7.16	7.14	7.34	0.0933	59.5	2.1	1.6
2A07822	L	1	154.8	7.10	6.80	7.35	0.1318	50.6	2.0	1.8
	L	2	160.2	7.30	7.18	7.57	0.1549	53.5	2.0	1.7
	L	3	172.4	7.34	7.07	7.45	0.1122	37.1	2.4	1.9
	L	4*	243.8	7.44	7.39	7.62	0.1000	64.0	2.8	2.6
	U	4*	239.4	7.30	7.19	7.50	0.1349	74.1	2.9	2.6
2A07823	L	1	91.2	7.00	6.73	7.22	0.1380	37.6	1.3	1.2
	L	2	112.9	6.98	6.95	7.30	0.1413	34.7	1.3	1.2
	L	3	107.9	7.26	7.15	7.34	0.1096	25.9	1.5	1.3
	L	4*	271.5	7.38	7.34	7.63	0.0646	58.9	2.8	2.7
	U	3	102.0	7.23	6.98	7.35	0.1047	24.7	1.4	1.2
	U	4*	412.7	7.45	7.37	7.87	0.0537	46.2	4.8	4.4
2A07824	L	1	46.1	6.67	6.26	7.02	0.1862	21.1	0.5	0.5
	L	2	52.1	6.69	6.50	6.66	0.2399	30.0	0.7	0.6
	L	3	51.4	6.81	6.53	7.10	0.1738	21.7	0.7	0.5
	L	4*	71.9	6.86	6.94	6.95	0.1514	38.6	0.7	0.6
	U	4*	54.6	6.56	6.53	6.74	0.1995	53.0	0.5	0.4
2A07825	L	0*	82.2	6.72	7.12	7.08	0.1862	27.1	1.3	1.2
	L	1	59.5	6.88	6.50	7.07	0.2291	33.2	0.8	0.8
	L	2	53.9	6.82	6.67	7.01	0.2291	27.6	0.8	0.7
	L	3	62.1	6.93	6.76	7.19	0.1622	24.4	0.7	0.6
	L	4*	77.1	6.66	6.57	7.23	0.2138	39.2	1.0	0.7
	U	3	41.2	6.63	6.51	6.92	0.2455	20.9	0.5	0.4
	U	4*	51.4	6.52	6.32	7.00	0.3631	43.1	0.6	0.6

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
2A07826	L	1	362.6	7.10	6.79	7.41	0.0589	49.5	3.7	2.8
	L	2	365.5	7.05	6.73	7.79	0.1072	69.6	4.8	4.1
	L	3	332.1	7.09	7.00	7.80	0.0617	53.2	4.1	3.7
	L	4*	416.7	7.06	7.03	7.92	0.1202	83.0	4.8	4.6
	U	3	299.2	6.92	6.80	7.64	0.1288	76.6	4.0	3.2
	U	4*	224.0	6.42	6.36	7.02	0.6761	405.9	4.0	2.6
2A07827	L	1	280.4	7.37	7.11	7.59	0.0490	28.9	2.8	3.0
	L	2	219.8	7.26	7.24	7.45	0.0617	38.5	2.7	2.3
	L	3	207.7	7.19	7.01	7.53	0.0891	42.5	2.6	2.3
	L	4*	321.9	7.16	7.27	7.75	0.0851	71.9	3.7	3.5
	U	4*	78.1	6.69	6.75	7.12	0.2138	45.5	1.0	0.8
2A07828	L	0*	46.4	6.65	6.47	7.00	0.3020	25.5	0.9	1.2
	L	1	48.9	6.86	6.70	7.01	0.2399	29.6	0.6	0.6
	L	2	43.9	6.82	6.70	7.08	0.2754	26.6	0.7	0.6
	L	3	55.5	6.72	6.84	7.32	0.1950	25.6	0.7	0.6
	L	4*	157.2	6.87	6.75	7.22	0.1698	63.0	1.6	1.6
	U	3	33.5	6.58	6.56	7.08	0.3548	26.6	0.5	0.4
	U	4*	41.6	6.38	6.34	6.87	0.5495	57.5	0.5	0.4
2A07829	L	1	69.0	6.88	6.43	7.19	0.1698	29.5	1.0	0.7
	L	2	66.5	6.88	6.46	7.06	0.3311	47.2	1.1	0.8
	L	3	64.5	6.83	6.74	6.97	0.3020	39.1	0.7	0.6
	L	4*	83.2	6.83	6.85	7.15	0.2089	41.9	1.1	0.9
	U	3	65.5	6.78	6.66	7.10	0.2089	29.1	0.8	0.6
	U	4*	90.7	6.91	6.80	7.18	0.2042	36.0	1.3	1.0
2A07830	L	0*	190.3	7.10	6.86	7.41	0.0575	29.3	3.1	1.8
	L	1	199.0	7.09	6.74	7.62	0.0955	46.9	2.5	2.3
	L	2	254.8	6.84	6.30	7.65	0.4571	213.0	4.0	2.3
	L	3	207.5	7.02	6.89	7.70	0.2630	90.8	2.9	2.4
	L	4*	96.1	7.03	6.94	7.34	0.1820	44.8	1.0	0.8
	U	4*	259.5	6.82	6.72	7.76	0.2188	121.6	3.6	2.8
2A07831	L	0*	331.5	7.28	7.13	7.52	0.0603	45.7	4.6	3.0
	L	1	325.8	7.24	6.86	7.75	0.0537	42.4	4.1	3.9
	L	2*	277.4	7.14	7.03	7.77	0.1514	91.8	3.0	2.6
	L	3	387.8	7.22	7.16	7.93	0.1380	94.1	5.0	4.3
	L	4*	341.6	7.29	7.09	7.80	0.1122	85.4	3.4	2.8
	U	3	211.2	7.32	7.20	7.90	0.1905	80.7	2.8	2.0
	U	4*	254.1	7.41	7.09	7.72	0.1622	91.1	3.1	2.7
2A07832	L	1	87.5	6.99	6.79	7.02	0.1318	33.0	0.9	0.9
	L	2	83.3	6.90	6.76	7.29	0.1585	31.3	1.0	0.9
	L	3	94.2	6.94	6.86	7.40	0.4074	64.5	1.8	1.1
	L	4*	117.0	6.99	6.86	7.29	0.2188	66.7	1.6	1.3
	U	3	113.4	7.00	6.96	7.22	0.2754	47.7	1.6	1.1
	U	4*	119.9	7.06	6.93	7.31	0.1585	46.0	1.4	1.3
2A07833	L	1	213.3	7.54	7.00	7.65	0.0457	28.8	2.4	2.3
	L	2	204.4	7.37	7.05	7.53	0.0832	39.8	2.6	2.3
	L	3	227.6	7.44	7.62	7.60	0.0813	44.0	3.0	2.5
	L	4*	318.0	7.38	7.32	7.73	0.0692	51.2	3.6	3.5
	U	3	205.3	6.90	6.81	7.56	0.1698	70.9	3.1	2.3
	U	4*	233.4	6.80	6.65	7.58	0.1288	65.1	3.1	2.6
2A07834	L	0*	44.6	6.71	6.49	7.06	0.2239	28.0	0.9	0.6
	L	1	50.3	6.77	6.46	6.87	0.2291	28.8	0.7	0.7
	L	2	38.2	6.73	6.64	7.06	0.3802	35.9	0.5	0.3
	L	3	45.1	6.83	6.67	7.23	0.3981	34.5	0.6	0.4
	L	4*	67.0	6.75	6.83	7.02	0.2692	46.9	0.8	0.6
	U	4*	50.4	6.59	6.54	6.90	0.4169	47.2	0.5	0.4

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
2A07835	L	1	99.5	6.98	6.72	7.31	0.0871	21.4	1.1	1.0
	L	2	95.8	7.11	6.74	7.34	0.1259	30.6	1.4	1.4
	L	3	99.4	7.01	6.78	7.16	0.1202	29.2	1.1	0.9
	L	4*	149.2	7.00	6.84	7.34	0.1259	49.1	1.9	1.7
	U	4*	114.1	6.95	6.80	7.26	0.1318	44.5	1.3	1.2
2A07881	L	1	548.6	8.17	7.98	8.08	0.0372	58.2	6.6	6.3
	L	2	521.4	8.21	8.28	8.04	0.0646	66.8	6.1	5.7
	L	3	594.8	8.22	8.15	8.02	0.0447	56.4	7.5	7.3
	L	4*	984.1	8.26	8.21	8.27	0.0151	36.7	10.6	10.5
	U	3	435.3	7.97	7.72	7.95	0.0741	55.0	6.0	5.3
	U	4*	766.7	7.72	7.66	8.13	0.0447	77.3	8.9	8.3
2A07882	L	1	107.7	7.01	6.65	7.33	0.1047	24.3	1.3	1.1
	L	2	94.4	7.00	6.89	7.30	0.1148	28.8	1.3	1.0
	L	3	119.8	7.09	7.00	7.28	0.2344	53.3	1.3	1.1
	L	4*	162.0	7.08	7.11	7.39	0.1585	47.2	2.2	1.7
	U	4*	84.9	6.94	6.85	6.94	0.2818	53.8	1.1	0.8
2A08801	L	0*	1623.2	8.03	7.27	8.16	0.0069	21.6	18.2	19.4
	L	1	1622.4	8.03	7.90	8.49	0.0110	45.1	17.9	17.7
	L	2	1104.9	7.73	7.58	8.36	0.0257	60.5	11.7	11.6
	L	3	1817.3	8.03	8.12	8.53	0.0120	51.2	20.2	18.0
	L	4*	1768.2	7.89	7.88	8.59	0.0110	47.3	19.4	20.7
	U	4*	1667.5	7.67	7.67	8.62	0.0166	62.4	18.1	18.8
2A08802	L	1	91.1	6.58	6.47	7.22	0.1349	32.8	1.1	0.9
	L	2	86.9	6.58	6.42	7.16	0.2089	41.1	1.3	1.0
	L	3	89.3	6.60	6.51	7.19	0.2138	37.1	1.1	0.8
	L	4*	95.1	6.60	6.51	7.22	0.2570	48.6	1.3	1.0
	U	4*	113.1	6.88	6.82	7.26	0.1778	44.2	1.3	1.1
2A08803	L	1	153.7	7.07	6.59	7.49	0.0174	7.4	1.9	1.6
	L	2	196.2	7.09	6.79	7.41	0.0813	37.8	2.3	2.2
	L	3	186.6	7.13	6.39	7.49	0.0661	29.6	2.1	1.7
	L	4*	234.2	7.05	6.98	7.55	0.0871	57.2	2.5	2.5
	U	4*	272.0	6.93	6.97	7.67	0.1230	351.4	3.1	2.9
2A08804	L	1	61.3	6.73	6.62	6.89	0.1778	27.8	0.7	0.7
	L	2	57.3	6.84	6.75	6.91	0.2570	36.5	0.9	0.6
	L	3	64.4	6.88	6.82	7.00	0.3467	37.8	0.8	0.6
	L	4*	76.3	6.79	6.86	7.10	0.2692	45.2	0.7	0.7
	U	4*	64.0	6.77	6.77	6.99	0.2630	39.6	1.0	0.7
2A08805	L	1	125.9	6.88	6.51	7.19	0.1585	48.1	1.3	1.0
	L	2	119.4	6.95	6.96	7.28	0.1479	38.4	1.6	1.4
	L	3	115.2	7.00	6.30	7.32	0.1096	30.1	1.4	1.1
	L	4*	153.4	6.94	6.91	7.37	0.1950	50.3	1.9	1.7
	U	4*	62.5	6.23	6.19	6.83	0.5495	62.8	1.0	0.8
2A08806	L	1	164.1	6.86	6.80	7.13	0.2818	92.6	1.5	1.6
	L	2	175.6	6.88	6.81	7.38	0.1514	69.0	2.3	1.6
	L	3	159.6	6.88	6.81	7.43	0.1950	66.8	2.3	1.5
	L	4*	194.3	6.78	6.81	7.55	0.2239	97.6	2.5	2.1
	U	4*	155.8	6.76	6.80	7.46	0.1738	52.9	2.0	1.8
2A08808	L	1	194.9	7.18	6.67	7.43	0.0955	46.9	2.0	1.8
	L	2	225.2	7.21	7.18	7.54	0.0513	33.2	2.4	2.3
	L	3	207.6	7.24	6.62	7.56	0.0550	27.8	2.3	2.1
	L	4*	320.8	7.31	7.21	7.69	0.0708	42.9	3.8	3.7
	U	4*	140.1	6.82	6.74	7.35	0.1778	57.6	1.9	1.5

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
2A08809	L	0*	83.4	6.83	6.78	7.14	0.2089	36.6	1.3	1.1
	L	1	91.4	6.95	6.33	7.04	0.1905	46.5	1.0	0.9
	L	2*	77.6	6.86	6.75	7.13	0.3162	59.6	1.2	1.2
	L	3	92.8	6.99	6.97	7.14	0.1622	31.0	1.2	1.0
	L	4*	97.8	6.95	6.72	7.28	0.2291	51.4	1.0	1.0
	U	4*	87.9	6.88	6.69	7.11	0.2570	43.3	1.0	0.9
2A08810	L	1	136.0	7.19	6.89	7.07	0.0832	28.6	1.5	1.4
	L	2	134.8	7.11	6.76	7.40	0.1778	47.5	1.8	1.4
	L	3	149.4	7.22	6.48	7.39	0.1862	59.8	2.2	1.6
	L	4*	185.7	7.17	7.08	7.48	0.1122	59.8	2.6	1.9
	U	4*	183.9	6.90	6.77	7.42	0.0933	55.5	2.6	1.9
2A08811	L	0*	113.1	7.01	6.87	7.32	0.0832	22.9	1.6	1.4
	L	1	117.3	7.13	6.64	7.18	0.1000	35.7	1.2	1.0
	L	2	114.8	7.01	6.91	7.26	0.1380	38.5	1.6	1.4
	L	3	135.7	7.32	7.01	7.70	0.1148	31.7	1.6	1.3
	L	4*	181.5	7.08	6.97	7.50	0.1072	43.8	2.3	1.8
	U	4*	136.5	6.85	6.82	7.51	0.1778	51.5	1.7	1.4
2A08901	L	1	130.2	7.29	6.79	7.50	0.0851	29.8	1.6	1.3
	L	2	108.3	6.97	6.96	7.17	0.1660	41.8	1.6	1.3
	L	3	126.8	7.25	7.08	7.53	0.1259	34.1	1.4	1.4
	L	4*	163.3	7.14	7.11	7.50	0.0891	45.1	2.1	1.7
	U	3	57.6	6.75	6.65	7.08	0.1905	27.3	0.8	0.7
	U	4*	66.5	6.71	6.67	6.94	0.1622	42.2	0.9	0.8
2A08902	L	0*	62.9	6.85	6.72	7.19	0.1349	19.8	1.1	0.7
	L	1	70.2	6.86	6.67	7.09	0.1514	25.9	0.8	0.8
	L	2*	42.8	6.68	6.67	6.78	0.2692	26.9	0.5	0.4
	L	3	60.3	6.97	6.85	7.19	0.2512	29.1	0.8	0.6
	L	4*	84.3	6.95	6.91	7.13	0.1622	34.6	0.9	0.8
	U	4*	97.1	6.91	6.80	7.06	0.2138	50.9	1.1	0.8
2A08903	L	1	114.9	7.06	6.93	7.25	0.3020	65.3	1.2	1.0
	L	2	119.0	7.08	6.85	7.22	0.1660	41.8	1.6	1.3
	L	3	107.5	7.04	6.97	7.38	0.1288	32.8	1.2	1.1
	L	4*	142.6	7.05	7.14	7.42	0.1660	61.3	1.8	1.6
	U	3	100.6	7.09	6.95	7.39	0.1202	31.3	1.2	0.9
	U	4*	140.2	7.01	7.08	7.44	0.1995	68.0	1.9	1.6
2A08904	L	0*	183.1	7.10	6.76	7.41	0.0562	24.1	2.5	2.2
	L	1	182.7	7.25	6.96	7.50	0.0955	50.3	2.0	1.8
	L	2*	134.9	6.80	6.78	7.21	0.6607	156.4	2.8	1.5
	L	3	192.7	7.23	7.20	7.46	0.1413	64.0	2.2	1.6
	L	4*	193.5	6.83	6.80	7.56	0.1820	74.5	2.3	1.9
	U	3	168.7	6.89	6.86	7.37	0.1585	51.8	2.2	1.7
	U	4*	193.2	6.85	6.79	7.59	0.1820	62.9	2.3	1.9
2A08905	L	1	71.6	6.83	6.58	7.13	0.1413	26.4	0.9	0.8
	L	2	71.8	6.79	6.57	7.26	0.2344	38.5	1.1	0.9
	L	3	77.9	6.88	6.83	7.17	0.1738	31.4	0.9	0.7
	L	4*	99.6	7.19	7.09	7.28	0.1479	41.7	1.1	1.0
	U	3	67.8	7.03	6.93	7.07	0.1549	25.4	0.8	0.7
	U	4*	87.2	7.11	7.06	7.25	0.1660	12.0	1.1	1.0
2A08906	L	0*	68.0	6.46	6.63	6.97	0.0977	19.2	1.3	0.9
	L	1	70.6	6.64	6.48	7.20	0.3311	52.0	1.1	0.7
	L	2*	52.6	6.32	6.28	6.80	1.9953	243.8	2.2	0.7
	L	3	75.9	6.53	6.43	6.95	0.4898	70.6	1.0	0.8
	L	4*	51.2	6.26	6.28	7.01	0.5012	60.4	0.7	0.7
	U	4*	46.8	6.31	6.27	6.93	0.7586	82.4	1.3	0.6

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
2B036003	L	1	1590.5	7.98	8.14	8.25	0.0234	71.0	18.8	17.6
	L	2	2115.9	8.17	8.29	8.39	0.0178	77.9	22.4	25.9
	U	1	1644.8	7.70	7.71	8.21	0.0316	122.4	19.2	18.6
	U	2	2196.8	7.88	7.90	8.32	0.0229	105.1	25.8	26.8
2B036023	L	1	2678.1	8.01	8.11	8.64	0.0072	35.6	33.4	33.3
	L	2	2850.5	8.15	8.32	8.31	0.0240	152.3	28.9	19.8
	U	1	123.3	6.96	7.01	7.07	0.1148	36.8	1.6	1.4
	U	2	114.4	6.93	6.90	7.18	0.3236	73.6	1.7	1.4
2B036027	L	1	607.7	7.68	7.75	7.95	0.0275	43.0	7.6	7.1
	L	2	720.2	8.09	8.31	8.05	0.0135	18.5	8.8	8.9
	U	1	682.0	7.81	7.94	7.98	0.0372	53.6	8.7	8.5
	U	2	823.2	8.10	8.36	8.03	0.0081	8.5	10.1	10.2
2B036028	L	1	124.9	6.70	6.81	7.28	0.1380	46.2	1.5	1.4
	L	2	145.7	6.97	6.97	7.44	0.0661	23.7	2.0	1.9
	U	1	97.2	6.78	6.82	7.16	0.1950	40.0	1.3	1.1
	U	2	122.3	6.83	6.86	7.53	0.0813	24.4	1.7	1.7
2B036031	L	1*	33.0	6.26	6.62	6.37	0.6607	86.5	0.4	0.1
	L	2*	114.4	7.27	7.19	7.08	0.0457	16.1	1.6	1.5
	U	1*	-316.0	4.50	4.51	3.61	257.0396	872.7	2.2	0.0
	U	2*	-387.7	4.27	4.52	3.63	213.7962	583.9	0.7	0.1
2B036046	L	1	49.2	6.59	6.65	7.21	0.2188	35.9	0.5	0.5
	L	2	76.3	6.91	6.95	7.61	0.1413	32.1	1.3	0.9
	U	1	-10.1	5.03	4.94	5.02	12.0226	52.7	0.1	0.0
	U	2	-8.8	5.08	5.00	5.08	8.9125	56.3	0.3	0.1
2B036051	L	1*	4327.5	8.27	8.31	8.69	0.0078	65.2	47.1	41.8
	L	2*	4487.2	8.18	8.49	8.76	0.0056	22.7	51.7	41.4
	U	1*	4114.7	8.31	8.31	8.60	0.0085	101.1	45.3	42.4
	U	2*	4413.0	8.10	8.42	8.77	0.0041	-5.4	52.2	43.9
2B036057	L	1	907.4	7.88	8.02	8.21	0.0407	73.7	11.8	11.0
	L	2	1397.2	8.37	8.66	8.34	0.0048	-0.4	17.3	17.1
	U	1	438.9	6.98	7.01	7.84	0.0933	101.2	5.6	4.9
	U	2	672.7	7.16	7.25	7.85	0.0204	27.4	7.9	8.0
2B036062	L	1	176.3	7.33	7.34	7.48	0.0912	33.0	2.0	1.8
	L	2	222.9	7.57	7.52	7.57	0.0275	13.5	2.9	2.7
	U	1	167.2	7.25	7.25	7.53	0.1122	37.9	1.9	2.0
	U	2	196.6	8.10	8.85	7.71	0.0234	11.3	2.6	2.4
2B036076	L	1	138.4	7.08	7.17	7.25	0.0813	27.7	1.7	1.5
	L	2	244.6	7.33	7.36	7.57	0.0339	19.6	3.2	2.9
	U	1	155.2	7.15	7.21	7.24	0.0813	29.0	1.9	1.8
	U	2	250.6	7.22	7.33	7.35	0.0407	18.9	3.1	3.0
2B036083	L	1	1452.6	8.65	8.77	8.37	0.0398	127.6	17.3	17.0
	L	2	1598.8	8.28	8.47	8.45	0.0068	11.7	19.6	19.5
	U	1	1446.6	8.53	8.75	8.30	0.0479	158.7	17.8	18.1
	U	2	1506.9	8.16	8.43	8.46	0.0076	22.1	18.3	18.3
2B041008	L	1	114.5	6.90	6.83	7.26	0.1122	32.8	1.3	1.3
	L	2	164.3	7.02	7.00	7.42	0.0759	23.7	2.0	1.9
	U	1	111.1	6.92	6.85	7.24	0.1259	35.6	1.3	1.2
	U	2	154.9	7.02	7.10	7.43	0.0589	22.9	2.1	1.9
2B041016	L	1	308.2	7.27	7.29	7.70	0.0794	57.9	3.7	3.4
	L	2	452.4	7.40	7.45	7.79	0.0151	13.0	5.6	5.4
	U	1	168.1	6.24	6.27	7.54	0.4169	132.9	3.1	1.9
	U	2	257.6	6.22	6.27	7.23	0.1862	78.7	4.0	3.1

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (*continued*)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
2B041018	L	1	1000.1	7.48	7.47	8.23	0.0331	78.2	13.1	11.6
	L	2	1264.2	7.46	7.50	8.24	0.0129	35.7	15.9	15.0
	U	1	0.9	5.33	5.23	5.73	4.2658	66.9	0.7	0.0
	U	2	9.8	5.24	5.22	5.92	3.5481	69.5	0.7	0.1
2B041020	L	1	89.4	6.66	6.74	7.25	0.1905	41.8	1.1	1.0
	L	2	122.1	6.71	6.80	6.93	0.1023	30.7	1.8	1.5
	U	1	134.6	6.53	6.59	7.23	0.1905	77.2	2.0	1.4
	U	2	177.2	6.52	6.65	7.59	0.1148	42.2	2.7	1.4
2B041029	L	1	289.3	7.19	7.14	7.69	0.0832	57.1	3.3	3.1
	L	2	295.9	7.46	7.56	7.51	0.0309	11.3	3.8	3.7
	U	1	157.1	7.04	6.99	7.39	0.0933	41.0	1.9	1.8
	U	2	186.9	7.09	7.10	7.25	0.0457	17.4	2.5	2.4
2B041032	L	1	159.9	6.72	6.82	7.24	0.1148	46.8	1.8	1.7
	L	2	178.1	6.72	6.77	7.35	0.0741	25.9	2.3	2.0
	U	1	42.4	5.64	5.70	6.77	1.0000	90.1	1.5	0.4
	U	2	36.4	5.56	5.59	6.55	0.8913	72.0	0.8	0.4
2B041042	L	1	898.8	7.92	7.94	8.21	0.0209	37.3	10.3	10.3
	L	2	1275.3	7.97	7.98	8.14	0.0079	13.0	15.4	15.5
	U	1	843.8	7.82	7.85	8.18	0.0191	39.9	10.2	10.2
	U	2	1171.3	7.92	7.97	8.28	0.0065	6.1	14.0	14.3
2B041049	L	1	1167.4	7.75	7.80	8.31	0.0174	38.3	14.1	14.1
	L	2	1460.8	7.85	7.82	8.44	0.0066	9.4	17.9	17.4
	U	1	-16.0	4.65	4.67	4.76	15.4882	125.8	0.5	0.0
	U	2	-32.0	4.71	4.66	4.70	19.9526	108.4	0.4	0.0
2B041054	L	1	342.4	7.15	7.25	7.78	0.0832	58.9	4.1	3.7
	L	2	566.7	6.81	6.81	7.49	0.1585	137.0	7.3	6.9
	U	1	304.2	6.52	6.52	7.75	0.2042	123.7	4.1	3.5
	U	2	465.7	6.71	6.72	7.75	0.1230	130.0	5.3	5.0
2B042003	L	1	145.5	7.15	7.16	7.46	0.0933	36.0	1.8	1.6
	L	2	209.1	7.40	7.43	7.57	0.0389	17.6	2.6	2.7
	U	1	108.5	6.99	7.04	7.29	0.1072	37.7	2.0	1.2
	U	2	153.6	7.13	7.18	7.03	0.0617	19.6	2.0	1.9
2B042005	L	1	2811.5	7.48	8.50	8.60	0.0068	34.8	31.4	31.0
	L	2	3502.7	8.03	8.20	8.75	0.0068	34.6	41.1	41.7
	U	1	1254.8	7.48	7.50	8.31	0.0347	103.8	16.0	15.4
	U	2	2027.9	7.32	7.39	8.56	0.0200	91.8	25.6	24.1
2B042007	L	1	896.5	9.36	9.43	8.58	0.0016	-27.0	10.2	10.6
	L	2	1194.4	7.72	7.77	8.15	0.0138	32.6	14.6	14.9
	U	1	955.3	9.09	9.17	8.26	0.0151	32.6	11.4	11.3
	U	2	1198.0	8.40	8.52	8.31	0.0062	6.4	14.9	14.7
2B042017	L	1	407.6	7.47	7.51	7.90	0.0490	61.2	5.2	4.8
	L	2	445.7	7.59	7.59	7.76	0.0200	15.5	5.3	5.4
	U	1	416.8	7.45	7.46	7.85	0.0214	41.3	5.1	4.6
	U	2	418.1	7.35	7.44	7.36	0.0240	9.5	5.1	4.9
2B042022	L	1	325.4	7.38	7.36	7.66	0.0617	42.6	3.8	3.5
	L	2	407.6	7.45	7.44	7.86	0.0224	22.5	5.3	5.0
	U	1	383.5	7.06	7.05	7.85	0.0708	64.1	5.4	4.6
	U	2	482.8	7.18	7.19	7.90	0.0309	32.3	6.0	5.9
2B042032	L	1	2995.8	7.96	7.98	8.63	0.0105	77.8	36.2	32.9
	L	2	3222.5	7.99	8.04	8.72	0.0074	46.8	40.4	34.6
	U	1	2113.3	8.31	8.38	8.45	0.0091	50.8	25.3	24.9
	U	2	3140.9	7.40	7.43	8.70	0.0129	87.7	41.8	35.2

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
2B042036	L	1	496.0	7.52	7.56	7.88	0.0339	43.0	6.4	5.9
	L	2	619.2	7.79	7.85	7.98	0.0112	14.1	7.7	7.7
	U	1	469.1	7.67	7.73	7.91	0.0389	48.8	6.0	5.9
	U	2	604.4	7.69	7.72	7.98	0.0151	22.2	7.5	7.4
2B042044	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B042047	L	1	215.4	6.90	6.93	7.57	0.1175	64.9	2.9	2.5
	L	2	251.3	6.96	6.96	7.56	0.0617	33.6	3.3	3.0
	U	1	203.8	7.01	7.00	7.40	0.1148	46.5	2.4	2.2
	U	2	231.1	6.95	7.00	7.43	0.0759	32.2	2.8	2.7
2B042052	L	1	511.9	7.38	7.38	7.90	0.0389	46.5	6.3	6.3
	L	2	621.8	7.40	7.45	7.79	0.0186	26.0	7.7	7.7
	U	1*	1671.5	7.64	7.67	8.44	0.0219	79.7	20.3	19.2
	U	2*	2020.4	7.63	7.66	8.50	0.0123	51.7	25.1	24.3
2B042063	L	1	956.1	7.50	7.51	8.24	0.0380	77.0	11.9	11.4
	L	2	1025.5	7.33	7.43	8.08	0.0229	55.3	12.6	11.9
	U	1	973.8	7.57	7.64	8.23	0.0295	62.9	12.0	11.5
	U	2	1022.9	7.40	7.47	8.24	0.0182	43.2	12.6	11.9
2B042064	L	1	271.2	7.08	7.06	7.73	0.1202	73.5	3.6	3.7
	L	2	316.5	7.05	7.06	7.52	0.0631	33.1	3.9	3.7
	U	1	457.7	6.53	6.52	7.86	0.2138	178.3	5.9	4.8
	U	2	509.0	6.53	6.57	7.70	0.0977	87.3	6.9	6.0
2B047013	L	1	292.6	7.32	7.33	7.81	0.0851	57.3	3.2	1.1
	L	2	407.3	7.33	7.31	7.78	0.0398	43.5	3.7	3.9
	U	1	295.8	7.03	7.03	7.87	0.0646	43.6	3.4	3.4
	U	2	437.3	7.00	6.94	7.57	0.0977	77.0	4.9	4.3
2B047019	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B047022	L	1	799.6	8.85	9.14	7.95	0.0288	54.0	10.2	9.8
	L	2	855.0	8.91	9.02	8.20	0.0151	36.8	9.2	9.7
	U	1	955.1	7.83	7.96	8.07	0.0398	81.6	11.9	12.0
	U	2	1068.3	7.96	8.10	8.18	0.0309	78.4	13.0	12.6
2B047032	L	1	93.8	6.85	6.83	7.23	0.3236	62.6	1.5	1.2
	L	2	93.2	6.80	6.90	7.06	0.2239	44.7	1.1	0.9
	U	1	107.6	6.84	6.70	7.05	0.1698	81.3	1.0	0.9
	U	2	96.6	6.72	6.89	7.43	0.1000	32.1	0.9	1.1
2B047036	L	1	72.6	6.70	6.78	7.19	0.1622	30.9	0.9	0.8
	L	2	78.4	6.74	6.81	7.17	0.1096	21.8	1.0	1.0
	U	1	73.7	6.58	6.62	7.30	0.2042	38.8	1.0	0.9
	U	2	76.4	6.61	6.57	7.45	0.1413	25.7	1.1	0.9
2B047044	L	1	324.1	7.41	7.49	7.60	0.0479	37.2	3.3	3.1
	L	2	726.4	8.05	8.12	8.07	0.0170	32.0	10.3	11.4
	U	1	98.3	6.75	6.81	7.20	0.2630	49.0	1.4	1.2
	U	2	155.2	7.11	7.06	7.28	0.1950	65.4	1.4	1.4
2B047050	L	1	4834.3	8.10	8.16	8.60	0.0079	92.4	57.5	51.6
	L	2	4985.5	8.11	8.16	8.79	0.0054	18.7	59.8	51.1
	U	1	4678.7	8.42	8.46	8.58	0.0047	-21.1	52.9	50.2
	U	2	5170.9	8.34	8.44	8.86	0.0030	-85.4	61.8	51.1
2B047061	L	1	760.8	8.23	8.44	8.13	0.0191	32.1	9.0	8.9
	L	2	812.3	9.15	9.33	8.31	0.0012	-35.7	9.5	9.9
	U	1	546.2	7.68	7.85	7.97	0.0309	38.7	6.9	6.8
	U	2	610.3	7.85	7.98	7.61	0.0120	11.9	7.4	7.4

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
2B047062	L	1*	5143.8	7.62	7.70	8.65	0.0071	72.8	59.2	52.6
	L	2*	7602.8	7.58	7.61	8.75	0.0098	146.3	92.7	57.3
	U	1*	6754.9	8.23	8.29	8.52	0.0102	169.3	81.0	71.2
	U	2*	6108.4	7.62	7.62	8.84	0.0083	114.5	75.7	57.0
2B047066	L	1	160.9	6.96	7.18	7.24	0.2138	81.8	2.2	1.9
	L	2	176.0	7.17	7.29	7.11	0.0550	20.1	2.5	2.4
	U	1*	.	.	.	.	.	.	.	.
	U	2	129.3	6.69	6.70	7.19	0.1122	36.6	1.9	1.6
2B047076	L	1	4.2	5.59	5.52	6.04	1.3490	25.4	0.3	0.2
	L	2	5.8	5.59	5.52	6.16	1.5136	37.5	0.5	0.1
	U	1	11.7	5.88	5.92	6.30	1.1220	27.0	0.4	0.3
	U	2	13.1	5.98	5.93	6.35	0.6310	25.3	0.3	0.1
2B047078	L	1	390.5	7.08	7.10	7.69	0.1413	105.7	6.0	4.9
	L	2	480.9	7.11	7.17	7.70	0.0295	32.3	6.2	5.7
	U	1	181.7	6.74	6.98	7.38	0.3890	182.1	4.0	2.5
	U	2	267.1	6.81	6.84	7.10	0.1023	58.1	4.0	3.3
2B047087	L	1*	3888.5	7.87	7.88	8.73	0.0069	45.2	44.3	41.0
	L	2*	3790.8	7.87	7.93	8.68	0.0063	35.7	43.9	39.9
	U	1*	4829.7	7.76	7.81	8.83	0.0085	82.9	57.0	49.7
	U	2*	4260.9	7.88	7.97	8.73	0.0089	68.7	50.3	43.6
2B047089	L	1	153.6	7.27	7.32	7.64	0.0501	20.3	2.1	2.0
	L	2	180.0	7.20	7.18	7.30	0.0537	16.0	2.4	2.2
	U	1	143.4	7.20	7.24	7.58	0.0372	16.0	2.0	1.9
	U	2	161.8	7.17	7.18	7.30	0.0603	27.0	2.2	2.0
2B047093	L	1	1071.6	7.45	7.44	8.11	0.0251	65.1	13.3	13.4
	L	2*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B047100	L	1	295.0	7.79	7.87	7.79	0.0347	23.6	3.3	3.7
	L	2	391.3	8.53	8.84	7.37	0.0170	11.7	4.7	4.7
	U	1	209.7	7.19	7.28	7.32	0.0724	35.5	2.4	2.4
	U	2	313.7	7.12	7.18	7.17	0.0316	13.5	4.0	3.7
2B057029	L	1	2062.7	8.47	8.62	8.41	0.0112	63.2	23.8	22.9
	L	2	1927.3	7.91	8.06	8.29	0.0316	125.5	21.6	21.5
	U	1	2412.6	7.48	7.55	8.45	0.0309	157.1	26.5	25.8
	U	2	2581.7	7.64	7.69	8.27	0.0234	140.5	29.9	29.1
2B057042	L	1	183.4	7.01	6.96	7.76	0.0977	40.2	1.7	1.6
	L	2	205.6	6.83	6.94	7.50	0.1000	46.1	2.2	2.3
	U	1*	511.9	7.63	7.64	7.87	0.0234	30.3	6.8	6.7
	U	2*	495.5	7.61	7.66	7.83	0.0407	66.6	4.6	4.8
2B058015	L	1	325.7	7.75	7.78	7.44	0.0263	14.9	4.2	4.2
	L	2	416.1	7.65	7.77	7.38	0.0195	17.0	5.1	5.1
	U	1	9.3	5.89	5.87	6.49	1.1749	36.3	0.4	0.3
	U	2	9.7	5.95	5.85	6.35	0.9333	28.5	0.3	0.1
2B058017	L	1	185.9	7.26	7.47	7.41	0.0977	27.3	2.5	2.4
	U	1	228.0	6.98	6.99	7.31	0.0724	35.2	3.1	3.0
	U	2	249.4	7.01	7.02	7.39	0.0589	41.1	3.3	3.1
2B058024	L	1	245.6	7.50	7.53	7.43	0.0417	20.3	3.2	3.2
	U	1	205.0	7.20	7.28	7.42	0.0871	26.7	2.8	2.7
	U	2	235.7	7.15	7.13	7.40	0.0603	29.3	3.1	2.9
2B077012	L	1	3206.2	8.12	8.21	8.41	0.0269	195.7	39.4	38.1
	U	1	2430.5	8.59	8.62	8.38	0.0155	83.7	26.9	26.8

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
2B077016	L	1	3216.8	7.99	8.02	8.52	0.0145	126.3	39.7	37.6
	U	1	2779.1	7.84	7.88	8.27	0.0251	157.0	28.8	27.8
2B087003	L	1	2342.3	7.94	8.19	8.38	0.0186	100.9	26.6	25.4
	U	1	2739.7	8.10	8.18	8.36	0.0138	87.0	26.9	26.8
2B087005	L	1	278.6	6.35	6.38	7.51	0.2630	145.8	3.7	3.0
	U	1	253.2	6.88	6.77	7.70	0.1259	76.0	3.0	2.8
2B088002	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B088004	L	1	2362.0	7.82	7.91	8.56	0.0158	81.2	29.0	29.0
	U	1	2243.3	7.98	8.05	8.52	0.0132	73.9	28.6	28.6
2B088006	L	1	2730.6	8.19	8.30	8.50	0.0083	55.9	30.5	29.5
	U	1	2645.4	8.17	8.27	8.43	0.0095	65.7	26.5	27.1
2B088007	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B088013	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B088016	L	1	1987.5	7.62	7.69	8.44	0.0204	91.5	23.7	23.3
	U	1	815.8	7.51	7.56	8.08	0.0316	52.7	10.3	10.1
2B088019	L	1	190.6	7.02	6.89	7.22	0.1622	61.7	1.8	1.6
	U	1	201.7	7.08	6.96	7.31	0.1549	56.0	1.6	1.6
2B088020	L	1	83.8	6.43	6.44	7.19	0.3311	65.3	1.0	0.9
	U	1	66.6	5.57	5.64	7.09	1.4454	195.0	1.4	0.7
2B088021	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B088022	L	1	728.8	7.55	7.55	7.89	0.0288	46.5	8.7	8.9
	U	1	689.7	7.56	7.52	7.75	0.0513	67.5	8.5	8.4
2B088026	L	1	3202.0	8.02	8.07	8.51	0.0085	62.1	41.3	39.6
	U	1	2508.2	7.58	7.58	8.49	0.0186	91.0	30.8	30.1
2B088033	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B088041	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B088045	L	1	2621.6	7.81	7.96	8.46	0.0170	109.6	33.5	33.0
	U	1	1967.5	7.68	7.70	8.49	0.0132	55.4	23.5	22.8
2B088049	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B088065	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B088069	L	1	343.3	7.29	7.41	7.57	0.0380	38.6	3.9	3.8
	U	1	302.2	7.08	7.03	7.69	0.0525	39.7	4.0	3.8
2B098006	L	1	312.1	7.40	7.30	7.58	0.0676	54.9	3.9	3.8
	U	1	349.0	7.34	7.33	7.59	0.0617	51.2	3.9	3.9
2B098015	L	1	251.4	7.06	7.15	7.57	0.0912	61.4	3.8	3.1
	U	1	176.1	6.95	7.04	7.35	0.0977	45.2	2.3	2.2

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables *(continued)*

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
2B098019	L	1	298.5	7.25	7.26	7.74	0.0550	28.1	3.7	3.5
	U	1	110.6	6.89	6.91	7.04	0.1047	29.1	1.5	1.3
2C028043	L	1	82.2	6.68	6.75	6.90	0.1660	41.9	1.1	0.9
	L	2	160.1	6.97	7.14	7.39	0.0955	43.6	1.8	1.8
	U	1	79.6	6.33	6.43	6.69	0.2455	51.5	1.4	0.9
	U	2	177.2	6.67	6.88	7.15	0.1660	65.0	2.5	2.3
2C028050	L	1	100.0	6.91	6.93	6.98	0.1230	31.5	0.9	1.0
	L	2	124.2	6.82	6.99	7.08	0.2291	67.8	1.5	1.6
	U	1	-19.8	4.83	4.78	4.90	17.7828	104.4	0.2	0.2
	U	2	-37.7	4.60	4.59	4.60	26.9153	122.2	0.4	0.2
2C028051	L	1*	-117.5	4.39	4.36	4.33	46.7735	229.2	0.2	0.0
	L	2*	-316.4	3.77	3.74	3.80	181.9701	747.7	0.1	0.0
	U	1	64.4	6.65	6.66	6.83	0.2042	28.6	1.0	0.8
	U	2	162.8	6.99	6.97	7.49	0.0871	40.4	2.1	2.0
2C028056	L	1	37.7	6.31	6.39	6.57	0.3467	43.4	0.7	0.4
	L	2	42.7	6.50	6.63	6.59	0.7413	69.7	1.0	0.6
	U	1	24.0	6.04	6.22	6.40	0.7586	44.8	0.5	0.2
	U	2	39.8	6.37	6.48	6.75	0.7586	69.1	0.6	0.4
2C028057	L	1	48.1	6.42	6.50	6.69	0.3981	50.4	0.5	0.4
	L	2	131.3	6.91	7.06	7.33	0.1413	47.8	1.6	1.5
	U	1	74.7	6.38	6.45	7.05	0.2512	64.1	0.5	0.4
	U	2	101.7	6.73	6.90	7.03	0.2344	56.0	1.3	1.2
2C028060	L	1*	-573.0	3.85	4.00	3.61	263.0268	899.4	0.5	0.1
	L	2*	-1750.6	3.27	3.43	3.05	1000.0000	2421.4	0.3	0.2
	U	1*	-20.3	4.95	4.97	4.94	11.4815	83.7	0.1	0.0
	U	2*	-25.8	4.79	4.79	4.76	17.3780	118.6	0.1	0.1
2C028061	L	1	49.0	6.50	6.63	6.78	0.2138	29.0	0.7	0.5
	L	2	108.3	6.85	7.00	6.99	0.1995	41.8	1.3	1.2
	U	1	25.5	6.35	6.41	6.97	0.3162	23.0	0.4	0.3
	U	2	91.7	6.81	6.96	7.05	0.2344	41.5	1.0	1.1
2C028069	L	1	-9.9	5.04	5.07	5.04	9.5499	57.9	0.2	0.0
	L	2	3.3	5.42	5.61	5.62	3.9811	52.1	0.2	0.0
	U	1	-16.6	4.84	4.35	4.84	14.1254	76.4	0.2	0.0
	U	2	-9.4	4.95	4.90	4.98	10.0000	75.1	0.2	0.1
2C028070	L	1	4.3	5.73	5.78	5.85	1.8197	28.9	0.2	0.1
	L	2	14.5	5.92	6.14	6.09	1.2023	36.5	0.2	0.2
	U	1	-32.4	4.64	4.66	4.65	20.4174	99.9	0.2	0.0
	U	2	-12.6	4.80	4.78	4.82	14.1254	83.9	0.2	0.1
2C028071	L	1*	-104.3	4.48	4.40	4.30	46.7735	265.5	0.2	0.0
	L	2*	-280.9	4.00	3.99	3.89	151.3561	536.9	0.1	0.0
	U	1*	-36.5	4.83	4.85	4.82	15.4882	123.1	0.2	0.0
	U	2*	-24.7	4.83	4.83	4.78	15.4882	135.0	0.4	0.1
2C028075	L	1	10.7	5.08	5.03	5.14	1.9055	82.2	0.2	0.1
	L	2	-5.1	5.11	5.07	5.12	8.7096	51.3	0.1	0.2
	U	1	-45.4	4.61	4.58	4.61	28.8403	126.9	0.2	0.1
	U	2	-27.4	4.64	4.65	4.68	16.9824	114.1	0.3	0.0
2C029002	L	1	151.4	7.02	7.21	7.30	0.1820	55.7	1.4	1.4
	L	2	182.3	7.23	7.33	7.53	0.1549	61.4	2.4	2.2
	U	1	94.3	6.87	6.88	7.09	0.3020	61.2	1.1	0.8
	U	2	121.8	6.90	7.00	7.34	0.4365	113.8	2.4	1.6

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
2C029016	L	1	19.8	5.99	6.10	6.59	0.7413	41.8	0.3	0.3
	L	2	33.5	6.23	6.23	6.79	0.5495	47.3	0.5	0.4
	U	1	19.4	5.72	5.86	6.43	1.3804	64.3	0.4	0.3
	U	2	41.6	6.00	6.18	6.97	1.2589	107.9	1.4	0.6
2C029020	L	1	8.9	5.31	5.37	5.32	2.2909	50.1	0.1	0.1
	L	2	10.6	5.64	5.58	5.66	1.1749	42.7	0.2	0.2
	U	1	3.2	5.47	5.45	5.64	2.9512	44.9	0.1	0.1
	U	2	12.1	5.73	5.64	5.97	1.2589	40.0	0.2	0.1
2C035010	L	1*	-319.3	4.07	4.10	3.87	186.2087	656.5	0.5	0.1
	L	2*	-622.0	3.72	3.82	3.49	331.1311	1228.0	0.7	0.3
	U	1*	-348.9	4.18	4.11	4.03	181.9701	588.0	0.2	0.1
	U	2*	-398.7	4.03	4.01	3.70	288.4032	649.9	0.3	0.2
2C035011	L	1	104.7	6.68	6.65	7.43	0.1514	39.4	1.6	1.3
	L	2	96.6	6.50	6.64	7.14	0.1349	49.6	1.3	1.2
	U	1	71.5	6.74	6.67	6.97	0.1738	31.9	1.0	0.9
	U	2	82.1	6.68	6.82	7.01	0.3548	61.3	1.1	1.0
2C035016	L	1*	-346.8	4.09	4.05	3.98	234.4229	699.6	0.2	0.1
	L	2*	-747.3	3.73	3.76	3.42	562.3413	1252.8	0.3	0.1
	U	1	24.7	5.93	6.00	7.09	0.9120	52.8	0.3	0.3
	U	2	83.5	6.53	6.61	7.03	0.2455	47.7	1.2	1.2
2C035024	L	1	608.7	7.63	7.91	7.77	0.0372	51.8	7.8	7.6
	L	2	945.9	7.87	7.93	7.82	0.0468	98.1	11.3	11.6
	U	1	608.9	7.40	7.44	7.85	0.0741	90.7	7.4	7.4
	U	2	1063.8	8.43	8.56	8.14	0.0263	60.3	11.9	12.3
2C035027	L	1	81.1	6.76	6.75	7.18	0.1622	31.4	1.1	0.9
	L	2	137.4	6.89	6.82	7.22	0.1096	51.3	1.5	1.6
	U	1	68.5	6.71	6.81	6.80	0.1413	24.0	1.1	0.8
	U	2	98.2	6.74	6.79	7.07	0.2042	49.7	1.2	1.1
2C035035	L	1*	-161.7	5.00	5.19	4.28	38.9045	339.6	0.5	0.0
	L	2*	-342.4	4.58	4.75	3.90	123.0269	808.0	0.5	0.0
	U	1	135.6	6.76	6.81	7.07	0.1288	46.7	1.9	1.6
	U	2	75.9	6.46	6.47	6.98	0.4677	77.4	1.0	0.9
2C035041	L	1*	-37.8	4.75	4.92	4.71	21.8776	825.7	0.2	0.0
	L	2*	-122.5	4.79	4.89	4.67	31.6228	889.1	0.1	0.0
	U	1	459.9	8.19	8.42	7.77	0.0145	14.4	5.6	5.4
	U	2	529.2	7.87	8.33	7.93	0.0398	47.7	6.3	6.1
2C035047	L	1	21.2	6.20	6.33	6.73	0.4786	27.8	0.4	0.2
	L	2	52.5	6.56	6.62	6.97	0.1738	29.7	0.7	0.6
	U	1	127.8	6.88	6.95	7.00	0.0813	25.3	1.7	1.5
	U	2	126.4	6.95	7.01	7.16	0.1349	44.8	1.5	1.4
2C035049	L	1	343.5	7.41	7.58	7.68	0.0871	67.0	4.0	3.6
	L	2	429.5	7.69	7.90	7.75	0.0891	79.3	5.1	5.0
	U	1	384.0	7.10	7.16	7.72	0.1047	76.8	4.8	4.8
	U	2	423.0	7.08	7.04	7.62	0.1000	81.7	5.1	5.0
2C036001	L	1	236.8	7.20	7.24	7.39	0.1000	60.8	2.6	2.0
	L	2	400.9	7.57	7.57	7.56	0.0490	46.1	4.6	4.7
	U	1	169.3	6.79	6.82	7.14	0.0646	56.9	1.4	1.3
	U	2	330.6	6.50	6.55	7.07	0.2188	139.5	4.6	3.8
2C040003	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
2C040006	L	1	141.5	6.88	6.86	7.08	0.1660	47.7	1.3	1.3
	L	2	201.9	6.94	6.85	7.29	0.0955	46.0	1.8	1.7
	U	1	95.7	6.47	6.52	7.12	0.3311	61.9	1.2	0.8
	U	2	139.8	6.43	6.45	7.26	0.3311	111.1	1.6	1.3
2C041001	L	1	137.9	6.97	6.98	7.23	0.1047	38.8	1.5	1.4
	L	2	169.5	7.10	7.04	7.34	0.1023	45.7	1.4	1.4
	U	1	119.7	6.91	6.92	7.28	0.1148	31.5	1.3	1.2
	U	2	160.0	6.89	7.03	7.26	0.0759	37.6	1.2	1.3
2C041002	L	1	111.0	6.38	6.37	6.97	0.4786	56.1	0.6	0.5
	L	2	56.1	6.49	6.49	6.79	0.3020	44.6	0.7	0.5
	U	1	8.8	5.40	5.37	5.90	3.8019	95.0	0.5	0.2
	U	2	26.2	5.47	5.69	6.16	1.5849	124.4	0.6	0.2
2C041005	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2C041007	L	1	206.9	7.16	7.35	7.50	0.0759	44.4	2.4	2.3
	L	2	276.3	7.28	7.37	7.61	0.1202	72.4	2.0	2.6
	U	1	204.4	7.15	7.25	7.39	0.0794	49.0	2.1	2.2
	U	2	243.1	7.11	7.28	7.36	0.1072	50.1	2.0	2.3
2C041014	L	1	376.8	7.42	7.53	7.75	0.0575	52.6	4.8	4.7
	L	2	467.3	7.31	7.54	7.75	0.0468	43.4	5.0	5.3
	U	1	394.5	7.51	7.65	7.69	0.0417	33.4	5.3	5.1
	U	2	475.3	7.43	7.59	7.57	0.0269	32.5	5.6	5.1
2C041016	L	1	343.0	7.28	7.33	7.64	0.0603	48.3	4.3	4.0
	L	2	478.9	7.46	7.36	7.83	0.0490	49.7	5.4	5.7
	U	1	506.2	7.08	7.08	7.88	0.0724	81.0	6.0	6.3
	U	2	778.2	7.20	7.18	8.07	0.0562	80.8	8.2	8.6
2C041027	L	1*	.	.	3.45	.	.	.	.	.
	U	1	373.4	7.02	7.08	7.67	0.0832	66.1	5.1	4.6
	U	2	731.5	7.14	7.23	7.81	0.0912	160.7	10.0	8.8
2C041029	L	1	-30.6	4.73	4.64	4.69	25.7040	119.1	0.2	0.1
	L	2	-21.4	4.76	4.75	4.75	19.9526	113.0	0.2	0.1
	U	1	-16.9	4.88	4.76	4.90	15.1356	79.0	0.2	0.1
	U	2	-13.0	4.87	4.78	4.88	12.8825	88.5	0.4	0.2
2C041033	L	1*	-29.1	4.62	4.60	4.70	22.9087	133.8	0.4	0.1
	L	2*	-57.5	4.47	4.46	4.54	32.3594	280.8	1.0	0.1
	U	1	3.4	5.60	5.59	6.20	2.3442	48.4	0.4	0.2
	U	2	40.8	5.76	5.69	6.10	0.4169	81.9	0.4	0.2
2C041035	L	1	287.7	7.02	7.01	7.58	0.2754	156.1	4.3	4.1
	L	2	436.9	7.19	7.23	7.78	0.1349	124.0	4.3	3.9
	U	1	307.2	6.96	6.97	7.62	0.2344	146.6	4.8	3.7
	U	2	451.3	7.19	7.30	7.30	0.1698	165.8	5.0	4.3
2C041036	L	1	616.1	7.45	7.52	7.91	0.0398	49.7	7.4	6.3
	L	2	663.9	7.36	7.43	8.03	0.0537	74.6	7.7	7.3
	U	1	118.8	6.65	6.69	7.14	0.1698	48.0	1.3	1.1
	U	2	397.3	6.89	6.89	7.43	0.1230	48.7	2.6	1.8
2C041037	L	1*	-92.8	4.44	4.35	4.36	47.8630	440.7	0.2	0.1
	L	2*	-282.6	4.24	4.23	4.25	60.2560	583.3	0.2	0.2
	U	1*	-210.9	4.37	4.31	4.32	57.5440	456.5	0.2	0.2
	U	2*	-173.0	4.16	4.15	4.17	69.1831	642.0	0.1	0.1

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
2C041039	L	1	48.2	6.63	6.66	6.78	0.2239	29.0	0.5	0.6
	L	2	104.4	6.76	6.82	7.42	0.1288	39.8	1.3	1.2
	U	1	31.6	6.43	6.42	6.65	0.3981	30.5	0.4	0.3
	U	2	85.1	6.93	6.99	7.05	0.1738	36.5	0.9	0.8
2C041040	L	1	39.1	6.41	6.39	6.73	0.3090	33.4	0.7	0.5
	L	2	57.8	6.32	6.35	7.02	0.4169	42.3	0.9	0.7
	U	1	49.1	6.44	6.45	6.79	0.5888	58.5	0.9	0.7
	U	2	79.4	6.55	6.59	6.88	0.4467	76.3	0.9	0.7
2C041043	L	1	906.2	7.43	7.37	8.15	0.0355	70.5	11.4	10.9
	L	2	3025.3	7.33	7.39	7.12	0.2188	1146.6	32.4	31.1
	U	1	95.1	6.52	6.67	7.16	0.4898	101.7	1.7	1.1
	U	2	126.2	6.36	6.52	7.12	0.3890	102.7	2.0	1.4
2C041045	L	1	92.8	6.91	6.87	7.13	0.1202	28.6	0.9	1.0
	L	2	195.1	7.14	7.25	7.42	0.0912	36.1	1.5	1.6
	U	1	93.1	6.98	6.96	7.12	0.1259	31.5	0.9	0.9
	U	2	209.8	7.13	7.25	7.42	0.0676	35.8	1.7	1.7
2C041051	L	1	-14.4	4.88	4.85	4.87	14.1254	90.2	0.1	0.0
	L	2	-4.7	4.95	4.95	5.03	8.9125	75.1	0.2	0.1
	U	1	-51.8	4.42	4.38	4.40	39.8107	187.1	0.5	0.0
	U	2	-44.3	4.39	.	4.37	38.0189	186.5	0.5	0.1
2C046004	L	1*	627.2	7.44	7.53	7.74	0.0776	100.4	8.5	8.5
	L	2	1250.0	7.61	7.72	8.06	0.0759	196.5	20.5	19.6
	U	1*	673.4	7.55	7.61	7.97	0.0794	115.0	8.8	8.8
	U	2	1396.7	7.90	8.04	8.32	0.0575	124.0	16.4	15.9
2C046005	L	1	48.7	6.57	6.60	7.12	0.3236	38.3	0.5	0.5
	L	2	58.9	6.71	6.64	7.01	0.2188	37.5	0.8	0.7
	U	1	54.9	6.67	6.66	6.54	0.1820	34.6	0.8	0.5
	U	2	74.3	6.62	6.72	7.10	0.1148	19.7	1.0	0.9
2C046009	L	1	193.3	7.25	7.35	7.15	0.0389	19.4	2.6	2.5
	L	2	244.4	7.36	7.47	7.38	0.1000	56.0	2.7	2.8
	U	1	630.6	7.32	7.36	7.66	0.0219	28.3	8.1	7.9
	U	2	671.3	7.35	7.41	7.68	0.0288	53.6	6.8	6.9
2C046011	L	1*	261.6	7.35	7.35	7.51	0.0676	39.4	2.8	2.8
	L	2	453.5	7.50	7.49	7.83	0.0692	61.0	4.9	4.9
	U	1*	312.1	7.37	7.37	7.45	0.0407	29.0	3.5	3.6
	U	2	494.0	7.99	8.17	7.92	0.0200	24.3	4.8	4.5
2C046013	L	1	64.2	6.63	6.83	6.74	0.1023	28.0	0.5	0.5
	L	2	88.2	6.96	6.89	7.26	0.1585	38.8	0.9	1.0
	U	1	29.0	6.41	6.56	6.54	0.2818	22.1	0.4	0.4
	U	2	77.5	6.74	6.89	7.40	0.2138	35.2	0.7	0.8
2C046015	L	1	287.1	7.29	7.25	7.38	0.0427	31.5	3.5	3.6
	L	2	416.2	7.50	7.35	7.85	0.0275	30.0	4.2	4.5
	U	1	383.6	7.62	7.76	7.61	0.0229	22.7	4.7	4.8
	U	2	406.7	6.28	6.30	7.40	0.3162	260.1	6.7	4.9
2C046016	L	1	397.2	7.40	7.52	7.39	0.0457	40.8	4.2	4.0
	L	2	547.5	7.30	7.31	7.92	0.0851	81.7	6.2	5.8
	U	1	289.1	7.16	7.22	7.42	0.0617	43.4	3.2	3.0
	U	2	543.0	7.24	7.24	7.94	0.1072	85.5	6.4	6.1
2C046017	L	1	148.0	6.95	7.02	7.16	0.1175	46.4	1.6	1.4
	L	2	237.8	7.05	7.24	7.61	0.0347	30.7	1.8	1.8
	U	1	152.4	7.09	7.12	7.27	0.0813	31.7	1.8	1.7
	U	2	208.7	7.13	7.20	7.55	0.0646	37.4	1.6	1.4

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
2C046018	L	1	36.5	6.41	6.39	6.62	0.2291	26.5	0.6	0.5
	L	2	67.9	6.65	6.70	6.97	0.2291	41.5	0.8	0.8
	U	1	73.1	6.57	6.69	6.69	0.1862	40.9	1.0	0.8
	U	2	89.1	6.78	6.86	7.01	0.1585	41.2	1.1	1.0
2C046021	L	1*	234.9	7.19	7.21	7.52	0.1000	48.9	1.9	1.9
	L	2	523.6	7.69	7.70	7.90	0.0245	28.7	4.7	4.6
	U	1	337.0	7.37	7.36	7.66	0.0794	59.8	3.6	3.5
	U	2	644.5	7.64	7.75	7.91	0.0263	36.6	6.7	6.9
2C046023	L	1	273.0	7.08	7.10	7.42	0.1148	65.1	3.0	2.8
	L	2	704.2	8.28	8.49	7.85	0.0457	73.2	8.2	8.8
	U	1*	152.0	7.02	7.09	7.16	0.1047	38.5	1.3	1.3
	U	2	369.8	7.34	7.34	7.62	0.0562	42.9	3.5	3.8
2C046030	L	1	269.2	7.03	7.00	7.34	0.0550	32.8	3.7	3.4
	L	2	325.1	7.12	7.16	7.66	0.0525	42.5	3.5	3.5
	U	1	22.8	6.32	6.37	6.53	0.3090	19.8	0.5	0.3
	U	2	44.7	6.29	6.30	6.79	0.6026	56.4	0.7	0.6
2C046031	L	1	761.9	7.48	7.46	7.67	0.0224	37.4	10.0	9.4
	L	2	1226.2	7.64	7.65	8.30	0.0537	144.0	14.4	14.1
	U	1	816.1	7.82	8.05	7.80	0.0214	32.4	10.4	10.2
	U	2	1677.5	7.76	7.84	8.36	0.0263	97.4	18.4	18.8
2C046033	L	1	7.8	5.58	5.57	5.87	1.9055	40.1	0.3	0.2
	L	2	4.7	5.73	5.76	6.10	1.8621	39.7	0.1	0.1
	U	1	1.6	5.66	5.47	5.54	3.4674	29.4	0.1	0.2
	U	2	1.0	5.71	5.52	5.88	4.4668	43.9	0.3	0.1
2C046034	L	1	2.2	5.42	5.50	5.52	3.8019	45.1	0.1	0.1
	L	2	7.0	5.54	5.44	5.61	2.6915	45.4	0.3	0.2
	U	1	-31.7	4.56	4.55	4.57	32.3594	124.5	0.1	0.1
	U	2	-38.1	4.53	4.51	4.55	30.1995	116.6	0.2	0.1
2C046041	L	1	130.2	7.03	6.96	7.12	0.1175	29.5	1.1	1.0
	L	2	181.1	7.16	6.99	7.34	0.1023	36.7	2.2	2.2
	U	1	29.7	5.91	5.96	6.54	1.2882	84.5	0.5	0.3
	U	2	37.6	5.91	5.97	6.76	1.0233	82.8	0.9	0.6
2C046043	L	1	7.2	5.64	5.79	5.87	0.4074	34.9	0.2	0.2
	L	2	17.4	6.15	6.14	6.33	0.6761	36.2	0.2	0.2
	U	1	-2.5	5.44	5.49	5.37	4.7863	43.9	0.1	0.1
	U	2	6.7	5.76	5.89	6.35	1.9055	43.9	0.2	0.2
2C046046	L	1	72.7	6.48	6.59	6.70	0.3162	50.1	0.7	0.7
	L	2	81.3	6.52	6.54	7.15	0.2138	41.2	0.9	0.8
	U	1	151.9	6.14	6.17	7.05	0.3715	116.1	1.8	1.3
	U	2	169.7	5.98	6.03	7.36	0.5623	195.8	2.3	1.7
2C046047	L	1*	.	.	5.20	.	.	.	.	.
	U	1*	.	.	5.22	.	.	.	.	.
2C046048	L	1	122.9	6.92	6.99	6.93	0.1202	33.8	1.1	1.1
	L	2	180.2	6.93	7.02	7.02	0.1288	50.0	2.1	2.2
	U	1	24.2	6.22	6.26	6.33	0.6607	49.7	0.4	0.3
	U	2	38.6	6.27	6.27	6.76	0.4786	50.0	0.7	0.6
2C046050	L	1	83.6	6.46	6.51	6.69	0.4898	73.8	1.5	0.9
	L	2	90.0	6.39	6.56	7.12	0.3981	78.1	1.8	1.2
	U	1	6.6	5.23	5.23	6.01	3.2359	66.4	1.0	0.1
	U	2	13.6	5.28	5.17	6.20	2.8840	84.1	1.1	0.2

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
2C046052	L	1	819.7	7.70	7.90	8.09	0.0245	63.8	10.0	10.0
	L	2	696.5	7.62	7.80	7.97	0.0214	35.7	8.1	8.3
	U	1	829.4	7.70	7.73	8.10	0.0174	30.7	8.6	9.4
	U	2	709.1	7.55	7.77	7.75	0.0513	47.9	8.1	8.5
2C046053	L	1	53.7	6.75	6.72	7.02	0.1950	19.6	0.6	0.6
	L	2	39.2	6.35	6.56	6.69	0.3631	35.3	0.3	0.4
	U	1	48.2	6.57	6.71	6.99	0.2754	38.1	1.7	0.6
	U	2	36.3	6.49	6.59	7.09	0.3802	32.6	0.4	0.4
2C046055	L	1	1370.0	8.04	8.14	8.29	0.0145	31.7	15.4	15.4
	L	2	1771.2	8.12	8.20	8.32	0.0093	31.5	20.2	21.6
	U	1	2409.2	8.03	8.15	8.47	0.0085	44.1	25.2	24.8
	U	2	2622.0	7.98	8.07	8.46	0.0072	51.5	26.2	27.9
2C046062	L	1	94.4	6.89	6.79	7.09	0.1950	39.5	0.9	0.8
	L	2	154.7	7.02	7.18	7.21	0.2455	81.3	1.8	1.6
	U	1	172.7	6.79	6.76	7.31	0.1413	55.8	1.5	1.5
	U	2	217.0	6.66	6.69	7.41	0.0832	40.8	1.9	1.7
2C046063	L	1	1826.5	8.38	8.52	8.22	0.0209	78.0	21.4	21.1
	L	2	2474.0	8.15	8.24	8.37	0.0282	141.7	22.6	22.2
	U	1	2746.6	7.62	7.66	8.47	0.0240	166.5	29.3	28.2
	U	2	2658.1	7.48	7.49	8.40	0.0245	138.5	26.2	26.8
2C047004	L	1	280.2	7.35	7.31	7.43	0.0417	28.2	2.9	2.8
	L	2	-458.9	7.21	7.33	7.92	0.0912	71.6	5.1	5.2
	U	1	291.5	7.34	7.35	7.35	0.0646	31.9	3.0	3.2
	U	2	519.9	7.68	7.71	7.94	0.0295	35.2	5.4	5.9
2C047007	L	1	85.0	6.70	6.59	7.01	0.1905	40.4	1.3	1.1
	L	2	98.7	6.85	6.79	7.30	0.1380	34.8	1.2	1.1
	U	1	136.5	6.69	6.61	7.03	0.1259	80.9	1.0	0.9
	U	2	104.4	6.58	6.61	7.22	0.3467	77.9	1.1	1.0
2C047010	L	1	25.4	6.48	6.45	6.58	0.4571	29.1	0.4	0.6
	L	2	29.9	6.56	6.51	6.79	0.3162	26.6	0.3	0.3
	U	1	32.6	6.48	6.55	6.70	0.4074	32.2	0.5	0.4
	U	2	34.7	6.48	6.49	7.01	0.3467	31.6	0.3	0.3
2C057004	L	1	30.7	6.06	6.18	6.64	0.6607	39.2	0.5	0.3
	L	2	1.2	5.53	5.53	5.65	3.8905	47.2	0.2	0.1
	U	1	0.8	5.49	5.23	5.69	4.8978	55.6	0.2	0.1
	U	2	1.8	5.38	5.17	5.26	3.7154	69.2	0.3	0.1
2C057011	L	1	779.6	7.80	7.86	7.91	0.0398	54.0	9.4	9.4
	L	2	878.2	7.70	7.82	8.14	0.0275	56.7	9.7	10.0
	U	1	917.4	7.26	7.25	7.97	0.0398	70.0	10.8	10.6
	U	2	891.4	7.26	7.28	8.17	0.0275	47.9	9.9	10.5
2C066013	L	1	1252.0	7.35	7.36	8.01	0.0490	116.7	17.5	17.1
	U	1	559.9	7.44	7.42	7.69	0.0575	60.7	6.8	6.6
2C066017	L	1	1034.5	7.65	7.65	8.03	0.0214	47.8	12.0	12.8
	U	1	846.8	7.82	7.90	7.97	0.0158	38.1	11.0	10.9
2C066022	L	1	513.2	7.53	7.54	7.90	0.0389	41.0	6.4	6.4
	U	1*	-91.8	4.56	4.48	4.50	38.0189	447.9	0.4	0.1
2C066026	L	1	28.8	6.18	6.13	6.79	0.7079	63.0	0.5	0.5
	U	1	178.1	6.35	6.32	7.22	0.3020	123.7	2.7	2.3
2C066027	L	1	26.0	5.88	5.86	6.59	1.0233	63.0	0.6	0.3
	U	1	-9.9	5.10	4.82	5.14	12.5893	183.5	1.3	0.2

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
2C066038	L	1	189.1	7.09	7.00	7.35	0.1905	75.4	2.5	2.2
	U	1	202.0	6.80	6.80	7.35	0.2042	83.3	2.6	2.2
2C066039	L	1	49.4	6.35	6.37	6.94	0.6918	91.7	1.4	0.8
	U	1	270.2	6.86	6.80	7.43	0.1479	81.9	3.7	3.4
2C067001	L	1*	2547.4	8.28	8.28	8.38	0.0079	47.7	24.4	24.7
	U	1*	2426.6	8.23	8.23	8.27	0.0102	41.0	29.5	28.1
2C077007	L	1	368.5	7.34	7.36	7.75	0.0617	52.6	5.0	4.5
	U	1	317.8	7.40	7.53	7.70	0.0437	32.8	4.2	4.1
2C077022	L	1	179.9	6.95	6.80	7.56	0.1288	51.1	2.2	2.1
	U	1	51.7	6.31	6.28	6.95	0.3890	57.1	0.8	0.5
2C077023	L	1	450.4	7.38	7.28	7.70	0.0398	42.9	5.0	5.5
	U	1	420.0	7.24	7.21	7.79	0.0794	61.5	4.9	4.7
2C077024	L	1	1884.9	7.88	7.93	8.46	0.0178	81.5	19.2	19.6
	U	1	595.2	7.68	7.71	8.01	0.0240	31.3	6.7	7.0
2C088002	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2C088003	L	1	64.9	6.57	6.56	6.86	0.2754	49.9	0.7	0.6
	U	1	14.5	5.72	5.72	6.32	1.6596	63.7	0.5	0.2
2C088004	L	1	137.5	6.90	6.81	7.18	0.2089	79.6	1.4	1.2
	U	1	152.4	6.70	6.75	7.34	0.8511	245.8	3.4	2.0
2D072004	L	1	374.1	7.23	7.15	7.81	0.0617	59.2	4.9	4.4
	U	1	481.0	7.47	7.36	7.80	0.0372	41.6	5.8	4.2
2D072013	L	1	257.4	6.75	6.88	7.52	0.1148	76.2	3.6	3.2
	U	1	210.4	7.03	7.06	7.45	0.0912	42.5	2.4	2.2
2D073003	L	1	231.3	7.02	7.27	7.40	0.0759	39.0	2.7	2.7
	U	1	105.5	6.84	6.90	7.33	0.1202	34.2	1.5	1.3
2D073004	L	1	227.8	7.11	6.99	7.64	0.0708	36.0	2.6	2.5
	U	1	143.4	6.81	6.77	7.27	0.1023	43.0	2.0	1.8
2D073009	L	1	180.3	7.11	7.21	7.33	0.2512	92.4	2.8	2.2
	U	1	54.0	5.84	5.93	6.78	0.7413	92.0	1.1	0.6
2D073024	L	1	170.1	7.21	7.37	7.43	0.0724	33.3	2.1	1.9
	U	1	156.0	7.20	7.31	7.19	0.0676	33.1	1.8	1.7
2D073025	L	1	144.2	6.95	6.97	7.43	0.0741	19.2	2.0	1.9
	U	1	160.9	7.00	6.99	7.53	0.0617	26.7	2.3	2.1
2D073026	L	1	175.3	7.04	7.12	8.30	0.0891	39.4	3.4	1.9
	U	1	231.2	7.10	7.18	7.67	0.0537	32.3	2.7	2.5
2D073027	L	1	176.3	6.92	7.03	7.37	0.1148	44.1	1.8	1.8
	U	1	75.2	5.77	5.81	6.98	0.8511	336.5	2.0	0.7
2D073029	L	1	78.0	6.20	6.27	7.06	0.3802	66.2	1.7	1.0
	U	1	110.5	6.59	6.67	7.23	0.1698	44.7	1.5	1.2
2D073036	L	1	133.3	6.88	6.95	7.27	0.1202	47.4	1.7	1.5
	U	1	121.3	6.81	6.91	7.29	0.1122	34.0	1.6	1.5
2D073044	L	1	157.3	6.83	6.84	7.37	0.2089	77.6	2.3	2.0
	U	1	84.8	5.50	5.37	6.98	1.7783	271.1	1.1	0.8

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
2D073048	L	1	143.4	6.65	6.66	7.26	0.1479	56.9	1.7	1.4
	U	1	69.5	6.35	6.37	6.92	0.3548	47.1	1.2	0.8
2D073052	L	1	65.2	5.80	5.88	6.70	0.4677	63.5	1.5	0.9
	U	1	95.7	6.20	6.25	6.73	0.3548	44.6	1.0	0.8
2D073053	L	1	91.4	6.68	6.68	7.07	0.1514	40.7	1.3	1.2
	U	1	85.5	6.78	6.84	7.18	0.1479	36.6	1.2	1.0
2D073057	L	1*	5587.5	7.62	7.66	8.62	0.0166	231.4	70.9	63.2
	U	1	996.8	7.38	7.54	8.12	0.0813	162.2	12.3	11.8
2D073066	L	1	121.7	6.83	6.97	7.26	0.1023	32.5	1.6	1.4
	U	1	117.2	6.96	7.11	7.14	0.0933	29.8	1.5	1.4
2D073075	L	1	140.1	6.80	6.75	7.36	0.1585	51.3	2.2	1.8
	U	1	117.9	6.36	6.35	7.27	0.3467	86.6	2.1	1.5
2D073080	L	1	101.7	6.80	6.80	7.11	0.5623	117.0	1.9	1.6
	U	1	101.5	6.54	6.56	7.10	0.5370	128.6	2.1	1.4
2D073086	L	1	625.7	7.40	7.40	7.89	0.0437	52.9	8.2	7.8
	U	1	398.9	7.11	7.10	7.64	0.0501	49.0	5.4	4.8
2D073092	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2D073099	L	1	152.4	6.87	6.89	7.39	0.1072	40.8	2.1	1.8
	U	1	176.3	6.60	6.60	7.42	0.1175	51.3	2.1	1.8
2D073100	L	1	144.4	6.66	6.67	7.21	0.1288	51.3	1.7	1.5
	U	1	123.0	6.52	6.51	7.25	0.1318	40.3	1.6	1.4
2D073106	L	1	270.9	6.66	6.74	7.24	0.1000	54.1	3.9	3.4
	U	1	263.2	6.70	6.78	7.31	0.0832	47.1	3.8	3.3
2D074006	L	1	126.0	6.83	6.91	7.42	0.1023	31.6	1.6	1.5
	U	1	222.0	6.82	6.87	7.53	0.0501	33.8	2.4	2.2
2D074009	L	1	74.3	6.69	6.68	6.98	0.1413	25.0	1.1	0.9
	U	1	73.0	6.60	6.60	7.08	0.2089	44.0	1.0	0.9
2D074012	L	1	331.0	6.55	6.59	7.60	0.0933	87.7	4.8	3.9
	U	1	120.3	6.09	6.12	7.31	0.3890	105.0	2.0	1.5
2D083027	L	1	366.8	7.89	8.45	7.93	0.0191	18.2	4.4	4.3
	U	1	135.3	6.61	6.64	7.38	0.1230	59.7	1.9	1.6
2D083039	L	1	160.1	7.02	7.18	7.34	0.0537	19.0	2.2	2.2
	U	1	110.8	5.92	5.99	6.81	0.3548	60.1	2.7	1.6
2D083076	L	1	187.1	7.23	7.45	7.52	0.0724	31.2	2.3	2.3
	U	1	135.9	6.31	6.45	7.32	0.1905	54.4	2.3	1.6
2D083081	L	1	189.6	7.21	7.28	7.47	0.0589	36.2	2.4	2.4
	U	1	220.2	6.61	6.66	7.50	0.1622	74.0	3.3	2.6
2D083086	L	1	327.0	6.88	7.07	7.70	0.0646	83.1	4.3	3.9
	U	1	189.5	6.70	6.79	7.50	0.0977	45.9	2.7	2.3
2D083096	L	1	2987.8	7.90	8.10	8.68	0.0074	40.9	34.4	35.4
	U	1	666.2	6.84	6.95	7.90	0.0537	86.8	8.4	7.2
2D083098	L	1	148.1	6.46	6.59	7.34	0.1820	56.7	2.1	1.7
	U	1	28.9	5.41	5.50	6.76	1.0471	74.3	1.8	0.4

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
2D084013	L	1	124.5	6.49	6.55	7.21	0.3236	90.2	1.9	1.5
	U	1	132.7	6.70	6.74	7.15	0.1905	62.6	1.6	1.3
2D084022	L	1	160.7	7.06	7.15	7.49	0.0692	25.5	2.3	2.1
	U	1	79.4	6.61	6.66	7.40	0.1862	35.9	1.4	1.1
2D084025	L	1	63.2	6.40	6.41	6.71	0.2818	32.5	1.3	0.9
	U	1	87.1	6.41	6.42	7.18	0.0912	24.3	1.6	1.2
2D084033	L	1	81.8	6.71	6.69	7.39	0.1096	22.9	1.3	1.1
	U	1	50.8	6.08	6.09	6.99	0.4266	43.2	1.3	0.7
2D084041	L	1	524.5	7.48	7.61	7.50	0.0151	16.7	6.7	6.6
	U	1	440.4	7.39	7.52	7.86	0.0214	20.4	5.6	5.6
2D084051	L	1	335.7	7.26	7.27	7.58	0.0245	17.3	4.3	4.3
	U	1	121.8	6.92	6.98	7.40	0.0692	24.8	1.7	1.7
2D084052	L	1	1674.6	8.17	8.29	8.44	0.0055	2.5	21.2	21.5
	U	1	1271.2	7.83	7.94	8.07	0.0089	20.1	16.0	16.2
2D084054	L	1	636.3	7.73	7.70	7.84	0.0138	18.7	8.1	8.0
	U	1	15.2	5.33	5.30	6.62	1.7378	57.1	1.2	0.2
2D084058	L	1	592.9	7.76	7.98	7.85	0.0145	19.8	7.6	7.5
	U	1	610.0	8.05	8.50	7.93	0.0120	14.6	7.7	7.6
2D084077	L	1	117.6	6.79	6.89	7.22	0.1288	28.6	1.6	1.5
	U	1	118.2	6.25	6.34	7.18	0.1413	41.2	2.2	1.6
2D084079	L	1	133.9	6.80	6.86	7.30	0.1072	51.2	1.9	1.7
	U	1	121.4	6.50	6.58	7.22	0.2138	50.6	2.0	1.6
2D084082	L	1	198.2	7.13	7.20	7.27	0.0355	16.0	2.6	2.6
	U	1	356.7	6.78	6.83	7.37	0.0891	58.3	4.8	4.5
2D093005	L	1	161.4	6.44	6.59	7.33	0.1288	49.4	2.3	1.8
	U	1	301.6	6.48	6.57	7.60	0.1445	107.4	4.3	3.2
2D093007	L	1	162.8	6.76	6.82	7.39	0.0813	29.0	2.4	2.2
	U	1	96.7	6.08	6.11	7.16	0.2291	45.3	2.6	1.2
2D093008	L	1	157.6	6.13	6.21	6.97	0.3090	72.3	3.3	2.1
	U	1	66.3	6.14	6.21	6.80	0.4467	60.1	1.4	0.8
2D094009	L	1	1167.3	7.27	7.48	8.29	0.0178	48.1	14.3	13.5
	U	1	2089.5	7.68	7.84	8.57	0.0095	44.5	23.8	25.6
3A058013	L	1	366.4	7.36	7.29	7.71	0.0513	50.6	3.5	3.3
	U	1	376.9	7.12	7.09	7.74	0.0661	64.9	3.6	3.6
3A058014	L	1	431.7	7.33	7.29	7.78	0.0661	68.8	4.2	4.4
	U	1	359.2	6.64	6.64	7.40	0.0537	86.5	9.6	9.2
3A068007	L	1	360.9	7.11	7.19	7.73	0.0832	87.7	3.5	3.3
	U	1	243.3	7.26	7.30	7.66	0.1148	68.3	1.9	1.9
3A068012	L	1	259.8	7.16	7.24	7.50	0.1000	59.2	3.0	3.0
	U	1	188.8	6.89	6.92	7.42	0.2042	93.5	2.6	2.3
3A068020	L	1	331.3	7.19	7.08	7.54	0.1445	109.7	4.4	4.1
	U	1	231.2	6.95	6.90	7.54	0.2291	116.8	3.6	2.9
3A069003	L	1	428.9	7.33	7.36	7.69	0.0832	71.9	5.2	4.6
	U	1	419.9	7.40	7.33	7.67	0.0871	88.4	4.1	4.5

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
3A079012	L	1	187.2	7.20	7.08	7.35	0.1000	46.3	2.1	2.3
	U	1	164.6	6.98	6.87	7.34	0.1047	47.7	1.7	1.9
3A086009	L	1	124.1	6.91	7.06	7.39	0.0741	24.0	1.7	1.5
	U	1	196.9	6.79	6.94	7.43	0.0912	43.4	2.7	2.4
3A086010	L	1	109.4	6.46	6.60	7.15	0.1445	46.9	1.7	1.4
	U	1	53.5	5.64	5.69	6.88	0.8128	91.1	1.9	0.7
3A086015	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3A086024	L	1	87.1	6.69	6.72	7.27	0.1778	36.8	1.4	1.1
	U	1	75.9	6.46	6.67	7.02	0.1778	42.8	1.3	1.0
3A087008	L	1	111.6	6.83	7.05	7.31	0.1148	34.9	1.6	1.5
	U	1	95.8	6.88	6.98	7.22	0.1318	35.3	1.4	1.2
3A088006	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3A088012	L	1	345.1	7.16	7.17	7.60	0.0513	42.4	4.3	4.0
	U	1	199.9	6.89	6.83	7.40	0.0813	36.6	2.6	2.4
3A088022	L	1	511.3	7.27	7.21	7.89	0.0646	80.7	6.8	6.4
	U	1	537.1	7.32	7.29	7.86	0.0692	81.7	6.8	6.3
3A088025	L	1	223.8	6.05	6.01	7.52	0.3020	147.3	4.7	2.5
	U	1	736.1	6.81	6.83	7.91	0.0933	126.9	10.6	8.5
3A088028	L	1	384.0	7.01	6.97	7.71	0.0646	61.7	4.6	4.2
	U	1	326.5	5.94	5.96	7.69	0.4898	300.8	9.3	3.6
3A089002	L	1	300.8	7.03	7.10	7.54	0.0955	174.7	3.4	3.3
	U	1	172.8	6.76	6.78	7.44	0.1380	48.9	2.2	1.9
3A089004	L	1	175.5	6.93	6.97	7.38	0.0813	41.6	2.3	2.1
	U	1	172.1	6.80	6.83	7.17	0.0891	40.7	2.4	2.2
3A089013	L	1	333.5	7.01	7.05	7.51	0.0457	24.7	4.2	4.0
	U	1	337.9	6.82	6.86	7.23	0.0550	34.9	4.2	4.1
3A089024	L	1	235.7	6.89	6.87	7.59	0.1259	83.0	3.0	2.6
	U	1	201.8	6.63	6.63	7.43	0.1622	75.0	2.8	1.9
3A089068	L	1	161.0	6.57	6.65	7.42	0.0741	40.1	1.8	1.7
	U	1	137.1	6.57	6.64	7.37	0.1202	44.9	2.1	1.7
3A089086	L	1	76.3	6.50	6.61	6.93	0.1778	36.7	1.1	1.0
	U	1	75.2	6.55	6.64	7.17	0.1820	34.4	1.0	0.9
3A097026	L	1	39.1	6.10	6.20	6.84	0.4898	49.4	1.0	0.5
	U	1	29.7	5.95	6.00	6.75	0.4677	36.5	0.9	0.4
3A097029	L	1	84.9	6.79	6.86	7.17	0.1202	25.2	1.2	1.1
	U	1	81.4	6.09	6.20	7.20	0.3631	74.0	1.8	1.0
3A097031	L	1	37.6	5.94	6.01	6.77	0.4786	47.4	1.0	0.4
	U	1	32.1	5.91	6.01	6.57	0.7762	54.2	1.0	0.4
3A098011	L	1	532.8	7.15	7.21	7.89	0.0437	56.8	7.3	6.8
	U	1	497.8	7.36	7.38	7.86	0.0407	56.1	6.5	6.3
3A098025	L	1	94.5	6.73	6.74	7.16	0.0933	18.7	1.4	1.2
	U	1	90.4	6.24	6.28	7.25	0.2239	50.0	1.5	1.2

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
3A098034	L	1	134.4	6.67	6.72	7.11	0.1585	43.7	2.0	1.7
	U	1	77.4	6.33	6.37	6.76	0.1950	29.2	1.2	1.0
3A098038	L	1	363.1	7.12	7.13	7.31	0.0479	34.1	4.9	4.6
	U	1	348.9	7.10	7.14	7.65	0.0490	34.5	4.8	4.5
3A098039	L	1	240.1	6.76	6.83	7.35	0.0617	39.2	3.5	3.0
	U	1	98.7	6.71	6.78	7.13	0.1202	29.7	1.5	1.3
3A098069	L	1	336.8	7.01	7.00	7.43	0.0501	36.9	4.6	4.3
	U	1	343.2	6.97	6.97	7.57	0.0708	56.0	4.8	4.3
3A098075	L	1	370.0	7.07	7.07	7.60	0.0513	31.5	5.0	4.7
	U	1	343.1	6.88	6.94	7.53	0.0776	49.2	5.0	4.3
3A098078	L	1	799.9	7.15	7.14	7.94	0.0234	41.9	10.4	9.8
	U	1	663.8	7.00	7.00	8.02	0.0355	48.3	9.1	8.2
3A098082	L	1	184.3	6.72	6.72	7.17	0.1318	49.8	2.7	2.3
	U	1	153.3	6.50	6.51	7.04	0.1259	26.0	2.5	2.0
3A099019	L	1	773.2	7.02	7.08	8.09	0.0372	80.5	10.3	8.9
	U	1	714.6	7.27	7.38	8.04	0.0316	62.6	9.3	8.2
3A099027	L	1	476.5	7.28	7.31	7.89	0.0398	56.2	6.3	5.8
	U	1	264.9	6.60	6.67	7.62	0.1122	77.4	3.9	3.0
3A099037	L	1	518.0	7.14	7.22	7.91	0.0501	70.9	6.3	6.3
	U	1	325.7	6.91	6.97	7.67	0.0562	54.5	3.7	3.2
3A099051	L	1	422.0	7.14	7.13	7.81	0.0407	46.9	5.2	4.7
	U	1	426.2	7.01	6.94	7.85	0.0427	56.3	5.4	4.7
3A099052	L	1	486.0	7.07	7.02	7.93	0.0355	38.1	6.3	5.8
	U	1	405.4	7.09	7.12	7.68	0.0437	31.1	5.2	4.8
3A099062	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3A106008	L	1	47.6	5.90	6.00	6.77	0.3890	42.3	1.2	0.6
	U	1	90.3	6.15	6.22	7.02	0.1778	37.5	2.0	1.3
3A106020	L	1	108.9	6.35	6.48	7.06	0.0891	28.0	1.7	1.3
	U	1	95.9	6.12	6.20	6.97	0.3162	62.5	1.8	1.1
3A106023	L	1	33.6	6.11	6.22	6.83	0.3162	31.4	0.7	0.4
	U	1	31.0	6.14	6.21	6.80	0.5012	37.6	0.7	0.4
3A106029	L	1	257.5	6.90	6.93	7.61	0.0525	40.8	3.4	3.3
	U	1	226.8	6.93	6.97	7.48	0.0490	31.0	3.1	3.1
3A106035	L	1	76.8	6.21	6.32	6.86	0.1175	22.8	1.3	1.0
	U	1	42.5	5.86	5.93	6.65	0.2239	30.4	1.2	0.5
3A107010	L	1	187.3	6.63	6.69	7.39	0.1047	48.5	2.9	2.4
	U	1	180.3	6.83	6.96	7.11	0.0832	36.5	2.6	2.3
3A107034	L	1	572.9	7.14	7.19	7.78	0.0331	47.3	7.7	7.2
	U	1	505.5	6.83	6.87	7.71	0.0537	59.5	7.2	6.3
3A107037	L	1	356.5	6.96	6.99	7.50	0.0646	49.0	4.8	4.5
	U	1	353.4	6.71	6.74	7.31	0.1000	68.0	5.0	4.4
3A107041	L	1	267.3	6.92	6.95	7.39	0.0417	26.5	3.5	3.4
	U	1	245.7	6.61	6.65	7.35	0.0912	47.0	3.4	3.2

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
3B036002	L	1	2026.8	8.04	8.16	8.45	0.0302	158.1	24.0	23.6
	L	2	2365.5	7.93	8.04	8.61	0.0120	73.3	29.1	28.1
	U	1	-5.3	4.96	4.98	5.26	8.7096	91.8	0.8	0.0
	U	2	-4.2	5.13	5.01	5.19	7.4131	58.6	0.4	0.1
3B037006	L	1	263.7	6.80	6.88	7.66	0.1072	64.3	3.7	3.3
	L	2	344.7	6.78	6.86	7.49	0.0676	39.6	4.5	4.2
	U	1	239.7	6.84	6.91	7.53	0.1072	51.8	3.4	3.0
	U	2	321.9	6.91	7.04	7.29	0.0550	37.8	4.2	3.9
3B037023	L	1	-167.0	3.80	3.81	3.77	169.8244	383.8	0.9	0.1
	L	2	-196.1	3.86	3.86	3.85	144.5440	306.3	1.1	0.0
	U	1	40.3	5.71	5.79	6.98	1.0965	92.5	1.2	0.5
	U	2	77.4	5.84	5.94	6.86	0.5754	81.2	1.7	0.9
3B037024	L	1	-106.6	4.07	4.07	4.04	81.2831	182.9	1.6	0.0
	L	2	-97.3	4.09	4.07	4.10	77.6247	204.6	1.5	0.0
	U	1	-178.2	3.96	3.96	3.91	109.6478	335.9	2.8	0.1
	U	2	-180.6	3.96	3.97	3.97	104.7129	367.8	1.6	0.0
3B042006	L	1	227.3	7.21	7.19	7.64	0.0676	36.1	2.6	2.5
	L	2	245.4	7.20	7.17	7.58	0.0372	22.1	3.2	3.1
	U	1	390.8	7.18	7.21	7.69	0.0646	55.9	5.2	4.6
	U	2	440.4	7.36	7.41	7.80	0.0275	26.8	5.6	5.4
3B042010	L	1	399.7	7.59	7.67	7.77	0.0692	59.9	4.5	4.1
	L	2	375.9	7.63	7.61	7.77	0.0229	18.6	4.8	4.7
	U	1	367.5	7.50	7.61	7.76	0.0759	66.8	4.3	4.1
	U	2	374.6	7.53	7.56	7.78	0.0257	20.2	4.7	4.7
3B042017	L	1	481.1	7.37	7.41	7.86	0.0661	71.5	5.9	5.7
	L	2	449.1	7.41	7.41	7.42	0.0251	19.6	5.5	5.5
	U	1	321.1	6.59	6.66	7.68	0.1514	102.6	4.8	3.8
	U	2	328.3	6.60	6.66	7.44	0.0933	47.1	4.8	4.0
3B042036	L	1	1077.5	7.74	7.74	8.28	0.0240	69.6	13.6	13.1
	L	2	1231.8	7.50	7.59	8.38	0.0120	28.5	15.2	14.7
	U	1	229.2	6.36	6.34	7.43	0.2399	127.8	3.5	2.8
	U	2	255.7	6.42	6.45	7.46	0.1413	69.5	4.0	3.1
3B042041	L	1	509.8	6.88	6.98	7.86	0.0537	66.4	6.9	6.0
	L	2	687.1	6.90	6.99	7.57	0.0692	81.7	9.9	8.5
	U	1	480.6	7.05	7.17	7.80	0.0550	53.6	6.3	5.6
	U	2	603.2	7.04	7.11	7.63	0.0537	61.5	8.1	7.3
3B042042	L	1	467.9	7.35	7.32	7.90	0.0479	52.5	5.8	5.7
	L	2	484.9	7.55	7.65	7.89	0.0214	21.6	6.1	5.8
	U	1	402.2	7.43	7.40	7.84	0.0295	48.1	5.3	5.1
	U	2	449.6	7.32	7.44	7.67	0.0275	30.7	5.7	5.5
3B043001	L	1	715.4	7.88	8.04	8.08	0.0234	40.5	8.8	8.6
	L	2	740.0	7.79	8.06	8.13	0.0129	22.7	9.1	9.0
	U	1	243.2	6.64	6.70	7.55	0.1413	93.4	3.7	2.6
	U	2	235.8	6.72	6.75	7.75	0.1000	51.2	3.3	2.8
3B043010	L	1	-29.7	4.55	4.53	4.55	29.5121	104.3	0.5	0.1
	L	2	-5.6	4.98	5.12	5.10	7.7625	73.2	0.3	0.0
	U	1	-26.6	4.56	4.56	4.58	27.5423	106.2	0.3	0.0
	U	2	-16.1	4.87	4.83	4.92	13.4896	63.3	0.2	0.0
3B043012	L	1	-187.2	3.89	3.80	3.84	128.8250	326.3	1.3	0.1
	L	2	-142.1	3.97	3.97	3.96	104.7129	255.8	0.5	0.0
	U	1	-218.4	3.80	3.71	3.77	151.3561	393.5	1.5	0.0
	U	2	-231.8	3.79	3.75	3.79	154.8817	419.4	1.0	0.0

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
3B043021	L	1	39.5	5.82	5.71	6.70	0.9550	73.7	0.6	0.3
	L	2	68.7	6.33	6.37	7.35	0.2291	34.7	1.1	0.8
	U	1	36.6	5.80	5.75	6.84	1.0233	74.8	1.1	0.4
	U	2	46.7	5.72	5.83	6.64	0.5495	56.5	1.1	0.5
3B043023	L	1	-96.5	4.11	4.10	4.07	77.6247	162.3	0.7	0.0
	L	2	-46.3	4.39	4.40	4.40	39.8107	109.8	0.5	0.0
	U	1	-440.1	3.52	3.51	3.47	309.0295	677.0	1.7	0.0
	U	2	-444.4	3.51	3.50	3.50	301.9952	679.6	1.4	0.0
3B043024	L	2	-133.6	3.94	3.93	3.96	102.3293	198.8	0.7	0.1
	U	1	-144.0	3.98	3.86	3.92	104.7129	240.2	0.7	0.1
	U	2	-144.6	3.96	3.93	3.97	107.1519	243.5	0.6	0.0
3B043032	L	1	-4.0	5.19	5.05	5.19	6.9183	84.6	0.8	0.1
	L	2	55.3	6.08	6.14	6.80	0.5754	74.4	1.3	0.7
	U	1	-9.3	4.88	4.93	5.06	10.2329	113.9	1.4	0.0
	U	2	14.2	5.24	5.31	5.77	4.3652	156.0	1.8	0.3
3B043033	L	1	-88.3	4.20	4.14	4.14	67.6083	160.0	0.8	0.0
	L	2	-44.3	4.43	4.45	4.48	37.1535	158.5	1.4	0.2
	U	1	-110.1	4.07	3.98	4.04	79.4328	210.3	0.8	0.1
	U	2	-93.3	4.11	4.09	4.09	75.8578	218.1	1.2	0.2
3B043034	L	1	-151.1	3.95	3.92	3.90	112.2018	247.1	1.1	0.0
	L	2	-100.7	4.13	4.11	4.12	72.4436	204.4	0.9	0.0
	U	1	-179.0	3.90	3.85	3.82	125.8925	320.9	1.8	0.1
	U	2	-118.3	4.04	4.00	4.01	87.0964	214.5	1.2	0.0
3B043035	L	1	-35.4	4.45	4.43	4.42	39.8107	136.2	0.5	0.0
	L	2	-41.7	4.52	4.52	4.49	33.8844	101.3	0.5	0.0
	U	1	-37.3	4.45	4.47	4.43	39.8107	151.2	0.6	0.0
	U	2	-42.9	4.52	4.53	4.49	33.1131	97.5	0.4	0.0
3B043053	L	1	203.7	6.65	6.76	7.38	0.1259	38.9	2.9	2.5
	L	2	186.0	6.87	6.97	7.22	0.1738	70.3	2.5	1.9
	U	1	147.0	5.88	5.94	7.18	0.4786	137.9	3.7	1.8
	U	2	122.6	5.89	5.92	7.15	0.5754	102.8	3.9	1.6
3B043055	L	1	-12.3	4.60	4.64	4.62	15.1356	168.5	1.0	0.0
	L	2	-0.8	4.96	4.94	8.16	6.7608	124.3	1.0	0.4
	U	1*	760.3	6.20	6.34	8.03	0.5248	941.5	16.4	8.9
	U	2*	1064.9	6.48	6.58	8.16	0.1288	316.2	17.2	12.4
3B043061	L	1*	.	.	6.94	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3B043067	L	1	-15.9	4.80	4.77	4.80	17.7828	74.1	0.4	0.0
	L	2	-3.2	5.06	5.06	5.41	6.7608	65.1	0.4	0.0
	U	1	75.8	6.20	6.32	7.01	0.3715	60.5	1.1	0.7
	U	2	89.8	6.13	6.21	6.81	0.3388	66.4	1.6	1.0
3B043077	L	1*	.	.	6.14	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3B043079	L	1	97.6	6.05	6.17	6.17	0.4365	97.7	1.5	0.2
	L	2	207.4	6.52	6.56	7.24	0.1820	75.7	3.0	2.4
	U	1	52.3	5.58	5.72	6.16	1.7378	165.3	1.4	0.2
	U	2	179.8	6.04	6.13	7.13	0.4571	174.5	2.8	1.3
3B047003	L	1	673.2	7.51	7.48	8.00	0.0741	109.3	9.3	8.4
	L	2	892.2	7.51	7.55	8.12	0.0174	32.0	11.0	10.9
	U	1	350.1	7.08	7.10	7.31	0.2344	135.8	4.5	4.2
	U	2	432.8	7.14	7.21	7.79	0.0324	32.1	5.6	5.2

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
3B048023	L	1	140.0	6.42	6.48	7.25	0.4677	132.1	2.7	1.6
	L	2	153.5	6.74	6.72	7.05	0.0724	26.0	2.2	1.8
	U	1	8.0	5.25	5.34	5.38	4.1687	105.2	0.5	0.0
	U	2	5.8	5.29	5.28	5.60	3.8019	80.4	0.5	0.0
3B048029	L	1	587.2	7.31	7.39	8.00	0.0676	76.7	7.7	7.2
	L	2	1046.8	7.38	7.51	8.02	0.0178	32.9	13.0	12.2
	U	1	182.7	7.31	7.32	7.38	0.1549	64.5	2.6	2.2
	U	2	715.4	7.73	7.90	8.11	0.0135	23.8	8.6	8.1
3B048034	L	1	18.6	5.30	5.57	6.36	3.9811	204.8	1.8	0.0
	L	2	97.4	5.68	6.09	6.82	1.2882	220.1	3.0	0.6
	U	1	79.8	6.07	6.11	7.32	0.4786	88.4	1.8	0.8
	U	2	1677.8	7.20	7.28	8.52	0.0219	71.5	20.9	20.4
3B048046	L	1	1226.4	7.57	7.77	8.44	0.0741	208.8	17.9	15.8
	L	2	1941.0	7.72	7.78	8.53	0.0158	72.0	23.4	22.6
	U	1	287.3	6.50	6.66	7.60	0.2570	141.4	5.0	3.8
	U	2	308.1	6.54	6.66	7.27	0.1202	60.9	4.6	3.7
3B048063	L	1	62.5	6.22	6.30	7.01	0.4169	65.1	1.0	0.6
	L	2	75.1	6.36	6.39	7.00	0.1950	38.7	1.2	0.9
	U	1	92.0	5.82	5.93	7.10	1.0233	192.8	3.1	1.1
	U	2	93.5	6.09	6.07	6.98	0.4898	77.9	1.9	1.2
3B048065	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3B048082	L	1	30.5	5.61	5.72	6.00	0.1585	95.6	0.2	0.0
	L	2	11.6	5.71	5.80	6.24	1.3490	48.9	0.4	0.1
	U	1	3.5	5.08	5.12	5.81	6.9183	145.1	1.7	0.1
	U	2	8.1	5.07	5.11	6.07	5.7544	100.9	1.2	0.1
3B048094	L	1	112.3	6.40	6.49	7.35	0.1995	47.9	1.6	1.5
	L	2	199.7	6.49	6.54	7.04	0.1349	53.8	2.8	2.3
	U	1	86.1	6.41	6.49	6.83	0.2754	46.7	1.3	0.6
	U	2	132.7	6.49	6.55	7.05	0.1820	53.2	1.9	1.5
3B048101	L	1	65.5	6.34	6.46	7.10	0.3981	64.9	1.1	0.6
	U	1	6.9	5.40	5.69	6.20	3.4674	80.4	0.5	0.1
	U	2	6.3	5.65	5.68	6.51	1.9498	44.1	0.5	0.1
3B049010	L	1	240.3	6.42	6.39	7.42	0.1862	85.7	3.6	2.8
	L	2	249.3	6.41	6.51	7.27	0.1380	64.0	3.8	3.2
	U	1	161.7	5.96	5.93	7.16	0.5012	141.3	4.0	1.8
	U	2	156.8	5.74	5.78	6.72	0.7762	150.7	4.4	2.1
3B049011	L	1	231.6	6.24	6.14	7.41	0.1905	103.9	4.1	2.7
	L	2	233.5	5.99	6.04	6.81	0.3631	134.7	5.1	3.0
	U	1	117.0	5.82	5.68	7.08	0.7244	115.4	3.5	1.5
	U	2	121.5	5.57	5.61	6.81	1.1482	180.7	4.9	1.7
3B049022	L	1	116.1	6.26	6.33	7.14	0.2884	74.6	2.2	1.3
	L	2	156.6	6.32	6.41	7.28	0.1349	45.3	2.3	1.9
	U	1	112.1	6.13	6.22	7.11	0.3548	91.8	2.2	1.2
	U	2	182.4	6.41	6.46	7.31	0.1862	61.4	2.6	2.2
3B049031	L	1	-56.1	4.55	4.50	4.50	31.6228	257.6	1.4	0.0
	L	2	-16.0	4.86	4.87	4.96	13.8038	227.8	1.3	0.2
	U	1	25.9	5.28	5.37	5.87	3.2359	159.5	2.3	0.1
	U	2	26.4	5.25	5.35	5.93	3.0200	150.0	2.1	0.3

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
3B058021	L	1	330.5	7.54	7.55	7.89	0.0257	19.2	4.2	4.1
	L	2	368.9	7.33	7.34	7.68	0.0295	25.3	4.6	4.4
	U	1	416.3	7.17	7.16	7.82	0.0229	17.0	5.2	5.0
	U	2	420.2	7.04	7.06	7.75	0.0457	49.1	5.3	5.0
3B058023	L	1	694.2	7.25	7.24	7.96	0.0275	41.4	8.7	8.2
	L	2	778.3	7.20	7.23	7.85	0.0316	62.9	10.1	9.5
	U	1	578.7	7.07	7.09	7.66	0.0148	22.1	7.5	7.0
	U	2	670.1	7.06	7.04	7.84	0.0316	53.1	8.7	8.2
3B059007	L	1	273.8	6.97	7.08	7.76	0.2138	105.4	4.1	3.4
	L	2	371.4	6.97	7.07	7.54	0.0661	44.0	4.9	4.3
	U	1	59.3	5.85	6.21	6.92	1.2303	146.3	1.8	0.7
	U	2	199.4	6.00	6.29	7.09	0.5129	154.0	4.0	2.1
3B059009	L	1	16.7	5.69	5.74	6.25	1.4125	51.5	0.6	0.1
	L	2	38.6	5.78	5.84	6.55	1.0965	79.7	0.7	0.2
	U	1	7.1	5.48	5.53	5.86	2.2909	67.8	0.6	0.1
	U	2	20.9	5.55	5.63	6.07	1.6218	78.5	0.6	0.1
3B059013	L	1*	231.9	6.51	6.59	7.51	0.1585	76.0	3.2	2.5
	L	2	27.1	5.74	6.03	6.59	0.7413	54.5	0.9	0.3
	U	1	-2.1	4.95	5.03	5.47	8.3176	181.6	1.7	0.2
	U	2	4.0	5.02	5.09	5.70	4.7863	84.2	1.3	0.0
3B059029	L	1	441.0	7.09	7.10	7.78	0.0813	66.4	6.2	5.5
	L	2	536.4	7.22	7.24	7.84	0.0363	46.6	6.8	6.4
	U	1	83.8	5.81	5.98	7.05	0.5888	88.2	1.6	0.8
	U	2	140.2	5.67	5.77	6.93	0.6918	155.2	3.3	1.4
3B059034	L	2	497.4	6.88	6.89	7.72	0.0708	50.2	6.2	5.8
	U	1	44.8	5.55	5.70	6.59	1.0471	94.9	1.4	0.3
	U	2	50.4	5.41	5.40	6.24	1.8621	169.9	2.3	0.5
3B059038	L	2	1145.7	7.12	7.15	7.95	0.0219	49.9	14.1	13.3
	U	1	987.5	7.20	7.33	8.21	0.0263	52.8	12.2	11.5
	U	2	1246.7	7.15	7.19	8.34	0.0339	73.5	15.6	14.8
3B059073	L	1*	502.1	6.93	7.01	7.89	0.0525	62.0	6.5	5.9
	L	2	528.9	7.23	7.23	7.50	0.0389	40.4	6.4	6.1
	U	1*	158.8	5.97	6.09	7.21	0.2951	112.6	2.2	1.6
	U	2	549.1	6.54	6.52	7.30	0.1413	119.6	7.3	6.1
3B059075	L	1	599.2	7.15	7.36	8.06	0.0427	36.0	7.4	7.5
	U	1	565.5	7.25	7.47	7.99	0.0200	24.8	7.0	7.0
3B059080	L	1	346.8	6.93	7.05	7.75	0.0355	24.4	4.6	4.3
	L	2	473.4	6.87	6.91	7.31	0.0851	75.4	6.1	5.4
	U	1	340.9	7.21	7.35	7.75	0.0501	36.1	4.2	4.2
	U	2	376.9	7.16	7.22	7.59	0.0501	40.5	4.6	4.3
3B059090	L	1*	.	.	.	.	.	.	.	.
	U	1*	3830.7	7.86	7.91	8.73	0.0063	38.8	44.2	43.8
3B059105	L	1	1598.0	7.70	7.75	8.45	0.0126	47.2	19.7	18.8
	L	2	1736.9	7.73	7.73	8.43	0.0105	39.2	21.6	21.1
	U	1	87.6	5.73	5.82	6.85	0.8318	94.3	3.6	0.7
	U	2	76.9	5.82	5.79	6.51	0.8128	125.6	1.6	0.7
3B070004	L	2	39.9	5.41	5.47	5.84	2.4547	193.4	1.2	0.1
	U	1	-10.0	5.04	4.95	5.03	10.7152	156.2	0.7	0.1
	U	2	-12.4	4.82	4.84	4.92	13.4896	269.8	1.1	0.0

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
3B070009	L	1	1617.6	7.46	7.66	8.45	0.0132	48.5	20.0	19.0
	L	2	1891.1	7.77	7.84	8.56	0.0105	40.9	23.6	22.9
	U	1	772.8	7.02	7.11	8.14	0.0407	59.5	9.9	9.0
	U	2	1025.6	7.32	7.38	8.17	0.0151	33.4	12.7	12.2
3B070015	L	1	-14.0	4.97	4.88	4.94	13.4896	107.1	0.6	0.1
	L	2	-10.7	4.89	4.94	5.04	11.2202	135.7	0.6	0.1
	U	1	-13.7	4.91	4.89	4.92	13.1826	105.3	0.4	0.1
	U	2	-9.5	4.95	4.94	5.22	10.4713	130.8	0.5	0.1
3B070024	L	1	29.9	5.81	5.88	6.50	1.0471	70.0	0.7	0.3
	L	2	59.6	5.96	6.04	6.70	0.3802	84.8	1.2	0.5
	U	1	24.6	5.51	5.61	6.39	1.5136	83.7	1.0	0.2
	U	2	29.7	5.62	5.66	6.75	1.3804	101.6	1.9	0.4
3B070043	L	1	565.5	6.48	6.55	7.82	0.0891	119.9	7.2	5.4
	L	2	733.1	6.92	7.01	7.96	0.1413	216.4	10.5	7.9
	U	1	619.5	6.52	6.54	7.87	0.0955	134.5	8.4	5.9
	U	2	779.9	6.84	6.92	7.95	0.1413	218.5	10.6	7.8
3B070050	L	1	94.0	6.08	6.18	6.95	0.4571	105.6	1.4	0.7
	L	2	232.8	6.31	6.37	7.45	0.3715	184.8	4.8	2.0
	U	1	100.0	5.92	6.04	6.96	0.5888	130.0	1.7	0.8
	U	2	284.0	6.33	6.37	7.53	0.3162	182.5	5.1	2.3
3B070058	L	1	150.1	6.05	6.13	7.22	0.3236	123.0	2.8	1.2
	L	2	212.3	6.06	6.08	7.39	0.5888	252.6	4.7	1.8
	U	1	131.1	5.81	5.87	7.07	0.3890	116.4	3.3	1.3
	U	2	210.1	6.09	6.13	7.40	0.4786	199.3	5.1	2.1
3B070059	L	1	356.0	6.87	6.98	7.64	0.0447	42.3	4.5	4.1
	L	2	359.3	6.60	6.67	7.66	0.1862	150.9	6.0	4.0
	U	1	-23.3	4.70	4.77	4.77	17.3780	275.6	1.7	0.1
	U	2	-20.7	4.65	4.76	4.73	20.8930	487.6	4.1	0.4
3B070075	L	1	258.6	6.49	6.54	7.51	0.1288	84.3	3.5	2.8
	L	2	383.7	6.56	6.63	7.66	0.1660	154.9	5.2	4.0
	U	1	191.1	6.31	6.38	7.25	0.0794	49.2	2.7	1.9
	U	2	289.3	6.50	6.57	7.50	0.2042	158.9	4.3	2.0
3C123008	L	1	74.9	6.46	6.41	6.86	0.7762	125.0	1.7	1.3
	U	1	79.6	6.43	6.51	7.14	0.6761	123.7	1.8	1.0
3C123009	L	1	12.0	5.55	5.50	6.30	2.3988	72.7	0.5	0.2
	U	1	8.6	5.48	5.50	6.32	2.3988	60.5	0.5	0.2
3C123010	L	1*	.	.	.	.	.	.	.	.
	U	1*	10.6	5.23	5.15	5.83	3.1623	91.0	0.6	0.3
3C123011	L	1	6.5	5.46	5.35	5.63	2.8840	46.3	0.2	0.1
	U	1	-2.0	5.10	5.04	6.28	6.7608	81.6	0.6	0.3
3C123013	L	1	33.8	5.75	5.74	5.97	1.8621	139.8	1.2	0.7
	U	1	7.7	5.15	5.16	5.97	5.3703	144.7	1.5	0.4
3C123016	L	1	11.5	5.62	5.66	6.27	1.8197	55.4	0.3	0.2
	U	1	5.2	5.23	5.20	5.90	3.7154	70.2	0.8	0.3
3C123017	L	1	43.5	5.98	5.96	6.60	0.8128	94.1	1.0	0.6
	U	1	-2.4	5.14	5.02	5.70	6.9183	116.8	1.0	0.1
3C123018	L	1	65.8	6.13	6.19	6.98	0.4266	62.5	1.3	0.7
	U	1	-1.1	5.22	5.18	5.75	5.4954	67.9	0.6	0.2

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
3C124001	L	1	824.5	6.89	6.94	7.88	0.1122	197.9	11.9	10.6
	U	1	17.8	5.08	5.10	5.59	6.4565	253.9	2.3	0.7
3C124002	L	1	1801.1	7.57	7.55	8.19	0.0191	80.5	22.4	21.8
	U	1*	.	.	.	.	.	.	.	.
3C124003	L	1	-46.6	4.45	4.45	4.51	36.3078	333.5	1.2	0.6
	U	1*	.	.	.	.	.	.	.	.
3C124006	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C124010	L	1*	.	.	.	.	.	.	.	.
	U	1	-37.4	4.55	4.45	4.59	33.1131	373.1	2.9	0.3
3C124012	L	1	49.6	5.52	5.53	6.48	2.4547	258.0	2.1	0.8
	U	1*	.	.	.	.	.	.	.	.
3C124015	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C124018	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C124019	L	1	12.1	5.46	5.46	5.95	3.7154	148.4	0.8	0.2
	U	1	40.1	5.87	5.86	6.80	1.8621	147.8	1.1	0.4
3C124020	L	1	8.1	5.48	5.44	5.74	3.2359	64.8	0.3	0.2
	U	1	3.3	5.51	5.26	6.09	4.5709	96.2	0.7	0.2
3C124021	L	1	-6.2	4.99	4.91	5.07	10.0000	92.3	0.4	0.1
	U	1	-36.6	4.45	4.43	4.52	33.8844	406.9	2.9	0.1
3C124023	L	1	330.3	6.93	6.94	7.69	0.1288	85.4	4.8	4.2
	U	1	306.0	6.57	6.62	7.75	0.2570	148.1	5.0	4.0
3C124025	L	1	59.2	6.43	6.41	7.03	0.7413	103.0	1.5	0.8
	U	1	79.1	6.10	6.11	6.94	0.8511	122.4	1.5	0.7
3C124026	L	1	360.2	6.03	6.00	7.47	0.5754	420.6	6.7	4.6
	U	1	76.5	5.89	5.84	6.92	1.3183	208.2	2.0	1.1
3C124028	L	1	473.5	6.86	6.83	7.66	0.1950	200.0	5.8	4.3
	U	1	368.0	6.86	6.89	7.54	0.2239	179.7	4.4	4.4
3C124032	L	1	2.5	5.22	5.17	5.68	3.9811	65.1	0.5	0.1
	U	1	1.0	5.18	5.11	5.79	4.7863	84.2	0.9	0.2
3C124034	L	1	32.4	5.63	5.58	6.66	1.4791	96.3	0.8	0.3
	U	1*	.	.	.	.	.	.	.	.
3C124036	L	1	45.9	5.99	6.01	6.93	1.1482	106.4	1.2	0.5
	U	1	-4.5	5.33	5.13	5.54	5.4954	44.3	0.3	0.0
3C124038	L	1	15.9	5.62	5.49	5.97	2.2387	71.7	0.5	0.4
	U	1	7.6	5.66	5.50	6.08	3.0200	65.7	0.5	0.3
3C124045	L	1	134.1	5.62	5.58	7.27	1.3804	369.9	4.8	1.6
	U	1*	.	.	.	.	.	.	.	.
3C124047	L	1	279.9	6.13	6.09	7.28	0.5012	275.8	4.6	3.2
	U	1*	.	.	.	.	.	.	.	.

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-2. Acid neutralizing capacity, pH, and related variables (continued)

RCH_ID	NODE	SAMPLE	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
3C124049	L	1*	.	.	.	.	.	.	.	.
	U	1	279.6	6.05	6.04	7.23	0.6310	359.5	4.8	3.3
3C124050	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C124052	L	1	72.6	5.81	5.84	7.18	1.5136	217.6	2.4	1.0
	U	1*	.	.	.	.	.	.	.	.
3C125002	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C125003	L	1	1068.3	7.32	7.35	8.03	0.0759	169.7	12.2	11.0
	U	1	-296.3	3.75	3.73	3.77	194.9845	687.3	0.6	0.2
3C126003	L	1	419.2	6.99	7.05	7.64	0.0912	79.5	4.7	4.5
	U	1	246.8	6.42	6.42	7.53	0.1995	129.4	2.9	1.8
3C132004	L	1	431.9	7.20	7.23	7.79	0.0741	86.5	4.9	4.5
	U	1	345.1	6.92	6.91	7.39	0.1698	105.5	3.6	3.1
3C132006	L	1*	.	.	.	.	.	.	.	.
	U	1	220.2	6.22	6.23	6.77	0.7244	248.9	2.7	1.3
3C132009	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C132011	L	1	-14.9	4.76	4.65	5.19	15.1356	205.2	0.9	0.3
	U	1	-402.0	3.64	3.60	3.64	245.4709	1072.4	2.3	0.5
3C133001	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C133002	L	1	178.6	6.32	6.37	7.27	0.3981	158.9	1.8	1.3
	U	1	245.8	6.43	6.45	7.45	0.2951	155.1	2.6	1.8
3C133003	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C133005	L	1	20.4	5.61	5.60	6.25	2.5704	114.6	0.7	0.3
	U	1	39.0	5.78	5.73	6.30	1.3183	122.7	0.9	0.5
3C133008	L	1	137.7	6.15	6.14	7.14	0.3467	102.8	1.7	1.2
	U	1	134.3	6.28	6.28	7.02	0.3802	117.5	1.6	1.1
3C133011	L	1*	.	.	.	.	.	.	.	.
	U	1*	116.1	5.83	5.85	6.98	1.1220	208.7	2.4	1.3
3C133013	L	1	-138.3	4.10	4.06	4.10	85.1138	409.3	0.4	0.3
	U	1	-150.4	4.09	4.06	4.09	83.1764	410.2	0.5	0.2
3C133024	L	1*	.	.	.	.	.	.	.	.
	U	1	-645.2	3.44	3.39	3.40	363.0781	1730.0	0.8	0.2
3C133029	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C136032	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C136033	L	1	-107.7	4.18	4.17	4.23	66.0693	492.0	2.4	0.4
	U	1	-99.4	4.22	4.22	4.24	53.7032	498.5	2.6	0.5

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
1D022009	L	1	1.6	0.2	0.6	0.6	0.2	0.1	2.3	1.9
	L	2	0.5	0.1	0.3	0.6	0.1	0.1	2.4	0.8
	U	1	1.4	0.2	0.7	0.8	0.2	0.1	2.4	1.6
	U	2	0.9	0.2	0.4	0.6	0.1	0.0	2.3	2.4
1D022010	L	1	3.4	0.1	0.6	0.9	0.6	0.3	2.8	3.1
	L	2	0.8	0.1	0.4	0.6	0.4	0.2	3.1	2.5
	U	1	1.8	0.1	0.6	1.0	0.4	0.1	2.2	2.3
	U	2	1.4	0.1	0.4	0.6	0.5	0.1	2.5	1.8
1D022022	L	1	8.3	0.3	0.4	0.8	1.4	0.8	3.1	1.8
	L	2	6.1	0.4	0.7	0.6	3.2	2.2	3.8	2.0
	U	1	6.3	0.1	0.5	0.8	0.6	0.4	2.6	1.8
	U	2	2.5	0.2	0.8	0.8	1.3	0.1	3.2	1.8
1D024010	L	1	1.8	0.1	1.2	0.4	0.2	0.1	1.4	1.6
	L	2	2.0	0.1	0.5	0.7	0.2	0.1	1.5	1.2
	U	1	1.4	0.1	0.9	0.2	0.0	0.0	1.1	1.8
	U	2	0.8	0.1	0.3	0.9	0.0	0.0	1.1	0.7
1D024021	L	1	1.9	0.2	0.7	0.3	0.2	0.0	1.5	1.1
	L	2	0.6	0.0	0.4	0.7	0.0	0.0	1.5	1.1
	U	1	1.2	0.1	0.5	0.3	0.0	1.0	1.5	1.7
	U	2	1.1	0.0	0.3	0.6	0.0	0.0	1.5	0.7
1D025003	L	1	10.4	0.1	1.0	0.9	0.3	0.3	2.4	2.4
	L	2	3.0	0.1	1.1	0.4	0.1	0.1	2.5	4.1
	U	1	15.5	0.1	0.9	1.0	1.0	2.4	2.5	9.9
	U	2	1.4	0.0	0.4	0.6	0.5	6.0	2.5	18.4
1D029004	L	1	3.2	0.1	0.7	0.8	0.6	0.0	2.6	1.9
	L	2	4.0	0.0	0.5	0.5	2.9	0.7	3.0	1.7
	U	1	2.6	0.1	0.6	0.8	0.3	0.1	2.5	1.4
	U	2	9.3	0.1	0.4	0.4	0.5	0.2	2.6	1.4
1D029010	L	1	3.6	0.1	0.6	0.5	0.6	2.6	3.5	3.0
	L	2	4.9	0.7	1.9	0.7	2.7	6.6	3.9	3.4
	U	1	4.9	1.8	0.6	0.7	0.5	0.8	2.6	2.3
	U	2	3.6	0.2	0.7	0.5	1.0	1.6	3.1	2.0
1D029015	L	1*	36.3	31.5	27.0	0.6	1.6	8.8	2.9	1.2
	L	2*	28.2	26.1	28.6	0.6	1.0	9.2	3.4	0.9
	U	1	2.9	0.3	1.3	0.9	2.7	1.3	6.4	9.3
	U	2	1.4	0.1	1.4	0.8	2.3	3.0	7.4	14.3
1D029016	L	1*	313.2	313.5	19.0	2.3	47.6	152.2	10.6	1.8
	L	2*	448.4	374.3	453.0	10.9	42.3	220.2	12.9	0.9
	U	1	15.1	11.5	0.8	1.1	0.4	3.9	2.9	2.3
	U	2	8.4	5.4	5.0	1.5	0.0	2.4	2.7	1.6
1D029018	L	1	6.1	0.1	0.6	0.8	1.5	0.4	3.1	3.4
	L	2	3.5	0.2	0.8	0.3	2.5	0.1	3.5	2.2
	U	1	3.7	0.4	1.1	0.9	2.6	2.0	4.0	11.7
	U	2	4.1	0.1	1.1	1.0	11.3	13.2	4.5	13.6
1D029020	L	1	0.7	0.0	0.8	0.6	0.0	0.0	2.2	1.2
	L	2	0.8	0.2	1.1	0.5	0.0	0.0	2.5	0.9
	U	1	5.0	0.0	0.5	0.5	0.4	0.3	2.3	2.2
	U	2	4.8	0.1	0.8	0.3	0.3	0.1	2.5	1.8
1D029023	L	1	2.6	1.0	1.2	0.8	0.1	0.5	2.2	1.2
	L	2	2.0	0.5	0.9	0.6	0.0	0.0	2.1	0.8
	U	1	14.8	13.2	11.9	3.6	4.2	9.6	2.4	4.7
	U	2	11.9	9.5	10.5	3.5	1.2	7.4	2.1	4.8

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
1D029028	L	1	2.9	0.7	0.6	0.8	0.1	0.6	1.4	1.4
	L	2	1.6	0.2	0.6	0.4	0.1	0.0	1.5	0.5
	U	1	4.2	2.9	2.8	1.0	0.2	1.0	1.5	1.0
	U	2	5.3	3.8	3.9	0.8	0.3	1.6	1.6	0.8
1D029031	L	1	1.7	0.2	0.8	0.9	0.3	0.1	1.9	1.3
	L	2	1.9	0.2	0.7	0.5	0.5	0.0	2.2	1.2
	U	1	0.8	0.0	0.5	0.5	0.0	0.0	1.3	0.7
	U	2	0.6	0.1	0.6	0.4	0.0	0.0	1.3	0.5
1D029042	L	1	4.6	2.1	2.4	0.9	0.0	0.4	1.7	1.2
	L	2	2.0	0.8	1.2	0.9	0.0	0.1	1.5	0.7
	U	1	17.2	14.3	13.9	1.5	0.3	2.3	1.8	1.7
	U	2	13.2	10.4	8.9	1.6	0.4	2.2	1.4	1.6
1D029043	L	1	7.2	5.0	5.4	1.4	1.0	2.0	1.7	2.0
	L	2	4.2	1.6	1.8	1.4	1.3	1.5	1.5	1.4
	U	1	8.5	5.7	6.2	2.3	2.3	2.6	1.8	3.7
	U	2	8.9	5.9	6.8	3.3	3.1	2.7	1.7	4.3
1D029044	L	1	3.1	0.0	0.6	0.6	0.2	0.1	2.1	2.3
	L	2	1.7	0.1	0.5	0.7	0.3	0.1	2.2	1.9
	U	1	1.4	0.0	0.8	0.5	0.2	0.1	2.1	2.8
	U	2	1.8	0.1	0.4	0.6	0.8	0.3	2.1	2.8
1D029051	L	1	1.9	0.4	0.9	1.0	3.3	0.2	2.1	1.5
	L	2	1.8	0.3	0.6	0.7	0.1	0.0	2.1	1.1
	U	1	3.9	0.8	1.3	0.2	0.2	0.4	1.9	1.5
	U	2	1.4	0.3	0.6	0.8	0.1	0.1	1.9	1.0
1D029052	L	1	3.9	0.3	0.8	0.1	0.7	0.2	2.3	2.0
	L	2	3.7	0.2	0.8	0.6	1.7	0.2	2.5	1.6
	U	1	4.3	0.1	0.7	.	1.1	0.4	2.2	2.2
	U	2	3.9	0.1	0.9	0.9	1.5	0.8	2.4	1.4
1D029056	L	1	3.8	0.0	0.5	0.8	0.3	0.2	1.9	1.8
	L	2	3.6	0.1	0.6	0.6	0.8	0.3	2.2	1.3
	U	1	1.6	0.0	0.6	0.7	0.1	0.0	1.3	0.9
	U	2	1.9	0.1	0.4	0.6	0.1	0.0	1.2	0.6
1D029057	L	1	1.9	0.0	0.7	0.6	0.3	0.0	1.5	1.3
	L	2	2.1	0.1	0.6	0.7	0.5	0.1	1.6	1.4
	U	1	3.0	0.1	0.6	0.4	0.5	0.2	1.5	1.1
	U	2	2.0	0.2	0.5	0.9	0.4	0.1	1.5	0.9
1D030001	L	1	0.9	0.1	0.6	0.3	0.0	0.0	1.7	1.1
	L	2	0.5	0.0	0.4	0.5	0.0	0.0	1.8	0.3
	U	1	0.7	0.1	0.7	0.3	0.0	0.0	1.8	0.8
	U	2	0.6	0.0	0.4	0.4	0.0	0.0	1.8	0.4
1D030004	L	1	4.0	2.4	2.1	1.0	0.0	0.8	1.8	1.8
	L	2	2.3	0.8	0.9	0.7	0.0	0.1	1.8	1.0
	U	1	20.0	16.7	14.0	2.6	0.5	2.8	1.7	3.2
	U	2	15.9	12.1	11.1	1.6	0.2	2.3	1.7	1.9
1D030005	L	1	0.8	0.1	0.5	0.7	0.0	0.0	1.9	1.5
	L	2	0.7	0.2	0.5	0.5	0.0	0.0	2.1	0.6
	U	1	0.9	0.1	0.7	1.0	0.0	0.0	1.9	0.9
	U	2	0.8	0.4	0.5	0.3	0.0	0.0	1.9	0.9
1D030017	L	1	1.4	0.3	0.8	0.8	0.0	0.0	1.8	1.0
	L	2	1.0	0.3	0.5	0.5	0.0	0.0	1.8	0.4
	U	1	1.2	0.3	0.7	0.9	0.0	0.0	1.8	1.0
	U	2	1.0	0.3	0.6	0.6	0.0	0.0	1.8	0.5

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
1D030018	L	1	2.7	0.3	1.0	1.1	1.6	0.5	2.2	3.1
	L	2	3.1	0.4	0.9	0.7	0.0	0.3	2.3	2.8
	U	1	1.1	0.3	0.7	0.8	0.3	0.1	2.1	2.9
	U	2	0.8	0.3	0.5	0.2	0.3	0.1	1.9	0.9
1D030019	L	1	4.5	0.1	0.6	0.8	1.6	0.8	2.5	3.7
	L	2	5.1	0.2	0.6	0.6	1.1	0.7	2.6	1.7
	U	1	2.5	0.3	1.0	1.3	1.8	0.5	2.5	4.7
	U	2	3.2	0.4	0.7	0.4	1.1	0.5	2.6	4.6
1D030021	L	1	1.8	0.1	0.6	0.8	1.7	0.1	2.7	2.3
	L	2	1.0	0.1	0.5	0.4	0.3	0.1	3.2	1.6
	U	1	4.5	0.3	0.8	0.7	7.0	0.7	2.6	4.8
	U	2	3.0	0.1	0.5	0.5	10.1	1.3	3.1	4.9
1D030023	L	1	1.9	0.1	0.5	0.7	0.4	0.7	1.9	1.5
	L	2	0.7	0.1	0.4	0.6	1.1	2.9	2.1	0.7
	U	1	0.9	0.0	0.5	0.9	0.1	0.1	1.8	2.4
	U	2	10.6	0.1	0.5	0.7	0.9	2.5	1.8	2.3
1D030025	L	1	1.9	0.4	0.6	0.8	0.3	0.0	1.9	1.7
	L	2	0.8	0.1	0.4	0.6	0.1	0.0	1.9	3.3
	U	1	2.0	0.1	0.6	0.8	0.9	0.2	2.2	2.0
	U	2	1.7	0.2	0.5	0.6	1.2	0.2	2.1	1.5
1D030038	L	1	3.3	0.2	0.7	0.9	0.4	0.1	1.9	2.5
	L	2	1.3	0.1	0.5	0.5	0.2	0.3	1.9	4.6
	U	1	5.2	0.4	0.8	0.8	0.6	0.5	1.9	2.8
	U	2	5.2	0.6	1.1	0.8	0.6	0.1	2.1	2.8
1D030041	L	1	3.7	0.4	0.9	1.2	1.2	1.0	2.5	4.6
	L	2	2.4	0.3	0.7	0.6	1.3	0.5	2.6	4.2
	U	1	4.3	0.9	1.1	1.3	1.7	1.0	2.4	4.9
	U	2	2.6	0.3	0.7	0.8	0.8	0.9	2.6	4.4
1D030044	L	1	2.9	0.2	0.7	0.7	1.8	0.3	2.5	3.4
	L	2	3.3	0.2	0.5	0.2	1.0	0.2	2.8	2.8
	U	1	2.9	0.2	0.7	0.8	2.3	0.6	2.5	2.7
	U	2	2.4	0.1	0.5	0.7	2.0	0.3	2.9	2.6
1D030048	L	1	3.7	0.1	0.5	0.6	0.3	0.2	2.7	2.8
	L	2	1.9	0.3	0.7	0.5	0.2	0.2	2.9	2.2
	U	1	3.9	0.1	0.6	0.8	0.4	1.0	2.8	2.8
	U	2	4.9	0.1	0.5	0.3	0.4	2.7	2.8	2.9
1D030050	L	1	5.7	0.1	0.6	0.9	1.8	1.4	3.2	2.7
	L	2	1.6	0.1	0.5	0.6	2.0	2.0	3.5	2.0
	U	1	3.5	0.9	1.4	1.0	0.7	0.9	2.4	1.7
	U	2	4.2	0.6	1.1	1.0	0.3	1.0	2.6	1.9
1D030070	L	1*	11.2	0.1	0.4	0.4	2.0	2.3	3.5	7.6
	L	2*	1.3	1.0	0.7	0.5	0.9	2.5	4.5	7.3
	U	1*	8.6	0.2	0.5	0.5	1.9	1.3	3.1	6.7
	U	2*	2.3	0.8	0.7	0.5	0.8	2.5	4.4	7.3
1D030071	L	1	6.5	0.2	0.3	0.4	1.3	0.6	3.2	4.1
	L	2	1.1	1.5	0.7	0.1	0.8	0.8	3.4	4.3
	U	1	5.6	0.2	0.2	0.4	1.2	0.6	3.2	4.4
	U	2	1.0	1.4	1.1	0.4	2.5	0.6	4.2	4.3
1D030074	L	1	3.5	0.3	0.8	0.9	0.4	0.2	2.6	2.0
	L	2	1.0	0.1	0.5	0.3	0.2	0.1	2.6	1.2
	U	1	1.6	0.1	0.6	0.7	1.4	1.6	2.3	3.5
	U	2	1.9	0.1	0.7	0.5	2.2	3.0	2.4	3.1

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
1D030080	L	1	.	0.4	0.4	0.6	.	.	.	.
	L	2	1.0	0.3	0.6	0.3	2.3	0.9	2.3	3.0
	U	1	6.6	1.7	0.8	0.7	0.4	1.4	1.9	2.2
	U	2	1.7	1.3	0.4	0.1	0.6	1.3	1.8	1.8
1D030083	L	1	3.8	0.3	0.2	0.4	1.0	0.5	2.7	2.4
	L	2	1.0	1.2	0.5	0.3	2.0	0.7	3.2	1.6
	U	1	2.6	0.2	0.4	0.5	0.9	0.5	2.9	1.5
	U	2	1.4	1.7	0.7	0.3	2.0	0.8	3.4	1.8
1D030092	L	1	3.1	0.3	0.6	0.3	0.4	0.1	2.2	1.9
	L	2	0.9	0.7	0.5	0.2	0.9	0.0	2.4	2.2
	U	1	2.5	0.2	0.3	0.6	0.5	0.1	2.1	1.9
	U	2	0.7	1.2	0.5	0.3	1.1	0.0	2.8	2.0
1D030093	L	1	3.8	0.1	0.5	0.7	1.0	0.7	2.9	4.9
	L	2	0.8	0.7	0.7	0.3	0.7	0.6	3.3	4.9
	U	1	15.4	0.1	0.6	0.2	3.3	4.5	3.9	4.3
	U	2	0.5	0.8	0.5	0.2	2.2	0.6	4.8	5.1
1D031002	L	1	1.3	0.1	0.9	0.3	0.5	0.2	3.4	1.7
	L	2	0.8	0.0	0.6	0.5	0.3	0.0	3.4	1.9
	U	1	3.4	0.1	1.1	0.2	0.9	0.6	3.3	1.0
	U	2	1.7	0.0	0.5	0.5	0.5	0.4	3.8	1.2
1D031006	L	1	6.1	0.1	0.8	0.5	1.4	0.8	3.4	5.1
	L	2	3.2	0.1	0.9	0.6	1.4	0.9	3.6	8.2
	U	1	2.5	0.1	1.0	0.4	0.7	0.2	3.5	6.3
	U	2	3.1	0.2	0.7	0.5	0.8	0.2	3.9	8.7
1D031014	L	1	2.6	0.4	1.0	1.2	1.6	0.1	7.3	5.1
	L	2	2.9	0.4	0.9	0.9	1.2	0.2	6.8	4.2
	U	1	1.2	0.1	0.5	0.8	0.4	0.3	6.4	4.3
	U	2	0.7	0.2	0.5	0.2	0.3	0.4	6.8	3.5
1D036006	L	1	6.6	0.1	0.7	0.8	0.3	0.1	2.1	1.3
	L	2	2.1	0.3	0.6	0.3	0.2	0.1	2.5	1.1
	U	1	3.4	0.1	0.6	0.5	0.5	0.6	2.3	1.4
	U	2	1.6	0.1	0.6	0.4	0.3	0.1	2.6	1.0
1D036008	L	1	12.9	0.1	0.5	0.6	1.0	0.6	1.8	1.8
	L	2	6.7	0.1	0.6	0.4	0.8	0.4	2.1	1.6
	U	1	13.8	0.9	1.1	1.2	0.9	1.0	2.2	2.4
	U	2	6.3	0.4	0.9	0.8	1.2	0.8	2.1	1.9
1D036010	L	1	4.6	0.3	0.8	0.6	0.2	0.9	2.7	2.2
	L	2	1.9	0.3	0.7	0.3	0.5	0.3	2.9	1.9
	U	1	6.2	0.1	0.6	0.3	0.2	0.4	2.5	1.1
	U	2	6.0	0.1	0.6	0.4	0.1	0.1	2.5	0.9
1D036011	L	1	5.2	1.5	1.6	0.8	0.2	0.9	1.5	0.9
	L	2	2.6	0.4	0.8	0.5	0.3	0.6	1.3	0.7
	U	1	7.3	5.4	5.2	1.0	0.1	1.3	1.6	1.1
	U	2	4.2	2.8	2.7	0.8	0.1	0.9	1.4	0.6
1D036012	L	1	2.0	0.2	0.6	0.7	0.2	0.3	2.1	1.4
	L	2	3.6	0.0	0.4	0.3	0.7	0.2	2.2	1.0
	U	1	3.6	2.4	2.3	1.0	0.0	0.6	2.1	1.0
	U	2	3.4	1.5	2.0	0.4	0.0	0.5	2.2	0.6
1D036017	L	1	2.2	0.1	0.7	0.7	0.5	0.3	1.4	1.3
	L	2	1.8	0.1	0.5	0.6	0.8	0.2	1.4	0.9
	U	1	4.1	0.2	0.8	0.3	0.2	0.8	1.3	1.2
	U	2	2.8	0.1	0.4	0.6	0.4	0.8	1.3	1.1

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
1D037003	L	1	4.6	0.7	0.6	1.4	2.0	1.2	3.6	3.3
	L	2	3.2	1.4	1.0	1.1	3.2	1.5	4.3	4.1
	U	1	3.3	0.6	0.8	0.8	1.0	0.8	4.0	2.5
	U	2	1.6	0.9	0.6	0.8	1.1	0.9	4.3	2.6
1D037004	L	1	2.8	0.4	1.0	0.8	0.4	0.3	1.7	1.7
	L	2	2.9	0.2	0.7	0.7	0.8	0.2	1.8	1.1
	U	1	1.9	0.2	0.6	0.8	1.4	0.6	1.8	1.0
	U	2	1.5	0.1	0.4	0.3	1.7	2.1	1.8	0.8
1D037005	L	1	2.9	1.3	1.5	1.5	0.2	0.2	1.2	1.2
	L	2	2.1	0.7	1.1	0.9	0.1	0.1	1.0	0.9
	U	1	7.4	3.6	3.7	2.4	1.3	0.2	1.1	4.3
	U	2	10.6	6.6	7.3	4.8	2.4	0.2	1.1	8.0
1D037010	L	1	2.3	0.1	0.5	0.8	0.1	0.0	2.4	5.1
	L	2	0.4	0.5	0.6	0.7	0.4	0.1	2.6	1.7
	U	1	6.0	0.1	0.5	0.7	0.6	0.3	2.8	4.3
	U	2	0.8	0.2	0.7	0.9	1.3	0.2	3.3	4.3
1D037011	L	1*	4.7	0.1	0.8	0.6	1.1	2.2	4.7	8.8
	L	2*	0.7	0.5	1.0	1.0	1.6	2.1	5.7	5.8
	U	1*	8.9	0.3	0.8	0.5	0.3	0.5	4.4	3.5
	U	2*	2.3	2.3	1.3	0.8	0.8	0.6	4.8	2.9
1D037016	L	1	3.0	0.1	0.7	0.8	0.6	0.2	1.3	1.3
	L	2	2.0	0.1	0.4	0.6	0.5	0.2	1.1	1.0
	U	1	1.8	0.1	0.6	0.5	0.7	0.2	1.2	1.0
	U	2	2.6	0.1	0.5	0.7	0.5	0.1	1.1	1.9
1D037020	L	1	4.4	0.9	0.8	0.4	0.4	0.1	2.4	1.8
	L	2	1.1	0.7	0.7	0.8	0.4	0.0	2.6	2.3
	U	1	3.9	0.5	0.3	0.7	0.7	0.1	2.4	3.0
	U	2	0.9	0.8	0.7	0.8	0.5	0.2	2.5	1.8
1D037021	L	1	5.1	0.1	0.7	1.0	0.6	0.6	5.7	2.1
	L	2	1.8	1.0	0.4	0.7	0.7	0.6	5.7	1.6
	U	1	5.7	0.3	0.4	0.1	0.5	0.1	2.4	1.6
	U	2	1.4	0.4	0.4	0.8	0.5	0.3	2.1	1.3
1D037028	L	1*	8.1	0.2	1.0	0.9	0.1	0.3	3.5	1.2
	L	2*	0.5	0.4	1.0	0.7	0.4	0.3	3.4	0.8
	U	1*	10.5	0.3	0.5	0.9	0.1	0.5	3.4	3.6
	U	2*	1.8	0.7	0.9	0.9	0.4	0.8	3.5	1.4
2A058004	L	1	6.0	0.1	0.5	0.6	5.3	0.9	2.9	1.5
	U	1	10.2	0.2	0.6	0.6	4.0	0.8	2.8	1.9
2A058005	L	1	13.2	0.1	0.5	0.8	3.0	0.5	3.6	1.6
	U	1	8.2	0.4	0.9	0.9	2.1	0.3	3.7	1.4
2A067012	L	1	9.8	0.3	0.6	0.5	0.4	0.1	1.4	0.7
	U	1	4.3	0.3	0.6	0.5	0.0	0.0	1.2	0.8
2A068004	L	1	9.3	0.1	0.5	0.8	3.3	0.6	2.2	1.5
	U	1	4.6	0.1	0.5	0.7	3.2	0.7	2.3	1.6
2A068007	L	1	2.3	0.2	0.8	0.6	0.2	1.1	12.4	1.7
	U	1	8.6	0.2	0.7	0.6	0.4	0.7	12.1	1.9
2A068015	L	1	7.7	0.3	0.9	0.8	0.3	0.2	7.2	1.3
	U	1	5.1	0.3	0.6	0.4	0.2	0.0	0.8	0.9
2A068022	L	1	8.3	0.3	0.4	0.6	1.3	0.2	1.5	1.1
	U	1	11.1	0.4	0.3	0.6	1.3	0.2	1.4	1.0

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
2A068023	L	1	3.6	0.2	0.6	0.4	0.8	0.1	1.4	0.8
	U	1	3.7	0.1	0.6	0.4	0.8	0.1	1.4	0.8
2A068032	L	1	10.5	0.1	0.3	0.6	0.3	0.1	1.6	0.9
	U	1	10.2	0.2	0.4	0.6	0.2	0.0	1.5	0.8
2A068048	L	1	3.7	0.5	0.8	0.5	0.2	0.0	14.0	1.0
	U	1	4.6	1.0	1.4	0.5	1.0	0.4	13.3	1.1
2A068055	L	1	5.1	0.3	0.5	0.4	2.3	0.2	1.4	1.5
	U	1	1.3	0.6	0.6	0.4	0.0	0.0	1.4	0.7
2A07701	L	1	1.0	0.0	.	0.0	0.1	0.0	1.1	0.7
	L	2	1.6	0.1	.	0.1	0.0	0.0	1.1	1.0
	L	3	2.7	0.1	.	0.0	0.1	0.0	1.3	0.5
	L	4*	2.0	0.2	.	0.0	0.2	0.0	1.1	0.6
	U	3	2.3	0.1	.	0.1	0.0	0.0	1.3	0.3
	U	4*	2.8	0.1	.	0.1	0.0	0.0	0.9	0.4
2A07702	L	0*	0.9	0.1	.	0.1	0.1	0.0	2.2	0.4
	L	1	1.9	0.1	.	0.1	0.2	0.0	2.2	0.6
	L	2*	4.2	0.2	.	0.1	0.6	0.0	2.1	1.4
	L	3	1.1	0.1	.	0.1	0.2	0.0	2.4	0.6
	L	4*	2.0	0.1	.	0.2	0.1	0.0	2.7	0.3
	U	4*	1.6	0.0	.	0.0	0.1	0.6	2.1	0.3
2A07703	L	1	8.5	0.1	.	0.1	0.5	0.4	1.4	0.9
	L	2	4.2	0.0	.	0.0	1.0	0.5	1.3	0.7
	L	3	5.7	0.1	.	0.0	0.3	0.3	1.4	0.5
	L	4*	7.1	0.0	.	0.0	1.5	0.5	1.6	0.8
	U	3	7.1	0.2	.	0.1	0.9	0.0	1.4	0.6
	U	4*	9.0	0.2	.	0.1	0.8	0.1	1.6	1.0
2A07801	L	1	4.3	0.2	.	0.2	0.2	0.0	2.5	1.6
	L	2	1.7	0.4	.	0.3	0.3	0.0	2.3	1.7
	L	3	2.3	0.4	.	0.3	0.4	0.0	2.3	1.2
	L	4*	8.7	1.2	.	1.3	0.4	0.1	2.9	1.4
	U	3	2.5	0.4	.	0.4	0.4	0.0	2.3	1.2
	U	4*	7.2	1.0	.	0.9	0.6	0.1	2.9	1.4
2A07802	L	1	3.0	0.2	.	0.1	0.7	0.2	2.5	0.6
	L	2	3.6	0.1	.	0.1	10.6	0.2	2.4	0.6
	L	3	8.0	0.3	.	0.0	0.2	0.1	2.7	0.9
	L	4*	7.3	1.0	.	0.7	1.1	0.1	3.1	1.1
	U	4*	20.5	0.3	.	0.1	1.0	0.2	3.1	0.9
2A07803	L	1	2.0	0.1	.	0.1	0.7	0.4	2.8	0.9
	L	2	0.9	0.1	.	0.1	0.4	0.5	2.5	1.1
	L	3	2.8	0.1	.	0.1	0.3	0.5	3.1	1.2
	L	4*	9.9	0.5	.	0.5	0.3	1.3	4.3	2.0
	U	3	4.2	0.1	.	0.1	0.1	0.0	3.8	0.6
	U	4*	6.9	0.2	.	0.2	0.1	0.1	4.4	1.0
2A07805	L	1	2.4	0.0	.	0.1	0.2	0.0	1.4	1.0
	L	2	1.3	0.2	.	0.1	0.2	0.0	1.4	0.8
	L	3	1.2	0.2	.	0.1	0.2	0.0	1.6	0.7
	L	4*	4.3	0.1	.	0.1	0.7	0.1	1.8	0.8
	U	4*	1.7	0.1	.	0.1	0.1	0.0	1.6	0.8
2A07806	L	0*	4.4	0.2	.	0.2	0.1	0.0	2.9	0.6
	L	1	9.7	0.2	.	0.2	0.1	0.0	3.5	0.8
	L	2	3.8	0.3	.	0.1	0.1	0.0	3.4	0.7
	L	3	12.4	0.2	.	0.1	0.2	0.0	3.4	0.8
	L	4*	9.0	0.2	.	0.1	0.1	0.0	3.6	0.9
	U	4*	6.4	0.3	.	0.3	0.1	0.0	2.3	1.0

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
2A07807	L	0*	2.5	0.0	.	0.0	0.1	0.0	1.3	0.4
	L	1	3.1	0.1	.	0.1	0.2	0.0	1.5	1.0
	L	2	4.7	0.0	.	0.0	0.3	0.0	1.5	1.0
	L	3	4.6	0.1	.	0.0	0.4	0.1	1.6	0.8
	L	4*	13.8	0.0	.	0.1	0.3	0.1	1.8	0.9
	U	4*	6.6	0.1	.	0.1	0.0	0.0	1.1	0.8
2A07808	L	1	0.8	0.1	.	0.0	0.2	0.0	1.2	0.3
	L	2	1.3	0.1	.	0.0	0.1	0.0	1.5	0.6
	L	3	3.7	0.1	.	0.0	0.3	0.0	1.4	0.6
	L	4*	4.7	0.3	.	0.1	0.4	0.1	1.5	0.7
	U	4*	3.4	0.1	.	0.1	0.3	0.0	1.3	0.5
2A07810	L	1	5.4	0.1	.	0.1	0.0	0.0	1.2	0.7
	L	2	0.6	0.1	.	0.0	0.0	0.0	1.2	0.5
	L	3	1.8	0.1	.	0.1	0.0	0.0	1.4	0.7
	L	4*	1.9	0.3	.	0.1	0.2	0.1	1.3	0.9
	U	4*	1.2	0.2	.	0.2	0.0	0.0	1.2	0.6
2A07811	L	1	18.4	0.4	.	0.2	0.0	0.0	1.3	0.5
	L	2	1.1	0.3	.	0.1	0.0	0.0	1.3	0.4
	L	3	2.0	0.4	.	0.3	0.0	0.0	1.4	0.4
	L	4*	1.9	0.3	.	0.3	0.0	0.0	1.3	0.5
	U	4*	0.3	0.4	.	0.3	0.0	0.0	1.2	0.5
2A07812	L	1	3.9	0.0	.	0.0	0.1	0.0	1.5	1.1
	L	2	0.9	0.1	.	0.1	0.0	0.0	1.6	0.7
	L	3	1.2	0.1	.	0.0	0.0	0.0	1.6	0.4
	L	4*	2.9	0.1	.	0.1	0.1	0.0	1.6	0.9
	U	4*	3.0	0.1	.	0.1	0.0	0.0	1.1	0.7
2A07813	L	0*	4.7	0.3	.	0.1	0.7	0.1	3.5	0.9
	L	1	4.2	0.2	.	0.2	0.6	0.1	4.1	1.0
	L	2	4.2	0.4	.	0.4	0.6	0.1	3.7	0.9
	L	3	6.8	0.3	.	0.2	0.7	0.2	3.9	1.0
	L	4*	24.5	0.0	.	0.0	0.9	0.1	4.3	1.6
	U	3*	26.5	0.2	.	0.1	0.8	0.2	2.7	1.1
	U	4*	47.4	0.3	.	0.1	0.9	0.0	3.1	4.8
2A07814	L	0*	1.9	0.0	.	0.0	1.8	0.9	2.3	0.8
	L	1	2.4	0.1	.	0.1	1.9	0.6	2.5	1.2
	L	2	4.4	0.2	.	0.1	1.5	0.6	2.5	1.5
	L	3	4.7	0.0	.	0.0	1.8	0.9	2.6	0.9
	L	4*	86.0	0.0	.	0.1	1.3	0.8	3.6	2.8
	U	3	4.3	0.1	.	0.0	0.6	0.2	2.1	1.1
	U	4*	13.6	0.1	.	0.1	0.7	0.2	2.7	1.1
2A07815	L	1	0.9	0.0	.	0.0	0.3	0.0	1.3	0.5
	L	2	1.6	0.1	.	0.1	0.2	0.0	1.3	0.5
	L	3	4.6	0.1	.	0.1	0.3	0.0	1.4	0.6
	L	4*	3.6	0.1	.	0.1	0.4	0.1	1.5	0.8
	U	4*	3.6	0.2	.	0.1	0.1	0.0	1.2	0.7
2A07816	L	1	1.5	0.0	.	0.0	0.1	0.1	1.2	1.1
	L	2	1.1	0.1	.	0.1	0.0	0.0	1.1	0.5
	L	3	1.7	0.1	.	0.1	0.0	0.0	1.2	0.7
	L	4*	2.6	0.1	.	0.1	0.1	0.0	1.1	0.6
	U	4*	4.7	0.2	.	0.2	0.0	0.0	0.9	0.5
2A07817	L	1	0.9	0.1	.	0.2	0.1	0.0	0.8	0.4
	L	2	1.9	0.3	.	0.2	0.0	0.0	1.0	0.5
	L	3	1.9	0.3	.	0.3	0.0	0.0	1.2	0.6
	L	4*	2.2	0.2	.	0.2	0.1	0.0	1.0	0.8
	U	4*	2.3	0.7	.	0.4	0.0	0.1	1.2	0.6

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
2A07818	L	1	3.9	0.0	.	0.0	0.2	0.1	1.4	0.6
	L	2	2.1	0.1	.	0.0	0.0	0.0	1.4	0.6
	L	3	2.4	0.1	.	0.0	0.2	0.0	1.5	0.6
	L	4*	4.6	0.2	.	0.1	0.3	0.1	1.4	0.8
	U	3	2.8	0.1	.	0.1	0.1	0.0	1.4	0.6
	U	4*	3.3	0.2	.	0.1	0.2	0.0	1.4	0.7
2A07819	L	1	3.0	0.1	.	0.0	0.7	0.3	2.2	0.5
	L	2	4.2	0.3	.	0.1	2.0	0.3	2.3	0.6
	L	3*	21.5	0.1	.	0.0	1.0	0.2	2.1	1.0
	L	4*	7.3	0.5	.	0.1	2.6	0.2	2.8	0.8
	U	4*	17.7	0.2	.	0.1	0.5	0.1	3.6	0.4
2A07820	L	0*	1.7	0.1	.	0.0	0.3	0.1	1.0	0.5
	L	1	4.1	0.1	.	0.2	0.2	0.1	1.1	0.5
	L	2	1.3	0.2	.	0.1	0.3	0.0	1.0	0.7
	L	3	3.0	0.1	.	0.1	0.3	0.1	0.9	0.5
	L	4*	3.6	0.1	.	0.1	0.3	0.1	1.1	0.7
	U	3	1.9	0.1	.	0.1	0.0	0.0	0.9	0.4
	U	4*	3.4	0.3	.	0.2	0.1	0.0	0.8	0.9
2A07821	L	1	3.4	0.3	.	0.2	0.4	0.0	1.7	0.8
	L	2	7.1	0.2	.	0.1	0.5	0.0	1.6	0.5
	L	3	17.1	0.1	.	0.1	0.8	0.0	1.5	0.7
	L	4*	26.5	0.1	.	0.1	0.8	0.0	1.6	0.6
	U	4*	8.5	0.1	.	0.0	0.9	0.1	1.6	0.7
2A07822	L	1	3.8	0.1	.	0.0	0.4	0.3	1.4	0.5
	L	2	1.9	0.2	.	0.0	0.5	0.2	1.4	0.5
	L	3	3.7	0.1	.	0.0	0.4	0.2	1.6	0.5
	L	4*	3.0	0.2	.	0.1	1.1	0.3	1.6	0.8
	U	4*	4.2	0.2	.	0.1	0.7	0.2	1.7	0.5
2A07823	L	1	6.5	0.9	.	0.6	0.2	0.1	2.0	0.4
	L	2	4.7	0.6	.	0.6	0.1	0.1	1.9	0.4
	L	3	6.2	1.0	.	0.5	0.1	0.1	2.1	0.3
	L	4*	10.0	1.4	.	0.4	0.5	0.2	2.9	0.7
	U	3	8.5	0.1	.	2.6	0.3	0.0	1.6	0.3
	U	4*	52.3	0.2	.	0.1	0.4	0.0	2.2	0.5
2A07824	L	1	4.4	0.4	.	0.3	0.1	0.0	0.9	0.8
	L	2	1.2	0.4	.	0.3	0.0	0.0	0.9	1.0
	L	3	1.8	0.6	.	0.3	0.1	0.0	0.9	1.0
	L	4*	2.7	0.4	.	0.4	0.1	0.0	0.9	1.0
	U	4*	3.8	1.0	.	0.8	0.2	0.0	0.9	1.4
2A07825	L	0*	1.4	0.2	.	0.1	0.2	0.0	0.7	0.7
	L	1	35.4	0.1	.	0.1	0.2	0.0	1.0	0.9
	L	2	1.9	0.3	.	0.2	0.3	0.0	0.8	0.9
	L	3	2.2	0.2	.	0.2	0.3	0.0	0.8	0.8
	L	4*	6.9	0.4	.	0.4	0.4	0.1	0.9	2.4
	U	3	2.3	0.1	.	0.1	0.0	0.0	0.7	0.4
	U	4*	12.2	0.3	.	0.3	0.2	0.0	0.8	1.9
2A07826	L	1	2.9	0.1	.	0.1	1.9	0.5	2.6	1.1
	L	2	2.1	0.1	.	0.1	2.6	0.5	2.6	0.9
	L	3	3.7	0.1	.	0.0	2.9	0.9	2.6	1.5
	L	4*	4.5	0.1	.	0.0	2.5	0.8	3.3	1.4
	U	3	4.7	0.1	.	0.1	1.2	0.3	2.2	1.4
	U	4*	2742.6	0.2	.	0.1	3.1	2.2	2.4	7.7

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
2A07827	L	1	2.6	0.3	.	0.1	0.5	0.2	1.1	0.5
	L	2	3.9	0.2	.	0.1	0.7	0.1	1.1	1.3
	L	3	2.7	0.1	.	0.0	1.0	0.2	1.1	0.5
	L	4*	3.7	0.1	.	0.0	1.1	0.4	1.1	0.9
	U	4*	1.7	0.1	.	0.1	0.2	0.0	1.1	0.6
2A07828	L	0*	1.6	0.2	.	0.1	0.0	0.0	0.7	0.6
	L	1	2.9	0.2	.	0.2	0.2	0.0	0.9	0.6
	L	2	2.0	0.3	.	0.2	0.2	0.0	0.8	0.6
	L	3	3.8	0.2	.	0.2	0.3	0.0	0.8	0.7
	L	4*	67.5	0.3	.	0.2	0.7	0.2	1.3	2.3
	U	3	3.1	0.3	.	0.2	0.3	0.0	0.7	1.2
	U	4*	7.8	0.5	.	0.5	0.1	0.0	0.7	1.7
2A07829	L	1	1.8	0.0	.	0.0	0.2	0.0	0.9	0.8
	L	2	3.4	0.2	.	0.2	0.2	0.0	0.9	0.9
	L	3	3.6	0.1	.	0.1	0.2	0.0	0.9	0.6
	L	4*	6.9	0.1	.	0.1	0.4	0.0	0.9	0.8
	U	3	2.8	0.2	.	0.2	0.3	0.0	0.8	0.6
	U	4*	5.3	0.3	.	0.2	0.9	0.1	0.8	0.8
2A07830	L	0*	8.7	0.1	.	0.0	1.2	0.4	1.6	0.9
	L	1	6.0	0.1	.	0.1	1.3	0.3	1.8	1.1
	L	2	7.4	0.3	.	0.3	1.1	0.2	2.1	3.3
	L	3	6.2	0.1	.	0.1	1.7	0.4	1.8	1.7
	L	4*	5.4	0.2	.	0.2	0.3	0.0	1.1	1.1
	U	4*	11.1	0.1	.	0.1	1.6	0.3	2.1	1.8
2A07831	L	0*	2.7	0.0	.	0.0	0.9	0.5	1.6	0.5
	L	1	4.6	0.1	.	0.1	1.2	0.5	1.8	1.0
	L	2*	13.8	0.1	.	0.0	1.8	0.4	1.7	1.2
	L	3	5.3	0.1	.	0.0	1.3	0.7	2.2	1.3
	L	4*	70.0	0.1	.	0.0	0.7	0.4	1.9	1.0
	U	3	4.5	0.1	.	0.0	0.6	0.1	1.5	1.0
	U	4*	74.1	0.0	.	0.1	0.7	0.1	1.6	1.4
2A07832	L	1	7.9	0.1	.	0.1	0.4	0.0	1.2	0.6
	L	2	1.9	0.0	.	0.0	0.2	0.1	1.0	0.5
	L	3	6.0	0.1	.	0.1	0.7	0.1	1.1	0.6
	L	4*	2.0	0.2	.	0.1	1.2	0.2	1.2	1.2
	U	3	5.9	0.1	.	0.1	0.3	0.1	1.1	0.7
	U	4*	8.9	0.3	.	0.1	0.5	0.1	1.2	0.6
2A07833	L	1	8.6	0.1	.	0.0	0.4	0.1	1.2	0.3
	L	2	1.9	0.0	.	0.0	0.3	0.1	1.2	0.5
	L	3	4.6	0.3	.	0.2	0.1	0.1	1.4	0.6
	L	4*	5.3	0.2	.	0.1	0.7	0.3	1.5	0.6
	U	3	5.4	0.0	.	0.0	0.0	0.0	0.8	0.2
	U	4*	5.0	0.1	.	0.1	0.0	0.0	0.9	0.1
2A07834	L	0*	2.3	0.1	.	0.1	0.8	0.0	0.9	0.5
	L	1	2.9	0.3	.	0.3	0.8	0.0	0.9	1.0
	L	2	5.0	0.7	.	0.6	0.7	0.0	0.8	1.6
	L	3	3.4	0.1	.	0.1	1.8	0.1	0.8	1.1
	L	4*	4.6	0.3	.	0.2	0.6	0.0	0.8	1.4
	U	4*	8.2	0.3	.	0.2	0.3	0.1	0.8	0.9
2A07835	L	1	1.3	0.0	.	0.0	0.2	0.0	1.1	0.6
	L	2	1.1	0.1	.	0.1	0.2	0.0	1.1	1.0
	L	3	2.4	0.1	.	0.0	0.2	0.0	1.0	0.8
	L	4*	3.3	0.1	.	0.1	0.5	0.1	1.2	0.7
	U	4*	7.1	0.2	.	0.1	0.3	0.0	0.9	0.5

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
2A07881	L	1	5.0	0.2	.	0.1	1.1	0.1	5.4	1.4
	L	2	6.8	0.2	.	0.2	0.9	0.1	4.7	1.5
	L	3	7.0	0.4	.	0.1	0.9	0.2	5.6	1.1
	L	4*	7.2	0.4	.	0.3	2.9	0.3	8.0	2.1
	U	3	5.9	0.3	.	0.2	0.6	0.2	5.0	1.1
	U	4*	5.1	0.2	.	0.2	1.1	0.5	6.4	2.0
2A07882	L	1	4.0	0.2	.	0.1	0.1	0.0	1.2	0.6
	L	2	1.4	0.1	.	0.1	0.0	0.0	0.1	0.7
	L	3	1.6	0.1	.	0.1	0.1	0.0	1.2	0.9
	L	4*	6.0	0.1	.	0.0	0.1	0.0	1.4	0.6
	U	4*	4.4	0.1	.	0.1	0.0	0.0	1.2	0.7
2A08801	L	0*	1.2	0.0	.	0.0	0.7	0.4	1.7	0.7
	L	1	2.6	0.1	.	0.1	0.9	0.5	1.9	1.1
	L	2	7.3	0.2	.	0.1	2.0	0.6	1.8	4.3
	L	3	1.7	0.3	.	0.2	1.1	1.2	2.1	0.7
	L	4*	9.6	0.2	.	0.2	0.8	0.7	2.2	1.7
	U	4*	2.1	0.1	.	0.1	0.4	0.1	1.9	1.4
2A08802	L	1	6.1	0.1	.	0.1	0.5	0.3	1.2	0.4
	L	2	1.6	0.1	.	0.0	0.4	0.3	1.1	0.4
	L	3	1.9	0.1	.	0.0	0.1	0.3	1.1	0.4
	L	4*	4.6	0.0	.	0.0	0.6	0.3	1.2	0.4
	U	4*	11.9	0.1	.	0.0	0.4	0.2	1.5	0.9
2A08803	L	1	1.6	0.3	.	0.0	0.9	0.9	1.4	0.7
	L	2	1.5	0.1	.	0.0	2.1	0.9	1.3	0.6
	L	3	1.7	0.0	.	0.0	2.8	0.9	1.4	0.9
	L	4*	3.3	0.0	.	0.0	1.8	1.1	1.5	0.8
	U	4*	1.7	0.0	.	0.0	0.9	0.4	1.6	0.8
2A08804	L	1	4.0	0.0	.	0.0	0.1	0.0	1.1	0.4
	L	2	2.7	0.1	.	0.1	0.0	0.0	1.3	0.5
	L	3	4.1	0.1	.	0.1	0.1	0.0	1.1	0.4
	L	4*	6.3	0.1	.	0.1	0.2	0.0	1.0	0.5
	U	4*	2.9	0.1	.	0.1	0.1	0.0	1.0	0.4
2A08805	L	1	2.5	0.1	.	0.1	0.8	0.2	1.4	0.6
	L	2	2.4	0.1	.	0.1	0.8	0.2	1.4	0.6
	L	3	3.3	0.1	.	0.0	1.2	0.2	1.4	0.9
	L	4*	5.9	0.0	.	0.0	0.8	0.2	1.5	0.9
	U	4*	3.8	0.2	.	0.1	0.9	0.5	1.1	0.9
2A08806	L	1	3.8	0.1	.	0.1	0.5	0.1	1.5	1.4
	L	2	5.8	0.1	.	0.1	1.1	0.1	1.6	0.6
	L	3	6.4	0.1	.	0.1	0.6	0.2	1.6	1.1
	L	4*	5.0	0.1	.	0.0	0.8	0.2	1.6	1.0
	U	4*	5.2	0.1	.	0.1	0.9	0.1	1.6	1.0
2A08808	L	1	2.9	0.1	.	0.1	0.7	0.6	1.7	0.9
	L	2	2.2	0.1	.	0.1	1.1	0.6	1.6	0.5
	L	3	3.2	0.1	.	0.0	1.5	0.6	1.7	0.6
	L	4*	6.7	0.2	.	0.1	1.7	0.6	2.1	1.2
	U	4*	9.0	0.2	.	0.1	0.9	0.1	1.4	1.1
2A08809	L	0*	1.6	0.0	.	0.0	0.4	0.1	0.8	0.3
	L	1	4.0	0.1	.	0.0	0.9	0.1	0.9	0.7
	L	2*	24.0	0.3	.	0.3	1.7	0.2	1.3	2.0
	L	3	4.6	0.0	.	0.1	0.7	0.1	1.1	0.8
	L	4*	12.0	0.1	.	0.1	0.2	0.1	1.3	1.3
	U	4*	10.5	0.1	.	0.1	0.8	0.1	1.1	1.2

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
2A08810	L	1	4.3	0.0	.	0.0	0.9	0.2	1.1	0.4
	L	2	1.8	0.0	.	0.0	0.8	0.3	1.0	0.6
	L	3	3.1	0.1	.	0.0	0.1	0.2	1.1	0.7
	L	4*	6.9	0.1	.	0.1	2.9	0.6	1.2	1.0
	U	4*	3.4	0.1	.	0.1	0.0	0.0	1.0	0.5
2A08811	L	0*	2.3	0.1	.	0.0	0.4	0.1	1.3	0.3
	L	1	2.3	0.1	.	0.1	0.5	0.1	1.6	0.5
	L	2	3.8	0.2	.	0.1	0.9	0.1	1.6	0.7
	L	3	2.7	0.1	.	0.0	0.5	0.1	1.6	0.7
	L	4*	3.5	0.2	.	0.1	0.4	0.1	1.9	1.0
	U	4*	4.2	0.0	.	0.0	0.3	0.1	1.6	0.7
2A08901	L	1	3.2	0.0	.	0.0	0.3	0.0	1.0	0.6
	L	2	13.8	0.2	.	0.1	0.7	0.2	0.9	1.0
	L	3	14.8	0.1	.	0.1	0.6	0.1	1.0	0.7
	L	4*	7.0	0.2	.	0.1	0.7	0.3	0.9	0.8
	U	3	6.2	0.1	.	0.1	0.1	0.0	0.8	0.5
	U	4*	12.5	0.1	.	0.1	0.2	0.0	0.8	1.0
2A08902	L	0*	1.7	0.1	.	0.1	0.4	0.0	0.7	0.3
	L	1	2.2	0.3	.	0.2	0.7	0.0	0.8	0.7
	L	2*	6.0	0.4	.	0.3	0.6	0.0	0.8	1.1
	L	3	3.8	0.1	.	0.1	0.7	0.1	0.8	1.1
	L	4*	7.4	0.2	.	0.1	0.6	0.1	0.8	1.2
	U	4*	7.2	0.1	.	0.1	1.9	0.2	0.8	1.0
2A08903	L	1	2.0	0.2	.	0.1	0.3	0.2	1.1	0.6
	L	2	0.2	0.1	.	0.1	0.6	0.2	1.0	0.5
	L	3	4.2	0.1	.	0.1	0.5	0.2	1.0	0.7
	L	4*	4.4	0.1	.	0.0	0.9	0.2	1.1	0.7
	U	3	4.2	0.1	.	0.0	0.7	0.1	0.9	0.6
	U	4*	6.8	0.1	.	0.0	1.0	0.2	1.0	0.7
2A08904	L	0*	3.1	0.0	.	0.0	0.8	0.2	1.1	0.8
	L	1	3.7	0.1	.	0.1	1.7	0.2	1.3	0.6
	L	2*	253.5	0.2	.	0.1	2.5	0.3	1.5	3.4
	L	3	4.0	0.1	.	0.0	0.9	0.3	1.4	0.6
	L	4*	18.2	0.0	.	0.0	0.9	0.4	1.3	1.1
	U	3	4.4	0.1	.	0.0	0.1	0.0	1.2	0.5
	U	4*	6.9	0.0	.	0.0	0.1	0.0	1.3	0.7
2A08905	L	1	5.4	0.1	.	0.1	0.6	0.2	0.9	0.6
	L	2	1.4	0.1	.	0.1	0.4	0.2	0.8	0.6
	L	3	1.8	0.2	.	0.1	0.5	0.2	0.8	0.4
	L	4*	2.7	0.2	.	0.1	0.4	0.1	1.1	0.6
	U	3	2.1	0.1	.	0.1	0.2	0.0	0.8	0.6
	U	4*	4.0	0.2	.	0.1	0.3	0.1	0.9	0.6
2A08906	L	0*	5.9	0.1	.	0.0	0.8	0.4	0.8	1.1
	L	1	10.6	0.2	.	0.1	2.1	0.3	0.9	1.0
	L	2*	145.3	0.8	.	0.7	3.2	0.9	1.1	5.4
	L	3	10.0	0.4	.	0.1	4.6	0.5	1.0	1.4
	L	4*	52.6	0.2	.	0.1	0.6	0.4	0.9	1.3
	U	4*	64.1	0.2	.	0.1	1.5	0.7	0.9	1.8
2B036003	L	1	10.9	0.3	0.7	0.5	0.2	0.1	1.7	1.2
	L	2	3.1	0.2	0.4	0.5	1.0	0.1	2.3	2.1
	U	1	10.3	0.1	0.7	0.7	0.2	0.1	2.1	1.2
	U	2	3.9	0.2	0.5	0.5	0.3	0.1	2.2	1.0
2B036023	L	1	7.2	0.2	0.7	0.7	0.7	0.5	2.6	1.0
	L	2	7.2	0.2	0.9	0.3	0.7	0.2	2.8	1.6
	U	1	1.8	0.2	0.4	0.7	0.2	0.3	0.9	0.9
	U	2	4.8	0.1	0.4	0.4	0.2	0.1	1.3	1.0

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
2B036027	L	1	5.8	0.3	0.6	0.6	0.3	0.1	2.2	1.4
	L	2	0.8	1.2	0.9	0.9	0.6	0.3	2.2	1.6
	U	1	6.2	0.3	0.6	0.6	0.5	0.1	2.2	2.6
	U	2	1.4	0.5	0.7	0.9	0.3	2.4	2.1	1.4
2B036028	L	1	7.7	0.1	0.5	0.6	0.4	0.3	1.3	0.8
	L	2	1.2	0.4	0.4	0.9	0.2	1.1	1.0	0.8
	U	1	3.1	0.0	0.4	0.5	0.3	0.8	1.1	0.7
	U	2	0.6	0.4	0.3	0.8	0.6	0.6	0.9	1.0
2B036031	L	1*	36.5	0.4	17.0	0.7	12.4	51.1	3.2	0.4
	L	2*	4.3	1.1	1.0	0.8	0.0	28.5	4.2	0.3
	U	1*	91.9	68.2	21.8	2.1	175.1	83.0	4.2	0.5
	U	2*	53.2	94.4	19.8	1.5	217.6	75.9	4.4	0.4
2B036046	L	1	2.9	0.5	0.5	0.7	0.8	0.3	1.5	2.4
	L	2	1.8	0.5	0.4	0.8	0.5	0.2	1.4	0.8
	U	1	9.7	3.9	0.6	0.7	.	.	1.5	.
	U	2	3.9	4.2	3.2	1.1	0.2	0.5	1.0	0.6
2B036051	L	1*	12.1	0.1	0.8	0.7	0.2	0.3	5.7	1.4
	L	2*	1.0	0.3	1.2	0.7	0.2	0.3	6.3	1.1
	U	1*	11.5	0.1	0.8	0.5	0.1	0.3	5.4	1.2
	U	2*	1.5	0.2	0.3	0.6	0.0	0.3	5.8	1.3
2B036057	L	1	14.6	0.3	0.4	0.7	0.9	0.5	2.8	1.9
	L	2	2.9	0.7	0.8	0.9	0.1	0.0	3.0	1.6
	U	1	5.5	0.9	0.7	0.8	3.1	0.0	3.2	7.1
	U	2	4.9	0.3	0.5	1.0	0.4	0.0	3.0	6.1
2B036062	L	1	3.6	0.1	0.4	0.7	0.4	0.1	1.5	1.8
	L	2	0.6	0.3	0.1	0.6	0.0	0.0	1.2	1.1
	U	1	7.5	0.1	0.6	0.6	1.0	0.1	1.5	2.3
	U	2	1.9	0.6	0.7	0.7	0.0	0.0	1.3	1.1
2B036076	L	1	4.2	0.4	0.6	0.6	0.1	0.4	2.1	1.5
	L	2	1.2	0.8	0.6	0.8	0.1	0.3	1.9	0.9
	U	1	3.9	0.5	0.8	0.9	0.2	0.2	1.9	1.3
	U	2	1.2	0.4	0.8	0.8	0.2	0.1	1.7	0.8
2B036083	L	1	4.3	0.4	0.6	0.8	0.9	1.9	5.4	4.2
	L	2	1.7	0.5	0.6	0.7	0.6	1.2	5.3	2.2
	U	1	5.9	0.5	0.5	0.8	1.3	2.2	5.2	6.8
	U	2	1.7	0.0	0.6	0.6	0.8	1.2	4.9	1.8
2B041008	L	1	1.3	0.1	.	.	0.3	0.0	1.4	1.8
	L	2	0.6	0.4	0.4	0.8	0.5	0.2	1.2	1.1
	U	1	1.0	0.1	0.4	0.7	0.3	0.0	1.5	1.3
	U	2	1.2	0.4	0.4	0.7	0.4	0.0	1.3	0.9
2B041016	L	1	1.3	0.1	0.4	0.7	0.4	0.0	2.2	2.2
	L	2	1.0	0.6	0.4	0.7	0.9	0.1	2.2	1.1
	U	1	4.0	0.3	0.6	1.1	0.6	0.5	1.7	2.5
	U	2	3.5	0.5	0.4	0.7	0.9	1.0	1.6	1.4
2B041018	L	1	3.0	0.1	0.5	0.5	0.2	0.0	1.8	3.7
	L	2	0.5	0.5	0.6	0.2	0.3	0.1	2.7	2.4
	U	1	4.5	2.7	2.2	1.1	0.4	0.9	2.2	2.6
	U	2	2.7	3.1	2.1	0.5	0.0	0.7	2.1	2.4
2B041020	L	1	1.1	0.1	0.6	0.6	0.2	0.0	1.5	2.8
	L	2	0.6	0.3	0.4	0.2	0.1	0.1	1.4	2.5
	U	1	1.2	0.2	0.7	0.7	1.4	0.8	1.3	2.1
	U	2	1.5	1.6	0.5	0.2	4.6	2.6	1.1	3.1

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
2B041029	L	1	1.4	0.1	0.4	0.7	0.3	0.0	1.7	1.7
	L	2	0.6	0.3	0.3	0.8	0.0	0.2	1.6	1.0
	U	1	1.1	0.1	0.5	0.9	0.3	0.0	1.5	0.9
	U	2	0.4	0.2	0.4	0.8	0.0	0.3	1.1	1.1
2B041032	L	1	2.4	0.0	0.4	0.6	0.4	0.1	1.5	1.8
	L	2	1.6	0.4	0.4	0.7	0.2	0.3	1.1	1.7
	U	1	5.4	0.3	0.6	0.8	0.3	0.2	1.3	1.9
	U	2	4.9	0.8	0.7	0.7	0.4	0.5	0.9	1.4
2B041042	L	1	5.1	0.5	0.6	0.7	0.3	0.2	2.6	3.2
	L	2	0.3	0.9	0.6	0.8	0.2	0.4	3.0	1.5
	U	1	2.0	0.5	0.6	0.7	0.4	0.1	2.6	1.6
	U	2	0.4	0.6	0.7	0.9	0.1	0.2	3.0	1.5
2B041049	L	1	1.4	0.2	0.6	0.7	0.1	0.0	2.4	1.0
	L	2	1.2	0.5	0.6	0.1	0.4	0.1	2.9	0.7
	U	1	19.1	17.0	14.4	0.8	0.0	1.6	3.3	1.2
	U	2	16.1	13.4	13.7	0.3	0.3	1.1	3.7	0.9
2B041054	L	1	2.7	0.0	0.4	0.7	0.3	0.1	2.6	2.4
	L	2	1.9	0.1	0.5	0.3	0.5	1.1	2.3	1.5
	U	1	1.6	0.1	0.4	0.6	0.1	0.0	1.6	2.0
	U	2	1.8	0.0	0.4	0.2	0.1	0.0	1.6	1.1
2B042003	L	1	3.9	0.5	0.6	0.7	0.5	0.2	2.1	1.5
	L	2	1.5	1.0	0.7	0.9	0.2	0.0	2.0	1.4
	U	1	4.2	0.6	0.9	0.7	0.5	0.3	1.9	1.7
	U	2	1.5	0.4	0.6	1.0	0.1	0.0	1.9	1.3
2B042005	L	1	9.6	0.1	0.8	0.7	0.3	2.5	5.7	2.1
	L	2	0.5	0.4	0.7	0.6	0.1	3.7	5.4	1.8
	U	1	4.3	0.1	0.6	0.6	0.0	0.0	6.8	2.3
	U	2	0.8	0.2	0.5	0.7	0.0	1.1	4.8	2.8
2B042007	L	1	3.4	0.6	0.3	0.6	0.5	0.3	2.6	2.1
	L	2	0.7	0.2	0.4	0.9	0.1	0.6	2.7	1.7
	U	1	2.3	0.4	0.7	0.6	0.5	0.4	2.6	1.9
	U	2	0.5	0.3	0.5	1.2	0.0	0.3	2.5	1.4
2B042017	L	1	9.8	0.1	.	.	0.4	0.3	1.5	0.9
	L	2	1.0	0.0	0.5	0.6	0.3	0.2	1.1	0.6
	U	1	17.2	0.1	.	.	0.3	0.3	1.5	1.5
	U	2	2.0	0.6	0.6	0.6	0.4	0.1	1.2	0.7
2B042022	L	1	2.6	0.1	0.9	0.6	0.1	0.0	1.7	2.3
	L	2	1.1	0.9	0.4	0.3	0.4	0.0	1.6	0.8
	U	1	5.9	0.1	0.4	0.6	0.2	0.0	1.9	2.2
	U	2	3.7	0.9	0.3	0.4	0.6	0.0	1.9	1.1
2B042032	L	1	3.9	0.1	0.8	0.6	0.4	0.2	3.1	1.2
	L	2	0.4	0.4	0.8	0.1	0.6	0.1	3.4	1.1
	U	1	3.4	0.1	0.6	0.7	0.1	0.1	4.0	4.8
	U	2	1.1	0.4	0.7	0.1	0.6	0.2	3.2	0.5
2B042036	L	1	2.9	0.1	0.7	0.6	0.4	0.2	2.3	1.7
	L	2	0.4	0.2	0.4	0.9	0.4	0.3	2.1	1.5
	U	1	2.4	0.1	0.5	0.8	0.3	0.2	2.2	1.4
	U	2	0.7	0.2	0.5	0.8	0.4	0.2	2.1	1.5
2B042044	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
2B042047	L	1	16.4	0.4	0.4	0.7	1.8	1.3	2.1	2.7
	L	2	4.4	0.7	0.5	0.8	1.8	0.9	2.2	1.8
	U	1	12.6	0.1	0.5	0.6	1.7	0.7	2.1	1.9
	U	2	3.4	0.5	0.5	0.8	0.6	0.6	2.0	2.0
2B042052	L	1	10.4	0.1	0.3	0.3	0.3	0.1	2.3	1.4
	L	2	0.4	0.3	0.4	0.9	0.0	0.0	2.0	1.0
	U	1*	42.6	0.1	0.6	0.7	0.1	0.5	2.6	3.6
	U	2*	0.9	0.6	0.7	0.8	0.0	0.8	2.6	1.0
2B042063	L	1	23.4	0.1	0.3	0.1	2.8	1.7	3.9	6.3
	L	2	38.4	0.6	0.5	0.8	4.7	1.6	5.1	7.5
	U	1	28.1	0.1	0.5	0.7	2.8	1.8	3.9	5.9
	U	2	20.4	0.7	0.6	0.8	5.3	1.4	5.1	6.9
2B042064	L	1	25.6	0.1	0.4	0.2	1.0	0.5	2.4	1.1
	L	2	1.8	0.6	0.5	0.7	1.1	0.8	2.3	1.3
	U	1	17.8	0.4	0.4	0.7	2.8	3.9	2.9	6.5
	U	2	25.0	0.8	0.5	0.7	2.9	11.3	3.0	3.2
2B047013	L	1	1.0	0.0	0.5	0.7	0.1	0.0	2.0	2.0
	L	2	0.6	0.0	0.6	0.3	0.1	0.1	2.5	1.5
	U	1	1.6	0.0	0.4	1.1	0.1	0.1	2.2	2.2
	U	2	0.5	0.0	0.5	0.4	0.1	0.0	2.0	1.4
2B047019	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B047022	L	1	1.1	0.1	0.6	0.6	0.0	0.0	1.9	2.3
	L	2	1.0	0.1	0.8	0.6	0.1	0.0	1.8	1.1
	U	1	2.0	0.1	0.7	0.6	0.1	0.0	1.8	1.3
	U	2	2.4	0.1	0.7	0.6	0.0	0.0	1.8	0.9
2B047032	L	1	0.6	0.1	0.5	0.6	0.0	0.0	1.3	1.0
	L	2	0.7	0.1	0.7	0.6	0.0	0.0	1.2	0.6
	U	1	0.7	0.1	0.6	0.6	0.0	0.0	1.1	0.8
	U	2	1.7	0.1	0.5	1.0	0.1	0.0	1.1	1.0
2B047036	L	1	0.7	0.0	.	.	0.1	0.0	1.1	0.8
	L	2	0.4	0.0	0.3	0.7	0.0	0.1	0.7	0.8
	U	1	0.8	0.0	.	.	0.1	0.0	1.1	0.9
	U	2	0.5	0.0	0.6	0.6	0.1	0.0	0.8	0.8
2B047044	L	1	4.9	0.1	0.6	0.7	0.6	0.1	1.4	1.4
	L	2	1.3	0.1	0.4	0.2	0.4	0.1	1.7	1.0
	U	1	8.4	0.2	0.5	0.8	0.6	0.6	1.1	2.7
	U	2	3.4	0.1	0.5	0.3	1.0	0.4	1.3	1.3
2B047050	L	1	34.2	0.1	0.7	0.3	0.2	0.5	6.2	2.5
	L	2	1.8	0.4	0.8	0.7	0.0	0.1	6.1	0.9
	U	1	5.0	0.1	0.8	0.6	0.5	0.3	9.5	3.0
	U	2	0.4	0.5	0.9	0.6	0.1	0.4	7.9	1.7
2B047061	L	1	2.5	0.2	.	.	0.3	0.2	1.9	0.8
	L	2	0.5	0.2	0.7	0.6	0.1	0.0	1.5	0.8
	U	1	2.7	0.1	0.5	0.2	0.1	0.1	1.8	1.0
	U	2	0.7	0.6	0.6	0.6	0.4	0.1	1.6	0.7
2B047062	L	1*	3.4	0.0	.	.	0.3	0.0	4.1	2.2
	L	2*	0.6	0.0	1.0	0.8	0.4	4.8	2.5	2.0
	U	1*	8.2	0.0	.	.	0.1	2.9	3.1	2.8
	U	2*	1.5	0.0	0.9	0.7	0.0	0.2	3.2	0.9

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
2B047066	L	1	13.7	0.1	0.3	0.5	2.3	0.3	2.6	2.6
	L	2	4.0	0.5	0.4	0.6	0.4	0.0	3.0	1.3
	U	1*	.	.	.	.	.	.	.	.
	U	2	2.0	0.7	0.5	0.7	0.2	0.0	2.2	0.4
2B047076	L	1	0.5	0.4	0.6	0.4	0.3	0.2	0.6	0.7
	L	2	0.5	0.4	0.6	0.7	2.4	0.1	0.6	0.5
	U	1	0.2	0.4	0.4	0.5	0.2	0.1	0.8	0.6
	U	2	0.7	0.3	0.5	0.8	3.4	0.0	0.6	0.5
2B047078	L	1	18.3	0.0	0.4	0.4	1.7	0.8	2.0	1.9
	L	2	3.9	0.6	0.5	0.6	1.7	0.7	2.6	1.2
	U	1	57.1	0.4	0.2	0.6	3.8	0.7	1.9	8.1
	U	2	17.7	0.8	0.3	0.6	6.4	0.8	2.2	4.3
2B047087	L	1*	0.5	1.4	0.6	0.4	0.4	1.5	4.8	2.6
	L	2*	0.7	0.1	0.7	0.5	0.2	0.6	4.2	3.2
	U	1*	1.1	0.2	0.5	0.4	0.9	2.1	5.2	3.6
	U	2*	1.0	0.2	0.7	0.6	1.2	1.0	5.9	5.9
2B047089	L	1	0.7	0.2	0.1	0.3	0.0	0.1	1.7	0.4
	L	2	0.9	0.2	0.4	0.6	1.7	0.1	1.6	0.5
	U	1	0.2	0.1	0.2	0.3	0.2	0.2	1.5	0.5
	U	2	0.9	0.1	0.4	0.6	0.2	0.0	1.5	0.5
2B047093	L	1	0.7	0.0	0.5	0.6	1.7	0.4	1.5	1.0
	L	2*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B047100	L	1	1.4	0.1	0.5	0.2	0.6	0.1	2.1	0.9
	L	2	0.4	0.1	0.5	0.6	0.0	0.1	2.4	0.9
	U	1	1.1	0.1	.	.	1.1	0.3	1.8	0.8
	U	2	0.3	0.0	0.3	0.7	0.7	0.1	1.8	0.8
2B057029	L	1	1.9	0.0	0.7	0.8	1.9	0.1	1.9	1.6
	L	2	1.7	0.2	0.9	0.2	2.7	0.2	2.2	4.5
	U	1	2.6	0.0	0.8	0.7	0.1	0.2	1.9	0.6
	U	2	1.1	0.1	0.7	0.4	0.1	0.2	2.0	1.2
2B057042	L	1	0.5	0.0	1.7	0.7	0.1	0.0	1.7	1.1
	L	2	1.0	0.1	0.4	0.6	0.1	0.0	1.7	0.7
	U	1*	0.8	0.0	0.7	0.8	0.1	0.0	3.7	1.2
	U	2*	0.6	0.4	0.6	0.6	0.1	0.0	3.5	0.9
2B058015	L	1	0.2	0.3	0.4	0.4	0.1	0.0	1.3	0.5
	L	2	0.3	0.1	0.2	0.4	0.1	0.2	1.5	0.5
	U	1	0.3	0.5	0.5	0.5	0.0	0.0	0.7	0.6
	U	2	0.9	1.0	0.3	0.5	0.4	0.2	0.6	0.7
2B058017	L	1	4.7	0.6	0.7	0.8	1.8	0.2	2.5	1.3
	U	1	10.7	0.5	0.5	0.5	0.0	0.0	3.9	0.8
	U	2	6.7	0.4	0.5	0.7	3.5	0.1	3.7	0.8
2B058024	L	1	1.7	0.2	0.4	0.4	0.2	0.0	1.9	0.3
	U	1	0.9	0.4	0.4	0.4	0.0	0.0	1.8	0.8
	U	2	1.9	0.1	0.4	0.7	1.8	0.4	1.7	0.5
2B077012	L	1	16.3	0.1	1.0	0.5	1.1	1.2	3.2	3.6
	U	1	8.0	0.1	1.4	0.6	1.2	0.5	1.8	1.9
2B077016	L	1	18.5	0.1	1.0	0.7	1.8	5.3	3.2	3.0
	U	1	13.7	0.0	0.8	0.5	0.3	1.6	2.3	1.3
2B087003	L	1	5.3	0.1	0.6	0.8	0.8	1.2	2.0	1.2
	U	1	5.2	0.1	0.6	0.8	0.2	0.4	2.2	0.7

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
2B087005	L	1	4.6	0.2	0.7	0.8	6.7	30.2	1.9	1.6
	U	1	3.2	0.1	0.5	0.4	1.5	2.7	1.9	1.9
2B088002	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B088004	L	1	14.9	0.0	0.7	0.6	2.6	2.9	2.8	5.3
	U	1	6.5	0.1	0.5	0.9	2.3	1.6	2.7	3.5
2B088006	L	1	1.8	0.0	0.5	1.3	0.1	0.4	3.9	1.2
	U	1	1.7	0.0	0.7	1.2	0.1	0.3	3.7	1.3
2B088007	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B088013	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B088016	L	1	8.7	0.0	0.6	0.7	2.1	9.3	3.1	2.9
	U	1	1.1	0.0	0.6	0.6	1.9	0.8	2.2	0.8
2B088019	L	1	3.2	0.1	0.7	2.2	2.5	0.4	2.9	2.3
	U	1	3.3	0.2	0.7	1.1	1.6	0.3	2.9	3.0
2B088020	L	1	4.9	0.4	0.5	0.7	2.4	0.4	1.8	2.7
	U	1	11.1	1.7	1.1	0.5	1.6	1.9	1.9	2.0
2B088021	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B088022	L	1	4.0	0.1	0.6	0.9	1.2	1.5	1.6	1.1
	U	1	4.7	0.1	0.7	0.9	1.3	1.5	1.5	0.8
2B088026	L	1	4.2	0.0	0.8	0.7	0.6	0.9	7.7	1.7
	U	1	2.4	0.0	0.7	0.6	0.2	0.4	7.5	0.3
2B088033	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B088041	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B088045	L	1	8.1	0.1	0.8	0.8	2.1	1.4	7.3	2.9
	U	1	4.4	0.0	0.6	0.7	0.6	0.1	7.3	1.1
2B088049	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B088065	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B088069	L	1	1.3	0.0	0.4	0.6	3.3	0.2	3.7	1.4
	U	1	3.7	0.0	0.3	0.5	1.3	0.3	2.6	1.1
2B098006	L	1	4.9	0.1	0.5	0.7	2.3	0.1	2.6	2.2
	U	1	2.9	0.1	0.5	0.8	3.2	0.1	3.2	1.1
2B098015	L	1	4.8	0.1	0.3	0.7	2.4	0.7	2.4	1.3
	U	1	2.6	0.1	0.4	0.6	0.5	0.1	2.6	0.6
2B098019	L	1	0.8	0.3	0.5	0.6	0.6	0.0	3.8	0.9
	U	1	1.0	0.3	0.6	0.7	1.5	0.0	1.0	1.8

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
2C028043	L	1	4.7	1.1	0.6	0.6	1.1	3.4	3.6	1.4
	L	2	2.7	0.5	0.8	0.7	1.1	1.4	4.1	1.5
	U	1	3.7	0.7	1.8	0.9	3.6	4.2	2.8	1.8
	U	2	6.2	0.3	0.6	0.6	1.2	3.3	2.9	2.7
2C028050	L	1	1.8	0.1	0.5	1.6	0.2	0.1	3.1	2.1
	L	2	15.1	0.7	0.7	0.0	0.9	0.2	2.3	5.4
	U	1	11.6	9.3	7.9	1.0	2.2	4.4	2.1	3.4
	U	2	16.9	10.9	9.9	0.0	4.6	5.4	2.9	7.1
2C028051	L	1*	49.1	79.4	22.7	1.1	6.8	24.3	5.3	0.8
	L	2*	141.9	141.9	134.6	1.1	15.8	83.2	13.3	0.7
	U	1	3.6	0.1	0.4	0.6	0.0	0.2	1.3	0.6
	U	2	5.0	0.2	0.6	0.7	0.8	0.4	1.6	1.0
2C028056	L	1	6.4	0.9	0.8	0.5	16.0	13.4	3.6	0.9
	L	2	2.6	0.2	1.2	0.7	33.7	32.8	4.2	0.7
	U	1	4.5	1.3	1.1	0.5	4.9	4.9	2.8	1.0
	U	2	2.4	0.4	0.9	0.9	17.1	11.5	3.1	0.7
2C028057	L	1	9.2	2.1	1.4	1.0	0.9	0.9	3.1	1.9
	L	2	3.4	1.0	0.5	0.7	0.4	1.4	3.2	5.3
	U	1	12.1	1.8	1.3	0.9	1.9	1.5	2.8	1.5
	U	2	3.9	1.1	0.5	0.8	1.2	1.1	2.8	1.7
2C028060	L	1*	126.9	214.9	.	.	169.8	9.9	6.4	0.5
	L	2*	280.9	205.0	329.0	0.1	587.4	21.5	12.9	2.0
	U	1*	16.4	17.8	11.8	0.8	0.0	4.7	2.9	0.7
	U	2*	19.8	16.6	14.2	0.3	0.2	7.7	3.4	0.8
2C028061	L	1	2.3	0.5	0.5	0.6	0.6	0.2	1.7	0.9
	L	2	1.3	0.2	0.4	0.1	0.3	0.1	2.2	2.4
	U	1	2.7	0.7	0.9	0.7	0.2	0.5	1.7	1.0
	U	2	1.1	0.2	0.5	0.4	0.2	0.0	2.2	2.4
2C028069	L	1	5.9	6.0	6.1	1.2	3.0	2.7	2.6	1.7
	L	2	5.2	2.2	2.6	0.5	1.0	3.7	2.5	1.8
	U	1	10.7	10.1	8.7	1.0	3.3	2.6	3.3	1.0
	U	2	7.6	6.9	6.0	0.5	0.3	2.6	2.8	0.7
2C028070	L	1	4.3	2.7	2.1	0.7	0.0	0.8	1.7	1.0
	L	2	2.7	1.0	1.2	0.1	0.2	0.3	1.8	1.9
	U	1	14.5	16.1	10.8	1.6	0.4	1.8	3.0	1.4
	U	2	8.7	7.6	6.6	0.1	0.6	2.1	2.6	3.0
2C028071	L	1*	58.8	62.2	19.5	2.2	18.5	55.0	7.8	1.2
	L	2*	94.5	84.9	87.6	0.9	42.6	111.8	12.6	0.7
	U	1*	27.6	28.5	19.7	1.4	3.2	31.4	4.4	1.2
	U	2*	27.6	26.1	28.6	0.9	1.0	37.9	3.8	0.6
2C028075	L	1	7.3	6.5	6.1	0.8	0.2	1.6	1.9	0.9
	L	2	5.0	4.2	3.9	0.2	0.1	1.5	1.7	0.5
	U	1	17.2	18.0	14.7	1.6	0.5	2.2	2.8	1.8
	U	2	14.8	13.1	11.8	0.6	0.4	2.1	2.5	1.0
2C029002	L	1	0.8	0.0	0.4	0.6	0.0	0.0	1.4	0.7
	L	2	1.3	0.1	0.2	0.5	0.1	0.1	1.1	0.5
	U	1	0.9	0.0	0.2	0.5	0.0	0.0	1.1	1.5
	U	2	0.5	0.0	0.2	0.5	0.0	0.0	0.9	0.5
2C029016	L	1	2.4	0.6	1.0	0.9	0.4	0.2	1.4	1.2
	L	2	3.0	0.7	0.6	0.9	0.9	0.1	1.3	1.4
	U	1	7.2	1.4	1.7	1.0	1.4	0.7	1.5	3.3
	U	2	27.1	2.1	1.9	1.8	2.7	0.6	1.4	10.0

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
2C029020	L	1	7.0	4.7	5.5	0.8	0.1	1.1	1.4	1.1
	L	2	2.7	1.7	1.3	0.6	0.1	0.7	1.1	0.5
	U	1	1.6	1.0	1.3	0.9	0.0	0.4	1.4	1.5
	U	2	0.9	0.5	0.6	0.6	0.1	0.3	1.1	1.5
2C035010	L	1*	120.8	122.3	109.5	1.8	84.0	65.5	7.3	1.1
	L	2*	203.8	192.0	186.5	1.6	154.5	125.8	10.5	1.0
	U	1*	70.4	76.0	66.2	0.8	189.8	51.7	5.1	1.3
	U	2*	77.8	71.9	70.6	0.7	140.8	71.2	6.2	0.5
2C035011	L	1	3.5	0.2	0.6	0.6	0.0	0.8	0.7	0.3
	L	2	5.2	0.3	0.5	0.4	0.1	0.5	1.1	0.2
	U	1	0.8	0.3	0.5	0.7	0.0	0.6	0.8	0.4
	U	2	1.0	0.3	0.6	0.4	0.1	0.3	1.1	0.4
2C035016	L	1*	93.4	90.1	79.6	2.0	172.1	64.4	6.4	1.0
	L	2*	133.4	116.7	116.4	1.4	324.1	132.5	10.5	0.7
	U	1	7.1	1.7	1.3	0.7	0.4	6.9	2.1	1.0
	U	2	2.5	0.5	0.5	0.7	1.0	2.4	1.4	0.6
2C035024	L	1	4.5	0.4	0.9	0.8	0.4	1.0	3.5	1.8
	L	2	1.8	0.7	0.9	0.4	0.3	1.3	4.1	1.2
	U	1	9.5	0.2	0.7	0.7	0.9	1.9	3.7	2.1
	U	2	3.0	0.7	0.9	0.4	0.3	0.7	4.4	1.6
2C035027	L	1	2.0	0.7	0.7	0.8	0.1	0.5	3.3	1.1
	L	2	1.3	0.4	0.5	0.4	0.2	0.4	3.4	0.8
	U	1	0.0	1.0	0.5	0.6	0.2	0.9	3.3	1.0
	U	2	4.6	0.7	0.9	0.3	0.3	1.1	3.5	1.5
2C035035	L	1*	91.6	42.2	21.7	1.5	105.2	23.5	7.1	1.2
	L	2*	171.6	132.7	99.5	2.7	132.5	32.9	10.6	0.7
	U	1	14.0	1.1	3.1	0.9	0.0	6.2	3.6	1.0
	U	2	29.1	1.2	0.7	0.4	0.1	5.5	3.5	1.1
2C035041	L	1*	132.7	110.3	19.7	1.8	252.4	6.3	5.2	0.7
	L	2*	240.9	70.0	67.3	1.1	2.0	7.9	5.8	0.9
	U	1	1.8	1.0	1.9	0.9	1.1	0.3	3.9	1.7
	U	2	3.9	1.2	1.4	0.6	0.9	0.1	4.7	1.7
2C035047	L	1	5.7	4.4	1.1	1.0	0.0	1.2	2.3	0.7
	L	2	6.9	1.9	0.7	0.4	0.1	1.2	2.2	0.9
	U	1	0.7	0.1	0.5	0.7	0.3	0.2	1.2	0.6
	U	2	2.6	0.2	0.5	0.4	0.6	0.2	1.5	0.6
2C035049	L	1	2.2	0.3	0.6	0.8	0.1	0.2	1.9	0.7
	L	2	1.9	0.3	0.7	0.7	0.2	0.1	1.9	0.7
	U	1	4.7	0.1	0.5	0.7	0.1	0.2	1.5	0.7
	U	2	3.8	0.1	0.4	0.3	0.1	0.0	1.5	0.7
2C036001	L	1	4.1	0.1	0.5	0.7	0.3	0.1	1.6	1.4
	L	2	7.0	0.2	0.3	0.6	0.4	0.1	1.8	1.1
	U	1	0.8	0.1	0.5	1.5	0.2	0.1	1.9	1.2
	U	2	1.9	0.2	0.2	0.5	0.2	0.0	1.8	0.6
2C040003	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2C040006	L	1	5.3	0.2	0.6	0.7	0.1	7.7	2.3	1.2
	L	2	2.6	0.3	0.7	0.3	0.1	12.0	3.0	1.0
	U	1	5.2	0.2	0.7	0.6	1.4	1.5	1.7	1.9
	U	2	9.6	0.1	0.4	0.3	1.8	5.0	1.8	2.0

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
2C041001	L	1	10.5	0.5	1.0	0.6	0.0	2.9	3.5	0.8
	L	2	2.4	0.6	0.8	0.4	0.1	1.9	3.7	0.6
	U	1	10.4	0.7	0.9	0.2	0.0	2.9	3.4	0.8
	U	2	5.9	0.8	0.6	0.5	0.0	2.8	3.4	0.8
2C041002	L	1	12.0	0.3	0.9	0.4	0.2	0.3	2.4	1.3
	L	2	4.6	0.3	0.4	0.3	0.2	0.1	2.6	0.9
	U	1	11.2	2.9	3.1	1.1	2.7	1.9	2.3	2.8
	U	2	17.6	3.3	3.1	2.2	2.1	2.2	2.3	4.0
2C041005	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2C041007	L	1	4.5	0.7	1.0	0.7	0.1	0.6	0.6	1.0
	L	2	3.4	0.4	0.6	0.6	0.2	0.2	2.9	0.8
	U	1	5.5	0.3	0.7	0.3	0.1	0.3	2.5	0.9
	U	2	5.0	0.1	0.7	0.5	0.1	0.2	2.7	0.8
2C041014	L	1	3.0	0.3	1.0	0.3	0.4	0.3	1.8	0.9
	L	2	2.6	0.6	0.7	0.5	0.4	0.4	1.9	0.7
	U	1	2.2	0.4	0.9	0.2	0.2	0.2	1.8	0.7
	U	2	2.0	0.6	0.7	0.2	0.2	0.2	1.9	1.1
2C041016	L	1	21.5	0.1	1.3	0.3	0.3	0.2	2.3	1.5
	L	2	16.6	0.4	0.5	0.6	0.2	0.3	2.3	1.1
	U	1	8.6	0.1	0.8	0.1	1.0	3.9	2.3	1.9
	U	2	10.6	0.1	0.6	0.6	1.0	0.4	2.6	2.3
2C041027	L	1*	.	.	.	.	.	.	.	.
	U	1	7.8	0.4	0.7	0.2	2.0	4.5	3.0	1.5
	U	2	3.3	0.2	0.7	0.6	0.2	4.4	4.0	1.9
2C041029	L	1	23.4	17.6	16.6	1.1	1.2	2.5	2.5	1.2
	L	2	18.1	16.5	15.4	1.1	0.6	2.5	2.4	2.4
	U	1	7.7	5.6	5.5	0.8	0.1	2.2	1.6	1.2
	U	2	8.4	6.0	5.7	0.8	0.2	1.9	1.5	3.0
2C041033	L	1*	10.7	9.5	8.0	0.5	0.3	1.7	2.1	0.9
	L	2*	34.5	34.1	33.6	0.8	0.3	6.4	3.3	1.3
	U	1	5.9	0.9	1.8	0.4	0.0	0.4	1.5	0.5
	U	2	.	0.5	0.9	0.7	0.0	4.2	.	.
2C041035	L	1	16.9	0.3	0.5	0.7	2.3	0.7	1.8	2.7
	L	2	9.7	0.2	0.6	0.7	1.6	1.2	1.9	1.8
	U	1	27.0	0.3	0.9	0.6	2.0	0.8	1.8	3.1
	U	2	21.2	0.4	0.7	0.6	1.6	1.3	2.0	2.3
2C041036	L	1	2.6	0.1	0.6	0.8	0.8	0.9	2.5	0.7
	L	2	8.1	0.3	0.7	0.5	0.6	1.2	2.5	1.4
	U	1	1.3	0.1	0.3	0.5	0.1	0.0	1.5	1.0
	U	2	1.4	0.2	0.5	0.3	0.1	0.0	1.8	1.3
2C041037	L	1*	111.2	101.2	105.8	1.2	5.9	52.8	8.7	1.0
	L	2*	152.0	161.2	152.2	2.2	1.7	66.1	11.3	1.5
	U	1*	120.8	112.3	105.5	1.7	9.9	51.0	7.8	1.1
	U	2*	172.3	183.5	148.7	2.8	0.3	6.4	12.4	1.3
2C041039	L	1	0.8	0.0	0.4	0.5	0.1	0.1	1.1	0.5
	L	2	1.1	0.0	0.4	0.2	0.1	0.0	1.2	0.6
	U	1	1.2	0.0	0.4	0.5	0.1	0.1	1.1	0.6
	U	2	1.8	0.0	0.4	0.2	0.1	0.1	1.2	0.5

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
2C041040	L	1	2.3	0.1	0.6	0.6	0.1	0.1	1.1	0.7
	L	2	2.1	0.0	0.4	0.2	0.1	0.2	1.1	0.5
	U	1	1.3	0.1	0.5	0.6	0.0	0.0	1.1	1.1
	U	2	1.3	0.0	0.6	0.3	0.1	0.0	1.1	0.5
2C041043	L	1	1.9	0.1	0.6	0.4	0.2	0.2	2.1	2.0
	L	2	.	0.0	0.6	0.4	0.4	0.4	.	.
	U	1	1.4	0.1	0.6	0.3	0.1	0.1	1.1	1.3
	U	2	2.3	0.0	0.4	0.3	0.2	0.1	1.2	0.9
2C041045	L	1	1.6	0.0	0.4	0.6	0.1	0.0	1.1	0.7
	L	2	1.1	0.1	0.5	0.4	0.1	0.1	1.2	0.5
	U	1	1.1	0.0	0.3	0.6	0.1	0.0	1.1	0.8
	U	2	0.7	0.0	0.4	0.5	0.0	0.0	1.2	0.5
2C041051	L	1	11.2	10.7	9.2	1.9	0.3	1.3	1.8	2.0
	L	2	9.4	5.7	6.3	1.4	0.2	1.1	1.7	2.0
	U	1	19.6	20.4	17.8	1.7	0.3	2.4	2.0	2.2
	U	2	17.3	13.3	13.9	2.3	0.8	1.5	1.8	2.6
2C046004	L	1*	105.3	0.4	0.7	0.8	2.2	0.9	2.7	3.8
	L	2	3.0	0.3	0.5	0.7	1.7	2.1	3.9	4.7
	U	1*	131.9	0.8	0.6	0.7	1.4	1.4	3.0	4.8
	U	2	3.3	0.9	0.5	0.7	1.2	2.2	5.1	4.8
2C046005	L	1	9.9	0.1	0.5	0.7	0.3	0.0	1.4	1.2
	L	2	7.5	0.2	0.2	0.6	0.3	0.1	1.2	0.9
	U	1	9.1	0.1	0.5	0.8	0.5	0.1	1.3	1.3
	U	2	4.8	0.2	0.3	0.6	0.1	0.1	1.1	2.3
2C046009	L	1	3.8	0.3	0.4	0.5	0.1	0.0	1.5	1.4
	L	2	4.0	0.1	0.4	0.3	0.4	0.1	1.7	1.3
	U	1	16.5	0.5	0.5	0.5	1.0	0.0	2.4	1.8
	U	2	15.9	0.1	0.6	0.4	0.4	0.0	2.3	1.4
2C046011	L	1*	19.7	0.1	0.6	0.7	0.3	0.3	1.7	1.1
	L	2	0.7	0.2	0.7	1.1	0.7	0.5	2.0	0.8
	U	1*	18.2	0.3	0.5	0.7	0.4	0.3	1.9	1.5
	U	2	0.9	0.3	0.7	0.9	0.5	0.5	2.1	0.9
2C046013	L	1	7.1	0.0	0.6	0.7	0.8	0.1	1.1	0.7
	L	2	2.0	0.1	0.6	0.4	0.1	0.1	1.3	0.7
	U	1	5.6	0.0	0.5	1.1	0.4	0.1	1.2	0.9
	U	2	1.9	0.1	0.5	0.3	0.3	0.1	1.3	0.7
2C046015	L	1	6.6	0.4	0.9	0.6	0.3	6.6	2.4	0.6
	L	2	24.1	0.5	0.7	0.6	0.1	5.2	2.7	0.5
	U	1	6.9	2.3	1.8	0.7	0.0	1.6	2.7	0.8
	U	2	1.9	0.1	0.7	0.6	11.6	9.3	3.9	0.8
2C046016	L	1	16.8	0.4	0.4	0.8	2.6	0.2	2.4	1.9
	L	2	2.0	0.1	0.6	0.4	0.4	0.7	2.5	2.2
	U	1	54.9	0.4	0.4	0.8	1.3	0.0	1.9	2.6
	U	2	8.7	0.1	0.6	0.4	0.3	0.0	1.9	1.3
2C046017	L	1	23.8	1.8	1.2	0.8	0.6	2.7	2.9	1.5
	L	2	11.4	1.4	0.9	0.3	0.2	3.1	3.8	0.9
	U	1	8.9	0.1	0.5	0.6	0.7	0.1	1.7	1.4
	U	2	3.6	0.4	0.6	0.4	0.4	0.1	1.9	1.0
2C046018	L	1	7.8	0.6	0.5	0.5	0.1	2.4	2.1	0.8
	L	2	4.3	0.4	0.7	0.5	0.1	1.9	2.2	0.8
	U	1	5.3	1.0	0.5	0.5	0.0	1.4	1.6	0.9
	U	2	4.5	0.6	0.8	0.3	0.3	1.9	1.9	0.9

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
2C046021	L	1*	737.5	0.1	0.7	0.7	0.6	0.2	1.8	1.2
	L	2	8.7	0.4	0.9	1.2	0.1	0.1	1.9	1.1
	U	1	24.8	0.0	0.5	0.7	0.1	0.0	1.9	0.9
	U	2	7.7	0.3	0.9	0.7	0.1	0.0	2.3	0.6
2C046023	L	1	22.8	0.2	0.5	1.3	0.5	0.9	1.8	1.0
	L	2	6.9	0.9	0.8	0.3	1.3	0.9	2.7	1.3
	U	1*	78.9	0.0	0.4	0.9	0.1	0.1	1.6	1.1
	U	2	7.8	0.2	0.4	0.7	0.1	0.0	1.8	0.6
2C046030	L	1	6.6	0.3	0.7	0.7	0.1	7.8	2.8	0.8
	L	2	20.8	0.2	0.6	0.5	0.4	3.2	2.9	1.0
	U	1	0.9	0.1	0.3	0.5	0.3	0.2	0.3	0.3
	U	2	0.7	0.1	0.4	0.3	0.0	0.0	0.8	0.2
2C046031	L	1	3.1	0.5	0.7	0.6	1.3	4.2	2.0	1.9
	L	2	6.0	0.3	0.7	0.5	0.9	4.4	2.6	2.1
	U	1	2.7	0.7	1.1	0.6	1.8	2.3	2.0	1.6
	U	2	2.1	0.2	0.7	0.4	0.4	3.7	2.7	1.6
2C046033	L	1	2.0	0.6	1.0	1.0	0.1	0.1	1.3	0.7
	L	2	1.1	0.0	0.6	0.4	0.0	0.1	1.2	0.5
	U	1	2.6	0.8	1.1	0.9	0.0	0.1	1.5	0.6
	U	2	2.0	0.6	0.8	0.5	0.0	0.1	1.2	0.4
2C046034	L	1	3.8	2.7	2.5	1.2	0.1	0.5	1.4	1.2
	L	2	2.9	1.8	1.7	0.0	0.1	0.3	1.5	2.4
	U	1	18.9	3.0	13.0	2.7	0.3	1.7	1.7	2.0
	U	2	14.5	13.6	8.8	2.5	0.3	2.0	1.6	1.4
2C046041	L	1	15.3	0.1	0.5	0.8	0.6	0.0	1.7	1.9
	L	2	9.8	0.2	0.4	0.7	0.2	0.0	1.8	1.5
	U	1	28.6	1.6	1.7	1.1	1.1	3.1	1.6	2.0
	U	2	16.4	1.7	1.4	0.2	1.0	5.0	1.8	2.3
2C046043	L	1	7.1	3.9	2.7	2.0	0.6	1.1	1.6	1.4
	L	2	5.6	2.4	1.1	0.5	0.6	0.7	1.5	1.1
	U	1	8.6	7.4	4.2	1.1	0.6	1.2	1.6	1.5
	U	2	6.2	2.9	1.9	0.0	0.6	0.9	1.5	1.5
2C046046	L	1	2.2	0.0	0.5	1.0	0.0	0.0	1.8	0.8
	L	2	0.6	0.1	0.7	0.3	0.1	0.0	1.9	0.6
	U	1	2.2	0.0	0.6	0.6	0.0	0.0	2.4	1.0
	U	2	5.9	0.1	0.7	0.4	0.1	0.0	2.5	0.7
2C046047	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2C046048	L	1	2.3	0.0	0.5	1.0	0.1	0.0	2.1	1.3
	L	2	1.6	0.1	0.4	0.4	0.1	0.0	2.1	2.8
	U	1	6.1	0.1	0.5	0.7	0.2	0.0	1.1	0.8
	U	2	3.9	0.1	0.4	0.5	0.1	0.0	1.0	0.7
2C046050	L	1	0.9	0.1	0.5	0.5	25.2	10.4	0.9	1.0
	L	2	1.4	0.1	0.6	0.4	28.1	13.6	1.4	0.3
	U	1	2.0	1.2	1.1	0.5	0.3	0.1	0.8	0.4
	U	2	2.0	0.9	1.2	0.7	0.0	0.3	1.3	0.5
2C046052	L	1	2.0	0.2	0.9	0.6	0.2	3.9	3.4	0.7
	L	2	1.8	0.3	0.6	0.1	0.2	3.1	3.1	2.2
	U	1	2.1	0.2	0.8	1.0	0.3	5.0	3.5	0.7
	U	2	2.1	0.2	0.7	0.5	0.2	4.2	3.2	0.8

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
2C046053	L	1	1.4	0.5	0.6	0.9	0.1	0.2	1.4	0.6
	L	2	2.6	0.2	0.4	0.6	0.1	0.3	1.3	0.7
	U	1	1.6	0.4	0.7	1.3	0.1	0.2	1.4	0.5
	U	2	2.6	0.3	0.5	0.7	0.1	0.3	1.3	0.5
2C046055	L	1	4.3	0.4	1.0	0.8	0.0	0.0	2.1	2.0
	L	2	5.7	0.5	1.1	1.1	0.0	0.0	2.0	1.4
	U	1	4.0	0.0	0.7	0.8	0.1	0.0	2.4	1.7
	U	2	4.1	0.1	0.9	1.2	0.0	0.0	2.4	0.7
2C046062	L	1	3.7	0.1	0.4	0.5	2.5	0.7	1.7	1.7
	L	2	5.7	0.4	0.5	0.4	2.2	1.0	1.9	1.5
	U	1	9.7	0.1	0.1	0.6	1.9	1.4	2.4	1.8
	U	2	10.4	0.2	0.7	0.4	3.6	1.4	2.6	1.1
2C046063	L	1	3.4	0.5	1.1	0.7	1.0	1.2	3.1	3.9
	L	2	22.9	0.2	1.0	0.5	1.7	3.9	3.2	5.3
	U	1	48.9	0.4	0.7	0.5	1.1	7.2	3.4	5.0
	U	2	7.1	0.9	0.6	0.4	1.0	8.3	2.9	1.9
2C047004	L	1	1.5	0.0	0.5	0.5	0.2	0.2	1.3	0.7
	L	2	8.0	0.1	0.5	0.8	2.3	1.1	1.3	1.2
	U	1	1.4	0.0	0.5	0.6	0.1	0.0	1.3	0.7
	U	2	1.4	0.1	0.5	0.6	0.1	0.0	1.5	0.6
2C047007	L	1	1.3	0.1	0.5	0.6	0.1	0.1	1.2	0.9
	L	2	1.0	0.1	0.4	0.6	0.2	0.1	1.1	1.2
	U	1	1.7	0.1	0.5	0.6	0.0	0.0	0.9	0.9
	U	2	1.6	0.1	0.5	0.6	0.1	0.0	0.9	1.2
2C047010	L	1	1.6	0.1	0.6	0.6	0.0	0.0	0.9	0.6
	L	2	1.3	0.1	0.5	3.5	0.1	0.0	0.8	0.7
	U	1	1.0	0.1	0.5	0.6	0.0	0.0	0.9	0.8
	U	2	1.1	0.1	0.5	0.5	0.1	0.0	0.8	0.7
2C057004	L	1	1.6	0.3	0.6	0.6	0.4	0.9	1.6	0.6
	L	2	5.4	1.1	1.1	0.6	0.3	0.9	1.6	0.8
	U	1	10.2	1.5	1.5	0.5	0.3	0.8	1.5	1.4
	U	2	9.0	2.0	2.3	0.7	0.2	1.3	1.6	0.8
2C057011	L	1	1.4	0.0	0.4	0.7	0.2	0.0	1.9	2.0
	L	2	1.7	0.1	0.6	0.6	0.3	0.0	2.1	1.7
	U	1	0.7	0.0	0.6	0.6	0.2	0.0	2.1	1.9
	U	2	2.2	0.1	0.4	0.4	0.2	0.1	1.7	1.5
2C066013	L	1	10.6	0.1	0.7	0.1	7.7	8.0	3.8	1.9
	U	1	6.1	0.1	0.7	0.5	3.2	13.3	2.4	1.1
2C066017	L	1	2.4	1.1	1.2	0.6	0.1	7.3	7.3	1.1
	U	1	2.7	0.1	0.9	0.6	0.0	0.2	4.7	1.1
2C066022	L	1	5.6	0.9	1.3	0.8	0.5	1.2	4.7	1.5
	U	1*	118.2	107.5	103.4	2.4	5.2	65.3	13.9	1.2
2C066026	L	1	6.0	0.5	0.7	0.9	0.5	1.1	1.4	1.3
	U	1	12.5	0.2	0.7	0.8	0.3	0.2	1.5	1.3
2C066027	L	1	6.8	0.7	0.8	0.5	0.3	1.1	1.3	1.7
	U	1	4.7	3.6	3.1	0.9	0.4	0.5	1.1	1.4
2C066038	L	1	5.9	0.1	0.6	0.8	1.3	0.1	2.0	0.9
	U	1	7.8	0.1	0.6	0.7	2.1	1.2	1.7	2.3
2C066039	L	1	10.4	0.4	0.7	0.7	0.7	0.5	1.3	1.7
	U	1	1.6	0.1	0.6	0.6	2.1	1.7	1.6	2.8

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
2C067001	L	1*	3.4	1.3	2.0	0.2	0.4	3.0	12.0	1.4
	U	1*	4.6	1.4	2.0	0.8	0.3	4.1	10.4	1.6
2C077007	L	1	1.9	0.1	0.5	0.7	0.8	0.2	1.8	1.9
	U	1	1.9	0.4	0.8	1.6	2.0	0.1	1.8	1.7
2C077022	L	1	1.7	0.0	0.5	1.3	1.1	1.0	1.9	1.0
	U	1	9.1	0.3	0.5	0.8	0.7	0.3	1.2	0.9
2C077023	L	1	3.3	0.1	0.5	0.7	0.1	0.2	3.0	0.9
	U	1	17.6	0.4	0.6	0.7	1.2	0.5	1.7	1.8
2C077024	L	1	3.2	0.1	0.8	0.9	0.1	0.2	2.6	0.7
	U	1	3.7	0.0	0.5	0.7	0.1	0.1	2.1	1.0
2C088002	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2C088003	L	1	3.4	0.1	0.4	0.6	0.5	0.5	1.7	1.0
	U	1	8.2	1.7	1.8	0.5	0.1	0.8	2.5	0.9
2C088004	L	1	7.5	0.7	0.4	0.7	2.5	0.2	2.6	3.3
	U	1	33.9	2.0	1.4	1.9	8.2	0.9	3.1	11.6
2D072004	L	1	32.2	0.3	0.6	0.8	2.1	0.2	3.3	3.6
	U	1	51.9	0.1	0.6	0.7	2.5	0.1	4.1	3.0
2D072013	L	1	58.6	0.8	0.8	1.2	6.2	4.0	3.9	6.7
	U	1	62.3	0.5	0.3	0.6	4.5	0.1	2.9	3.2
2D073003	L	1	14.0	0.2	0.2	0.3	7.6	0.0	1.6	1.0
	U	1	14.2	0.3	0.3	0.4	2.8	0.0	1.3	1.0
2D073004	L	1	20.8	0.2	0.3	0.4	3.2	0.0	1.6	0.8
	U	1	23.4	0.3	0.2	0.4	3.3	0.0	1.6	1.0
2D073009	L	1	12.2	0.2	0.3	0.8	0.2	0.1	1.4	1.2
	U	1	40.0	0.7	0.4	0.8	0.4	0.7	1.2	1.7
2D073024	L	1	6.6	0.0	0.3	0.4	0.4	0.0	3.8	0.6
	U	1	5.9	0.1	0.3	0.4	0.3	0.0	1.4	0.6
2D073025	L	1	1.8	0.2	0.2	0.4	0.6	0.2	0.9	0.4
	U	1	1.9	0.1	0.2	0.4	1.1	0.0	1.0	0.4
2D073026	L	1	11.1	0.1	0.1	0.3	0.2	0.0	1.5	0.5
	U	1	8.4	0.1	0.1	0.3	0.3	0.0	1.7	0.5
2D073027	L	1	12.1	0.1	0.5	0.4	0.2	0.1	1.5	0.7
	U	1	11.0	0.4	0.4	0.4	0.1	0.3	1.1	0.4
2D073029	L	1	2.0	0.0	0.4	0.5	1.0	0.6	1.2	0.5
	U	1	5.6	0.2	0.5	0.3	0.3	0.1	1.4	0.9
2D073036	L	1	14.6	0.2	0.3	0.8	0.2	0.1	1.5	0.8
	U	1	12.1	0.3	0.3	0.8	0.3	0.1	1.4	0.9
2D073044	L	1	3.9	0.0	0.4	0.6	1.5	0.1	2.2	1.4
	U	1	5.0	2.9	2.9	0.8	0.2	1.4	4.7	1.2
2D073048	L	1	12.6	0.1	0.3	0.6	1.1	0.3	1.6	0.8
	U	1	2.1	0.0	0.3	0.6	0.4	0.5	1.3	0.8
2D073052	L	1	3.8	0.2	0.2	0.4	0.4	0.1	0.5	0.4
	U	1	2.9	0.2	0.3	0.6	0.8	0.0	0.9	0.9

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
2D073053	L	1	5.8	0.2	0.4	0.6	0.8	0.2	1.1	0.8
	U	1	3.3	0.3	0.4	0.6	0.6	0.1	1.1	0.5
2D073057	L	1*	89.7	0.0	0.9	0.7	0.1	0.1	11.3	4.1
	U	1	1375.0	0.8	1.2	0.9	4.7	0.7	7.2	11.6
2D073066	L	1	4.6	0.3	0.5	0.7	1.6	0.5	1.6	1.4
	U	1	2.8	0.3	0.4	0.6	1.6	0.1	1.4	1.4
2D073075	L	1	30.6	0.1	0.3	0.8	0.6	0.2	1.9	1.3
	U	1	31.3	0.3	0.3	0.8	0.2	0.1	1.8	0.8
2D073080	L	1	25.7	0.6	0.4	0.7	2.5	0.8	1.6	2.1
	U	1	26.5	0.5	0.4	1.1	1.3	0.9	1.5	2.6
2D073086	L	1	46.3	0.3	0.6	0.7	4.6	0.0	4.7	2.1
	U	1	6.6	0.4	0.3	0.7	3.4	0.2	2.6	3.0
2D073092	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2D073099	L	1	22.5	0.1	0.3	0.4	1.9	0.2	1.7	1.9
	U	1	14.9	0.2	0.4	0.5	2.8	2.3	1.8	2.2
2D073100	L	1	28.2	0.4	0.5	0.7	1.5	0.0	1.6	1.9
	U	1	56.0	0.4	0.4	0.6	0.4	0.1	1.7	2.1
2D073106	L	1	36.2	0.9	0.5	0.3	4.5	2.5	1.7	3.5
	U	1	31.1	1.2	0.5	0.4	4.7	2.3	1.8	3.4
2D074006	L	1	2.0	0.0	0.1	0.3	1.5	0.3	1.4	1.1
	U	1	6.4	0.1	0.1	0.3	0.4	0.1	1.5	0.8
2D074009	L	1	1.7	0.2	0.4	0.6	0.6	0.2	1.0	0.9
	U	1	1.6	0.4	0.4	0.6	0.6	0.0	1.0	0.8
2D074012	L	1	97.5	0.6	0.6	0.6	3.0	5.4	3.9	9.5
	U	1	21.1	0.2	0.4	0.5	1.6	2.2	1.8	2.2
2D083027	L	1	14.6	0.7	2.4	0.3	2.5	0.1	2.8	4.9
	U	1	33.9	1.7	0.5	0.9	0.6	0.0	1.6	3.9
2D083039	L	1	2.3	0.5	0.1	0.4	1.3	0.0	1.1	1.1
	U	1	14.3	0.3	0.3	0.2	0.3	0.0	0.9	0.6
2D083076	L	1	11.2	0.4	0.6	1.2	1.7	0.0	1.4	2.7
	U	1	41.3	1.0	0.9	0.7	3.7	0.3	1.2	4.1
2D083081	L	1	105.6	0.2	0.3	0.2	2.1	0.0	1.6	3.8
	U	1	438.8	1.0	0.8	0.3	3.0	0.4	1.6	4.5
2D083086	L	1	7.4	0.3	0.5	0.7	6.8	0.1	2.4	2.5
	U	1	9.0	1.0	0.5	0.2	1.0	0.0	1.7	2.5
2D083096	L	1	27.5	0.3	0.6	0.6	0.7	0.1	3.7	5.9
	U	1	17.7	0.6	1.2	1.4	6.6	3.9	1.9	21.0
2D083098	L	1	32.5	0.9	0.8	1.2	10.4	2.2	1.7	4.1
	U	1	1.7	1.0	0.8	0.5	0.1	0.7	2.2	0.4
2D084013	L	1	19.6	0.6	0.6	1.0	2.8	0.7	1.8	4.0
	U	1	16.8	0.4	0.4	0.9	1.8	0.9	1.8	2.8
2D084022	L	1	6.0	0.5	0.3	0.6	2.1	0.0	1.8	0.8
	U	1	1.9	0.4	0.4	0.6	1.3	0.0	1.4	0.5

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
2D084025	L	1	79.3	0.6	0.4	0.6	3.9	0.0	1.1	1.1
	U	1	30.9	0.5	0.4	0.6	1.6	0.1	1.4	0.9
2D084033	L	1	19.3	0.3	0.2	0.5	0.9	0.0	1.1	0.8
	U	1	10.9	0.2	0.4	0.5	0.7	0.0	0.8	1.2
2D084041	L	1	0.3	0.2	0.3	0.3	0.5	0.0	2.3	0.7
	U	1	0.3	0.4	0.2	0.2	0.3	0.0	2.8	0.9
2D084051	L	1	0.1	0.0	0.1	0.2	0.2	0.0	1.8	0.0
	U	1	0.4	0.2	0.3	0.1	0.6	0.0	1.4	0.4
2D084052	L	1	0.1	0.3	0.3	0.4	0.1	0.0	3.3	1.0
	U	1	0.2	0.5	0.3	0.4	1.2	0.1	2.9	1.6
2D084054	L	1	1.0	0.3	0.4	0.4	0.8	0.0	5.6	1.1
	U	1	1.0	0.2	0.5	0.2	0.2	0.4	0.7	0.4
2D084058	L	1	0.6	0.1	0.4	0.5	0.3	0.0	3.2	1.0
	U	1	1.0	0.3	0.5	0.6	0.8	0.3	3.2	0.8
2D084077	L	1	10.7	0.2	0.6	0.3	1.5	0.0	1.7	1.4
	U	1	76.1	0.3	0.5	0.3	1.5	0.0	1.6	1.9
2D084079	L	1	40.4	0.2	0.5	0.2	3.3	0.1	1.3	1.6
	U	1	5.4	0.4	0.4	0.4	2.0	0.5	1.2	2.1
2D084082	L	1	3.6	0.1	0.5	0.7	1.9	0.2	2.0	1.4
	U	1	13.1	0.4	0.6	0.7	7.1	4.3	2.6	4.7
2D093005	L	1	49.3	0.8	0.8	0.6	12.3	1.6	1.4	9.2
	U	1	116.4	1.6	2.5	2.7	5.5	0.6	1.6	11.8
2D093007	L	1	1.4	0.1	0.3	0.2	0.6	0.0	1.4	1.3
	U	1	4.6	0.1	0.4	0.3	0.5	0.2	1.1	1.4
2D093008	L	1	1.8	0.0	0.5	0.4	1.1	0.9	1.3	1.6
	U	1	28.5	1.2	1.0	1.1	6.6	0.9	1.6	3.3
2D094009	L	1	5.5	0.3	2.4	1.1	3.9	0.6	5.8	12.9
	U	1	51.0	0.5	0.7	0.2	15.1	0.8	6.5	9.1
3A058013	L	1	1.0	0.1	0.5	1.1	0.2	0.1	3.6	0.7
	U	1	0.9	0.1	0.5	1.1	0.4	0.1	3.7	0.8
3A058014	L	1	1.6	0.1	0.7	0.5	0.6	0.1	4.2	0.9
	U	1	2.1	0.1	0.6	0.5	0.4	0.3	5.2	0.7
3A068007	L	1	15.0	0.1	0.6	0.4	1.7	0.5	2.2	1.0
	U	1	7.1	0.1	0.6	0.4	1.6	0.2	2.0	1.1
3A068012	L	1	15.4	0.1	0.4	0.4	1.6	0.3	2.0	0.9
	U	1	14.3	0.3	0.4	0.5	1.5	0.2	1.8	0.6
3A068020	L	1	9.0	0.2	0.4	0.4	1.3	0.7	2.3	1.3
	U	1	24.0	0.3	0.5	0.3	1.9	0.2	1.8	1.5
3A069003	L	1	7.7	0.1	1.1	0.4	2.3	0.4	2.8	1.0
	U	1	7.3	0.1	0.5	1.0	1.9	0.5	2.8	1.2
3A079012	L	1	9.0	0.2	0.3	0.3	1.4	0.1	1.7	1.0
	U	1	7.0	0.4	0.4	0.5	1.0	0.2	1.8	1.2
3A086009	L	1	5.7	0.6	0.2	0.2	1.1	1.3	1.7	2.3
	U	1	5.3	0.1	0.3	0.2	1.4	1.5	1.7	2.2

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
3A086010	L	1	1.1	0.2	0.5	2.2	0.9	1.9	1.4	1.2
	U	1	2.4	2.3	0.6	0.7	0.5	1.0	0.7	1.0
3A086015	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3A086024	L	1	5.3	0.2	0.1	0.3	1.1	2.0	1.3	1.3
	U	1	2.6	0.3	0.2	0.4	0.4	0.6	1.1	1.1
3A087008	L	1	2.8	0.3	0.2	0.3	0.7	1.9	1.4	1.4
	U	1	5.0	0.0	0.4	0.2	0.9	1.7	1.3	1.0
3A088006	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3A088012	L	1	2.5	0.2	0.5	0.7	1.8	0.1	1.6	1.7
	U	1	7.4	0.0	0.5	0.7	1.1	0.1	1.6	1.4
3A088022	L	1	0.9	0.1	0.4	0.5	6.1	1.7	2.2	1.6
	U	1	3.9	0.0	0.3	0.4	3.6	1.2	2.3	1.8
3A088025	L	1	53.0	0.7	0.3	0.4	2.5	0.3	2.3	1.6
	U	1	2.0	0.0	0.5	0.5	8.7	8.1	1.9	0.8
3A088028	L	1	4.6	0.0	0.2	0.4	0.6	1.8	2.3	0.9
	U	1	1.9	0.0	0.2	0.6	0.8	2.1	1.9	0.8
3A089002	L	1	5.4	0.0	0.4	0.3	2.4	1.9	2.8	0.9
	U	1	37.8	0.0	0.3	0.4	0.7	0.4	1.8	1.0
3A089004	L	1	2.0	0.3	0.4	0.9	2.4	0.3	1.2	1.2
	U	1	4.9	0.2	0.2	0.6	1.5	0.5	1.1	1.5
3A089013	L	1	15.4	0.2	0.2	0.7	2.5	1.5	3.0	2.1
	U	1	9.2	0.4	0.9	1.0	4.2	2.1	3.0	2.5
3A089024	L	1	11.4	0.1	0.4	0.4	4.9	0.8	2.2	2.4
	U	1	10.2	0.1	0.5	0.4	1.6	0.3	2.2	1.3
3A089068	L	1	16.3	0.0	0.0	0.3	1.4	3.6	2.2	2.1
	U	1	2.4	0.1	0.1	0.4	1.2	1.1	2.2	0.8
3A089086	L	1	15.8	0.2	0.2	0.5	2.1	0.4	0.6	0.9
	U	1	9.5	0.2	0.2	0.5	0.4	0.3	0.9	0.5
3A097026	L	1	25.2	0.5	0.6	0.4	0.9	2.2	0.9	1.9
	U	1	2.1	0.3	0.5	0.1	0.7	1.0	0.9	1.2
3A097029	L	1	19.8	0.1	0.5	0.3	0.6	0.0	1.7	0.5
	U	1	48.1	0.3	0.7	0.3	1.9	1.3	1.1	2.2
3A097031	L	1	3.9	0.8	1.0	0.2	1.6	2.7	0.9	5.3
	U	1	25.4	0.8	0.5	0.6	1.2	1.7	0.9	2.6
3A098011	L	1	8.3	0.0	0.4	0.7	9.7	1.9	2.4	1.6
	U	1	3.7	0.0	0.4	0.9	2.0	0.1	2.4	1.0
3A098025	L	1	1.6	0.7	0.4	0.2	1.8	0.0	1.3	1.1
	U	1	6.6	0.7	0.5	0.1	0.4	0.1	1.1	0.8
3A098034	L	1	4.9	0.4	0.4	0.7	1.5	0.3	1.3	2.2
	U	1	1.5	0.2	0.4	0.6	1.7	0.9	0.9	1.2
3A098038	L	1	10.6	0.5	0.4	0.6	5.2	1.8	3.2	2.1
	U	1	13.5	0.5	0.4	0.6	6.2	1.3	3.9	2.0

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
3A098039	L	1	3.4	0.0	0.5	0.5	2.7	5.5	5.1	1.3
	U	1	6.8	0.3	0.3	0.6	5.9	0.5	3.2	5.0
3A098069	L	1	14.8	0.3	0.4	0.6	2.7	2.5	2.3	1.2
	U	1	1.9	0.1	0.3	0.5	3.4	2.3	2.3	1.6
3A098075	L	1	8.1	2.2	0.7	0.6	4.4	3.7	2.0	1.4
	U	1	49.1	0.8	0.4	0.6	2.8	4.7	1.4	4.0
3A098078	L	1	6.5	0.2	0.6	0.7	4.5	3.3	9.9	3.0
	U	1	12.5	0.2	0.4	0.5	4.0	5.6	8.7	2.7
3A098082	L	1	3.3	0.2	0.6	0.2	4.9	2.0	1.7	3.3
	U	1	2.5	0.2	0.6	0.2	4.2	3.5	1.4	2.4
3A099019	L	1	4.5	0.0	0.1	0.4	6.8	6.1	4.5	5.4
	U	1	18.6	0.3	0.2	0.4	6.4	8.8	3.8	3.5
3A099027	L	1	21.8	0.1	0.4	0.4	5.2	1.7	3.5	2.1
	U	1	36.1	0.1	0.3	0.4	6.4	7.4	2.1	3.1
3A099037	L	1	15.5	0.1	0.4	0.5	3.2	4.1	5.7	2.9
	U	1	13.3	0.4	0.6	0.7	3.9	0.7	6.2	4.2
3A099051	L	1	24.3	0.0	0.4	0.4	4.9	2.3	3.9	2.3
	U	1	9.0	0.1	0.3	0.4	5.4	5.7	3.8	2.2
3A099052	L	1	6.4	0.2	0.2	0.5	4.7	7.8	3.4	2.5
	U	1	6.8	0.2	0.2	0.5	3.6	4.9	3.0	1.9
3A099062	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3A106008	L	1	16.4	0.5	0.6	0.3	1.8	2.7	0.9	0.9
	U	1	9.3	0.4	0.5	0.1	2.0	2.4	1.0	1.1
3A106020	L	1	47.3	0.7	0.7	0.3	2.2	8.0	1.3	8.7
	U	1	0.0	0.6	0.3	0.4	1.2	10.5	0.9	5.3
3A106023	L	1	0.4	0.5	0.6	0.4	0.5	0.7	0.7	1.7
	U	1	7.3	0.3	0.6	0.9	0.8	0.6	0.8	1.3
3A106029	L	1	16.9	0.5	0.2	0.3	1.7	0.3	2.1	1.9
	U	1	1.5	0.3	0.1	0.4	0.4	0.7	1.9	1.3
3A106035	L	1	2.8	0.5	0.6	0.1	1.1	1.1	1.1	2.4
	U	1	12.3	0.4	0.4	0.4	0.6	0.6	0.6	1.2
3A107010	L	1	31.0	0.2	0.3	0.5	4.7	3.7	2.2	3.1
	U	1	5.5	0.3	0.3	0.5	7.4	4.3	2.4	3.6
3A107034	L	1	14.7	0.8	0.4	0.3	6.1	3.4	3.8	3.2
	U	1	11.0	0.6	0.8	0.7	3.7	2.7	2.6	2.0
3A107037	L	1	15.8	0.3	0.7	0.3	3.3	7.9	2.1	2.3
	U	1	5.6	0.6	0.4	0.4	3.7	2.4	2.7	3.1
3A107041	L	1	3.7	0.5	0.3	0.3	1.6	1.0	1.7	1.5
	U	1	1.9	0.5	0.1	0.4	2.4	4.7	1.5	1.4
3B036002	L	1	7.3	0.5	.	.	0.4	0.4	2.2	3.2
	L	2	4.5	2.0	1.1	0.6	0.0	0.2	1.9	3.2
	U	1	7.6	4.8	.	.	0.5	1.3	1.8	1.9
	U	2	5.4	4.8	4.8	1.7	0.1	0.8	1.6	1.8

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
3B037006	L	1	0.3	0.1	0.2	0.1	0.5	0.9	9.4	1.8
	L	2	0.4	0.4	0.4	0.6	1.2	0.9	10.1	1.1
	U	1	1.0	0.2	0.5	0.4	1.0	0.9	8.4	1.2
	U	2	1.0	1.0	0.3	0.5	8.8	1.0	8.6	1.2
3B037023	L	1	10.2	6.6	8.6	5.2	13.9	0.4	2.5	18.7
	L	2	7.1	6.8	9.1	5.2	15.9	0.3	1.7	15.8
	U	1	5.6	3.1	2.5	1.0	3.2	2.8	3.0	3.6
	U	2	3.1	3.0	2.1	1.1	2.8	3.7	2.9	3.4
3B037024	L	1	7.9	6.2	7.4	2.5	4.3	0.5	2.5	8.0
	L	2	4.9	6.2	4.9	2.4	3.8	0.5	1.8	4.6
	U	1	38.9	34.0	35.7	3.0	8.9	0.2	4.4	9.0
	U	2	45.8	54.8	24.3	8.9	11.8	0.5	4.1	10.1
3B042006	L	1	8.4	0.1	.	.	1.6	1.1	1.5	0.7
	L	2	1.2	0.5	0.5	1.0	0.7	0.4	1.1	0.4
	U	1	10.4	0.2	.	.	0.7	1.1	1.8	1.3
	U	2	1.5	0.4	0.4	0.9	0.3	0.0	1.8	1.1
3B042010	L	1	3.5	0.1	.	.	0.2	0.1	1.6	0.8
	L	2	0.4	0.4	0.4	0.8	0.1	0.2	1.3	0.6
	U	1	2.3	0.1	.	.	0.8	0.5	1.6	1.2
	U	2	0.6	0.7	0.5	0.8	0.0	0.2	1.3	0.8
3B042017	L	1	3.9	0.1	.	.	0.4	0.6	1.8	1.1
	L	2	1.1	0.3	0.5	0.7	0.2	0.0	1.6	1.2
	U	1	3.5	0.0	.	.	0.3	0.4	1.6	0.6
	U	2	0.6	0.2	0.5	0.6	0.0	0.0	1.3	0.5
3B042036	L	1	2.5	0.1	0.5	0.7	2.2	1.9	2.9	3.5
	L	2	0.4	0.3	0.5	0.1	2.7	2.2	3.1	1.7
	U	1	7.0	0.1	0.5	0.2	0.9	0.1	2.8	2.3
	U	2	2.7	0.7	0.4	0.2	1.7	0.2	3.5	1.9
3B042041	L	1	1.6	0.3	0.6	0.7	4.8	3.3	3.3	3.6
	L	2	4.5	0.7	0.4	0.5	5.1	5.1	4.0	3.5
	U	1	3.7	0.2	0.6	1.1	5.0	2.7	3.6	3.0
	U	2	2.4	0.3	1.1	1.2	2.2	4.3	3.6	2.9
3B042042	L	1	3.1	0.0	0.4	0.8	2.0	1.3	2.3	3.1
	L	2	1.9	0.9	0.4	0.3	3.0	1.0	3.0	2.3
	U	1	3.2	0.1	0.4	0.7	1.5	1.1	2.2	1.6
	U	2	1.5	0.4	0.4	0.2	3.0	0.9	2.8	2.3
3B043001	L	1	6.4	0.3	.	.	0.5	0.3	2.2	2.0
	L	2	0.9	0.3	0.6	0.6	0.0	0.4	1.9	1.3
	U	1	1.7	0.1	.	.	0.5	0.7	1.4	2.5
	U	2	1.7	0.7	0.4	0.7	0.1	0.0	1.1	1.0
3B043010	L	1	13.9	9.6	9.4	2.7	6.0	0.8	2.3	5.7
	L	2	8.7	8.7	7.7	1.9	2.6	0.9	2.2	3.7
	U	1	14.2	9.0	8.1	2.2	5.2	0.8	2.2	5.0
	U	2	9.3	6.9	6.6	1.5	2.0	0.8	2.0	3.4
3B043012	L	1	14.6	2.3	3.2	1.1	17.1	0.3	2.1	15.8
	L	2	12.1	11.0	12.0	6.1	13.0	0.7	2.0	10.4
	U	1	27.2	20.7	.	.	9.3	2.1	4.2	15.2
	U	2	18.8	14.4	18.1	9.7	26.1	0.5	2.0	19.0
3B043021	L	1	4.2	2.4	1.5	1.3	1.5	0.4	1.8	2.7
	L	2	2.0	1.5	1.0	1.0	1.9	0.4	1.8	2.0
	U	1	3.6	2.0	1.6	1.2	4.3	0.5	1.5	1.5
	U	2	1.6	1.9	1.1	0.8	3.9	1.0	1.3	1.1

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
3B043023	L	1	5.5	5.2	6.0	1.7	5.0	0.2	1.3	6.3
	L	2	3.1	5.1	3.4	1.3	4.7	0.2	0.6	2.4
	U	1	29.1	25.6	19.2	9.9	12.2	0.5	4.7	31.2
	U	2	27.9	23.6	23.7	13.9	12.7	0.7	4.5	31.9
3B043024	L	2	5.6	5.9	4.5	2.5	1.3	0.1	1.2	6.0
	U	1	17.5	12.2	14.0	3.7	2.1	0.2	2.4	7.9
	U	2	16.7	12.7	16.4	6.1	2.1	0.0	2.3	7.7
3B043032	L	1	4.1	3.1	3.7	2.5	2.9	0.4	1.7	5.3
	L	2	3.9	1.6	1.4	1.4	2.4	0.3	1.8	3.6
	U	1	11.7	5.9	6.8	2.1	5.6	0.6	3.5	7.9
	U	2	9.2	5.7	6.4	4.1	6.2	0.7	3.2	8.9
3B043033	L	1	6.9	6.4	.	.	7.2	0.5	2.3	7.0
	L	2	7.7	5.9	5.9	1.9	7.9	0.5	1.8	4.8
	U	1	13.1	7.0	.	.	7.3	0.3	2.3	6.2
	U	2	8.6	6.7	7.5	2.8	8.0	0.0	2.5	8.7
3B043034	L	1	7.1	5.6	8.4	3.0	15.3	0.3	2.0	12.2
	L	2	5.1	4.6	6.3	3.2	13.8	0.2	1.2	8.9
	U	1	13.9	14.2	12.8	3.0	8.8	0.5	2.7	11.6
	U	2	7.8	7.6	8.0	2.8	4.4	0.4	1.4	5.6
3B043035	L	1	8.5	7.3	6.8	1.5	9.6	0.2	1.4	3.4
	L	2	5.5	6.4	6.5	1.1	4.2	0.2	1.0	2.1
	U	1	8.1	6.3	6.2	2.0	9.7	0.2	1.4	3.8
	U	2	7.4	8.4	6.5	1.3	7.4	0.3	1.0	2.4
3B043053	L	1	2.1	1.0	0.6	1.0	0.4	2.1	2.1	1.3
	L	2	5.7	0.1	0.3	0.6	0.7	1.7	2.2	1.1
	U	1	5.1	1.6	1.1	0.4	0.4	0.6	1.5	1.0
	U	2	16.3	1.1	1.1	0.5	1.1	0.7	1.6	1.6
3B043055	L	1	9.6	5.9	6.0	3.0	5.5	0.2	2.3	7.0
	L	2	8.4	4.6	5.1	3.1	5.1	0.2	2.3	6.0
	U	1*	8.3	1.4	0.4	0.6	136.3	2.2	3.4	8.4
	U	2*	12.2	3.7	2.0	2.1	37.6	2.0	5.9	13.9
3B043061	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3B043067	L	1	3.2	1.8	1.5	1.4	0.7	0.2	1.2	3.8
	L	2	1.6	1.2	1.2	0.9	0.5	0.1	0.8	2.0
	U	1	6.7	1.6	1.6	1.1	1.0	0.6	2.8	4.7
	U	2	3.7	3.7	1.0	0.8	1.6	0.8	2.8	4.0
3B043077	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3B043079	L	1	21.1	6.5	6.7	5.9	9.2	1.1	2.9	17.1
	L	2	11.7	2.9	2.3	2.1	5.7	0.7	2.4	8.9
	U	1	40.2	13.6	7.9	9.7	14.7	1.1	3.2	22.4
	U	2	21.5	14.1	8.8	3.0	28.8	1.9	4.3	23.6
3B047003	L	1	9.6	0.2	0.9	0.4	1.2	1.4	5.0	2.4
	L	2	1.9	0.5	0.3	0.8	3.6	1.6	5.5	2.4
	U	1	6.9	0.2	0.1	0.5	1.9	0.5	2.3	1.7
	U	2	1.6	0.4	0.4	0.6	2.3	0.5	2.7	1.6
3B048023	L	1	4.9	0.4	0.5	0.5	1.0	0.8	5.6	2.4
	L	2	2.5	0.7	0.4	0.6	1.6	2.1	6.0	2.5
	U	1	10.3	8.9	7.4	0.8	1.4	1.7	6.0	1.4
	U	2	6.5	6.7	7.0	1.4	1.2	1.3	6.3	1.8

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
3B048029	L	1	73.4	0.6	0.4	0.5	5.7	0.3	4.1	8.4
	L	2	24.1	1.5	0.6	0.8	4.6	0.5	6.4	9.6
	U	1	73.8	1.7	0.5	0.6	5.9	0.7	3.0	8.4
	U	2	74.5	1.3	1.1	1.0	10.8	7.2	5.2	12.4
3B048034	L	1	4.6	2.3	1.8	1.2	21.3	4.6	2.3	5.4
	L	2	9.3	4.9	8.9	3.7	95.4	5.8	3.6	19.3
	U	1	10.9	1.9	0.9	0.7	1.1	1.3	3.1	1.9
	U	2	13.9	1.3	0.9	0.8	2.1	0.7	8.4	5.0
3B048046	L	1	4.6	0.5	0.5	0.5	3.7	1.2	23.2	6.0
	L	2	3.4	1.0	1.5	1.0	5.1	0.5	27.4	5.1
	U	1	2.0	0.1	0.4	0.5	20.2	5.5	3.9	1.9
	U	2	0.8	0.4	0.5	0.8	18.7	6.6	4.0	1.5
3B048063	L	1	6.8	0.7	0.2	0.4	6.6	0.9	1.5	2.7
	L	2	1.9	1.1	0.5	0.8	1.5	0.5	1.1	2.0
	U	1	3.0	0.3	0.5	0.6	3.0	1.0	1.3	1.9
	U	2	1.9	0.6	0.7	1.0	2.6	0.3	1.3	2.3
3B048065	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3B048082	L	1	8.1	3.2	2.0	0.8	2.0	1.5	2.1	1.9
	L	2	7.5	3.4	2.0	1.1	0.9	1.0	2.0	3.1
	U	1	5.3	3.3	2.6	0.6	1.7	1.0	1.5	1.3
	U	2	2.7	3.2	2.4	0.7	1.6	1.2	1.4	1.1
3B048094	L	1	10.9	0.3	0.5	0.4	4.5	3.9	2.6	4.1
	L	2	2.2	1.0	0.2	0.8	1.0	6.7	3.5	3.5
	U	1	8.7	0.6	1.7	0.9	2.5	3.9	2.3	2.6
	U	2	5.4	0.7	0.3	0.8	3.2	3.2	2.7	3.3
3B048101	L	1	5.4	0.2	0.8	0.3	1.4	1.0	1.8	2.4
	U	1	4.4	1.8	1.1	0.7	4.1	0.6	1.3	1.8
	U	2	3.6	2.2	1.8	1.4	2.4	0.1	1.0	1.9
3B049010	L	1	3.1	2.1	1.6	1.5	1.4	0.3	2.7	6.5
	L	2	0.6	0.4	0.7	0.7	0.5	0.2	2.0	2.8
	U	1	4.9	2.4	2.7	1.9	1.2	0.3	2.7	6.0
	U	2	1.3	0.7	1.1	0.9	0.1	0.5	2.1	2.8
3B049011	L	1	3.0	1.0	1.1	0.9	0.9	0.0	2.3	4.1
	L	2	2.5	0.8	1.0	0.8	2.2	0.0	1.7	3.1
	U	1	1.9	1.4	1.3	0.7	0.2	0.3	1.1	2.6
	U	2	1.5	0.7	1.2	0.7	0.1	0.2	1.0	2.0
3B049022	L	1	0.8	0.6	1.2	1.0	0.3	0.2	1.5	3.4
	L	2	1.1	0.3	0.7	0.8	0.2	0.4	1.4	2.3
	U	1	2.2	1.3	1.8	1.3	1.0	0.1	1.7	5.0
	U	2	1.6	0.8	1.0	0.9	1.6	0.0	2.0	4.2
3B049031	L	1	24.7	16.6	15.8	9.1	6.8	1.2	3.2	22.7
	L	2	21.2	15.5	14.3	10.2	7.7	1.3	3.1	24.5
	U	1	25.8	15.7	15.2	2.3	1.5	2.2	6.0	9.9
	U	2	19.1	16.9	16.7	2.2	1.3	2.7	7.3	7.3
3B058021	L	1	4.3	2.2	1.2	0.5	1.4	1.2	1.8	1.0
	L	2	4.1	1.6	1.0	0.8	0.7	1.6	1.7	0.9
	U	1	2.0	0.1	0.5	0.4	1.2	2.2	1.7	1.1
	U	2	1.9	0.4	0.5	0.7	4.7	6.0	1.3	1.0

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
3B058023	L	1	2.3	0.2	0.1	0.4	6.6	4.5	4.1	3.2
	L	2	2.2	0.3	0.4	0.7	7.1	7.5	4.3	4.1
	U	1	3.2	0.2	0.3	0.5	3.0	0.3	2.9	2.8
	U	2	1.7	0.2	0.5	0.7	4.7	0.8	3.1	2.1
3B059007	L	1	13.4	1.3	1.1	0.6	21.8	3.4	3.4	5.9
	L	2	4.3	0.6	0.5	1.1	9.4	4.8	3.6	5.7
	U	1	12.4	1.0	0.9	1.0	23.7	4.6	1.7	7.5
	U	2	9.5	2.1	1.5	1.2	61.7	10.2	2.5	7.5
3B059009	L	1	14.0	2.1	1.7	1.4	5.5	1.2	1.2	8.2
	L	2	10.7	2.7	3.1	2.3	7.2	2.3	1.7	9.5
	U	1	12.1	3.0	2.7	1.1	5.3	1.2	1.2	6.1
	U	2	15.9	5.0	5.5	3.1	9.4	1.7	1.4	8.8
3B059013	L	1*	58.2	1.4	0.8	0.9	10.2	1.5	2.8	7.3
	L	2	4.2	1.9	1.5	1.2	6.4	0.2	1.3	3.4
	U	1	6.9	4.4	3.2	1.2	2.7	1.6	1.5	2.8
	U	2	6.6	5.5	4.1	2.0	2.2	0.4	1.0	3.4
3B059029	L	1	14.5	0.8	0.8	0.6	7.2	0.9	3.1	5.0
	L	2	1.9	0.6	0.6	0.9	20.3	0.9	3.2	4.1
	U	1	11.6	3.6	3.9	1.7	13.3	2.0	2.6	8.0
	U	2	12.3	6.7	5.9	2.5	15.4	2.7	2.8	8.5
3B059034	L	2	1.9	0.9	0.2	0.2	9.0	7.7	7.5	3.8
	U	1	27.0	7.4	6.8	3.5	7.0	0.7	3.2	10.7
	U	2	26.8	8.4	5.2	3.1	7.8	0.7	2.5	6.0
3B059038	L	2	0.9	0.8	0.5	0.4	15.1	1.9	3.9	6.5
	U	1	3.8	0.1	0.5	1.1	15.1	2.1	3.6	5.3
	U	2	1.8	0.5	0.4	0.4	43.8	3.4	4.1	5.6
3B059073	L	1*	9.6	0.1	0.6	1.0	7.4	2.5	3.0	5.5
	L	2	2.8	1.0	0.4	0.3	8.1	2.8	2.6	4.8
	U	1*	451.7	3.2	2.6	1.9	13.4	4.5	3.8	11.4
	U	2	25.6	1.4	0.5	0.5	4.3	32.1	3.3	6.2
3B059075	L	1	31.8	0.3	0.4	0.8	4.3	0.3	3.4	4.6
	U	1	28.4	0.2	0.4	0.9	3.0	1.8	3.5	4.8
3B059080	L	1	2.0	0.3	0.6	1.0	8.2	2.2	3.6	5.0
	L	2	1.7	0.1	0.3	0.3	6.9	16.1	3.1	5.7
	U	1	3.0	0.5	0.4	1.0	4.8	1.1	3.3	4.6
	U	2	1.5	0.6	0.3	0.4	5.7	2.2	3.4	5.5
3B059090	L	1*	.	.	.	.	.	.	.	.
	U	1*	1.7	1.8	0.5	0.5	0.3	0.2	4.9	2.7
3B059105	L	1	0.8	0.1	0.4	0.2	2.2	1.6	5.3	2.7
	L	2	2.1	0.2	0.4	0.4	2.6	1.6	5.1	2.5
	U	1	4.1	2.1	1.4	1.9	35.0	3.5	2.7	0.5
	U	2	2.5	1.1	1.7	0.3	31.6	3.3	2.5	0.3
3B070004	L	2	29.2	12.3	10.7	5.3	19.3	1.2	1.7	26.5
	U	1	9.1	7.7	9.3	7.2	14.2	1.0	1.5	16.6
	U	2	26.0	14.9	16.3	8.6	32.9	0.9	1.7	24.2
3B070009	L	1	0.0	0.4	0.9	0.8	5.8	0.4	3.3	5.2
	L	2	1.5	0.4	0.9	0.7	5.3	0.5	3.0	3.9
	U	1	4.2	2.1	1.1	1.3	9.7	1.0	3.2	7.5
	U	2	4.8	0.5	0.9	0.9	12.6	1.0	3.3	7.3

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
3B070015	L	1	14.8	5.7	5.9	3.9	4.6	0.2	1.0	8.9
	L	2	18.2	7.3	8.1	3.2	7.7	0.2	1.0	11.8
	U	1	13.8	4.3	7.7	4.2	5.3	0.2	1.1	7.7
	U	2	21.0	12.4	8.1	3.6	10.4	0.1	1.2	14.4
3B070024	L	1	5.4	3.8	3.9	2.0	2.8	0.6	4.6	3.8
	L	2	11.6	4.9	3.1	2.1	3.5	1.0	4.1	5.7
	U	1	10.4	8.0	5.5	2.4	2.1	0.7	5.4	2.6
	U	2	9.5	5.0	4.1	1.3	2.0	0.9	5.1	3.3
3B070043	L	1	31.9	5.3	5.3	4.0	14.1	1.0	5.1	26.1
	L	2	32.1	6.9	2.8	2.7	14.3	0.8	5.5	32.8
	U	1	32.2	4.1	2.5	1.8	18.7	0.7	5.1	25.9
	U	2	34.5	7.8	3.6	2.8	10.5	1.3	5.5	35.5
3B070050	L	1	38.9	.	8.4	4.4	11.0	0.5	4.5	13.5
	L	2	68.2	5.8	4.9	2.4	17.7	0.5	5.9	18.5
	U	1	32.5	9.7	7.2	4.1	10.1	0.5	4.4	13.8
	U	2	45.2	5.1	4.5	2.6	14.6	0.9	6.2	19.3
3B070058	L	1	26.7	3.4	5.8	3.5	21.3	0.9	3.7	19.3
	L	2	29.5	6.5	6.8	5.0	23.6	4.0	4.1	24.9
	U	1	22.4	3.8	4.6	3.0	11.0	1.7	4.5	14.3
	U	2	18.6	3.1	1.6	1.3	11.6	1.5	5.1	9.4
3B070059	L	1	3.4	0.4	1.0	0.8	12.9	0.5	5.3	8.1
	L	2	7.2	1.1	1.4	1.5	17.1	1.3	5.1	13.6
	U	1	34.0	15.3	20.2	13.6	23.5	0.3	2.6	21.7
	U	2	48.6	24.8	20.0	6.6	29.9	0.4	3.2	29.1
3B070075	L	1	8.8	1.7	2.6	1.5	12.4	0.8	5.7	14.3
	L	2	10.9	1.9	1.2	1.5	19.2	1.0	5.9	14.7
	U	1	24.4	4.4	3.8	2.9	40.6	1.1	5.6	14.6
	U	2	26.9	4.9	2.9	1.8	16.2	1.6	5.9	17.7
3C123008	L	1	10.8	1.6	0.4	0.5	3.9	0.1	1.1	4.2
	U	1	9.0	1.6	1.2	1.3	0.0	0.1	0.9	4.0
3C123009	L	1	2.2	0.6	0.8	0.5	0.6	0.1	0.6	0.6
	U	1	1.4	0.3	0.6	0.5	0.1	0.1	0.0	0.5
3C123010	L	1*	.	.	.	.	.	.	.	.
	U	1*	0.8	0.3	0.4	0.6	0.1	0.1	0.7	0.4
3C123011	L	1	2.3	0.5	0.6	0.2	0.3	0.1	0.7	1.4
	U	1	2.1	0.7	0.6	0.2	0.1	0.0	0.6	0.6
3C123013	L	1	28.4	3.0	2.0	0.4	5.8	0.3	1.3	8.6
	U	1	7.2	3.2	2.5	0.5	3.4	0.2	0.9	4.5
3C123016	L	1	4.6	0.3	0.8	0.6	0.6	0.1	0.0	1.4
	U	1	2.3	0.3	0.6	0.5	0.0	0.1	0.0	0.2
3C123017	L	1	1.8	0.5	0.6	0.9	0.6	0.0	0.0	1.9
	U	1	2.2	1.5	1.1	0.5	0.0	0.1	0.0	0.4
3C123018	L	1	2.5	0.8	0.7	0.9	0.6	0.1	0.6	1.4
	U	1	2.5	0.3	1.0	0.9	0.3	0.0	0.0	0.8
3C124001	L	1	23.2	0.6	0.8	0.5	10.8	5.7	2.4	6.2
	U	1	17.3	3.1	3.8	0.6	7.1	1.7	1.1	14.1
3C124002	L	1	1.9	0.4	0.9	0.4	1.3	0.5	1.5	0.9
	U	1*	.	.	.	.	.	.	.	.

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
3C124003	L	1	19.2	11.4	11.8	0.5	17.3	1.3	1.0	24.9
	U	1*	.	.	.	.	.	.	.	.
3C124006	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C124010	L	1*	.	.	.	.	.	.	.	.
	U	1	23.4	5.5	8.6	1.9	11.4	1.1	1.0	17.4
3C124012	L	1	13.5	1.5	1.8	1.5	2.9	3.0	1.0	4.4
	U	1*	.	.	.	.	.	.	.	.
3C124015	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C124018	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C124019	L	1	12.3	1.7	2.0	1.8	2.9	0.9	1.0	5.7
	U	1	20.4	1.4	1.4	1.3	2.4	0.8	1.5	4.3
3C124020	L	1	9.5	1.6	2.0	2.0	1.7	0.3	0.8	2.8
	U	1	4.9	1.0	1.4	1.5	0.7	0.2	0.6	1.5
3C124021	L	1	5.5	2.2	2.6	2.0	1.6	0.2	0.7	6.5
	U	1	5.2	2.5	3.2	2.5	2.1	0.1	0.8	9.9
3C124023	L	1	3.7	0.4	0.9	0.9	2.3	0.5	2.6	6.1
	U	1	3.2	0.2	0.8	1.1	9.2	1.3	2.6	8.1
3C124025	L	1	19.4	0.8	0.8	0.9	0.8	0.2	3.2	2.1
	U	1	6.7	0.8	0.9	0.7	0.5	0.3	5.3	2.4
3C124026	L	1	7.2	2.0	1.6	1.2	3.0	7.2	7.3	3.6
	U	1	4.6	2.3	1.6	1.1	2.8	0.2	3.7	9.3
3C124028	L	1	34.5	1.2	0.9	1.1	5.5	1.4	4.1	7.7
	U	1	22.3	1.2	1.0	0.8	19.2	1.7	4.3	11.1
3C124032	L	1	1.4	0.4	0.7	0.6	0.1	0.1	0.6	0.9
	U	1	1.3	0.4	0.5	0.6	0.1	0.0	0.6	0.5
3C124034	L	1	13.5	1.6	1.5	1.2	1.4	0.5	1.2	3.2
	U	1*	.	.	.	.	.	.	.	.
3C124036	L	1	25.9	0.4	0.8	0.8	2.4	1.1	1.2	2.9
	U	1	5.3	1.0	1.2	0.9	0.1	0.1	0.6	0.7
3C124038	L	1	2.2	0.5	1.1	1.3	0.4	0.1	0.7	2.7
	U	1	2.1	0.5	1.1	1.4	0.3	0.1	0.7	2.5
3C124045	L	1	1.8	0.6	0.9	0.8	0.6	0.2	1.2	1.5
	U	1*	.	.	.	.	.	.	.	.
3C124047	L	1	10.9	2.7	2.7	2.2	7.3	0.1	2.1	8.5
	U	1*	.	.	.	.	.	.	.	.
3C124049	L	1*	.	.	.	.	.	.	.	.
	U	1	14.3	6.0	4.8	3.6	11.5	0.2	1.6	16.2
3C124050	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C124052	L	1	3.4	0.9	1.3	1.3	1.4	0.1	0.8	4.3
	U	1*	.	.	.	.	.	.	.	.

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-3. Aluminum, other metals, and dissolved organic carbon (continued)

RCH_ID	NODE	SAMPLE	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
3C125002	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C125003	L	1	8.6	2.8	4.1	2.7	4.4	0.1	5.1	39.3
	U	1	9.5	3.0	6.8	5.1	5.4	0.1	0.8	70.3
3C126003	L	1	4.7	2.0	1.9	1.3	2.7	0.0	3.1	6.8
	U	1	5.5	1.9	2.7	1.8	2.7	0.1	3.1	7.5
3C132004	L	1	13.8	1.0	2.2	1.9	3.9	0.2	3.5	19.4
	U	1	14.1	1.5	2.3	2.4	3.9	0.2	3.2	18.5
3C132006	L	1*	.	.	.	.	.	.	.	.
	U	1	33.5	5.0	7.5	6.8	14.7	0.5	2.6	46.6
3C132009	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C132011	L	1	6.4	1.3	2.4	2.0	2.8	0.2	1.5	12.1
	U	1	15.4	5.9	9.7	8.4	16.8	0.2	2.3	88.9
3C133001	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C133002	L	1	9.3	3.6	3.5	1.3	7.3	0.0	2.8	16.7
	U	1	7.6	3.0	3.6	2.2	7.6	0.0	2.9	12.3
3C133003	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C133005	L	1	7.8	2.6	3.8	3.1	5.2	0.1	2.6	9.4
	U	1	7.0	2.3	3.2	1.9	4.3	0.1	2.7	9.7
3C133008	L	1	2.7	0.7	1.4	1.2	1.8	0.1	2.4	3.8
	U	1	4.6	1.2	2.2	2.2	4.2	0.0	3.1	6.0
3C133011	L	1*	.	.	.	.	.	.	.	.
	U	1*	6.7	2.1	3.5	3.3	5.0	0.1	3.3	18.4
3C133013	L	1	8.8	3.0	6.9	4.3	11.9	0.1	1.5	4.4
	U	1	13.7	3.0	7.1	1.0	11.8	0.0	1.5	6.5
3C133024	L	1*	.	.	.	.	.	.	.	.
	U	1	19.5	6.2	10.2	9.4	13.4	0.0	0.8	171.0
3C133029	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C136032	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C136033	L	1	10.3	5.1	8.7	8.1	15.6	0.2	4.1	54.0
	U	1	8.1	3.3	7.4	6.9	15.2	0.5	4.1	65.0

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams.

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
1D022009	L	1	11.2	10.5	125	0.1	1.2	56.1	1.2	5
	L	2	10.6	8.7	186	0.1	1.0	27.8	0.4	10
	U	1	10.9	10.5	126	0.1	1.2	51.3	0.8	10
	U	2	9.8	9.8	180	0.0	0.9	36.6	0.3	10
1D022010	L	1	11.8	6.5	162	0.2	1.0	56.4	1.3	15
	L	2	11.1	11.2	202	0.1	1.1	35.6	0.7	15
	U	1	11.2	8.0	84	0.1	0.8	37.1	0.5	10
	U	2	9.7	10.5	118	0.1	1.3	12.8	1.3	10
1D022022	L	1	11.6	7.0	92	0.2	1.2	59.9	4.0	15
	L	2	9.3	14.8	134	0.2	1.4	23.5	5.2	5
	U	1	12.0	6.0	83	0.2	1.0	63.8	3.9	13
	U	2	10.4	13.2	109	0.1	1.1	37.9	1.9	5
1D024010	L	1	10.2	10.0	40	0.3	2.2	38.9	0.8	10
	L	2	10.4	10.4	47	0.3	1.1	47.3	0.6	10
	U	1	10.7	8.0	33	0.3	1.7	33.8	0.2	5
	U	2	11.0	7.3	35	0.3	1.3	47.3	0.2	5
1D024021	L	1	11.0	13.9	36	0.1	1.5	28.5	0.8	5
	L	2	10.4	11.9	39	0.1	0.9	35.3	0.6	10
	U	1	11.2	8.2	36	0.0	1.7	28.1	0.6	5
	U	2	10.3	11.9	38	0.1	1.0	35.3	0.5	5
1D025003	L	1	10.8	10.9	440	0.2	0.6	62.2	6.8	25
	L	2	10.3	11.9	492	0.1	1.6	74.1	2.5	10
	U	1	6.4	16.1	423	2.0	3.9	17.5	18.3	70
	U	2	4.9	15.0	494	3.0	31.3	52.4	2.7	40
1D029004	L	1	10.5	12.9	59	0.3	4.9	66.7	1.8	15
	L	2	10.4	11.5	67	0.3	1.0	61.4	2.7	20
	U	1	10.2	14.1	63	0.5	4.5	72.2	1.2	10
	U	2	9.2	11.8	61	0.4	1.3	86.5	4.5	15
1D029010	L	1	10.1	9.2	170	0.2	1.9	43.3	1.7	15
	L	2	13.3	18.2	205	0.3	0.5	22.6	4.8	25
	U	1	10.9	7.5	108	0.7	1.1	60.4	2.0	10
	U	2	10.4	12.0	147	0.4	0.9	45.9	2.2	20
1D029015	L	1*	11.0	8.9	77	0.0	1.4	79.2	0.3	5
	L	2*	9.7	14.0	85	0.1	4.2	188.6	0.2	10
	U	1	13.5	9.0	223	2.8	11.1	3.5	2.6	45
	U	2	10.8	19.5	364	1.8	1.9	14.3	9.7	85
1D029016	L	1*	11.3	6.7	467	0.0	2.0	130.7	0.4	5
	L	2*	10.2	10.7	619	0.2	1.2	157.8	0.1	5
	U	1	11.8	4.9	41	0.0	0.9	52.3	0.4	15
	U	2	10.2	10.7	35	0.1	1.3	37.1	0.6	20
1D029018	L	1	10.5	11.9	103	0.4	2.0	64.9	3.8	15
	L	2	11.3	12.9	120	0.3	1.1	62.7	2.4	20
	U	1	9.2	16.0	82	2.3	2.0	23.5	3.5	80
	U	2	8.0	12.2	106	3.3	3.0	48.3	4.5	80
1D029020	L	1	11.2	9.5	75	0.9	1.0	90.7	0.5	10
	L	2	10.7	12.8	85	0.3	1.5	84.5	0.3	5
	U	1	10.0	12.2	207	1.2	2.0	92.4	3.0	15
	U	2	7.0	15.0	232	2.1	8.6	101.2	3.0	15
1D029023	L	1	10.6	9.8	29	0.2	1.0	59.9	0.2	10
	L	2	9.8	13.0	30	0.0	0.7	54.1	0.2	5
	U	1	9.4	7.2	47	0.1	1.1	36.6	0.2	33
	U	2	7.8	14.0	43	0.1	0.8	34.5	0.3	30

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
1D029028	L	1	11.9	6.2	31	0.0	1.2	66.1	1.2	5
	L	2	10.8	10.0	27	0.1	1.0	70.4	1.2	0
	U	1	11.7	5.7	26	0.0	1.0	58.3	0.3	10
	U	2	10.4	10.5	31	0.0	0.9	67.2	5.3	5
1D029031	L	1	11.7	7.7	32	0.3	0.7	62.9	0.3	15
	L	2	10.6	11.2	32	0.1	0.5	57.3	5.4	15
	U	1	10.5	9.3	38	0.0	0.7	53.4	0.2	15
	U	2	9.8	10.3	41	0.2	1.0	56.4	0.2	15
1D029042	L	1	10.6	10.3	29	0.2	3.4	46.3	0.1	5
	L	2	11.4	10.0	28	0.1	1.0	43.8	0.1	10
	U	1	9.8	10.7	33	0.2	1.2	34.8	0.2	15
	U	2	8.6	13.2	28	0.0	1.2	13.3	0.2	15
1D029043	L	1	10.0	10.2	27	0.1	0.6	38.3	0.4	10
	L	2	9.4	11.1	25	0.1	0.7	32.8	0.4	10
	U	1	9.2	11.0	36	0.1	0.9	21.5	0.3	35
	U	2	9.0	9.2	30	0.2	1.4	32.8	0.5	50
1D029044	L	1	10.8	10.1	100	0.1	0.8	37.4	1.0	10
	L	2	10.4	11.5	102	0.2	0.8	35.0	1.0	15
	U	1	11.0	11.7	105	0.1	1.2	19.5	0.7	10
	U	2	8.6	15.3	107	0.2	3.2	8.2	.	20
1D029051	L	1	10.1	13.5	52	0.1	1.1	47.6	0.6	10
	L	2	10.2	14.3	57	0.1	0.9	44.3	0.2	5
	U	1	10.0	13.0	37	0.1	2.5	39.6	0.6	10
	U	2	10.6	12.5	42	0.1	0.9	42.4	0.2	10
1D029052	L	1	10.7	14.8	80	0.3	0.9	71.6	1.7	15
	L	2	10.3	15.0	88	0.4	2.4	84.9	1.8	20
	U	1	10.8	15.0	87	0.3	0.7	71.6	2.6	10
	U	2	9.8	14.2	91	0.5	1.7	86.5	1.8	20
1D029056	L	1	12.0	7.6	110	0.1	1.1	87.4	3.0	5
	L	2	9.5	13.5	123	0.2	2.7	66.1	2.7	10
	U	1	11.4	6.0	38	0.1	2.7	99.0	0.8	10
	U	2	9.1	13.0	40	0.0	0.4	116.5	1.1	15
1D029057	L	1	11.7	9.0	59	0.1	1.1	81.9	1.4	5
	L	2	10.8	15.8	77	0.6	4.1	53.3	0.8	10
	U	1	11.2	11.0	75	0.2	2.9	75.9	1.6	10
	U	2	9.9	16.2	60	0.2	0.7	54.1	1.0	15
1D030001	L	1	10.6	10.2	39	0.2	1.0	31.3	0.5	5
	L	2	10.8	10.0	49	0.2	1.2	37.6	0.2	10
	U	1	10.7	9.1	38	0.4	1.1	29.3	0.2	10
	U	2	10.3	9.7	44	0.3	1.1	49.6	0.1	5
1D030004	L	1	10.5	9.0	27	0.1	1.6	26.5	0.2	3
	L	2	10.2	10.5	29	0.2	0.7	36.4	0.2	5
	U	1	10.8	7.0	32	0.2	0.7	21.6	0.1	15
	U	2	10.3	8.5	32	0.1	0.6	35.6	0.2	10
1D030005	L	1	9.7	13.5	30	0.1	2.1	35.3	0.2	5
	L	2	9.7	15.2	31	0.2	1.8	39.8	0.2	10
	U	1	10.2	10.9	22	0.1	1.1	31.6	0.1	15
	U	2	9.3	10.3	24	0.1	0.9	34.0	0.2	10
1D030017	L	1	10.2	14.8	37	0.0	1.2	39.4	0.3	5
	L	2	10.6	11.0	40	0.1	0.9	40.9	0.3	5
	U	1	10.6	13.5	32	0.2	1.7	34.0	0.1	5
	U	2	10.4	12.8	33	0.1	0.8	39.8	0.1	5

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
1D030018	L	1	9.7	15.1	31	0.1	0.7	44.4	1.0	30
	L	2	8.9	16.8	32	0.2	0.8	52.4	1.4	35
	U	1	9.9	13.2	31	0.1	1.4	48.8	0.2	10
	U	2	10.0	10.9	35	0.1	1.3	59.4	0.3	10
1D030019	L	1	8.8	19.0	76	0.4	2.4	62.9	2.2	30
	L	2	9.4	18.2	101	0.5	2.3	73.1	1.9	20
	U	1	8.8	23.2	46	0.3	0.7	38.4	0.8	45
	U	2	9.0	24.1	49	0.4	1.4	48.4	1.4	35
1D030021	L	1	9.7	14.5	76	0.2	1.0	36.1	1.0	20
	L	2	10.1	15.1	87	0.2	1.3	28.3	0.4	20
	U	1	8.2	16.0	78	0.5	3.5	27.0	4.5	40
	U	2	5.4	17.8	75	1.3	4.2	24.3	2.3	40
1D030023	L	1	10.5	12.9	81	0.2	1.3	41.1	0.6	5
	L	2	10.7	10.0	96	0.2	1.4	54.4	0.6	10
	U	1	11.0	15.2	81	0.1	2.5	9.7	0.7	10
	U	2	7.3	13.5	82	0.4	3.6	9.4	9.6	23
1D030025	L	1	10.0	13.3	49	0.1	1.5	43.1	1.1	5
	L	2	10.6	13.6	57	0.3	1.1	39.1	0.5	0
	U	1	10.0	14.0	47	0.2	1.5	33.0	0.8	15
	U	2	9.5	17.0	56	0.3	0.9	35.3	1.0	25
1D030038	L	1	11.0	12.0	68	0.5	1.6	42.3	1.1	10
	L	2	10.6	11.5	77	0.6	1.4	44.4	0.9	15
	U	1	9.5	17.0	62	0.2	2.3	36.9	2.5	20
	U	2	8.8	17.0	68	0.2	1.9	22.8	3.0	25
1D030041	L	1	9.9	16.4	69	0.3	1.1	30.5	1.1	40
	L	2	10.1	16.5	75	0.5	1.9	27.3	1.1	40
	U	1	9.0	13.9	81	0.2	1.4	35.3	1.4	40
	U	2	9.3	14.9	82	0.5	1.0	22.5	1.6	40
1D030044	L	1	9.7	16.1	59	0.1	1.8	55.9	1.5	25
	L	2	9.6	16.7	74	0.2	1.3	65.6	1.3	30
	U	1	9.6	17.1	50	0.1	0.9	61.7	1.2	25
	U	2	9.7	15.0	66	0.1	3.2	64.4	1.7	35
1D030048	L	1	9.3	14.0	128	0.1	1.8	46.4	2.2	20
	L	2	10.2	18.5	132	0.2	2.1	36.8	1.5	25
	U	1	9.9	12.5	128	0.1	2.6	48.1	2.5	20
	U	2	9.5	14.8	134	0.2	4.5	44.6	4.0	30
1D030050	L	1	9.2	14.0	60	0.2	1.9	46.8	1.3	20
	L	2	7.7	12.3	83	0.3	2.0	39.6	1.8	15
	U	1	8.4	14.8	29	0.1	1.4	35.8	1.2	10
	U	2	8.7	13.7	32	0.2	1.7	40.8	2.3	25
1D030070	L	1*	11.1	9.5	457	20.2	89.0	67.2	15.9	30
	L	2*	9.0	15.0	575	41.6	154.4	40.1	5.6	50
	U	1*	11.4	10.5	350	14.7	53.0	46.4	4.7	30
	U	2*	8.1	24.0	570	42.3	168.3	50.5	6.0	40
1D030071	L	1	12.8	5.2	223	1.5	5.0	82.1	2.6	20
	L	2	12.2	10.8	239	0.7	0.8	57.5	3.6	30
	U	1	12.6	6.0	229	1.4	3.8	85.7	2.2	20
	U	2	13.0	13.0	243	0.6	1.0	67.9	2.5	30
1D030074	L	1	10.6	10.0	70	0.5	1.7	47.9	1.4	10
	L	2	10.2	8.5	81	0.1	0.7	48.3	0.4	15
	U	1	9.5	13.0	78	0.2	2.0	7.3	1.1	25
	U	2	7.6	12.1	80	0.3	7.1	3.7	1.2	25

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
1D030080	L	1	12.0	7.8	54	.	.	.	.	.
	L	2	10.6	10.1	53	0.3	1.0	57.6	1.1	30
	U	1	11.9	5.5	36	0.1	1.2	43.6	1.9	18
	U	2	10.6	10.9	35	0.1	0.7	38.3	1.3	15
1D030083	L	1	12.0	8.3	146	0.2	0.7	93.2	1.3	10
	L	2	12.0	10.1	162	0.0	0.7	81.3	1.5	15
	U	1	12.0	6.2	94	0.1	1.0	97.4	1.0	10
	U	2	11.3	12.0	115	0.1	0.9	109.8	2.1	10
1D030092	L	1	12.6	4.0	83	0.2	1.1	72.4	0.6	20
	L	2	11.1	11.5	82	0.2	0.3	66.0	0.7	5
	U	1	12.7	4.2	66	0.1	0.8	71.7	0.5	15
	U	2	10.8	12.4	67	0.1	0.3	67.1	0.7	15
1D030093	L	1	13.7	3.7	235	0.4	0.9	64.7	1.2	10
	L	2	13.1	11.5	234	0.5	0.6	38.4	1.2	25
	U	1	10.3	12.2	259	0.5	15.3	107.3	5.5	35
	U	2	10.4	15.0	215	0.6	1.3	46.5	2.6	30
1D031002	L	1	12.0	12.7	184	0.1	0.9	83.2	0.7	5
	L	2	10.4	13.9	204	0.1	1.0	72.4	0.7	10
	U	1	9.7	13.2	143	0.2	1.7	88.2	1.9	15
	U	2	10.0	12.4	155	0.1	1.4	93.2	0.7	10
1D031006	L	1	9.4	17.1	278	0.5	3.5	17.1	2.5	25
	L	2	8.8	17.0	276	0.5	2.1	20.0	2.5	40
	U	1	5.8	17.7	226	0.3	3.7	7.8	0.8	25
	U	2	5.9	17.5	229	0.4	2.6	12.6	1.7	40
1D031014	L	1	9.9	14.5	56	0.2	2.4	86.5	0.6	50
	L	2	9.5	12.7	62	0.3	1.7	119.0	1.1	45
	U	1	8.3	20.2	55	0.2	2.3	44.8	1.2	25
	U	2	8.1	22.0	56	0.2	2.0	43.3	0.4	10
1D036006	L	1	11.2	11.9	100	0.5	1.3	101.5	2.4	10
	L	2	10.5	17.0	98	0.5	2.7	108.2	1.4	15
	U	1	10.8	10.1	126	0.5	8.3	104.0	4.5	15
	U	2	9.8	16.0	83	0.4	0.7	124.0	1.4	10
1D036008	L	1	11.7	10.0	115	0.3	1.0	103.2	6.3	20
	L	2	10.2	12.9	112	0.5	2.5	91.2	6.6	20
	U	1	10.6	9.5	103	0.1	0.8	92.4	6.1	20
	U	2	9.8	12.8	98	0.1	1.0	123.7	5.1	20
1D036010	L	1	10.1	14.8	141	0.1	4.8	82.6	2.7	20
	L	2	8.5	19.9	129	0.2	3.7	92.9	1.8	20
	U	1	10.1	13.9	179	0.1	0.7	89.9	2.2	5
	U	2	9.1	15.5	174	0.2	1.7	103.7	4.5	15
1D036011	L	1	10.4	10.1	25	0.0	1.2	67.2	1.0	5
	L	2	10.2	11.9	19	0.0	1.7	54.1	1.2	10
	U	1	10.0	11.7	21	0.0	1.1	43.8	0.2	15
	U	2	9.9	10.1	17	0.0	1.4	61.1	0.3	10
1D036012	L	1	10.7	10.5	93	0.1	2.1	80.7	3.6	10
	L	2	9.0	16.1	93	0.2	1.7	83.2	2.5	15
	U	1	10.2	10.8	56	0.1	2.6	68.9	0.2	10
	U	2	10.0	11.1	69	0.1	0.7	69.1	0.3	10
1D036017	L	1	10.8	12.5	43	0.1	0.7	68.2	3.7	10
	L	2	10.4	13.0	44	0.1	0.9	70.6	1.0	10
	U	1	9.6	13.9	28	0.0	0.7	51.8	3.1	5
	U	2	8.6	17.8	29	0.1	1.9	48.3	1.9	15

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
1D037003	L	1	11.3	8.0	63	0.1	0.8	78.4	1.1	30
	L	2	10.6	10.4	59	0.2	1.5	69.8	1.6	40
	U	1	10.9	9.3	38	0.1	1.2	49.9	0.9	20
	U	2	9.2	12.0	35	0.1	1.8	38.5	0.9	20
1D037004	L	1	10.0	12.9	43	0.2	1.8	82.4	1.2	20
	L	2	10.2	11.2	44	0.2	1.0	84.0	1.5	20
	U	1	10.0	12.8	211	0.0	0.9	57.1	0.6	5
	U	2	10.5	11.9	181	0.1	1.0	54.3	1.0	10
1D037005	L	1	10.5	11.1	18	0.0	2.4	59.4	0.3	10
	L	2	10.7	11.0	16	0.0	0.7	61.9	0.3	20
	U	1	6.7	14.2	16	0.1	1.9	68.9	0.3	50
	U	2	6.2	11.9	16	0.5	0.6	79.9	0.3	65
1D037010	L	1	12.5	6.0	220	0.2	1.0	101.5	0.3	10
	L	2	11.6	9.8	239	0.3	0.8	39.2	0.3	10
	U	1	13.1	2.2	270	0.2	5.7	69.1	1.2	20
	U	2	10.8	9.0	290	0.4	2.4	69.2	1.0	35
1D037011	L	1*	12.2	9.5	481	0.4	1.5	82.9	1.2	20
	L	2*	9.4	9.8	496	0.5	2.4	74.5	1.1	40
	U	1*	12.6	7.8	561	0.6	2.3	79.7	1.7	20
	U	2*	11.9	10.1	572	0.4	2.0	56.0	3.1	20
1D037016	L	1	10.6	15.1	59	0.5	9.1	70.1	1.6	10
	L	2	10.3	12.2	58	0.2	2.2	74.9	1.9	15
	U	1	10.6	11.9	60	0.3	4.3	83.1	1.8	10
	U	2	10.7	13.6	58	0.5	1.3	72.9	1.8	20
1D037020	L	1	12.2	8.0	235	1.9	3.0	76.4	0.6	10
	L	2	12.4	9.0	246	2.7	2.0	57.0	0.7	20
	U	1	12.3	10.0	228	2.4	4.4	73.2	0.6	10
	U	2	12.6	13.5	233	2.0	0.4	72.2	0.7	15
1D037021	L	1	11.2	8.0	197	0.1	15.6	188.9	1.3	5
	L	2	11.1	10.0	179	0.2	0.9	200.4	1.1	20
	U	1	11.2	9.2	93	0.3	1.4	227.2	0.7	15
	U	2	11.0	9.3	89	0.4	0.0	271.1	0.6	15
1D037028	L	1*	12.6	8.2	512	0.5	5.6	107.3	1.1	5
	L	2*	12.8	11.0	567	0.4	0.6	108.6	0.9	5
	U	1*	11.1	6.8	513	0.8	1.3	105.7	2.1	5
	U	2*	12.8	10.9	573	0.8	2.8	99.2	1.5	10
2A058004	L	1	9.8	14.0	76	0.1	1.9	292.1	6.6	30
	U	1	10.5	12.9	77	0.4	1.9	267.1	7.0	35
2A058005	L	1	9.0	19.5	59	0.6	2.4	188.9	6.6	20
	U	1	10.0	21.5	74	1.1	1.9	198.9	3.3	25
2A067012	L	1	9.2	17.6	31	0.4	1.4	176.8	4.3	10
	U	1	9.3	11.0	18	0.2	0.6	114.8	1.3	10
2A068004	L	1	9.6	12.4	65	0.3	2.5	159.8	4.0	30
	U	1	9.8	12.3	53	0.5	2.3	168.9	2.7	25
2A068007	L	1	9.7	19.8	360	0.4	3.2	130.8	4.2	20
	U	1	8.6	18.9	353	0.8	14.4	145.8	15.4	15
2A068015	L	1	8.7	16.5	256	0.5	3.0	109.8	5.3	10
	U	1	9.6	12.0	11	0.1	1.1	83.2	1.3	10
2A068022	L	1	8.1	17.0	43	0.3	1.2	135.8	4.3	25
	U	1	9.0	16.0	41	0.4	0.9	150.8	5.8	20

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
2A068023	L	1	9.6	13.0	40	0.1	0.9	181.9	1.2	15
	U	1	9.6	12.9	40	0.1	1.1	190.2	1.6	15
2A068032	L	1	8.5	13.5	131	0.4	0.9	80.7	8.3	20
	U	1	9.6	13.3	132	0.6	0.7	92.5	5.2	10
2A068048	L	1	9.7	11.2	30	0.1	0.4	145.6	0.9	10
	U	1	9.7	9.9	25	0.4	0.8	119.8	0.6	10
2A068055	L	1	8.6	17.5	19	0.1	1.0	93.4	2.7	20
	U	1	9.2	11.7	18	0.1	0.8	42.3	0.1	10
2A07701	L	1	10.4	7.6	16	0.3	0.0	97.4	0.2	15
	L	2	11.0	8.0	17	0.1	0.4	110.7	0.8	15
	L	3	9.4	13.8	18	0.5	0.6	86.9	1.3	5
	L	4*	8.4	18.0	21	0.4	0.2	106.5	0.7	20
	U	3	9.2	12.0	13	0.4	1.9	76.9	0.8	10
	U	4*	9.2	12.0	12	0.3	0.1	91.5	0.1	10
2A07702	L	0*	10.4	13.0	126	0.3	0.4	121.5	0.5	5
	L	1	8.9	17.2	123	0.4	1.2	144.0	0.8	10
	L	2*	9.2	16.0	106	0.8	0.3	111.8	10.0	15
	L	3	8.0	19.9	138	0.6	0.8	143.5	1.6	0
	L	4*	8.2	20.0	157	0.7	0.9	160.9	2.2	10
	U	4*	8.2	21.0	56	0.1	0.3	165.6	1.8	5
2A07703	L	1	10.2	11.5	23	0.5	0.8	152.3	3.0	20
	L	2	10.5	11.0	25	0.6	1.2	149.8	7.9	15
	L	3	9.0	17.0	23	0.5	0.8	157.3	4.9	20
	L	4*	8.2	18.5	25	0.5	0.8	162.3	6.2	25
	U	3	8.3	15.0	19	0.7	0.8	176.4	2.0	15
	U	4*	8.4	17.0	19	0.5	0.7	188.1	3.4	20
2A07801	L	1	10.9	9.1	55	0.5	0.6	133.6	6.9	23
	L	2	10.8	10.3	51	3.4	0.7	144.0	1.4	20
	L	3	9.3	18.0	48	0.8	1.3	134.8	2.4	10
	L	4*	8.1	22.0	96	1.5	1.1	150.9	14.5	20
	U	3	8.6	19.8	47	0.8	0.9	136.5	3.3	20
	U	4*	8.1	20.5	81	1.4	1.6	174.8	10.5	15
2A07802	L	1	10.6	8.3	37	0.4	0.9	200.6	1.4	18
	L	2	11.2	7.0	36	0.6	0.6	204.7	3.1	15
	L	3	9.1	13.0	37	0.8	0.8	211.4	2.0	20
	L	4*	7.5	22.0	37	1.0	0.7	219.7	7.4	15
	U	4*	7.7	18.0	38	2.0	0.8	238.0	7.8	15
2A07803	L	1	10.0	14.5	179	0.3	0.9	93.6	2.0	20
	L	2	10.4	12.0	163	0.5	0.7	111.8	2.1	10
	L	3	9.4	18.4	201	0.7	1.2	132.3	3.9	20
	L	4*	7.3	27.5	281	2.4	1.6	158.1	14.2	25
	U	3	8.6	16.0	224	1.2	1.0	181.4	1.8	10
	U	4*	7.7	21.5	284	1.6	0.5	214.7	3.0	15
2A07805	L	1	9.8	10.0	21	0.7	1.2	93.2	0.5	15
	L	2	10.8	9.0	21	24.2	0.8	113.6	0.4	10
	L	3	9.0	15.0	21	0.6	4.2	108.2	0.9	10
	L	4*	8.6	18.0	29	1.0	1.2	142.3	1.5	15
	U	4*	7.4	16.0	19	0.5	1.1	132.3	0.8	10
2A07806	L	0*	11.6	8.0	17	1.3	1.6	149.4	0.6	10
	L	1	9.9	12.9	18	1.4	0.7	156.4	1.1	10
	L	2	10.2	12.5	18	1.6	0.9	146.5	3.9	10
	L	3	8.4	13.9	19	2.3	0.8	162.3	8.0	10
	L	4*	8.9	16.0	20	2.3	0.4	181.4	2.3	30
	U	4*	8.7	14.0	15	1.5	0.3	135.6	1.8	25

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
2A07807	L	0*	12.0	6.0	34	0.3	0.1	178.1	0.5	10
	L	1	11.8	8.5	32	0.2	0.5	180.6	1.1	18
	L	2	10.2	11.8	31	0.5	1.6	188.1	2.5	10
	L	3	9.4	12.0	33	0.7	0.8	199.7	3.3	10
	L	4*	7.2	16.0	34	1.1	0.2	213.0	6.7	25
	U	4*	8.1	13.0	20	0.4	0.2	174.8	2.2	20
2A07808	L	1	10.5	7.0	26	0.8	0.4	158.1	0.3	5
	L	2	11.2	7.0	26	0.7	0.9	188.1	0.7	10
	L	3	9.8	13.6	25	0.9	0.9	104.2	3.3	5
	L	4*	7.2	20.0	31	1.5	0.5	171.4	1.3	15
	U	4*	8.4	16.0	25	0.4	0.4	146.6	0.5	15
2A07810	L	1	10.8	7.8	15	0.3	1.4	84.9	0.3	15
	L	2	12.4	5.7	15	0.3	0.0	87.9	0.5	10
	L	3	9.6	15.0	16	0.4	0.8	94.9	0.2	15
	L	4*	7.9	20.0	18	0.3	0.5	84.2	0.3	15
	U	4*	8.9	15.7	15	0.2	0.4	90.9	0.3	5
2A07811	L	1	10.4	10.5	16	0.1	0.8	70.1	0.1	15
	L	2	10.9	7.8	15	0.3	0.4	71.9	0.3	10
	L	3	9.1	13.5	14	0.4	0.7	84.5	0.2	10
	L	4*	8.4	19.0	14	0.2	1.1	93.6	0.3	10
	U	4*	8.8	16.0	14	0.2	0.2	82.2	0.2	5
2A07812	L	1	10.8	6.0	16	0.5	0.9	134.0	0.3	20
	L	2	10.8	7.8	16	0.6	0.6	159.8	0.2	10
	L	3	8.2	15.0	16	0.6	1.1	141.5	0.8	10
	L	4*	8.2	14.0	20	0.9	0.7	179.7	0.4	5
	U	4*	8.2	14.0	17	0.5	0.3	134.8	0.2	10
2A07813	L	0*	10.4	12.0	58	0.9	0.6	277.9	3.7	15
	L	1	9.7	13.5	60	0.8	0.8	287.9	2.8	20
	L	2	9.6	14.8	58	0.9	0.6	301.2	5.8	15
	L	3	8.9	17.2	61	1.1	1.1	304.6	10.4	20
	L	4*	7.9	16.0	64	1.9	0.7	322.9	22.0	20
	U	3*	8.8	15.3	36	2.2	2.5	241.3	24.0	15
	U	4*	8.4	15.8	40	11.7	1.8	193.1	38.0	55
2A07814	L	0*	10.8	9.0	57	0.4	0.5	229.7	1.9	15
	L	1	11.2	10.0	60	0.4	1.2	218.0	2.8	20
	L	2	9.2	10.4	52	0.9	1.0	229.7	7.2	18
	L	3	8.9	16.3	56	0.9	1.9	234.7	4.1	15
	L	4*	6.7	19.0	70	5.6	1.9	253.0	76.0	50
	U	3	8.5	13.9	40	0.5	0.7	211.4	3.9	5
	U	4*	7.6	18.5	52	0.6	0.6	272.1	7.6	23
2A07815	L	1	10.8	12.0	17	0.2	0.4	134.8	0.3	13
	L	2	11.3	11.2	17	0.2	0.6	149.8	0.7	15
	L	3	9.6	15.9	17	0.8	0.8	108.2	3.5	5
	L	4*	8.7	20.0	18	0.5	0.8	184.7	1.8	10
	U	4*	8.2	19.0	16	0.4	2.1	111.5	1.3	10
2A07816	L	1	10.9	6.0	10	0.2	0.7	84.9	0.2	10
	L	2	11.1	7.0	10	0.2	0.5	102.4	0.4	10
	L	3	9.1	14.1	11	0.3	0.7	99.9	0.7	10
	L	4*	8.4	18.0	11	0.5	0.6	108.2	0.4	10
	U	4*	9.2	14.0	11	0.3	0.9	67.9	0.5	5
2A07817	L	1	12.2	6.0	10	0.1	0.4	84.0	0.1	10
	L	2	11.4	7.1	12	0.2	0.4	89.9	0.3	10
	L	3	9.4	12.2	12	0.5	0.8	67.4	0.6	5
	L	4*	9.0	12.0	12	0.2	0.5	80.1	0.2	10
	U	4*	9.3	12.0	17	0.1	0.7	64.6	0.1	10

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
2A07818	L	1	11.6	5.0	14	0.2	0.6	122.7	0.9	15
	L	2	11.6	6.8	15	0.4	0.4	147.3	0.8	10
	L	3	9.8	11.5	15	0.4	0.8	138.1	1.8	10
	L	4*	8.0	18.0	17	0.6	1.6	149.0	3.7	15
	U	3	8.8	12.0	15	0.4	0.8	135.6	1.9	15
	U	4*	8.2	17.0	17	0.8	0.9	148.1	3.2	15
2A07819	L	1	10.6	10.0	32	0.6	0.4	259.6	2.8	10
	L	2	11.2	10.2	31	0.6	0.4	248.8	3.1	10
	L	3*	9.3	16.9	30	2.1	1.1	224.7	31.0	25
	L	4*	6.9	23.0	36	1.5	1.0	264.6	7.9	20
	U	4*	8.2	18.0	46	2.0	0.5	302.9	5.8	15
2A07820	L	0*	9.9	10.8	16	0.9	0.5	101.5	0.5	5
	L	1	9.0	14.3	16	0.2	1.0	102.8	0.5	15
	L	2	9.1	11.1	16	0.4	0.6	95.9	0.8	10
	L	3	8.4	13.9	17	0.4	0.8	108.2	1.8	10
	L	4*	8.0	18.0	18	0.5	0.2	109.8	1.3	15
	U	3	8.4	13.8	12	0.2	0.4	95.7	0.5	5
	U	4*	8.2	17.0	14	0.2	0.4	80.1	0.4	20
2A07821	L	1	10.7	7.0	18	0.4	0.0	191.4	1.7	10
	L	2	11.4	10.5	19	1.8	0.5	203.9	4.6	13
	L	3	10.4	16.0	18	0.8	0.6	135.8	9.8	10
	L	4*	9.1	16.0	20	0.9	0.7	202.2	9.3	15
	U	4*	9.8	15.8	20	0.5	0.9	196.4	5.9	15
2A07822	L	1	10.0	12.0	26	0.3	1.1	142.3	1.3	15
	L	2	10.3	9.9	25	0.4	0.3	131.8	1.9	10
	L	3	9.3	15.0	26	1.2	0.8	151.5	1.4	10
	L	4*	8.2	18.5	32	0.7	1.0	162.3	2.0	15
	U	4*	7.4	18.5	32	1.1	1.6	171.4	1.8	10
2A07823	L	1	10.6	10.5	24	0.2	0.4	163.1	1.1	15
	L	2	11.8	7.4	23	0.4	0.6	153.1	1.8	10
	L	3	8.8	18.5	23	1.2	1.2	169.8	1.6	15
	L	4*	7.4	22.0	41	0.6	0.7	189.7	6.0	20
	U	3	9.5	14.0	16	1.4	1.2	176.4	2.0	10
	U	4*	7.3	19.0	47	0.6	0.5	181.4	25.0	20
2A07824	L	1	11.7	5.0	13	0.2	0.0	98.2	0.2	15
	L	2	11.4	3.9	14	0.2	0.4	94.9	0.2	8
	L	3	9.4	11.4	13	0.2	0.7	103.2	0.2	10
	L	4*	8.2	18.0	15	0.2	0.5	115.7	0.8	5
	U	4*	8.4	14.0	11	0.3	0.4	92.4	0.3	5
2A07825	L	0*	11.2	8.0	10	0.3	1.1	114.8	0.3	15
	L	1	9.5	14.0	11	0.1	0.6	113.2	0.5	10
	L	2	10.3	11.4	11	0.3	0.6	99.5	0.6	18
	L	3	8.6	15.8	11	0.3	0.6	110.7	7.0	15
	L	4*	8.6	17.0	13	0.6	0.1	118.2	1.1	15
	U	3	8.2	13.0	15	0.3	0.5	86.5	0.6	10
	U	4*	8.5	15.0	16	0.6	0.4	103.2	5.6	20
2A07826	L	1	11.0	9.0	55	0.5	0.4	243.0	2.0	15
	L	2	10.4	9.0	57	0.5	0.6	238.0	2.2	25
	L	3	9.4	14.8	57	0.8	2.5	221.4	6.0	20
	L	4*	8.2	17.0	62	2.7	2.6	296.3	5.0	25
	U	3	8.8	15.8	55	2.0	1.9	259.6	7.4	20
	U	4*	7.4	18.0	79	1.0	9.0	73.4	1800.0	750

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
2A07827	L	1	10.3	13.0	34	0.4	3.0	115.7	2.4	15
	L	2	9.5	15.0	29	0.5	1.9	129.8	1.6	15
	L	3	10.2	12.8	29	0.4	0.4	109.5	3.5	10
	L	4*	8.2	19.0	39	0.9	0.8	127.3	2.3	20
	U	4*	8.0	16.0	14	0.3	0.1	131.5	0.6	15
2A07828	L	0*	10.4	7.8	10	0.3	1.1	89.0	0.3	10
	L	1	10.0	10.5	10	0.2	0.5	91.5	0.4	10
	L	2	10.1	11.5	10	0.4	0.1	86.5	1.6	10
	L	3	9.3	13.5	11	0.4	1.8	95.7	1.6	15
	L	4*	8.8	14.0	22	3.5	1.8	76.6	42.0	35
	U	3	8.8	13.0	8	0.3	0.4	131.5	0.9	15
	U	4*	9.0	15.2	9	0.7	0.5	79.7	3.0	18
2A07829	L	1	10.9	8.8	12	6.3	1.9	125.7	0.4	15
	L	2	11.3	8.0	12	5.4	4.3	139.0	1.1	15
	L	3	9.6	14.5	12	1.7	2.4	124.0	1.6	10
	L	4*	9.3	16.0	14	1.9	0.2	141.5	3.2	10
	U	3	9.5	12.2	10	0.4	0.0	139.0	2.1	15
	U	4*	8.7	14.0	11	0.4	0.8	146.5	3.0	10
2A07830	L	0*	10.1	12.0	32	0.9	1.2	189.7	4.7	15
	L	1	10.1	12.5	31	0.9	1.6	198.1	5.2	20
	L	2	9.4	13.0	48	3.9	6.6	137.5	7.9	30
	L	3	8.9	15.3	32	1.4	2.1	192.2	8.4	20
	L	4*	7.8	20.0	14	0.4	1.1	179.7	2.6	25
	U	4*	8.9	16.0	43	2.9	20.0	201.4	8.8	35
2A07831	L	0*	10.8	8.0	64	0.9	0.5	221.4	2.0	15
	L	1	10.2	11.0	86	1.6	0.9	219.7	2.7	20
	L	2*	9.2	13.5	61	1.5	1.3	204.7	42.0	30
	L	3	9.3	14.0	142	6.1	1.2	228.0	5.4	15
	L	4*	8.1	18.0	48	2.0	1.0	228.0	38.0	25
	U	3	9.7	12.2	31	1.1	0.5	173.1	6.1	10
	U	4*	8.9	18.0	37	5.0	1.6	189.7	57.0	40
2A07832	L	1	11.2	11.0	15	0.2	0.3	115.7	1.0	10
	L	2	11.2	8.2	17	0.3	1.1	139.8	2.0	10
	L	3	9.3	14.5	17	0.7	1.7	130.7	1.7	10
	L	4*	7.8	19.0	20	2.2	0.9	127.3	49.0	25
	U	3	9.9	15.0	16	0.6	1.2	135.6	1.2	15
	U	4*	8.0	18.0	17	0.4	0.4	136.5	2.8	10
2A07833	L	1	11.4	9.0	27	0.2	1.0	164.4	1.0	13
	L	2	11.4	7.5	28	0.3	0.0	173.1	2.4	10
	L	3	9.2	17.0	29	0.4	0.9	174.8	1.7	10
	L	4*	8.3	17.8	38	0.6	0.8	193.1	6.6	15
	U	3	9.5	12.0	34	0.5	0.4	160.6	0.4	10
	U	4*	9.2	10.5	40	0.4	0.3	166.4	1.4	10
2A07834	L	0*	10.8	7.0	10	0.1	0.3	95.7	0.7	15
	L	1	10.8	8.0	10	0.2	0.7	94.5	1.1	20
	L	2	10.3	11.5	10	0.5	1.0	73.6	2.9	25
	L	3	9.3	13.0	11	0.4	0.4	92.5	1.5	10
	L	4*	8.3	17.0	12	0.3	0.2	99.0	1.8	25
	U	4*	8.5	13.0	18	0.3	0.2	82.7	3.2	20
2A07835	L	1	10.7	11.1	16	0.1	0.6	163.1	0.4	20
	L	2	9.2	12.4	17	0.2	0.7	193.1	0.6	20
	L	3	9.4	18.2	17	0.4	0.1	166.4	1.4	15
	L	4*	7.7	20.0	20	0.4	0.9	188.9	2.8	13
	U	4*	8.5	19.0	16	0.3	0.6	164.8	3.0	10

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
2A07881	L	1	10.6	14.0	105	0.6	0.4	266.3	3.5	10
	L	2	10.8	11.3	99	0.9	0.9	274.6	9.6	25
	L	3	8.2	19.0	103	1.3	1.3	281.3	8.0	25
	L	4*	8.1	22.0	158	2.0	0.9	304.6	14.0	20
	U	3	9.1	18.1	74	1.7	1.5	309.6	4.8	25
	U	4*	7.3	20.0	101	1.8	1.6	367.8	3.9	20
2A07882	L	1	11.3	5.8	17	0.1	0.6	128.2	0.3	15
	L	2	10.6	8.5	16	0.3	0.8	119.8	1.4	5
	L	3	9.6	12.2	18	0.4	0.5	139.8	0.4	15
	L	4*	8.2	16.0	24	0.5	0.3	176.4	0.6	10
	U	4*	8.4	13.3	13	0.5	0.2	133.1	1.6	10
2A08801	L	0*	11.6	10.0	169	0.2	0.2	144.8	1.0	10
	L	1	9.9	14.5	164	0.2	0.4	168.1	2.0	10
	L	2	9.7	14.5	121	1.4	0.3	124.2	9.1	45
	L	3	8.2	19.0	180	0.4	0.7	174.8	2.1	15
	L	4*	9.1	20.0	178	0.8	0.8	179.7	20.0	25
	U	4*	7.3	19.0	164	0.4	0.6	146.0	1.4	15
2A08802	L	1	10.4	9.8	14	0.1	1.1	124.8	1.6	15
	L	2	10.7	10.0	14	0.2	0.9	114.5	3.3	10
	L	3	8.8	14.3	14	0.3	0.8	125.7	2.3	15
	L	4*	8.6	16.0	14	0.2	0.4	127.3	2.9	10
	U	4*	8.1	17.5	15	0.6	0.5	176.4	5.4	20
2A08803	L	1	10.9	9.5	24	0.2	0.6	121.5	2.4	15
	L	2	8.8	14.0	25	0.3	0.5	134.8	4.9	20
	L	3	9.1	17.0	25	0.3	0.4	125.8	6.7	20
	L	4*	8.0	17.0	29	0.5	1.5	132.3	9.5	30
	U	4*	8.0	17.0	32	0.3	1.1	128.2	4.8	20
2A08804	L	1	10.8	9.9	12	0.3	1.2	107.3	0.6	15
	L	2	10.5	9.0	12	0.4	1.0	121.5	0.9	5
	L	3	9.2	14.2	12	0.3	0.7	115.3	2.3	13
	L	4*	8.9	17.5	13	0.4	0.3	112.3	1.5	15
	U	4*	8.2	16.5	12	0.3	0.4	104.9	2.2	15
2A08805	L	1	10.8	11.0	20	0.4	0.2	134.8	2.2	15
	L	2	10.0	15.5	20	0.3	0.6	194.7	2.5	10
	L	3	9.1	18.0	21	0.5	0.6	147.5	5.3	15
	L	4*	8.1	18.0	24	0.5	0.5	129.0	4.8	20
	U	4*	7.3	16.0	13	0.2	0.6	125.7	5.9	20
2A08806	L	1	9.8	10.5	26	0.9	2.0	186.4	2.0	20
	L	2	8.2	17.7	23	0.7	0.8	219.7	7.2	20
	L	3	8.6	15.0	26	1.6	2.9	176.4	12.5	20
	L	4*	7.8	16.0	26	1.2	1.9	214.7	11.0	20
	U	4*	8.5	16.5	20	0.7	0.4	196.4	4.8	20
2A08808	L	1	10.6	9.0	46	0.4	0.2	137.3	2.2	13
	L	2	10.2	13.7	48	0.1	0.4	162.3	1.7	5
	L	3	9.3	14.0	50	0.3	0.2	146.6	5.5	10
	L	4*	7.6	21.0	69	0.5	0.2	150.0	15.9	20
	U	4*	7.4	18.0	23	0.7	0.1	166.4	10.8	25
2A08809	L	0*	11.6	6.9	14	0.1	0.3	125.7	1.0	5
	L	1	9.9	11.3	15	0.2	0.4	129.8	2.3	20
	L	2*	7.5	14.0	16	2.3	0.5	103.5	40.0	40
	L	3	7.8	18.0	15	0.4	0.8	135.3	5.9	15
	L	4*	7.0	20.0	16	0.7	1.3	139.8	9.5	30
	U	4*	8.5	19.0	15	0.4	0.2	133.1	6.3	25

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
2A08810	L	1	10.1	10.5	21	0.2	0.5	147.3	1.6	15
	L	2	11.0	11.2	22	0.4	0.2	139.8	2.9	15
	L	3	9.4	16.9	23	0.5	1.1	161.4	2.5	10
	L	4*	7.5	14.0	28	0.8	2.1	154.4	7.1	15
	U	4*	7.5	14.0	22	0.2	0.5	194.7	0.8	10
2A08811	L	0*	9.9	10.7	24	0.1	0.2	146.0	1.4	8
	L	1	9.0	16.0	25	0.2	0.4	163.9	1.3	20
	L	2	9.3	16.5	28	0.5	0.1	141.5	7.3	15
	L	3	7.8	18.9	27	0.4	0.6	168.1	2.7	10
	L	4*	8.5	19.0	31	0.3	0.5	176.4	2.0	20
	U	4*	8.5	18.0	24	0.3	0.3	188.1	3.5	20
2A08901	L	1	10.4	13.0	18	0.6	1.7	158.1	2.3	15
	L	2	9.9	11.9	18	1.6	1.6	172.3	12.4	25
	L	3	8.3	20.5	18	0.7	0.7	166.4	6.2	10
	L	4*	8.3	21.5	22	0.8	1.1	168.1	10.0	20
	U	3	8.6	14.0	11	0.5	0.0	121.5	2.3	15
	U	4*	8.5	15.0	11	0.3	0.2	114.8	4.5	10
2A08902	L	0*	12.1	5.5	11	0.1	0.2	107.3	0.9	13
	L	1	11.3	9.2	11	0.2	0.9	109.8	1.6	15
	L	2*	11.3	11.5	11	0.6	0.4	82.9	9.5	15
	L	3	9.5	15.0	11	0.4	0.3	94.2	2.8	10
	L	4*	8.3	20.0	13	0.3	0.5	118.2	5.2	20
	U	4*	8.8	18.0	15	0.5	0.5	120.7	7.0	15
2A08903	L	1	10.6	9.5	19	0.3	0.9	135.6	1.0	10
	L	2	10.9	11.2	20	0.5	1.2	157.3	1.6	15
	L	3	9.6	16.0	19	0.6	1.0	149.1	4.3	8
	L	4*	8.3	18.0	24	0.6	2.8	165.6	3.8	10
	U	3	9.4	16.0	18	0.5	1.2	148.3	4.6	10
	U	4*	8.2	17.0	24	0.6	3.2	163.9	4.5	15
2A08904	L	0*	10.2	10.1	25	0.3	0.1	168.1	5.9	15
	L	1	10.5	12.0	25	0.3	0.2	193.1	3.8	15
	L	2*	9.7	14.1	26	0.4	9.5	109.5	1550.0	400
	L	3	8.9	17.9	26	0.5	0.9	194.7	6.5	10
	L	4*	8.2	19.0	28	0.9	1.4	181.4	20.0	30
	U	3	9.0	15.9	22	0.4	0.5	219.7	4.0	5
	U	4*	8.2	17.0	24	0.5	0.1	224.7	4.0	15
2A08905	L	1	10.6	12.0	12	0.1	1.0	124.0	0.5	5
	L	2	11.2	8.0	13	0.3	0.9	117.2	1.0	5
	L	3	8.9	16.5	13	0.3	0.8	129.8	0.7	15
	L	4*	8.2	23.0	14	0.3	0.2	140.0	1.1	10
	U	3	8.9	16.0	12	0.3	0.4	133.1	0.5	10
	U	4*	7.9	23.5	13	0.2	0.2	138.3	1.4	15
2A08906	L	0*	10.0	8.0	17	0.5	1.1	111.5	5.4	20
	L	1	9.2	15.7	17	0.8	2.2	117.3	11.6	30
	L	2*	9.5	14.0	22	0.1	16.0	68.9	1000.0	350
	L	3	10.2	15.2	18	1.4	3.3	117.5	22.0	30
	L	4*	8.2	17.5	14	1.3	0.9	119.8	25.0	30
	U	4*	8.4	17.0	19	2.8	4.9	104.9	55.0	40
2B036003	L	1	11.8	11.0	200	0.2	1.5	84.0	6.0	10
	L	2	11.7	10.4	247	0.3	0.9	64.4	4.3	15
	U	1	11.2	9.0	206	0.3	1.5	87.4	6.6	2
	U	2	10.8	10.2	280	0.3	1.4	72.4	5.6	15
2B036023	L	1	11.4	9.2	343	1.1	2.5	103.7	7.1	20
	L	2	12.4	11.8	371	0.9	1.1	98.7	7.9	15
	U	1	11.1	8.2	68	0.8	5.7	94.4	1.3	5
	U	2	11.3	8.3	73	0.8	0.7	80.1	2.5	10

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
2B036027	L	1	10.8	12.5	111	0.4	1.3	85.7	3.7	20
	L	2	12.8	7.9	111	0.2	1.1	62.7	2.1	20
	U	1	11.2	12.5	117	0.6	1.7	82.2	3.5	20
	U	2	13.1	8.2	119	0.3	0.6	61.0	2.3	15
2B036028	L	1	10.5	10.4	48	0.1	1.3	114.8	2.9	20
	L	2	11.9	6.9	38	0.2	0.5	134.5	1.9	10
	U	1	10.2	12.4	30	0.1	1.3	99.9	2.4	10
	U	2	11.0	8.7	26	0.0	1.3	96.7	1.5	15
2B036031	L	1*	10.4	13.8	459	0.0	10.6	111.5	8.7	20
	L	2*	11.6	8.5	567	0.1	11.6	92.3	1.2	5
	U	1*	10.0	12.5	518	0.1	10.5	159.8	17.9	30
	U	2*	10.2	10.3	704	0.1	14.2	149.9	21.0	35
2B036046	L	1	10.5	12.5	34	0.1	1.2	67.2	2.5	10
	L	2	11.6	9.9	33	0.1	0.5	79.1	1.3	15
	U	1	11.8	7.2	18	.	.	66.9	.	.
	U	2	11.1	7.1	14	0.1	0.7	76.3	0.4	10
2B036051	L	1*	12.7	12.0	529	0.3	1.2	62.9	4.2	15
	L	2*	14.3	14.1	550	0.1	0.7	54.8	3.6	5
	U	1*	12.5	12.0	521	0.2	1.2	56.8	5.4	15
	U	2*	13.9	11.7	563	0.1	0.8	60.0	4.7	15
2B036057	L	1	9.8	17.5	228	0.4	0.9	105.7	9.8	15
	L	2	13.1	8.5	240	0.3	1.7	73.2	3.1	20
	U	1	10.6	8.0	134	0.5	1.3	83.1	4.4	30
	U	2	12.5	6.8	132	0.3	1.2	104.5	8.5	45
2B036062	L	1	11.2	9.9	51	0.2	1.0	109.0	3.6	25
	L	2	13.0	5.5	48	0.0	1.1	107.9	1.6	15
	U	1	10.9	10.2	49	0.2	1.3	110.7	3.1	25
	U	2	11.2	10.3	45	0.1	1.3	110.6	1.8	10
2B036076	L	1	11.4	9.2	45	0.0	1.1	76.6	2.5	10
	L	2	10.9	10.1	47	0.0	2.0	80.5	2.4	10
	U	1	11.0	9.0	48	0.0	1.6	84.0	1.7	15
	U	2	11.2	8.5	48	0.0	1.1	84.4	0.8	5
2B036083	L	1	12.9	13.9	305	2.4	14.7	213.7	10.9	25
	L	2	13.6	7.0	289	3.3	1.2	239.8	6.6	20
	U	1	12.9	15.8	298	3.9	38.3	233.7	9.8	15
	U	2	13.8	7.0	272	2.6	3.2	278.1	6.1	15
2B041008	L	1	10.7	9.5	46	0.1	0.7	104.0	2.0	5
	L	2	10.4	11.0	45	0.1	3.0	113.2	1.3	5
	U	1	10.4	11.5	46	0.1	0.6	99.9	2.2	15
	U	2	10.6	10.0	45	0.1	1.8	115.3	1.4	5
2B041016	L	1	9.5	13.5	70	0.1	1.5	138.1	3.2	10
	L	2	10.8	8.0	81	0.2	1.6	150.9	1.8	10
	U	1	9.0	11.0	85	0.2	1.1	104.0	4.4	5
	U	2	8.6	9.0	97	0.1	1.0	125.0	5.7	15
2B041018	L	1	10.4	7.9	209	0.3	0.7	133.1	1.6	10
	L	2	9.6	10.7	251	0.2	0.7	135.0	1.3	15
	U	1	10.2	8.0	111	0.1	1.0	136.5	0.4	10
	U	2	8.2	9.8	103	0.1	0.4	156.8	0.4	5
2B041020	L	1	11.0	6.1	59	0.1	1.2	144.8	1.3	5
	L	2	10.0	10.5	58	0.0	0.2	167.1	1.6	10
	U	1	9.5	9.0	56	0.1	0.6	139.8	1.6	20
	U	2	9.3	10.2	51	0.0	1.1	169.5	6.4	30

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
2B041029	L	1	11.3	10.6	72	0.2	0.9	112.3	1.1	15
	L	2	11.6	7.5	64	0.1	2.7	122.9	0.9	5
	U	1	12.0	7.0	53	0.1	0.6	115.7	1.4	15
	U	2	12.0	7.0	49	0.2	0.6	133.7	1.3	10
2B041032	L	1	10.2	11.0	84	0.2	0.8	120.7	1.5	15
	L	2	9.5	9.5	82	0.3	0.7	153.1	1.5	15
	U	1	8.8	9.0	177	0.1	1.1	147.7	3.3	20
	U	2	8.5	9.0	272	0.1	6.0	163.2	4.7	5
2B041042	L	1	10.8	15.2	132	0.1	0.9	88.2	1.3	10
	L	2	11.0	10.0	152	0.1	0.7	94.0	1.0	15
	U	1	10.0	13.7	128	0.1	0.9	89.9	3.4	5
	U	2	11.1	10.7	141	0.1	0.6	92.1	1.0	10
2B041049	L	1	10.7	10.0	137	0.1	0.7	100.7	0.8	15
	L	2	10.0	13.1	149	0.1	0.6	124.5	1.2	10
	U	1	10.6	8.0	40	0.0	0.8	76.9	0.2	10
	U	2	10.4	10.0	37	0.1	0.2	94.7	0.1	5
2B041054	L	1	8.5	22.0	132	0.1	1.5	141.5	2.8	10
	L	2	6.2	15.0	175	0.1	1.7	148.1	2.4	10
	U	1	6.2	15.9	82	0.1	2.4	156.4	1.3	5
	U	2	7.7	13.0	98	0.1	1.3	164.8	2.9	10
2B042003	L	1	10.9	9.0	46	0.1	0.7	111.5	1.2	20
	L	2	11.9	8.0	47	0.1	0.9	121.3	0.8	15
	U	1	10.9	10.1	43	0.1	0.9	114.0	1.1	15
	U	2	11.4	7.0	42	0.3	0.0	129.2	0.8	10
2B042005	L	1	7.1	11.9	407	0.6	3.0	172.1	3.3	20
	L	2	13.2	6.3	463	0.3	4.0	143.4	1.6	5
	U	1	9.3	11.3	405	1.3	2.1	112.3	2.6	20
	U	2	13.1	7.0	270	0.7	1.9	61.3	1.5	20
2B042007	L	1	13.3	16.2	192	1.0	1.4	80.4	3.2	25
	L	2	11.9	11.8	190	0.3	1.3	72.6	2.1	20
	U	1	13.6	14.5	185	1.0	1.0	80.1	2.9	10
	U	2	13.1	7.0	189	0.5	1.4	68.9	1.6	20
2B042017	L	1	11.6	9.5	119	0.5	1.0	85.7	1.8	10
	L	2	12.4	7.0	111	0.3	0.7	99.0	1.5	15
	U	1	12.2	7.2	123	0.4	1.7	88.2	2.1	10
	U	2	12.0	7.5	112	0.7	1.8	101.5	1.5	15
2B042022	L	1	10.8	13.8	78	0.2	0.7	215.4	0.7	10
	L	2	10.1	11.2	79	0.2	0.9	242.3	1.3	5
	U	1	10.2	10.2	86	0.1	0.8	195.4	0.7	10
	U	2	9.5	12.0	86	0.1	0.4	235.4	3.8	10
2B042032	L	1	10.0	15.0	473	0.4	1.2	94.9	1.3	5
	L	2	10.8	14.0	480	0.3	0.7	110.8	2.4	5
	U	1	17.1	18.1	401	0.4	2.2	12.3	0.9	10
	U	2	6.5	13.1	487	0.4	0.8	138.2	1.0	5
2B042036	L	1	10.8	11.0	145	0.3	0.9	177.1	1.3	15
	L	2	12.6	7.2	140	0.3	1.3	164.1	0.9	15
	U	1	10.8	11.0	144	0.3	1.0	178.7	1.5	20
	U	2	11.7	7.2	139	0.3	0.2	170.1	0.8	15
2B042044	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
2B042047	L	1	11.6	7.5	108	0.3	1.3	204.7	4.7	25
	L	2	11.0	10.0	100	0.7	1.6	217.2	5.0	20
	U	1	10.8	11.0	109	0.4	1.2	208.9	3.5	30
	U	2	10.9	10.2	102	0.4	2.4	220.2	2.9	20
2B042052	L	1	11.6	8.3	332	0.0	0.6	65.4	0.9	5
	L	2	11.2	7.9	331	0.2	3.2	88.3	0.6	10
	U	1*	12.2	9.7	429	0.1	0.9	64.6	0.9	5
	U	2*	11.6	8.9	525	0.2	0.5	84.0	1.6	5
2B042063	L	1	10.6	9.0	217	0.4	1.9	144.8	10.2	15
	L	2	8.3	14.5	197	0.8	4.7	162.8	22.0	50
	U	1	10.7	9.1	218	0.5	2.5	146.5	12.2	15
	U	2	8.9	13.9	196	1.4	4.9	161.3	19.4	50
2B042064	L	1	9.7	14.9	83	0.6	0.9	242.2	3.2	15
	L	2	11.1	10.9	78	0.6	2.2	282.9	4.5	15
	U	1	10.6	13.5	90	2.1	2.4	232.2	13.5	15
	U	2	9.3	11.9	100	1.4	2.2	273.3	22.0	40
2B047013	L	1	10.3	12.5	103	0.0	1.5	182.2	1.1	10
	L	2	9.7	13.5	194	0.1	1.1	173.9	0.4	10
	U	1	9.3	14.2	126	0.1	2.3	178.9	0.9	15
	U	2	8.1	14.2	140	0.0	0.9	192.2	0.5	10
2B047019	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B047022	L	1	12.0	12.7	103	0.1	1.5	65.2	1.0	5
	L	2	11.1	12.5	107	0.1	1.0	54.1	0.5	10
	U	1	10.0	10.9	117	0.2	1.4	79.4	1.3	5
	U	2	10.2	11.0	127	0.2	0.5	75.1	1.2	10
2B047032	L	1	10.2	10.6	30	0.1	1.3	83.2	0.3	5
	L	2	10.4	10.8	29	0.2	0.4	78.7	0.3	5
	U	1	9.6	12.5	25	0.1	1.4	82.1	0.3	10
	U	2	9.4	13.3	26	0.1	1.7	77.7	0.5	10
2B047036	L	1	11.1	7.9	30	0.0	1.5	94.9	0.6	10
	L	2	10.8	8.0	27	0.0	0.8	108.7	0.7	8
	U	1	11.2	6.6	31	0.1	1.1	100.7	0.5	15
	U	2	10.8	8.1	27	0.0	0.0	107.7	0.7	5
2B047044	L	1	10.4	10.1	52	0.1	1.6	75.4	4.6	20
	L	2	9.6	15.5	87	0.1	1.0	48.3	0.6	5
	U	1	10.4	8.1	26	0.0	1.0	82.2	4.0	15
	U	2	8.6	19.5	28	0.1	1.0	69.1	2.5	20
2B047050	L	1	11.2	11.0	463	0.6	3.4	122.7	13.4	30
	L	2	11.1	9.8	465	0.1	2.4	117.8	3.1	5
	U	1	13.5	18.0	445	0.2	1.3	93.2	3.4	30
	U	2	12.6	6.9	498	0.1	2.6	111.7	1.4	15
2B047061	L	1	10.2	13.7	111	0.3	1.0	74.2	1.9	10
	L	2	12.1	10.8	103	0.1	1.0	69.7	1.6	10
	U	1	10.3	13.4	89	0.2	1.2	73.7	1.9	5
	U	2	11.5	12.1	85	0.3	1.2	75.7	1.5	5
2B047062	L	1*	8.5	12.7	499	0.2	1.6	43.9	2.5	25
	L	2*	7.7	12.3	748	0.1	81.6	102.8	4.6	20
	U	1*	4.4	17.5	646	0.1	39.6	111.5	5.1	10
	U	2*	10.6	15.9	575	0.9	1.1	103.8	1.2	5

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
2B047066	L	1	11.1	9.9	33	0.2	0.8	187.1	6.3	20
	L	2	10.6	14.7	30	0.2	0.3	196.0	5.0	30
	U	1*	.	.	.	.	.	.	.	.
	U	2	10.4	11.9	33	0.3	1.1	299.3	1.2	10
2B047076	L	1	10.3	12.2	18	0.0	0.0	98.7	0.2	5
	L	2	10.1	10.3	18	0.0	0.3	100.3	0.3	5
	U	1	9.9	10.5	19	0.1	0.0	98.7	0.5	5
	U	2	10.0	9.9	19	0.1	0.0	95.5	0.2	10
2B047078	L	1	11.5	8.9	82	0.6	2.0	187.1	7.4	15
	L	2	10.8	8.5	83	3.7	4.1	213.7	5.3	20
	U	1	10.8	10.9	47	0.7	3.4	97.4	21.0	35
	U	2	8.4	13.5	50	0.3	22.8	75.7	17.9	60
2B047087	L	1*	7.6	21.0	583	0.2	0.0	27.2	1.0	5
	L	2*	10.4	7.9	513	0.1	0.2	84.7	1.8	15
	U	1*	9.5	14.9	609	0.0	0.9	103.4	2.4	15
	U	2*	11.0	9.0	517	0.1	1.4	95.7	2.3	20
2B047089	L	1	10.0	12.0	24	0.8	0.0	165.6	0.6	5
	L	2	10.5	9.9	25	0.2	0.0	147.4	0.5	10
	U	1	10.4	10.6	24	0.6	0.0	161.1	0.5	5
	U	2	10.9	9.8	25	0.1	0.0	144.8	0.5	10
2B047093	L	1	9.2	10.9	106	0.3	1.1	77.7	0.6	10
	L	2*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B047100	L	1	10.9	13.3	98	0.1	1.2	95.7	1.0	15
	L	2	12.0	12.1	105	0.1	0.0	79.6	0.9	10
	U	1	10.2	11.7	91	0.1	1.1	100.7	0.9	10
	U	2	10.6	11.0	106	0.2	0.1	105.1	0.6	10
2B057029	L	1	10.2	12.2	199	0.1	1.4	67.4	2.0	15
	L	2	7.7	22.8	184	0.4	2.0	54.6	2.9	25
	U	1	9.2	10.9	232	0.4	1.6	65.1	1.4	5
	U	2	9.6	14.0	246	0.5	1.0	89.9	1.1	10
2B057042	L	1	10.2	8.8	168	0.0	0.8	118.7	0.5	5
	L	2	10.2	10.0	164	0.2	1.4	121.5	0.7	5
	U	1*	11.0	6.8	571	0.0	1.1	155.6	0.3	5
	U	2*	10.7	10.3	460	0.1	0.9	147.3	0.5	5
2B058015	L	1	10.4	13.0	40	0.0	0.0	90.4	0.3	8
	L	2	11.0	10.0	47	0.0	0.4	91.8	0.3	5
	U	1	10.5	9.7	13	0.0	0.0	86.9	0.3	10
	U	2	10.6	8.4	13	0.0	0.0	82.0	0.3	5
2B058017	L	1	10.8	16.0	24	0.5	0.6	197.1	3.2	20
	U	1	9.4	13.5	28	1.4	0.5	308.1	2.3	10
	U	2	9.4	11.2	30	1.5	0.8	298.3	0.4	18
2B058024	L	1	10.6	12.5	27	0.2	0.7	262.0	1.3	7
	U	1	9.9	11.6	24	0.1	0.1	245.7	1.8	5
	U	2	10.3	10.1	26	0.4	2.9	246.6	1.0	10
2B077012	L	1	9.4	20.3	313	2.8	6.4	92.4	8.0	30
	U	1	12.0	23.0	236	1.5	4.5	101.5	4.2	25
2B077016	L	1	10.0	17.5	309	0.2	3.9	88.2	10.3	20
	U	1	9.5	18.8	264	0.6	3.4	114.8	10.7	25

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
2B087003	L	1	9.8	17.2	227	0.2	2.4	92.4	5.8	10
	U	1	9.4	18.1	235	0.2	2.4	111.5	3.3	3
2B087005	L	1	8.5	18.2	55	0.1	3.3	53.3	4.5	30
	U	1	9.4	13.9	68	0.1	2.8	55.1	2.9	15
2B088002	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B088004	L	1	9.8	13.0	251	2.4	11.6	94.9	9.3	25
	U	1	10.2	15.5	243	2.6	4.5	94.0	4.8	20
2B088006	L	1	10.6	13.0	270	0.1	1.4	104.9	2.4	10
	U	1	10.8	12.5	259	0.2	1.3	104.0	1.3	5
2B088007	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B088013	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B088016	L	1	9.7	13.9	197	0.2	3.1	120.7	11.1	30
	U	1	9.8	15.9	87	0.4	0.9	139.0	1.7	10
2B088019	L	1	10.4	9.8	78	0.2	1.3	44.4	1.5	10
	U	1	10.4	12.8	75	0.2	1.4	44.4	1.3	15
2B088020	L	1	9.7	9.8	37	0.1	2.8	51.6	2.5	35
	U	1	8.1	18.0	54	0.0	3.1	51.4	4.6	10
2B088021	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B088022	L	1	10.3	13.2	82	0.1	2.6	72.4	3.4	10
	U	1	10.2	15.0	78	0.0	1.6	62.2	4.0	10
2B088026	L	1	10.8	11.9	325	0.6	2.7	207.0	5.5	15
	U	1	7.7	16.9	246	0.2	2.1	238.7	3.2	5
2B088033	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B088041	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B088045	L	1	9.2	15.5	264	1.9	6.0	139.0	10.5	25
	U	1	8.9	14.0	189	0.1	1.0	136.5	2.5	20
2B088049	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B088065	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2B088069	L	1	10.4	10.8	42	0.5	1.7	272.0	1.3	15
	U	1	9.4	13.0	34	0.6	0.7	255.3	1.8	25
2B098006	L	1	10.4	12.0	41	0.3	1.3	210.4	2.9	15
	U	1	10.4	11.0	40	0.4	1.2	233.7	3.7	10
2B098015	L	1	10.2	15.1	31	0.2	1.7	203.7	3.7	13
	U	1	9.5	13.0	23	0.9	1.2	215.4	1.8	5

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
2B098019	L	1	8.8	19.0	39	0.2	0.0	237.5	1.1	20
	U	1	9.0	21.0	20	0.2	0.8	160.1	1.0	25
2C028043	L	1	10.6	9.5	73	0.0	1.6	98.2	3.9	20
	L	2	10.8	12.8	97	0.1	1.2	80.2	2.4	5
	U	1	11.7	5.8	72	0.0	2.2	95.3	5.5	10
	U	2	9.5	13.1	96	0.1	2.2	71.1	6.8	20
2C028050	L	1	11.4	8.5	52	0.0	0.9	60.7	0.8	10
	L	2	10.0	12.8	55	0.1	1.8	62.7	16.6	35
	U	1	11.1	6.3	50	0.0	2.1	68.1	0.8	15
	U	2	9.6	13.2	52	0.0	1.6	46.9	5.4	35
2C028051	L	1*	11.8	6.0	213	0.0	1.6	100.9	2.1	10
	L	2*	9.8	14.0	503	0.0	0.7	121.5	0.3	5
	U	1	10.6	11.0	38	0.1	1.6	84.8	1.7	15
	U	2	10.0	12.1	49	0.1	1.1	68.1	3.2	8
2C028056	L	1	11.3	7.2	122	0.0	4.7	93.3	4.2	10
	L	2	10.4	11.8	243	0.0	2.0	86.0	2.5	5
	U	1	11.6	5.2	67	0.0	1.4	92.1	2.0	10
	U	2	9.8	10.0	121	0.0	1.9	84.0	1.5	5
2C028057	L	1	10.8	7.4	48	0.0	2.2	70.6	4.0	15
	L	2	10.0	12.8	54	0.1	0.9	70.6	2.3	20
	U	1	11.0	7.4	45	0.0	1.5	65.2	5.0	15
	U	2	9.9	11.8	50	0.1	1.7	66.1	3.3	15
2C028060	L	1*	11.7	5.3	323	0.1	6.4	139.9	11.5	30
	L	2*	10.0	12.8	624	0.0	0.9	240.7	41.0	35
	U	1*	11.9	5.9	56	0.0	0.9	81.3	0.4	10
	U	2*	10.0	12.1	72	0.0	0.6	75.7	1.8	0
2C028061	L	1	11.0	9.5	35	0.0	1.6	72.6	0.7	10
	L	2	9.6	14.0	47	0.1	2.2	68.2	0.3	15
	U	1	11.2	7.7	30	0.1	0.0	67.8	0.8	10
	U	2	9.5	15.1	38	0.4	0.9	64.1	0.2	10
2C028069	L	1	11.2	6.5	34	0.0	0.0	68.5	1.1	10
	L	2	10.5	9.8	35	0.1	1.7	48.6	2.0	15
	U	1	11.4	5.8	39	0.0	0.1	72.8	0.7	10
	U	2	10.3	10.2	42	1.1	0.9	65.4	0.3	5
2C028070	L	1	11.4	7.0	28	0.0	0.0	72.2	0.2	5
	L	2	10.1	12.2	30	0.0	1.0	68.2	0.4	10
	U	1	11.2	5.5	35	0.1	0.9	69.1	0.2	5
	U	2	10.2	10.5	34	0.0	0.9	61.6	0.4	10
2C028071	L	1*	11.8	6.9	365	0.0	0.7	103.7	3.4	5
	L	2*	10.6	10.3	573	0.0	1.5	114.8	2.0	5
	U	1*	11.8	6.9	132	0.0	0.2	81.0	0.6	5
	U	2*	10.4	12.0	139	0.0	0.5	72.6	0.2	10
2C028075	L	1	11.1	7.5	32	0.0	0.8	68.7	0.3	5
	L	2	10.2	10.5	31	0.1	0.4	68.7	0.2	5
	U	1	10.8	6.7	38	0.0	2.0	63.2	0.2	10
	U	2	10.6	8.0	35	0.2	0.7	65.9	0.2	10
2C029002	L	1	10.2	7.5	48	0.4	1.2	60.1	0.6	5
	L	2	9.9	14.0	50	0.3	1.1	56.1	1.0	5
	U	1	10.3	9.1	38	0.3	1.6	59.4	0.1	10
	U	2	9.6	12.2	38	0.4	1.0	65.4	0.1	10

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
2C029016	L	1	10.8	7.4	24	0.0	1.2	50.6	0.7	8
	L	2	9.6	14.2	21	0.1	0.9	33.1	1.0	15
	U	1	10.2	11.2	36	0.1	2.8	41.6	3.3	35
	U	2	9.5	14.5	32	0.4	3.0	44.1	18.8	80
2C029020	L	1	11.5	7.0	31	0.0	1.1	60.2	0.3	10
	L	2	10.4	10.9	29	0.0	0.6	58.6	0.2	5
	U	1	11.2	7.2	30	0.0	1.0	57.8	0.3	5
	U	2	10.6	9.7	28	0.0	0.8	57.1	0.1	15
2C035010	L	1*	10.0	8.7	441	0.0	3.3	129.8	10.1	5
	L	2*	10.0	11.9	720	0.2	4.5	134.0	10.5	15
	U	1*	10.6	7.8	274	0.0	2.7	96.5	5.5	10
	U	2*	10.1	12.1	320	0.3	2.7	94.0	2.3	10
2C035011	L	1	11.1	8.3	38	0.0	0.3	72.1	0.7	5
	L	2	10.8	8.1	41	1.3	1.1	62.6	0.7	5
	U	1	10.9	7.7	26	0.0	1.4	64.5	0.3	15
	U	2	10.6	8.5	29	0.1	0.4	58.6	0.3	10
2C035016	L	1*	10.6	7.6	332	0.0	2.6	98.2	6.1	10
	L	2*	10.2	11.2	577	0.1	3.5	118.2	8.9	15
	U	1	10.6	7.7	60	0.0	0.8	71.6	0.9	10
	U	2	10.5	8.3	51	0.1	0.4	71.9	0.5	10
2C035024	L	1	11.4	7.9	182	0.2	1.1	95.7	4.1	10
	L	2	11.3	8.4	250	0.2	0.6	61.7	1.3	10
	U	1	12.4	7.1	194	0.6	2.3	94.9	8.0	15
	U	2	12.8	12.9	223	0.5	2.0	43.6	2.4	10
2C035027	L	1	11.2	7.5	71	0.0	0.5	71.6	1.8	10
	L	2	11.6	5.2	86	0.1	0.8	78.4	0.5	5
	U	1	11.2	9.4	62	0.0	1.0	53.4	5.2	20
	U	2	10.1	14.6	66	0.3	1.1	44.3	2.2	10
2C035035	L	1*	10.1	12.0	561	0.0	26.6	172.3	14.3	10
	L	2*	9.7	14.0	602	0.1	27.8	224.4	11.9	10
	U	1	10.0	12.0	184	0.0	6.8	105.0	2.3	0
	U	2	10.0	12.0	182	0.1	4.0	100.4	1.9	5
2C035041	L	1*	9.3	14.0	373	0.0	10.2	74.1	19.4	5
	L	2*	9.3	14.9	335	0.1	4.1	86.2	19.9	15
	U	1	10.2	13.0	104	0.1	0.7	94.2	1.6	10
	U	2	9.6	15.1	111	0.1	0.5	75.9	1.4	15
2C035047	L	1	11.0	8.0	37	0.0	0.9	71.5	1.4	15
	L	2	11.3	7.1	41	0.1	0.4	65.7	1.1	10
	U	1	11.1	6.0	70	0.0	1.2	66.2	1.8	5
	U	2	10.8	8.8	62	0.1	0.7	60.9	2.0	5
2C035049	L	1	11.0	8.5	92	0.3	1.7	52.9	1.7	10
	L	2	10.7	12.3	103	0.3	1.9	57.8	0.8	10
	U	1	10.1	9.1	137	0.3	0.8	33.3	1.8	15
	U	2	9.4	9.9	130	0.1	1.2	36.8	1.0	10
2C036001	L	1	11.4	7.8	62	0.1	1.0	116.5	3.2	10
	L	2	9.9	14.0	75	0.1	0.9	117.5	5.5	15
	U	1	10.6	8.0	55	0.0	0.8	121.5	0.4	5
	U	2	9.3	9.0	67	0.1	0.5	141.2	1.9	10
2C040003	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	10.4	.	.	.	.	.	.

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
2C040006	L	1	10.5	10.1	138	0.1	1.1	68.9	2.2	3
	L	2	9.0	12.0	296	0.0	1.0	72.4	0.9	10
	U	1	10.2	10.7	54	0.1	3.6	30.0	5.1	15
	U	2	9.8	14.0	53	0.1	7.7	25.9	8.5	30
2C041001	L	1	9.5	13.9	69	0.0	1.3	68.7	1.1	5
	L	2	9.9	13.0	74	0.1	1.0	74.2	0.2	5
	U	1	9.6	14.0	64	0.1	3.0	63.1	1.4	5
	U	2	8.6	13.7	71	0.0	0.8	75.4	0.3	10
2C041002	L	1	9.6	12.5	46	0.1	1.1	80.9	5.4	10
	L	2	9.7	12.7	46	0.1	1.0	89.0	1.9	10
	U	1	8.4	13.8	39	0.3	4.5	76.7	3.2	30
	U	2	7.9	12.7	34	0.3	9.4	90.7	6.7	60
2C041005	L	1*	.	14.9	.	.	.	.	.	.
	U	1*	.	14.6	.	.	.	.	.	.
2C041007	L	1	9.7	14.6	69	0.1	2.3	83.5	2.4	5
	L	2	9.2	17.0	73	0.1	1.0	85.7	2.8	5
	U	1	9.8	14.5	62	0.1	1.0	73.9	3.3	15
	U	2	9.1	16.2	66	0.1	1.0	79.9	5.3	13
2C041014	L	1	9.9	11.8	80	0.1	1.1	52.8	1.1	5
	L	2	8.9	16.8	84	0.1	1.3	65.6	0.8	10
	U	1	10.0	12.2	82	0.1	0.9	53.3	1.1	5
	U	2	9.1	14.9	85	0.3	0.8	65.6	0.7	10
2C041016	L	1	9.3	14.0	69	0.1	1.9	69.6	14.8	10
	L	2	9.4	12.8	80	0.1	1.1	75.9	13.6	15
	U	1	8.9	14.1	95	0.1	2.0	74.2	7.2	10
	U	2	8.7	13.8	110	0.5	1.9	76.9	9.1	25
2C041027	L	1*	.	15.7	.	.	.	.	.	.
	U	1	9.2	13.0	108	0.1	3.0	67.1	4.9	10
	U	2	8.2	12.3	162	0.7	16.9	76.4	2.9	10
2C041029	L	1	9.2	14.5	35	0.0	0.7	55.1	1.7	10
	L	2	9.0	11.5	32	0.4	1.0	54.1	0.8	10
	U	1	8.9	13.9	33	0.0	0.9	51.9	0.1	10
	U	2	9.1	9.5	33	0.4	1.5	54.9	0.6	15
2C041033	L	1*	8.4	12.9	58	0.1	1.1	77.6	0.3	0
	L	2*	5.9	13.0	99	0.4	1.0	110.7	0.3	5
	U	1	9.9	11.0	34	0.1	0.7	56.4	1.7	5
	U	2	9.7	12.0	34	.	.	.	.	.
2C041035	L	1	9.0	12.1	87	0.3	3.0	53.9	12.6	30
	L	2	8.2	15.3	92	0.3	2.3	40.8	9.9	30
	U	1	8.7	11.5	92	0.3	5.3	55.3	13.8	30
	U	2	8.2	14.9	102	0.6	3.0	48.3	15.5	30
2C041036	L	1	9.6	9.8	148	0.1	1.3	61.2	2.9	20
	L	2	8.6	11.9	164	0.1	2.7	65.1	7.7	20
	U	1	9.8	9.8	60	0.1	0.8	61.7	0.8	10
	U	2	10.0	10.1	93	0.1	1.1	65.2	0.7	5
2C041037	L	1*	8.8	16.3	342	0.1	5.0	109.8	0.8	5
	L	2*	9.5	12.0	437	0.4	2.6	131.5	0.4	5
	U	1*	8.9	15.3	332	0.0	7.0	99.9	2.2	5
	U	2*	9.7	12.6	481	0.5	5.5	131.5	0.7	10

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
2C041039	L	1	11.6	7.1	33	0.1	0.6	74.9	0.7	5
	L	2	10.1	16.0	37	0.1	1.0	65.9	0.9	5
	U	1	11.0	9.0	30	0.0	0.6	80.7	0.7	5
	U	2	9.7	14.9	34	0.0	0.8	71.4	1.6	10
2C041040	L	1	9.7	12.5	34	0.1	1.5	70.1	1.1	5
	L	2	8.7	11.9	35	0.1	1.4	68.7	1.4	10
	U	1	9.7	10.0	38	0.1	1.4	81.6	1.1	5
	U	2	9.6	10.9	39	0.2	1.0	80.9	0.9	5
2C041043	L	1	8.6	12.9	142	0.1	1.3	98.2	1.9	0
	L	2	8.2	14.0	142	.	.	.	.	.
	U	1	9.2	10.5	43	0.3	1.8	118.2	1.7	5
	U	2	8.2	12.8	45	0.4	2.2	133.1	2.5	10
2C041045	L	1	11.3	7.0	41	0.1	1.6	71.6	0.7	5
	L	2	10.3	11.0	48	0.0	0.7	56.8	6.6	10
	U	1	10.4	9.2	42	0.0	0.9	71.2	0.7	1
	U	2	10.1	10.9	50	0.0	0.9	64.2	0.5	10
2C041051	L	1	11.0	6.1	29	0.1	0.6	50.9	0.4	15
	L	2	10.0	12.0	28	0.1	1.1	53.9	0.4	15
	U	1	6.8	7.0	36	0.1	1.9	47.8	0.3	15
	U	2	9.3	9.4	36	0.0	0.7	117.3	0.5	15
2C046004	L	1*	10.8	9.0	141	0.5	2.9	62.6	59.0	50
	L	2	8.1	18.0	295	0.5	3.8	36.6	6.4	40
	U	1*	11.0	9.3	159	0.8	5.3	74.9	53.0	60
	U	2	9.6	20.3	291	3.1	3.1	53.4	6.8	30
2C046005	L	1	11.0	7.8	35	0.0	1.1	79.2	9.1	15
	L	2	9.0	16.0	37	0.2	0.6	86.7	6.9	20
	U	1	10.8	8.3	34	0.0	0.8	78.2	7.0	10
	U	2	8.7	16.0	35	0.1	1.2	74.9	5.7	15
2C046009	L	1	9.7	16.9	57	0.0	0.0	107.7	10.7	25
	L	2	10.8	11.6	65	0.1	0.4	94.9	6.4	15
	U	1	9.9	11.0	93	0.0	0.5	121.0	25.0	35
	U	2	9.6	12.9	100	0.3	1.3	112.3	18.6	20
2C046011	L	1*	11.3	7.6	82	0.1	0.9	61.6	12.8	15
	L	2	10.6	14.3	154	0.1	1.1	58.9	0.8	10
	U	1*	11.0	8.0	90	0.0	1.2	70.2	15.2	15
	U	2	10.6	14.8	163	0.0	1.0	62.9	1.0	10
2C046013	L	1	11.2	7.8	34	0.0	0.6	64.1	5.7	5
	L	2	9.7	13.5	33	0.1	0.8	57.3	3.5	10
	U	1	10.6	7.0	32	0.0	1.0	59.4	4.9	5
	U	2	9.7	13.3	34	0.1	1.0	53.3	3.3	10
2C046015	L	1	10.0	9.8	143	1.5	1.3	67.6	5.2	5
	L	2	10.0	11.0	181	0.1	1.4	71.9	2.8	10
	U	1	7.5	22.9	105	0.0	2.5	42.4	4.4	10
	U	2	8.9	9.0	385	0.1	3.5	107.3	2.8	10
2C046016	L	1	9.9	13.9	172	0.1	1.8	113.2	20.0	40
	L	2	9.1	13.8	246	0.1	1.5	94.5	5.9	10
	U	1	9.8	12.9	83	0.1	1.3	129.8	46.0	65
	U	2	8.9	13.0	101	0.1	1.0	133.6	12.0	20
2C046017	L	1	10.2	11.9	81	0.1	2.0	119.0	17.2	20
	L	2	9.7	13.6	96	0.1	0.8	122.8	3.7	5
	U	1	10.3	13.0	60	0.1	0.9	119.8	8.6	15
	U	2	9.8	14.0	60	0.1	0.9	121.2	8.8	15

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
2C046018	L	1	10.4	11.5	78	0.0	0.0	125.4	1.5	15
	L	2	10.6	10.8	79	0.2	1.0	114.8	1.3	5
	U	1	11.2	8.8	66	0.0	0.5	117.4	3.7	18
	U	2	10.2	11.9	71	0.1	1.4	105.7	1.3	5
2C046021	L	1*	11.2	6.9	132	0.0	1.1	79.9	133.0	40
	L	2	9.6	14.5	261	0.0	0.8	81.9	8.1	5
	U	1	11.2	6.7	170	0.0	0.8	81.6	15.0	10
	U	2	9.4	14.9	308	0.1	0.7	86.5	7.3	5
2C046023	L	1	11.4	6.0	70	0.0	1.7	56.8	20.0	20
	L	2	10.2	17.4	121	0.3	1.0	48.1	9.8	30
	U	1*	10.8	6.8	51	0.0	0.9	56.4	92.0	45
	U	2	9.2	13.0	84	0.1	0.6	56.7	8.7	10
2C046030	L	1	11.7	7.5	222	0.0	1.6	101.5	8.8	15
	L	2	9.6	14.2	192	1.1	2.5	98.2	14.9	10
	U	1	10.4	9.5	45	0.0	0.3	75.4	0.4	5
	U	2	10.1	10.0	50	0.1	0.7	74.4	0.3	10
2C046031	L	1	11.4	12.0	196	0.0	2.6	69.2	7.9	25
	L	2	10.1	9.8	273	0.3	2.6	46.6	7.9	30
	U	1	10.6	16.2	195	0.1	1.8	65.2	13.7	25
	U	2	10.3	8.0	361	0.1	2.9	53.8	4.8	20
2C046033	L	1	11.4	6.0	20	0.0	0.9	38.5	0.4	5
	L	2	10.0	11.5	18	0.1	0.9	40.8	0.3	10
	U	1	11.5	5.6	20	0.0	1.1	36.3	0.5	5
	U	2	9.8	12.1	18	0.1	0.6	42.4	0.4	5
2C046034	L	1	11.9	3.2	22	0.0	0.6	42.9	0.3	5
	L	2	9.7	12.0	21	0.0	1.0	48.4	0.4	10
	U	1	11.4	3.5	30	0.0	0.6	46.1	0.5	5
	U	2	9.5	10.0	31	0.2	0.5	50.9	0.5	20
2C046041	L	1	10.4	7.9	64	0.0	1.2	55.1	8.2	10
	L	2	9.5	13.0	69	0.1	0.7	55.8	5.3	20
	U	1	9.7	7.2	37	0.1	1.0	42.9	13.3	10
	U	2	8.3	13.0	36	0.2	1.3	44.4	8.1	15
2C046043	L	1	11.4	2.1	39	0.0	0.8	46.1	0.9	5
	L	2	9.2	13.3	32	0.1	0.9	48.9	1.4	10
	U	1	11.6	2.1	37	0.0	1.0	48.3	0.7	10
	U	2	8.8	14.8	30	0.2	0.8	46.4	1.4	15
2C046046	L	1	10.2	12.0	259	0.0	0.8	119.8	0.8	5
	L	2	10.4	12.0	294	0.1	1.2	127.8	1.2	5
	U	1	9.4	11.0	286	0.0	1.2	110.7	0.6	5
	U	2	8.4	12.0	306	0.1	0.8	133.6	0.5	5
2C046047	L	1*	11.2	10.0	.	.	.	.	.	.
	U	1*	10.7	10.7	.	.	.	.	.	.
2C046048	L	1	11.4	8.2	91	0.1	1.0	135.6	1.7	10
	L	2	10.2	14.4	93	0.1	1.3	143.3	2.3	10
	U	1	10.7	9.0	63	0.1	0.6	103.2	5.5	5
	U	2	10.3	12.9	65	0.2	0.9	118.3	2.7	10
2C046050	L	1	9.2	13.8	59	0.0	5.4	74.0	1.5	25
	L	2	8.9	13.0	66	0.1	6.5	63.7	1.8	25
	U	1	8.3	8.5	22	0.0	0.3	90.2	0.3	10
	U	2	7.0	11.5	24	0.7	1.1	81.9	0.2	5

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
2C046052	L	1	10.0	11.5	241	0.1	2.9	72.6	2.2	5
	L	2	9.9	12.8	212	0.3	2.4	77.9	1.6	20
	U	1	9.8	11.0	247	0.1	4.8	63.1	2.8	10
	U	2	9.4	12.8	222	0.1	2.8	76.2	1.8	20
2C046053	L	1	9.6	11.0	28	0.1	0.8	45.3	0.9	10
	L	2	9.8	11.8	24	0.1	0.5	51.3	1.8	10
	U	1	9.7	12.2	28	0.1	0.8	42.4	1.1	5
	U	2	9.9	11.3	25	0.1	0.8	51.1	1.7	10
2C046055	L	1	11.0	6.9	167	0.0	1.1	65.1	1.1	15
	L	2	9.8	11.4	205	0.0	0.7	58.3	1.6	5
	U	1	10.2	6.8	247	0.0	0.9	76.9	2.5	10
	U	2	9.8	11.0	267	0.1	0.9	82.7	2.3	10
2C046062	L	1	10.2	10.5	48	0.3	2.3	50.1	3.9	15
	L	2	8.5	17.8	46	0.1	1.5	39.4	6.3	45
	U	1	9.8	8.5	54	0.1	1.6	33.1	6.9	20
	U	2	7.4	16.5	54	0.2	1.5	30.3	13.7	25
2C046063	L	1	9.1	19.7	189	0.4	2.7	30.8	5.6	30
	L	2	9.3	15.8	224	0.4	2.7	31.1	23.0	45
	U	1	8.1	15.7	288	0.4	18.2	66.1	25.0	45
	U	2	9.0	12.8	271	0.1	3.6	69.1	10.4	25
2C047004	L	1	11.2	10.0	54	0.0	6.2	71.4	1.6	5
	L	2	9.7	16.8	70	0.1	1.7	68.6	8.5	20
	U	1	11.2	8.0	53	0.1	1.0	73.2	1.2	5
	U	2	9.0	18.0	76	0.1	0.8	74.2	1.0	15
2C047007	L	1	10.1	10.0	38	0.0	1.6	88.2	1.2	5
	L	2	9.4	15.0	39	0.1	1.0	67.9	0.9	10
	U	1	9.7	11.0	40	0.1	1.3	93.2	0.6	5
	U	2	8.8	12.7	43	0.2	0.8	94.0	0.6	10
2C047010	L	1	9.5	12.8	21	0.0	1.5	64.9	0.4	10
	L	2	8.9	12.8	21	0.7	1.0	65.4	0.4	5
	U	1	9.5	11.0	21	0.1	1.3	67.2	0.3	5
	U	2	9.0	13.2	21	0.1	0.5	67.4	0.3	5
2C057004	L	1	9.4	13.0	30	0.0	0.8	63.1	5.1	10
	L	2	10.1	11.1	25	0.1	0.7	68.7	2.4	5
	U	1	9.1	11.8	26	0.1	0.7	63.7	3.5	10
	U	2	9.6	11.2	25	0.1	0.5	68.2	3.8	5
2C057011	L	1	11.2	8.3	94	0.1	1.6	62.2	1.3	5
	L	2	9.8	12.2	99	0.3	0.7	67.9	3.6	20
	U	1	9.8	5.3	111	0.1	1.5	96.5	0.5	10
	U	2	7.2	13.5	109	0.2	0.7	105.4	1.9	20
2C066013	L	1	8.4	19.3	311	0.1	4.0	43.1	16.8	40
	U	1	8.9	19.8	114	0.1	1.4	111.1	11.3	23
2C066017	L	1	9.2	17.0	397	0.0	2.2	112.3	1.4	10
	U	1	9.6	16.3	365	0.0	1.3	95.7	2.6	10
2C066022	L	1	8.9	20.1	162	0.1	1.2	101.5	4.1	10
	U	1*	8.6	21.1	322	0.0	0.7	178.9	2.6	5
2C066026	L	1	8.7	14.5	19	0.0	1.3	96.5	1.5	10
	U	1	7.0	13.2	56	0.3	1.3	61.1	1.1	5
2C066027	L	1	9.0	14.1	13	0.1	2.0	71.1	2.4	5
	U	1	5.4	13.0	15	0.0	0.9	75.9	0.5	0

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams *(continued)*.

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
2C066038	L	1	9.0	18.1	62	0.2	2.2	36.9	2.0	20
	U	1	8.8	17.5	65	0.1	3.5	45.1	2.6	25
2C066039	L	1	8.5	15.0	19	0.1	3.4	69.1	5.2	20
	U	1	7.1	18.5	51	0.1	4.5	7.2	1.9	25
2C067001	L	1*	8.3	20.0	615	0.0	1.1	76.1	4.4	20
	U	1*	8.9	21.5	609	0.1	1.2	74.6	6.8	15
2C077007	L	1	9.3	16.5	72	0.2	1.6	52.4	0.9	5
	U	1	8.9	15.5	63	0.0	1.0	54.4	1.1	5
2C077022	L	1	9.1	16.1	61	0.0	0.7	59.3	1.2	10
	U	1	9.2	16.0	17	0.0	1.2	73.1	3.6	10
2C077023	L	1	8.8	14.0	172	0.1	3.0	73.4	1.6	5
	U	1	8.8	19.2	68	0.1	1.4	77.9	10.2	20
2C077024	L	1	10.4	14.0	230	0.1	1.4	78.4	3.1	10
	U	1	10.0	13.5	131	0.0	0.8	79.4	3.8	5
2C088002	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2C088003	L	1	9.5	15.5	34	0.1	0.6	99.9	3.2	15
	U	1	9.6	13.0	67	1.3	1.0	82.2	1.9	5
2C088004	L	1	9.7	16.0	50	0.1	2.0	59.4	2.8	20
	U	1	8.9	23.0	65	2.2	27.1	28.6	13.0	75
2D072004	L	1	9.4	14.9	118	0.2	1.0	163.9	21.0	35
	U	1	9.4	16.5	109	0.2	0.9	167.1	28.0	40
2D072013	L	1	8.5	19.1	139	0.4	1.7	133.1	48.0	100
	U	1	8.9	21.0	72	0.3	1.4	177.1	43.0	75
2D073003	L	1	9.7	17.6	37	0.2	1.0	102.4	10.2	20
	U	1	9.6	13.8	23	0.1	1.0	104.9	8.9	15
2D073004	L	1	9.7	13.2	31	0.1	1.3	122.3	10.8	30
	U	1	9.2	14.8	27	0.0	0.8	113.2	13.8	30
2D073009	L	1	9.6	14.0	31	0.6	4.1	99.0	8.4	10
	U	1	9.4	13.1	18	0.1	1.7	85.7	29.0	20
2D073024	L	1	9.6	14.4	28	0.1	1.7	91.5	3.9	20
	U	1	9.7	17.1	26	0.1	2.1	93.2	3.7	20
2D073025	L	1	9.8	13.3	24	0.0	0.8	98.3	3.2	15
	U	1	9.8	13.3	26	0.2	1.0	103.0	3.4	15
2D073026	L	1	10.0	14.9	31	0.0	1.5	104.0	6.7	20
	U	1	9.6	13.5	38	0.1	1.4	108.2	6.4	10
2D073027	L	1	9.6	17.5	31	0.1	1.4	102.4	6.1	18
	U	1	7.5	16.1	16	0.1	1.1	114.8	8.7	20
2D073029	L	1	9.6	13.9	20	0.1	1.3	73.4	2.2	5
	U	1	9.4	14.8	25	0.1	1.4	114.0	2.7	10
2D073036	L	1	9.7	16.0	22	0.1	0.7	107.3	9.1	15
	U	1	9.0	14.9	21	0.1	1.0	110.7	9.5	15

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
2D073044	L	1	9.7	19.0	58	0.3	1.3	148.1	5.5	15
	U	1	7.8	15.3	77	0.1	1.0	155.6	0.6	5
2D073048	L	1	9.8	16.0	26	0.2	1.2	154.0	7.8	15
	U	1	9.7	13.0	16	0.1	0.6	137.3	1.8	5
2D073052	L	1	6.2	13.0	19	0.1	0.2	112.2	3.3	10
	U	1	8.8	14.9	16	0.1	0.8	102.0	4.2	20
2D073053	L	1	8.9	15.1	22	0.0	0.2	124.6	8.3	15
	U	1	9.2	18.3	21	0.0	0.1	124.0	5.6	15
2D073057	L	1*	7.2	16.0	520	0.8	5.0	218.7	53.0	30
	U	1	7.7	21.0	114	6.0	19.6	213.7	650.0	600
2D073066	L	1	9.9	19.2	36	0.8	2.3	123.0	6.5	30
	U	1	9.6	20.0	35	1.0	1.9	132.3	6.0	20
2D073075	L	1	10.0	18.1	32	0.2	1.1	163.1	22.0	30
	U	1	9.1	14.2	27	0.1	0.8	198.7	22.0	30
2D073080	L	1	9.5	15.8	33	0.9	11.3	128.2	17.0	20
	U	1	8.9	17.1	32	1.1	13.1	139.0	16.0	20
2D073086	L	1	9.7	16.8	142	0.2	0.6	111.5	23.0	40
	U	1	8.9	15.3	77	0.3	0.7	172.1	17.3	30
2D073092	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
2D073099	L	1	9.3	21.1	32	0.3	1.4	119.0	9.3	30
	U	1	7.7	18.9	42	0.1	1.4	130.3	10.8	30
2D073100	L	1	9.4	14.0	54	0.1	0.6	149.8	18.7	25
	U	1	8.9	14.2	36	0.2	0.9	163.1	34.0	40
2D073106	L	1	8.3	16.1	54	0.4	2.3	95.6	34.0	50
	U	1	8.4	15.1	52	0.3	0.0	96.0	26.0	43
2D074006	L	1	9.6	14.1	25	0.0	1.3	81.9	1.8	30
	U	1	9.8	13.2	38	0.1	1.3	105.9	4.3	18
2D074009	L	1	9.8	18.0	17	0.0	0.5	139.8	4.0	10
	U	1	9.4	17.0	17	0.1	0.7	141.1	3.5	25
2D074012	L	1	5.0	17.0	121	0.4	1.9	2.2	34.0	65
	U	1	6.8	17.0	36	0.3	1.8	87.4	9.3	25
2D083027	L	1	9.3	17.0	67	0.0	0.5	111.3	29.0	75
	U	1	9.4	13.9	47	0.0	1.1	153.9	127.0	95
2D083039	L	1	10.6	12.1	29	0.0	0.6	114.4	6.7	20
	U	1	8.6	12.1	23	0.0	0.7	146.9	8.8	15
2D083076	L	1	9.8	16.7	37	0.1	1.0	149.2	10.6	25
	U	1	9.8	15.1	35	0.2	1.0	229.0	20.0	40
2D083081	L	1	11.0	12.0	33	0.0	1.0	183.4	26.0	30
	U	1	8.8	8.0	42	0.4	1.4	207.2	114.0	150
2D083086	L	1	10.1	14.0	57	0.0	0.9	181.4	27.0	35
	U	1	9.9	17.1	45	0.0	0.1	179.4	14.0	25

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
2D083096	L	1	9.9	11.0	305	0.1	1.2	70.2	25.0	40
	U	1	9.4	12.0	82	2.0	3.8	121.7	9.3	150
2D083098	L	1	8.9	13.1	36	0.1	1.2	185.2	20.0	75
	U	1	8.4	12.0	26	0.1	1.1	280.3	1.9	5
2D084013	L	1	8.7	14.8	29	0.3	1.2	124.0	13.0	35
	U	1	9.8	17.9	27	0.2	0.9	128.2	12.5	15
2D084022	L	1	9.5	17.0	23	0.1	0.4	116.9	7.0	25
	U	1	9.8	14.0	13	0.0	0.0	112.0	3.3	20
2D084025	L	1	8.3	13.8	21	0.0	0.0	112.7	23.0	55
	U	1	8.5	16.2	42	0.0	0.0	131.9	16.6	35
2D084033	L	1	9.6	14.8	18	0.1	0.0	109.0	7.6	5
	U	1	9.3	11.8	18	0.1	1.9	108.6	4.8	15
2D084041	L	1	9.8	17.1	63	0.1	0.2	134.8	0.9	10
	U	1	9.8	17.5	55	0.3	0.9	140.2	0.6	10
2D084051	L	1	10.1	12.5	42	0.0	0.9	125.2	0.6	10
	U	1	10.4	10.4	21	0.0	1.0	148.6	1.3	15
2D084052	L	1	10.2	17.6	170	0.5	0.6	115.4	0.3	10
	U	1	9.6	17.0	132	0.0	1.0	85.7	1.9	20
2D084054	L	1	10.4	13.0	66	0.1	0.0	180.8	1.6	15
	U	1	7.8	11.8	11	0.0	0.0	97.3	0.5	10
2D084058	L	1	10.1	16.1	84	0.3	0.8	102.1	1.5	10
	U	1	11.2	15.3	84	0.3	0.0	120.6	1.1	5
2D084077	L	1	10.8	12.9	30	0.2	1.1	138.0	8.0	18
	U	1	8.8	19.0	35	0.2	1.1	150.5	16.4	25
2D084079	L	1	10.6	12.1	27	0.1	0.0	156.3	18.2	35
	U	1	9.4	16.0	29	0.0	0.0	154.7	24.0	50
2D084082	L	1	12.3	12.5	40	0.0	1.3	106.9	4.2	10
	U	1	10.1	12.5	70	0.2	3.5	149.6	15.5	45
2D093005	L	1	10.6	12.0	51	0.4	3.1	142.7	22.0	75
	U	1	9.2	18.0	53	0.2	1.4	186.8	44.0	100
2D093007	L	1	10.6	14.0	42	0.0	0.8	138.8	3.7	5
	U	1	10.1	13.0	29	0.0	1.0	154.1	4.2	5
2D093008	L	1	10.8	11.0	31	0.0	1.0	53.6	3.8	20
	U	1	10.7	14.0	31	0.0	1.0	181.6	15.0	40
2D094009	L	1	10.2	11.0	241	0.7	2.0	194.5	41.0	80
	U	1	10.8	9.0	284	0.9	1.7	217.1	25.0	65
3A058013	L	1	9.6	13.9	43	0.1	1.1	232.7	1.2	10
	U	1	9.3	14.3	44	0.1	1.4	233.5	1.2	10
3A058014	L	1	9.2	15.6	49	0.7	1.3	467.3	2.2	10
	U	1	6.6	14.9	79	2.3	1.5	457.4	2.3	10
3A068007	L	1	8.4	17.1	44	0.2	1.4	180.2	6.3	20
	U	1	9.5	15.5	30	0.2	1.8	188.6	4.8	20

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
3A068012	L	1	10.4	12.3	34	0.1	0.5	189.4	9.1	25
	U	1	10.0	12.2	27	0.1	0.7	169.4	8.9	20
3A068020	L	1	10.6	12.0	48	0.3	1.5	232.7	5.7	25
	U	1	8.8	11.0	37	1.0	3.1	199.4	8.7	25
3A069003	L	1	9.2	15.9	49	0.1	1.6	259.3	8.2	25
	U	1	9.5	16.5	49	0.2	1.7	201.1	7.7	20
3A079012	L	1	8.8	18.5	29	0.2	1.2	194.1	7.5	20
	U	1	9.2	17.0	27	0.0	0.8	187.4	7.4	25
3A086009	L	1	10.4	13.5	38	0.0	1.0	198.4	16.0	35
	U	1	10.7	10.6	41	0.0	1.7	199.2	14.0	40
3A086010	L	1	9.5	16.5	44	0.0	1.0	285.1	8.0	20
	U	1	8.4	14.5	27	0.0	0.5	185.9	4.1	5
3A086015	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3A086024	L	1	9.5	17.1	25	0.0	0.9	104.2	15.5	23
	U	1	10.3	13.4	22	0.0	1.1	118.5	7.9	20
3A087008	L	1	9.9	13.8	30	0.0	0.8	108.6	13.5	20
	U	1	9.7	14.3	27	0.0	1.0	112.0	11.4	20
3A088006	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3A088012	L	1	8.4	16.0	47	0.1	0.9	140.2	1.4	15
	U	1	9.2	16.5	40	0.1	0.8	129.0	4.4	10
3A088022	L	1	10.4	12.2	60	0.3	2.6	300.2	5.8	30
	U	1	10.4	12.0	62	0.4	3.8	320.2	4.9	25
3A088025	L	1	5.6	15.0	52	0.3	1.8	376.8	18.4	15
	U	1	7.5	15.0	75	0.1	1.6	319.4	12.9	30
3A088028	L	1	10.2	12.0	48	0.1	1.3	273.6	5.3	25
	U	1	4.8	12.1	44	0.1	1.0	316.9	4.8	35
3A089002	L	1	9.4	21.0	46	0.1	1.8	208.7	8.0	35
	U	1	8.8	16.5	39	0.1	1.2	202.1	17.0	35
3A089004	L	1	9.6	16.9	28	0.1	0.0	166.0	4.7	25
	U	1	9.3	18.0	27	0.3	3.8	177.5	8.5	20
3A089013	L	1	8.8	18.1	41	0.1	1.4	218.6	14.5	50
	U	1	8.6	20.1	41	0.1	2.8	194.9	12.9	55
3A089024	L	1	9.1	15.9	37	0.1	1.5	215.4	7.0	45
	U	1	8.6	19.2	30	0.1	1.3	265.3	6.1	20
3A089068	L	1	9.2	15.2	33	0.0	5.3	134.8	11.9	65
	U	1	9.7	17.8	40	0.1	2.8	178.4	3.0	20
3A089086	L	1	9.2	13.5	14	0.2	2.6	127.1	10.0	25
	U	1	9.5	18.3	11	0.1	0.2	139.7	6.9	25
3A097026	L	1	10.3	10.1	15	0.0	1.3	149.8	18.7	25
	U	1	10.0	11.5	13	0.0	0.9	142.1	17.7	15
3A097029	L	1	8.8	15.2	23	0.3	0.9	156.3	14.9	20
	U	1	7.9	13.1	19	0.0	1.0	165.8	18.4	30

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
3A097031	L	1	9.8	8.0	19	0.0	1.2	134.7	20.0	45
	U	1	10.1	9.1	17	0.0	1.4	140.9	19.0	25
3A098011	L	1	9.2	16.5	64	0.2	2.6	326.9	6.6	35
	U	1	8.8	18.0	55	0.3	1.6	405.1	3.3	18
3A098025	L	1	9.0	17.5	20	0.1	2.2	135.4	3.5	25
	U	1	8.5	16.0	14	0.2	0.9	150.8	10.6	15
3A098034	L	1	8.8	17.2	32	0.3	11.2	144.4	14.3	33
	U	1	8.4	18.9	31	0.0	3.7	122.7	8.7	25
3A098038	L	1	9.0	17.0	44	0.1	2.2	220.4	12.2	40
	U	1	9.2	15.5	44	0.1	1.3	206.2	16.8	35
3A098039	L	1	6.3	19.8	30	0.1	3.6	157.7	10.1	45
	U	1	8.3	20.5	23	0.0	0.0	25.5	4.7	40
3A098069	L	1	8.8	18.4	40	0.0	1.3	325.3	14.9	40
	U	1	9.2	17.2	40	0.3	0.0	292.2	6.9	30
3A098075	L	1	9.1	17.0	42	0.1	2.6	308.0	13.5	45
	U	1	8.5	16.2	53	3.4	20.3	260.7	28.0	50
3A098078	L	1	9.8	16.0	95	0.3	1.3	309.0	34.0	65
	U	1	8.4	13.0	84	0.3	6.2	270.2	21.0	45
3A098082	L	1	9.5	15.0	29	0.2	1.1	210.0	11.5	70
	U	1	9.7	11.8	25	0.1	2.1	213.2	7.4	50
3A099019	L	1	7.7	18.5	90	0.3	3.0	201.7	5.6	55
	U	1	9.0	18.0	85	0.5	3.0	463.0	11.5	55
3A099027	L	1	8.6	21.0	65	0.3	1.6	409.8	12.4	35
	U	1	7.9	20.0	44	0.2	1.4	309.9	18.0	60
3A099037	L	1	9.6	13.0	77	0.8	4.2	383.1	11.0	30
	U	1	9.2	17.3	49	0.8	3.0	493.0	6.4	35
3A099051	L	1	8.3	20.5	58	0.2	1.5	230.8	19.5	45
	U	1	9.9	15.9	57	0.5	3.4	223.4	12.6	50
3A099052	L	1	8.2	20.0	68	0.3	66.7	292.2	16.5	75
	U	1	9.4	15.0	54	0.3	3.7	291.4	18.6	60
3A099062	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3A106008	L	1	9.0	11.2	15	0.0	0.6	181.3	3.4	23
	U	1	9.9	13.9	19	0.0	0.5	223.8	4.8	20
3A106020	L	1	9.3	9.1	20	0.0	1.3	99.5	12.6	85
	U	1	8.5	10.3	19	0.0	2.6	92.4	14.7	90
3A106023	L	1	11.0	8.9	13	0.0	0.5	135.9	2.9	20
	U	1	10.4	13.2	14	0.0	1.1	137.0	2.9	20
3A106029	L	1	9.2	12.9	35	0.0	1.2	303.8	21.0	20
	U	1	9.3	15.0	32	0.0	0.4	266.3	13.0	25
3A106035	L	1	9.4	12.1	19	0.0	1.2	219.2	8.1	20
	U	1	9.5	12.8	14	0.0	1.2	190.8	9.1	15

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
3A107010	L	1	9.1	16.0	36	0.1	2.8	159.8	25.0	70
	U	1	9.5	17.0	35	0.2	3.0	151.8	25.0	60
3A107034	L	1	9.8	14.2	65	0.1	1.6	507.1	19.5	50
	U	1	10.1	12.9	59	0.2	0.5	568.0	14.8	40
3A107037	L	1	9.2	13.3	46	0.1	2.1	423.5	17.2	45
	U	1	8.8	15.1	45	0.0	1.1	470.7	31.0	90
3A107041	L	1	10.2	14.5	38	0.0	0.4	317.6	24.0	35
	U	1	9.0	17.0	42	0.0	1.6	261.6	19.1	40
3B036002	L	1	12.2	9.8	363	45.8	86.4	108.2	0.6	20
	L	2	12.4	7.5	417	40.3	96.2	112.3	6.2	25
	U	1	10.4	9.9	25	0.1	1.0	99.0	0.2	20
	U	2	10.9	7.2	22	0.1	1.5	100.6	0.3	15
3B037006	L	1	10.6	11.0	116	0.0	2.6	224.1	3.9	20
	L	2	9.4	11.0	122	0.0	2.2	205.8	6.3	20
	U	1	10.5	10.7	125	0.3	4.5	219.1	5.1	15
	U	2	11.1	12.2	124	0.1	2.0	207.0	6.0	30
3B037023	L	1	7.7	4.1	92	0.1	0.2	43.8	0.3	150
	L	2	5.6	10.5	83	0.2	1.1	48.7	0.5	125
	U	1	8.9	9.0	94	0.1	2.0	53.9	.	.
	U	2	8.2	11.5	88	0.1	4.4	56.3	1.7	30
3B037024	L	1	4.2	10.0	73	0.0	1.1	79.9	0.4	65
	L	2	3.2	10.0	61	0.2	1.6	77.7	0.4	45
	U	1	3.1	9.9	85	0.3	1.4	107.9	0.2	50
	U	2	1.2	8.9	88	0.1	0.7	135.0	0.3	55
3B042006	L	1	10.3	14.0	126	0.1	1.5	87.4	1.9	10
	L	2	11.2	9.1	120	0.1	1.8	102.6	2.3	15
	U	1	10.5	12.9	153	0.2	1.4	49.1	6.0	30
	U	2	10.8	10.3	141	0.2	0.6	49.3	8.9	20
3B042010	L	1	12.0	9.6	161	0.9	1.4	141.5	0.8	10
	L	2	10.8	9.0	147	0.7	0.7	151.9	0.9	15
	U	1	12.2	8.8	161	1.0	1.4	144.8	1.0	5
	U	2	11.6	8.2	149	0.7	1.0	148.3	0.9	15
3B042017	L	1	12.2	7.0	168	1.4	3.7	173.6	1.7	25
	L	2	11.9	9.0	152	1.2	1.8	174.9	1.6	10
	U	1	10.6	11.9	277	0.8	3.2	137.3	2.2	5
	U	2	11.9	9.2	259	0.8	0.6	156.2	0.5	10
3B042036	L	1	10.8	20.5	274	0.3	1.9	260.5	2.2	10
	L	2	10.9	11.9	277	0.2	1.5	246.9	2.3	20
	U	1	8.1	11.0	60	0.8	1.7	260.5	2.6	20
	U	2	8.5	11.2	56	0.7	1.1	305.3	2.8	30
3B042041	L	1	10.2	10.0	110	2.0	5.1	134.5	12.3	45
	L	2	7.2	15.0	123	0.3	8.0	130.4	13.2	65
	U	1	11.4	13.5	106	0.0	5.9	129.5	11.8	35
	U	2	9.4	17.0	107	0.2	3.8	110.8	14.5	60
3B042042	L	1	12.9	7.0	118	0.1	0.7	195.6	2.5	15
	L	2	11.1	16.0	114	0.2	1.0	208.4	3.3	35
	U	1	12.2	9.7	112	0.1	0.7	202.2	1.8	20
	U	2	11.1	15.0	108	0.2	0.9	210.5	4.2	20

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
3B043001	L	1	12.8	9.9	241	0.8	1.2	158.1	0.8	15
	L	2	12.9	7.8	223	0.7	1.4	166.8	0.8	10
	U	1	10.9	9.2	66	0.2	1.8	161.4	1.8	20
	U	2	11.1	9.0	60	0.2	0.8	165.8	1.8	10
3B043010	L	1	10.3	9.0	58	0.1	2.0	61.2	2.0	40
	L	2	9.8	13.0	60	0.1	2.1	72.2	2.8	35
	U	1	10.6	10.0	55	0.1	0.6	62.1	2.2	35
	U	2	9.5	16.2	53	0.0	1.3	56.2	2.9	20
3B043012	L	1	7.6	10.2	91	0.2	1.4	48.5	1.2	150
	L	2	8.6	8.7	114	0.1	1.4	58.0	1.1	100
	U	1	6.5	11.7	169	0.3	5.3	142.7	0.5	70
	U	2	5.7	16.0	104	0.1	1.6	31.1	1.3	150
3B043021	L	1	11.6	6.2	62	0.0	13.9	94.9	0.5	20
	L	2	10.2	11.9	62	0.2	17.6	71.4	0.8	10
	U	1	10.2	12.6	63	0.0	7.5	99.0	0.6	15
	U	2	9.2	12.9	61	0.0	8.1	118.9	7.5	10
3B043023	L	1	10.6	10.0	60	0.0	1.2	95.6	0.2	40
	L	2	10.2	10.0	37	0.1	0.8	100.8	0.4	20
	U	1	5.1	9.0	176	0.1	1.8	53.2	0.6	175
	U	2	3.0	9.0	178	0.2	2.5	58.0	0.7	150
3B043024	L	2	7.7	9.4	79	0.0	1.5	53.5	0.3	40
	U	1	8.7	9.2	80	0.3	1.3	67.1	0.8	50
	U	2	8.1	12.9	80	0.0	1.2	62.8	1.1	45
3B043032	L	1	9.8	11.9	81	0.1	1.0	64.4	1.1	55
	L	2	10.5	13.8	75	0.1	1.5	40.1	0.7	40
	U	1	8.0	11.3	144	0.2	1.3	79.8	1.0	65
	U	2	9.1	16.2	123	0.2	1.6	86.5	0.9	70
3B043033	L	1	8.0	11.1	60	0.0	1.0	44.8	0.6	50
	L	2	7.2	15.1	45	0.1	1.6	41.9	0.7	35
	U	1	7.5	12.2	65	0.1	1.3	37.3	0.7	50
	U	2	6.8	14.0	70	0.1	1.7	33.3	0.6	45
3B043034	L	1	6.8	12.0	73	0.0	1.2	63.3	0.8	75
	L	2	4.9	13.0	52	0.1	0.9	86.7	1.8	100
	U	1	5.2	10.1	87	0.3	1.3	59.2	0.3	50
	U	2	5.5	10.5	63	0.2	0.9	59.4	0.3	27
3B043035	L	1	9.8	6.5	45	0.1	3.3	106.5	0.6	20
	L	2	8.8	11.0	40	0.2	1.7	129.1	1.1	25
	U	1	9.8	8.0	44	0.0	2.6	100.7	0.6	20
	U	2	8.9	12.0	40	0.2	2.2	127.3	1.0	20
3B043053	L	1	10.7	12.5	219	0.1	4.7	141.9	4.0	10
	L	2	11.8	15.2	226	0.1	1.8	106.5	2.1	5
	U	1	9.3	13.0	205	0.1	2.9	147.4	5.0	5
	U	2	9.7	17.5	207	0.1	2.3	119.0	2.4	5
3B043055	L	1	11.6	7.0	60	0.9	2.3	124.0	0.8	50
	L	2	9.5	15.8	50	0.9	1.2	127.3	0.7	55
	U	1*	5.8	11.4	1294	1.8	41.3	106.5	13.2	95
	U	2*	8.0	18.5	783	2.2	26.6	109.0	12.9	125
3B043061	L	1*	10.7	10.6	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
3B043067	L	1	11.2	5.9	40	0.0	0.5	89.9	.	.
	L	2	9.8	11.0	32	0.0	0.7	101.8	0.4	20
	U	1	10.8	8.8	90	0.1	1.1	28.5	1.0	15
	U	2	9.0	17.1	89	0.1	1.6	20.6	1.1	20
3B043077	L	1*	14.2	14.2	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3B043079	L	1	9.8	13.0	92	0.2	2.3	206.2	6.2	150
	L	2	10.3	12.9	125	0.4	2.1	200.3	6.3	90
	U	1	9.6	10.5	66	0.2	1.6	221.4	4.4	225
	U	2	6.7	14.5	69	1.1	2.1	248.6	8.3	250
3B047003	L	1	13.4	7.0	114	10.8	27.0	293.6	.	.
	L	2	10.6	11.9	109	0.2	0.2	196.5	5.7	25
	U	1	12.2	6.0	52	0.4	1.1	301.9	.	.
	U	2	10.3	11.8	49	0.3	0.5	365.5	4.3	25
3B048023	L	1	12.3	6.9	153	0.1	2.6	232.0	2.7	20
	L	2	11.1	12.7	141	0.3	1.3	249.6	3.6	25
	U	1	10.6	10.0	127	0.0	0.9	138.1	0.6	10
	U	2	10.2	15.5	122	0.0	0.8	149.4	0.4	10
3B048029	L	1	12.7	8.1	160	0.5	1.1	92.4	48.0	55
	L	2	10.6	11.1	196	1.0	2.1	58.2	27.0	80
	U	1	12.1	9.8	71	0.6	1.0	149.0	.	.
	U	2	12.2	12.0	107	0.8	1.8	83.5	43.0	100
3B048034	L	1	7.3	13.5	59	0.3	0.8	218.7	1.8	40
	L	2	4.2	10.8	57	1.8	1.0	242.9	7.9	250
	U	1	9.6	12.2	50	0.1	2.3	106.5	4.4	10
	U	2	8.6	12.7	205	0.0	3.0	67.8	13.7	50
3B048046	L	1	12.4	7.9	380	24.1	16.1	320.2	2.3	25
	L	2	10.7	14.0	434	25.0	62.8	439.2	6.2	25
	U	1	11.4	9.7	215	0.5	7.2	134.8	2.5	15
	U	2	11.5	11.0	192	0.2	7.3	130.6	2.7	35
3B048063	L	1	9.8	13.0	44	0.1	2.9	105.7	3.3	30
	L	2	10.0	15.2	41	0.0	2.4	110.5	3.0	45
	U	1	8.8	8.1	49	0.1	1.9	138.1	1.6	20
	U	2	10.4	17.0	41	0.1	0.9	122.5	2.2	40
3B048065	L	1*	.	13.3	.	.	.	.	.	.
	U	1*	.	14.0	.	.	.	.	.	.
3B048082	L	1	11.6	8.2	37	0.1	0.9	235.3	2.2	15
	L	2	10.0	16.0	33	0.0	0.9	254.8	3.7	35
	U	1	8.5	8.1	31	0.0	0.5	100.7	.	.
	U	2	7.8	12.1	25	0.2	0.4	125.3	2.0	5
3B048094	L	1	10.2	8.0	37	0.1	1.6	163.9	6.2	40
	L	2	8.0	17.3	35	0.1	0.4	185.6	7.0	70
	U	1	10.6	6.9	36	0.1	2.3	177.1	6.2	35
	U	2	9.1	15.0	32	0.0	0.8	199.7	8.3	65
3B048101	L	1	10.8	12.0	65	0.1	2.0	109.8	3.7	30
	U	1	11.3	8.5	29	0.1	1.1	149.8	1.0	20
	U	2	8.8	16.5	26	0.0	0.7	158.4	2.6	30
3B049010	L	1	10.8	9.8	132	2.6	1.7	102.6	1.6	45
	L	2	7.3	14.0	118	1.8	2.6	30.4	0.1	20
	U	1	11.8	12.5	122	1.8	0.9	187.2	1.2	40
	U	2	3.4	14.0	127	0.8	25.5	137.0	0.4	10

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
3B049011	L	1	14.2	14.2	100	0.0	0.6	194.8	4.6	25
	L	2	6.6	13.2	95	0.1	0.6	183.0	1.3	10
	U	1	14.1	13.9	166	0.0	0.7	176.3	1.0	15
	U	2	1.2	12.5	175	0.0	2.3	215.8	0.4	15
3B049022	L	1	9.6	14.0	124	0.0	0.7	178.1	0.5	25
	L	2	8.9	11.9	126	0.0	1.0	172.3	0.7	20
	U	1	9.4	10.7	131	0.0	0.6	190.7	1.0	35
	U	2	9.1	17.2	92	0.1	0.9	76.9	0.7	35
3B049031	L	1	10.1	7.9	134	19.1	2.1	117.0	1.6	150
	L	2	9.7	11.9	129	0.3	4.7	148.7	1.9	150
	U	1	6.2	8.9	305	0.1	12.3	98.1	2.3	30
	U	2	6.5	11.2	302	0.0	11.6	139.4	3.2	13
3B058021	L	1	9.7	18.0	63	0.0	0.5	217.6	3.5	15
	L	2	9.7	14.0	64	0.1	0.0	213.0	2.9	25
	U	1	9.2	16.9	53	0.0	0.6	168.0	3.8	10
	U	2	9.6	14.0	52	0.0	0.3	169.1	2.5	20
3B058023	L	1	9.8	17.0	86	0.1	1.3	377.7	8.9	45
	L	2	9.1	13.5	91	0.1	3.7	376.7	11.6	60
	U	1	10.4	12.2	70	0.2	0.0	401.3	3.8	20
	U	2	9.3	12.0	74	0.2	0.8	456.5	2.8	25
3B059007	L	1	11.4	10.0	69	0.8	3.2	139.0	10.9	60
	L	2	9.6	13.5	61	0.7	5.3	155.7	10.8	73
	U	1	7.8	8.3	29	0.1	7.0	30.4	11.0	95
	U	2	3.8	15.9	35	0.3	24.3	66.9	21.0	175
3B059009	L	1	8.8	13.0	27	0.2	1.1	35.1	3.0	75
	L	2	8.4	16.0	26	0.0	1.6	33.2	6.6	175
	U	1	9.6	12.5	27	0.2	1.2	42.3	3.2	75
	U	2	8.4	14.3	26	0.2	1.1	39.4	5.8	125
3B059013	L	1*	9.4	8.5	284	0.4	3.0	94.0	26.0	85
	L	2	9.6	14.3	34	0.0	1.4	166.8	9.5	50
	U	1	10.8	7.8	30	0.1	0.8	107.3	0.8	20
	U	2	7.1	12.1	25	0.0	1.6	124.2	3.0	40
3B059029	L	1	11.8	8.2	88	0.5	1.1	153.1	12.5	55
	L	2	11.0	13.5	87	0.9	0.4	155.7	11.5	75
	U	1	12.0	10.1	75	0.2	1.0	95.7	3.6	70
	U	2	6.5	13.0	74	0.2	0.8	99.6	4.3	175
3B059034	L	2	10.8	17.9	268	0.3	5.7	121.8	11.1	60
	U	1	7.7	13.5	48	0.3	2.2	128.2	10.5	85
	U	2	6.8	15.0	41	0.4	5.3	127.5	19.0	70
3B059038	L	2	7.1	18.0	122	0.2	0.9	95.4	11.3	90
	U	1	9.2	15.2	111	0.2	0.9	98.1	10.7	70
	U	2	6.6	16.2	132	0.1	1.4	101.5	15.0	90
3B059073	L	1*	9.9	16.5	135	0.5	4.1	120.2	17.2	45
	L	2	11.6	16.5	138	0.5	2.6	123.5	4.9	45
	U	1*	8.4	16.5	176	1.3	5.0	86.7	.	150
	U	2	6.1	12.5	155	1.4	23.6	136.8	21.0	45
3B059075	L	1	9.5	15.5	162	0.3	1.2	75.7	23.0	40
	U	1	9.8	16.5	126	0.2	1.3	89.7	24.0	45
3B059080	L	1	9.0	15.1	65	0.3	1.5	184.1	3.5	40
	L	2	7.4	19.5	76	0.2	5.1	180.8	2.5	50
	U	1	10.9	13.2	66	0.4	1.4	203.6	3.1	35
	U	2	9.4	19.0	68	0.2	3.2	195.8	2.1	33

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
3B059090	L	1*	.	.	.	.	.	.	.	.
	U	1*	9.4	14.8	369	0.1	1.4	78.4	6.5	15
3B059105	L	1	10.9	15.2	260	0.0	4.6	159.9	7.1	30
	L	2	10.0	16.2	262	0.0	4.1	156.3	6.0	30
	U	1	7.7	14.2	106	0.0	1.3	284.6	1.9	10
	U	2	7.2	19.0	104	0.2	2.2	286.5	3.6	5
3B070004	L	2	8.0	18.0	43	0.3	2.2	62.9	11.9	200
	U	1	9.2	13.0	40	0.0	1.1	67.3	4.8	150
	U	2	5.7	16.0	45	0.5	1.8	35.2	2.9	250
3B070009	L	1	9.2	12.9	205	0.3	1.3	160.5	3.3	35
	L	2	10.2	19.0	220	0.9	1.2	146.7	2.5	40
	U	1	8.9	11.5	128	0.0	1.6	134.9	4.1	65
	U	2	9.4	18.0	138	0.4	2.2	113.8	3.3	65
3B070015	L	1	9.0	12.5	26	0.0	1.0	131.5	4.0	80
	L	2	7.1	21.2	24	0.1	1.7	135.8	4.6	125
	U	1	11.2	12.0	26	0.1	0.4	132.6	5.0	80
	U	2	7.5	16.2	23	0.2	1.3	136.4	5.4	150
3B070024	L	1	10.2	11.9	97	0.0	1.1	222.4	3.2	35
	L	2	9.6	15.5	96	0.2	2.2	202.5	2.7	50
	U	1	10.2	10.3	117	0.0	2.0	219.6	3.0	15
	U	2	8.9	16.1	121	0.2	2.3	201.7	1.8	15
3B070043	L	1	4.1	15.0	199	0.9	5.0	168.5	12.2	200
	L	2	8.2	18.5	234	0.9	1.1	171.8	10.8	175
	U	1	4.3	17.0	204	1.1	5.4	179.7	12.2	200
	U	2	7.1	19.1	229	1.2	1.6	181.7	11.4	200
3B070050	L	1	9.9	11.8	71	0.3	3.4	40.9	18.8	150
	L	2	6.8	16.8	94	0.6	4.5	37.6	22.0	150
	U	1	7.1	11.2	71	0.4	3.1	38.6	13.4	150
	U	2	6.8	20.1	98	0.6	4.1	34.8	15.7	150
3B070058	L	1	7.6	11.1	49	0.6	1.2	91.4	9.1	200
	L	2	7.0	22.9	59	0.5	1.5	99.9	8.2	120
	U	1	6.8	12.0	75	0.6	5.6	69.6	10.5	100
	U	2	7.9	11.3	115	0.4	4.4	97.4	10.2	80
3B070059	L	1	10.6	16.7	87	0.7	1.7	12.0	3.1	75
	L	2	7.4	16.6	90	1.1	4.6	20.3	3.1	125
	U	1	7.5	11.2	59	0.4	1.3	13.9	2.8	200
	U	2	5.3	17.0	78	0.2	1.8	38.8	3.6	250
3B070075	L	1	8.7	15.5	94	0.5	1.3	47.8	7.1	150
	L	2	7.8	18.0	105	0.4	1.9	36.3	5.8	150
	U	1	9.8	13.0	97	2.3	4.5	94.7	12.2	150
	U	2	10.8	20.0	105	0.7	1.9	70.9	15.9	175
3C123008	L	1	8.0	22.1	23	1.6	1.3	46.8	6.3	70
	U	1	7.9	20.8	22	2.8	0.9	44.8	4.2	70
3C123009	L	1	8.2	19.9	12	0.0	0.7	69.1	0.7	10
	U	1	8.2	19.1	12	0.0	0.7	51.6	0.4	10
3C123010	L	1*	.	.	.	.	.	.	.	.
	U	1*	7.8	20.0	13	0.0	16.9	72.2	0.2	15
3C123011	L	1	8.3	22.0	11	0.0	1.0	60.2	0.8	20
	U	1	7.6	22.1	12	0.1	0.7	61.1	0.4	10

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
3C123013	L	1	6.8	20.1	18	0.0	1.3	37.1	10.3	150
	U	1	7.8	23.9	19	0.2	0.7	73.2	1.5	65
3C123016	L	1	8.6	22.0	14	0.1	1.0	58.9	1.9	10
	U	1	8.1	22.0	15	0.0	0.8	64.7	0.3	10
3C123017	L	1	7.7	25.0	43	0.3	0.7	50.6	0.5	35
	U	1	7.7	20.0	19	0.1	0.7	52.3	0.0	15
3C123018	L	1	8.0	19.1	21	0.1	0.7	43.3	0.5	25
	U	1	7.7	22.0	16	0.2	0.6	41.1	0.4	20
3C124001	L	1	7.4	26.0	93	0.3	6.8	52.9	20.0	95
	U	1	1.4	20.8	39	0.1	4.5	3.5	5.1	125
3C124002	L	1	7.5	19.0	177	0.1	1.1	112.3	1.3	15
	U	1*	.	.	.	.	.	.	.	.
3C124003	L	1	6.1	28.8	34	0.2	1.0	-0.1	2.6	225
	U	1*	.	.	.	.	.	.	.	.
3C124006	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C124010	L	1*	.	.	.	.	.	.	.	.
	U	1	2.0	18.0	31	0.3	4.8	24.5	10.4	175
3C124012	L	1	6.1	18.9	17	0.2	3.9	74.6	4.2	65
	U	1*	.	.	.	.	.	.	.	.
3C124015	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C124018	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C124019	L	1	7.6	19.0	15	0.2	2.6	40.8	4.8	150
	U	1	8.1	20.0	21	0.1	2.2	59.9	9.7	90
3C124020	L	1	8.0	21.1	16	0.0	1.0	47.6	3.5	60
	U	1	7.2	20.1	12	0.0	1.5	49.1	1.3	30
3C124021	L	1	8.1	18.0	16	0.1	0.9	47.4	1.4	70
	U	1	1.7	16.4	23	0.2	0.5	61.6	0.7	85
3C124023	L	1	8.0	23.5	83	0.3	2.6	57.3	1.6	35
	U	1	7.3	27.1	78	0.3	6.7	14.1	3.1	55
3C124025	L	1	8.7	17.7	17	3.0	1.3	70.2	6.7	25
	U	1	8.8	20.0	22	7.2	1.5	78.7	2.8	10
3C124026	L	1	2.3	24.9	111	9.1	18.1	114.0	4.1	45
	U	1	4.7	24.1	31	1.5	1.5	4.2	0.9	75
3C124028	L	1	5.6	20.0	63	1.0	6.0	135.6	18.9	95
	U	1	7.0	18.8	57	0.9	10.8	44.3	14.0	150
3C124032	L	1	7.5	19.2	12	0.1	1.5	49.1	0.3	15
	U	1	5.5	19.5	13	0.0	0.7	53.4	0.2	10
3C124034	L	1	7.5	22.2	33	0.1	4.1	44.3	6.8	40
	U	1*	.	.	.	.	.	.	.	.

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
3C124036	L	1	7.3	19.5	18	0.1	2.2	45.2	11.1	60
	U	1	8.2	22.0	14	0.0	0.7	51.6	0.8	10
3C124038	L	1	8.3	19.9	12	0.1	1.0	44.3	0.7	60
	U	1	7.9	21.0	12	0.0	0.7	45.1	0.7	55
3C124045	L	1	6.7	22.5	44	0.1	1.9	125.2	1.1	8
	U	1*	.	.	.	.	.	.	.	.
3C124047	L	1	1.6	21.1	40	0.1	5.6	97.4	2.9	150
	U	1*	.	.	.	.	.	.	.	.
3C124049	L	1*	.	.	.	.	.	.	.	.
	U	1	1.3	23.4	46	0.3	3.7	87.4	6.9	200
3C124050	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C124052	L	1	7.1	21.0	19	0.1	3.8	71.7	3.3	65
	U	1*	.	.	.	.	.	.	.	.
3C125002	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C125003	L	1	8.9	15.4	135	0.5	2.3	139.8	1.9	375
	U	1	5.4	15.1	99	0.1	1.7	101.5	0.8	450
3C126003	L	1	9.3	15.5	66	0.5	1.0	106.5	1.1	75
	U	1	7.8	16.0	59	0.6	0.9	120.7	0.5	50
3C132004	L	1	7.8	23.0	149	1.3	2.4	26.6	2.7	150
	U	1	7.0	22.1	143	1.1	2.9	23.0	3.4	125
3C132006	L	1*	.	.	.	.	.	.	.	.
	U	1	4.8	19.4	76	2.0	3.0	65.1	8.5	450
3C132009	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C132011	L	1	6.2	19.1	44	0.8	2.1	45.4	4.7	150
	U	1	1.1	17.0	157	0.7	0.6	172.4	0.5	475
3C133001	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C133002	L	1	5.6	18.9	54	0.7	1.3	102.4	1.7	125
	U	1	6.7	16.4	62	0.7	1.1	112.3	2.0	125
3C133003	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C133005	L	1	7.2	23.0	35	3.4	1.0	57.9	1.2	125
	U	1	7.4	23.0	35	3.6	0.7	65.6	1.2	125
3C133008	L	1	7.0	19.0	36	2.2	0.8	97.4	0.4	45
	U	1	6.9	16.0	40	3.1	0.9	104.9	0.9	80
3C133011	L	1*	.	.	.	.	.	.	.	.
	U	1*	2.3	18.9	52	3.3	2.5	92.4	1.7	175
3C133013	L	1	7.9	17.0	69	0.5	1.5	100.7	1.6	425
	U	1	7.1	25.0	70	0.5	2.9	96.5	2.2	450

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-4. Miscellaneous water quality parameters at regular streams (continued).

RCH_ID	NODE	SAMPLE	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
3C133024	L	1*	.	.	.	.	.	.	.	.
	U	1	1.4	18.9	205	0.0	13.2	198.7	1.4	900
3C133029	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C136032	L	1*	.	.	.	.	.	.	.	.
	U	1*	.	.	.	.	.	.	.	.
3C136033	L	1	1.4	22.2	95	0.8	1.5	7.2	0.9	360
	U	1	0.7	20.9	96	0.8	1.4	4.8	0.5	350

*Non-interest samples/reaches--see Table 4-3 for explanation.

Table 7-5. Major cation and anion concentrations at special interest sites

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SO416	NO316	CL16	CO316	HCO316	OH16
1D030910	L	1	129.7	47.4	14.1	5.3	138.0	11.6	15.0	0.0	14.5	0.0
	L	2	134.2	49.7	17.5	5.2	145.7	10.4	16.8	0.0	16.2	0.0
1D030911	L	1	208.1	44.1	13.2	5.3	138.7	16.3	14.1	0.0	56.8	0.0
	L	2	224.1	47.9	14.3	5.0	144.3	15.9	15.6	0.0	63.6	0.0
1D030912	L	1	59.9	49.8	13.9	6.3	126.6	15.6	13.4	0.0	1.3	0.0
	L	2	61.4	51.2	15.4	6.1	122.0	13.9	13.6	0.0	0.8	0.0
1D030924	L	1	219.1	126.7	43.3	9.7	224.9	0.8	44.9	0.1	67.7	0.1
	L	2	220.8	140.0	50.5	10.3	252.8	0.0	50.5	0.3	153.2	0.2
1D030925	L	1	276.4	162.1	415.0	10.9	276.9	4.6	485.2	0.1	128.7	0.1
	L	2	198.1	113.8	317.7	8.8	217.1	7.0	346.4	0.1	81.9	0.1
1D030926	L	1	125.2	126.7	38.5	12.1	214.4	0.6	31.0	0.0	13.7	0.0
	L	2	131.2	127.7	40.4	12.8	228.9	0.0	34.8	0.0	45.7	0.1
2A07891	L	1	71.9	41.8	30.2	9.9	60.0	46.3	11.6	0.0	20.6	0.0
	L	2	66.9	40.9	30.2	8.9	45.2	46.9	13.1	0.0	21.7	0.0
	L	3	69.4	41.2	32.3	9.4	46.8	45.8	11.7	0.0	37.7	0.0
	L	4	72.9	44.0	36.4	8.2	46.8	49.0	13.2	0.0	38.6	0.0
2A07892	L	1	31.7	17.8	39.9	11.9	25.0	3.5	12.9	0.0	47.3	0.1
	L	2	31.0	17.6	39.8	12.0	18.6	3.4	13.8	0.0	47.6	0.0
	L	3	34.5	18.0	43.5	13.9	14.7	3.2	13.3	0.0	48.2	0.0
	L	4	40.6	22.3	43.5	14.0	21.2	7.0	10.6	0.0	59.0	0.1
2A07893	L	0	43.0	32.6	50.8	9.2	13.0	0.0	28.8	0.0	76.5	0.0
	L	1	39.9	35.8	51.8	10.4	12.4	0.6	28.5	0.0	60.3	0.1
	L	2	39.2	33.5	50.0	9.7	16.4	0.0	29.9	0.0	59.8	0.1
	L	3	38.9	36.2	53.9	10.8	12.5	1.3	29.1	0.0	70.5	0.1
	L	4	45.2	41.9	55.7	10.6	12.5	2.2	28.8	0.1	78.1	0.1
2A07894	L	1	38.8	25.2	36.0	9.7	13.8	1.4	13.5	0.1	60.5	0.1
	L	2	36.0	25.1	35.1	10.1	16.1	2.0	15.7	0.0	63.4	0.1
	L	3	44.6	26.6	37.3	10.8	12.1	1.2	14.6	0.0	59.7	0.1
	L	4	53.9	31.7	40.0	10.9	14.0	3.5	13.3	0.1	74.7	0.1
2A07895	L	1	74.8	47.1	56.1	13.7	22.5	2.0	13.9	0.2	120.4	0.2
	L	2	56.9	44.5	52.6	12.8	20.0	2.4	14.2	0.2	118.8	0.1
	L	3	62.9	43.6	56.3	15.2	20.7	0.7	13.3	0.1	103.4	0.1
	L	4	80.6	54.1	62.0	15.9	21.9	3.8	12.8	0.1	133.8	0.1
	U	3	46.4	38.1	50.0	13.7	17.4	0.4	11.9	0.1	90.4	0.1
2A07896	L	1	27.5	20.9	34.6	7.7	22.3	1.3	15.4	0.0	32.8	0.0
	L	2	26.3	19.7	32.9	8.3	22.9	0.9	16.7	0.0	41.7	0.1
	L	3	29.6	20.6	34.1	8.5	21.7	1.7	15.8	0.0	31.3	0.1
	L	4	35.6	25.3	37.5	8.0	24.4	2.4	13.6	0.0	42.5	0.0
2A08891	L	1	18.0	19.1	31.5	9.6	14.6	0.2	17.3	0.0	27.5	0.0
	L	2	18.0	19.3	31.2	9.4	16.8	0.5	19.2	0.0	32.4	0.0
	L	3	18.9	19.1	31.9	10.4	14.0	0.5	18.9	0.0	30.5	0.0
	L	4	20.9	21.8	36.2	11.4	15.6	0.8	18.4	0.0	40.5	0.0
	U	3	24.9	22.0	35.0	11.3	11.7	1.5	21.8	0.0	49.4	0.0
2B035913	L	1	151.0	83.5	60.3	16.1	204.5	40.9	78.2	0.0	3.4	0.0
	L	2	178.1	84.7	84.4	17.1	185.9	41.0	128.9	0.0	6.5	0.0

Table 7-5. Major cation and anion concentrations at special interest sites (continued)

RCH_ID	NODE	SAMRN	CA16	MG16	NA16	K16	SO416	NO316	CL16	CO316	HCO316	OH16
2B036903	L	1	75.6	62.8	18.2	13.9	148.8	2.0	18.8	0.0	3.0	0.0
	L	2	78.3	66.3	18.2	14.9	150.7	1.0	17.8	0.0	1.0	0.0
2B036904	L	1	170.4	127.7	34.4	24.5	183.2	0.7	28.1	0.2	162.6	0.1
	L	2	194.6	127.5	32.7	24.5	171.8	0.6	26.2	0.1	130.7	0.1
2B036905	L	1	127.5	73.0	20.2	15.6	162.6	2.5	19.4	0.0	49.9	0.1
	L	2	125.7	73.0	19.3	15.9	158.6	1.0	18.8	0.0	35.1	0.0
2B042922	L	1	364.8	230.3	264.5	20.2	126.6	62.9	375.2	0.4	256.8	0.2
	L	2	365.8	222.3	288.5	18.2	117.8	58.0	391.1	1.3	354.5	0.4
2B047916	L	1	23.9	42.4	22.6	32.7	81.6	0.9	25.0	0.0	12.5	0.0
	L	2	27.0	42.5	21.8	33.7	81.4	1.3	19.3	0.0	23.3	0.0
2B047917	L	1	22.6	44.7	26.8	37.3	97.2	0.1	21.0	0.0	2.2	0.0
	L	2	20.0	41.2	24.0	44.5	102.4	0.0	20.8	0.0	2.1	0.0
2B047918	L	1	65.5	39.0	72.0	8.4	97.2	8.8	25.1	0.0	49.0	0.0
	L	2	69.2	41.0	73.1	8.2	104.8	11.7	25.1	0.0	46.0	0.0
2B047919	L	1	58.9	108.6	30.9	24.6	237.3	0.8	30.2	0.0	0.2	0.0
	L	2	60.1	108.2	28.3	25.6	229.1	0.0	31.2	0.0	0.5	0.0
2B047920	L	1	34.6	19.5	58.9	9.9	34.1	1.3	23.1	0.0	54.4	0.1
	L	2	35.8	21.0	58.1	9.4	39.9	0.7	23.7	0.0	52.6	0.1
2B047929	L	1	360.8	176.0	36.3	29.4	152.2	0.1	26.2	1.0	396.6	0.3
	L	2	410.8	188.7	36.8	29.6	142.7	0.0	27.0	3.3	522.7	0.7
2C035915	L	1	113.5	81.4	47.6	11.7	272.1	19.9	76.1	0.0	0.2	0.0
	L	2	137.2	114.3	33.9	12.4	324.8	16.1	49.9	0.0	0.4	0.0
2C041901	L	1	75.3	62.0	15.5	19.2	96.8	54.2	15.8	0.0	7.9	0.0
	L	2	70.9	57.9	17.1	18.1	88.5	47.6	14.3	0.0	9.2	0.0
2C041902	L	1	330.8	98.7	28.4	20.3	179.5	38.1	12.9	0.3	183.6	0.2
	L	2	425.1	120.9	34.7	23.4	178.0	34.4	14.8	0.8	295.7	0.3
2C041914	L	1	77.8	58.1	13.0	10.1	182.7	8.8	19.7	0.0	0.2	0.0
	L	2	78.3	58.0	13.7	9.8	190.5	8.9	21.2	0.0	0.3	0.0
2C077923	L	1	11.0	32.6	21.7	11.1	39.6	0.2	19.0	0.0	11.3	0.0
2D083927	L	1	20.2	41.2	38.6	12.1	59.8	0.1	36.0	0.0	11.9	0.0
2D083928	L	1	41.0	46.0	48.6	11.5	55.9	0.9	35.9	0.0	61.3	0.1
3B042907	L	1	631.3	292.2	999.5	72.5	453.4	161.8	1130.1	0.1	186.1	0.1
	L	2	614.6	281.6	888.5	72.3	407.0	166.5	950.1	0.2	232.5	0.1
3B042908	L	1	396.8	266.9	354.3	89.2	443.5	33.3	468.3	0.1	159.0	0.0
	L	2	377.4	267.6	388.3	97.5	407.9	40.0	470.0	0.2	188.9	0.1
3B042921	L	1	412.7	347.1	193.1	18.1	204.9	354.9	237.5	0.1	93.1	0.1
	L	2	334.5	285.5	176.7	16.1	177.4	324.0	225.1	0.1	83.1	0.1
3B043909	L	1	47.9	63.3	97.0	9.9	220.7	2.2	85.8	0.0	0.4	0.0
	L	2	26.9	37.8	60.4	7.1	131.2	0.0	93.2	0.0	0.6	0.0
3B048906	L	1	800.7	262.4	310.7	34.7	609.2	76.4	457.0	0.3	219.3	0.1
	L	2	733.7	246.0	307.5	33.8	570.5	56.9	405.0	0.5	275.3	0.2

Table 7-6. Acid neutralizing capacity, pH, and related variables at special interest sites

RCH_ID	NODE	SAMRN	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
1D030910	L	1	27.3	6.37	6.45	6.60	0.5754	42.0	0.4	0.3
	L	2	35.8	6.52	6.55	6.85	0.4571	40.6	0.4	0.3
1D030911	L	1	84.4	6.88	7.01	7.11	0.2138	44.1	1.0	1.0
	L	2	119.2	6.97	7.01	7.25	0.2188	53.2	1.1	1.1
1D030912	L	1	-6.1	4.95	4.91	4.97	10.2329	72.7	0.4	0.1
	L	2	-8.6	5.12	4.87	5.08	9.5499	74.6	0.2	0.1
1D030924	L	1	114.4	6.98	7.00	7.18	0.1000	36.4	1.0	1.2
	L	2	145.2	7.39	7.12	7.50	0.0479	17.7	2.0	1.8
1D030925	L	1	173.7	6.93	6.89	7.54	0.1047	47.4	1.9	1.8
	L	2	74.2	6.57	6.60	7.46	0.1023	24.0	1.2	0.9
1D030926	L	1	28.1	6.41	5.99	6.60	0.4677	38.0	0.3	0.2
	L	2	53.9	6.67	6.65	7.06	0.1738	27.2	0.8	0.6
2A07891	L	1	35.9	6.59	6.55	6.74	0.4266	33.6	0.5	0.4
	L	2	38.4	6.68	6.60	7.06	0.6457	45.7	0.6	0.4
	L	3	42.0	6.70	6.59	6.96	0.3802	34.7	0.8	0.6
	L	4	66.2	6.68	6.69	7.17	0.4266	67.2	0.9	0.7
2A07892	L	1	61.1	6.77	6.34	7.15	0.1585	27.6	0.8	0.7
	L	2	60.1	6.87	6.58	7.00	0.2818	42.8	0.9	0.7
	L	3	66.9	6.92	6.69	7.02	0.3162	48.7	1.0	0.8
	L	4	83.0	6.80	6.75	7.06	0.1950	47.6	1.0	0.8
2A07893	L	0	81.9	6.90	6.63	7.18	0.2089	32.4	1.3	1.5
	L	1	89.9	6.94	6.72	7.18	0.1148	29.9	0.9	1.0
	L	2	83.5	6.94	6.87	7.23	0.1862	38.1	1.0	0.9
	L	3	89.6	6.84	6.97	7.27	0.1380	27.4	1.1	0.9
	L	4	114.0	6.80	6.86	7.27	0.1148	44.8	1.2	1.1
2A07894	L	1	81.3	6.90	6.67	7.23	0.1122	23.9	0.9	0.8
	L	2	68.6	6.94	6.86	7.07	0.1622	26.8	1.0	1.0
	L	3	82.9	6.96	6.86	7.21	0.1380	26.5	0.9	0.8
	L	4	110.8	6.96	7.02	7.24	0.1349	41.3	1.2	1.1
2A07895	L	1	140.0	7.12	6.71	7.47	0.0562	20.7	1.6	1.7
	L	2	128.2	7.11	6.65	7.34	0.0692	23.7	1.6	1.5
	L	3	141.4	7.24	6.93	7.29	0.0724	28.4	1.4	1.3
	L	4	182.9	7.22	7.10	7.40	0.0933	42.4	1.9	1.9
	U	3	115.7	7.11	6.83	7.35	0.0955	25.5	1.3	1.2
2A07896	L	1	51.0	6.81	6.62	7.12	0.2089	22.7	0.6	0.5
	L	2	44.3	6.78	6.68	6.87	0.1862	23.0	0.7	0.8
	L	3	45.9	6.73	6.78	6.81	0.1950	20.4	0.5	0.5
	L	4	67.3	6.87	7.02	7.06	0.2239	30.7	0.8	0.7
2A08891	L	1	44.2	6.73	6.44	7.20	0.2138	25.9	0.5	0.5
	L	2	39.5	6.67	6.42	6.94	0.2692	24.8	0.6	0.5
	L	3	42.2	6.70	6.19	7.13	0.3981	33.0	0.7	0.6
	L	4	65.2	6.67	6.67	6.76	0.2754	45.8	0.8	0.7
	U	3	52.2	6.67	6.13	7.37	0.3802	39.8	1.1	0.8
2B035913	L	1	4.9	5.77	5.78	5.90	2.0417	32.2	0.2	0.0
	L	2	9.3	5.84	6.05	6.14	0.4898	29.5	0.2	0.1
2B036903	L	1	1.8	5.62	5.65	5.83	2.3988	31.3	0.2	0.0
	L	2	1.5	5.44	5.58	5.80	2.9512	33.3	0.1	0.0
2B036904	L	1	170.5	6.86	7.00	7.00	0.0776	32.6	2.3	2.1
	L	2	171.4	6.85	7.01	7.13	0.1047	45.7	1.9	1.8
2B036905	L	1	57.0	6.54	6.64	6.78	0.1905	30.0	0.9	0.6
	L	2	45.8	6.49	6.65	6.85	0.3467	28.1	0.8	0.5

Table 7-6. Acid neutralizing capacity, pH, and related variables at special interest sites (continued)

RCH_ID	NODE	SAMRN	ALKA11	PHSTVL	PH_R	PHEQ11	H16	ACCO11	DICI11	DICE11
2B042922	L	1	302.7	7.42	7.43	7.62	0.0537	36.9	3.5	3.4
	L	2	362.5	7.45	7.54	7.57	0.0251	22.1	4.5	4.5
2B047916	L	1	18.6	6.10	6.13	6.97	0.6310	27.8	0.4	0.3
	L	2	19.2	6.26	6.09	6.47	0.3981	24.4	0.5	0.2
2B047917	L	1	4.3	5.75	5.55	6.58	2.0417	33.0	0.1	0.2
	L	2	1.7	5.74	5.58	5.94	2.2909	31.6	0.2	0.0
2B047918	L	1	52.7	6.60	6.67	7.06	0.2291	29.2	0.9	0.8
	L	2	49.9	6.63	6.60	7.52	0.2188	11.3	0.8	0.7
2B047919	L	1	-22.5	4.63	4.61	4.68	19.0546	103.4	0.1	0.0
	L	2	-18.9	4.75	4.75	4.77	15.4882	78.6	0.2	0.0
2B047920	L	1	60.1	6.54	6.78	7.06	0.1995	34.8	0.9	0.9
	L	2	62.1	6.66	6.66	7.05	0.1514	26.4	0.8	0.8
2B047929	L	1	403.6	7.34	7.34	7.64	0.0355	36.5	5.1	4.8
	L	2	532.6	7.45	7.49	7.94	0.0148	16.4	6.5	6.6
2C035915	L	1	-52.2	4.55	4.52	4.51	27.5423	136.6	0.2	0.0
	L	2	-50.5	4.54	4.52	4.53	32.3594	183.1	0.4	0.1
2C041901	L	1	12.4	6.04	6.06	6.20	0.9772	31.4	0.3	0.3
	L	2	24.0	6.06	6.06	6.60	0.9333	55.7	0.3	0.2
2C041902	L	1	263.6	7.43	7.66	7.06	0.0631	28.8	2.5	2.7
	L	2	386.5	7.71	7.93	7.79	0.0355	33.4	3.8	4.0
2C041914	L	1	-31.0	4.76	4.68	4.73	21.3796	94.3	0.1	0.1
	L	2	-29.8	4.87	4.70	4.72	19.9526	93.9	0.2	0.1
2C077923	L	1	14.9	5.18	5.16	6.45	3.2359	147.6	1.1	0.3
2D083927	L	1	16.0	6.17	6.22	6.52	0.6026	30.8	0.3	0.2
2D083928	L	1	57.5	6.65	6.67	6.97	0.1413	23.9	1.0	0.8
3B042907	L	1	200.8	6.59	6.65	7.34	0.1349	73.3	2.9	2.4
	L	2	248.4	6.71	6.78	7.37	0.0891	49.6	3.4	3.1
3B042908	L	1	176.4	6.46	6.28	7.38	0.2239	83.4	2.9	2.2
	L	2	190.4	6.49	6.59	7.21	0.1072	43.6	2.8	2.4
3B042921	L	1	99.9	6.65	6.65	7.30	0.1479	40.4	1.5	1.1
	L	2	94.8	6.73	6.69	7.69	0.1096	24.0	1.2	1.2
3B043909	L	1	-111.2	3.96	3.96	3.92	120.2264	291.1	1.2	0.0
	L	2	-90.6	4.13	4.13	4.13	72.4436	139.4	1.1	0.1
3B048906	L	1	219.8	6.77	6.89	7.44	0.0724	42.1	3.1	2.7
	L	2	290.8	6.97	7.05	7.49	0.0537	38.3	3.7	3.4

Table 7-7. Aluminum, other metals, and dissolved organic carbon at special interest sites

RCH_ID	NODE	SAMRN	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
1D030910	L	1	1.8	1.1	1.2	0.9	0.0	0.4	1.8	2.0
	L	2	2.0	0.5	0.7	0.8	0.0	0.0	1.9	1.0
1D030911	L	1	1.5	0.7	1.0	0.3	0.0	0.0	1.6	2.4
	L	2	1.4	0.2	0.5	0.6	0.0	0.0	1.6	1.1
1D030912	L	1	9.3	7.4	6.4	1.6	0.1	1.2	1.8	2.1
	L	2	6.8	4.5	4.6	0.9	0.1	0.9	1.7	1.6
1D030924	L	1	1.4	0.3	0.5	0.3	0.1	0.0	2.4	1.2
	L	2	0.3	0.6	0.2	0.3	0.1	0.1	2.3	1.1
1D030925	L	1	6.2	2.8	0.6	0.6	1.1	1.0	2.8	2.3
	L	2	4.8	2.1	1.2	0.6	0.3	0.8	3.0	1.8
1D030926	L	1	3.4	0.9	0.9	1.0	0.4	0.1	1.8	1.9
	L	2	1.6	0.9	0.9	0.5	0.8	0.0	1.6	2.5
2A07891	L	1	7.2	0.2	.	0.1	0.0	0.0	0.9	0.5
	L	2	0.6	0.1	.	0.1	0.0	0.0	0.9	0.3
	L	3	1.3	0.1	.	0.0	0.0	0.0	1.0	0.3
	L	4	1.3	0.2	.	0.1	0.0	0.0	1.2	0.5
2A07892	L	1	3.1	0.0	.	0.0	0.1	0.0	1.2	0.8
	L	2	1.4	0.1	.	0.2	0.0	0.0	1.3	0.6
	L	3	2.6	0.1	.	0.1	0.1	0.0	1.4	1.1
	L	4	6.0	0.3	.	0.3	0.3	0.0	1.2	1.7
2A07893	L	0	1.2	0.1	.	0.0	0.0	0.0	0.6	0.4
	L	1	2.9	0.1	.	0.1	0.2	0.0	0.8	0.5
	L	2	1.1	0.1	.	0.2	0.2	0.0	0.7	0.4
	L	3	3.4	0.1	.	0.1	0.4	0.0	0.8	0.7
	L	4	2.6	0.1	.	0.1	0.2	0.1	0.8	0.5
2A07894	L	1	2.6	0.1	.	0.0	0.1	0.0	0.8	0.7
	L	2	2.4	0.1	.	0.1	0.1	0.0	1.0	0.5
	L	3	2.7	0.1	.	0.1	0.0	0.0	0.9	0.5
	L	4	7.7	0.1	.	0.1	0.1	0.0	0.8	0.7
2A07895	L	1	6.2	0.1	.	0.1	0.3	0.1	1.2	0.7
	L	2	1.0	0.1	.	0.0	0.1	0.0	1.1	0.8
	L	3	3.6	0.1	.	0.0	0.2	0.0	1.1	0.8
	L	4	7.9	0.1	.	0.0	0.3	0.0	1.2	0.6
	U	3	3.0	0.1	.	0.1	0.2	0.0	1.0	0.6
2A07896	L	1	2.8	0.0	.	0.0	0.1	0.0	0.7	0.4
	L	2	1.3	0.2	.	0.1	0.0	0.0	0.9	0.6
	L	3	2.0	0.1	.	0.3	0.0	0.0	0.9	0.3
	L	4	3.7	0.1	.	0.1	0.0	0.0	0.9	0.6
2A08891	L	1	5.9	0.1	.	0.1	0.2	0.0	0.7	0.3
	L	2	1.7	0.1	.	0.1	0.1	0.0	0.7	0.5
	L	3	3.3	0.2	.	0.2	0.3	0.0	0.8	0.4
	L	4	2.3	0.2	.	0.2	0.6	0.1	0.8	0.8
	U	3	7.3	0.1	.	0.1	0.4	0.0	0.7	0.5
2B035913	L	1	3.6	27.5	21.9	1.5	0.0	0.8	2.1	0.5
	L	2	2.5	1.1	1.2	0.4	1.7	0.3	2.1	0.5
2B036903	L	1	1.8	1.3	1.3	1.0	0.6	0.6	1.1	0.8
	L	2	2.6	1.4	1.4	0.7	0.0	0.4	1.2	0.8
2B036904	L	1	0.7	0.2	0.5	0.7	0.0	0.6	1.4	1.1
	L	2	1.1	0.3	0.4	0.4	0.1	0.1	1.7	1.0

Table 7-7. Aluminum, other metals, and dissolved organic carbon at special interest sites (continued)

RCH_ID	NODE	SAMRN	ALTL16	ALEX16	ALDS16	ALOR16	FE16	MN16	FTL16	DOC11
2B036905	L	1	1.3	0.5	0.8	0.8	0.4	0.7	1.5	0.8
	L	2	2.1	0.9	0.7	0.5	0.2	0.5	1.6	1.0
2B042922	L	1	2.6	0.1	0.4	1.0	0.2	0.0	1.7	2.7
	L	2	1.5	0.3	0.4	0.8	0.4	0.0	1.5	1.0
2B047916	L	1	0.7	0.1	0.4	0.2	0.1	0.0	1.4	0.4
	L	2	0.7	0.4	0.3	0.5	0.3	0.2	0.9	0.7
2B047917	L	1	1.7	0.7	.	.	0.1	0.1	1.4	0.7
	L	2	1.2	0.9	0.7	0.6	0.1	0.3	0.6	1.0
2B047918	L	1	0.5	0.4	0.3	0.4	0.0	0.0	0.7	0.4
	L	2	0.6	0.3	0.5	0.6	0.2	0.2	0.7	0.6
2B047919	L	1	16.9	14.0	11.4	1.5	0.3	1.8	3.7	2.5
	L	2	8.6	13.9	10.7	2.0	0.0	4.5	3.7	2.3
2B047920	L	1	1.5	0.3	0.4	0.5	0.1	0.1	0.9	0.6
	L	2	0.8	0.1	0.4	0.7	0.0	0.2	0.8	0.6
2B047929	L	1	1.1	0.4	0.8	0.9	0.0	0.0	1.8	1.3
	L	2	0.4	0.3	0.5	0.7	0.0	0.1	1.7	1.0
2C035915	L	1	18.6	2.0	1.9	0.8	0.9	6.1	3.0	0.6
	L	2	23.6	23.7	19.5	0.7	0.2	8.9	3.3	0.8
2C041901	L	1	1.5	0.0	0.5	0.3	0.0	0.0	0.9	0.5
	L	2	3.0	0.1	0.6	0.5	0.0	0.0	0.8	0.7
2C041902	L	1	0.9	0.1	0.5	0.7	0.0	0.0	1.1	0.7
	L	2	1.3	0.1	0.4	0.6	0.1	0.0	1.1	0.7
2C041914	L	1	12.8	11.3	10.2	1.3	0.4	2.1	2.3	0.9
	L	2	11.3	11.0	9.2	0.9	0.3	2.3	2.4	1.1
2C077923	L	1	21.1	0.9	1.0	0.9	0.3	2.1	1.1	1.0
2D083927	L	1	0.0	0.2	0.2	0.1	0.1	0.0	1.3	0.4
2D083928	L	1	4.6	0.4	0.4	.	0.4	0.0	1.0	0.0
3B042907	L	1	3.2	1.1	0.4	0.2	1.1	0.9	5.3	3.3
	L	2	3.3	0.7	0.6	0.5	1.8	1.0	4.9	2.8
3B042908	L	1	10.1	0.1	0.5	0.5	1.6	3.5	6.3	1.6
	L	2	5.5	0.2	0.3	0.3	0.8	3.7	6.4	2.3
3B042921	L	1	4.3	0.1	.	.	0.0	0.1	1.5	1.0
	L	2	1.2	0.0	0.4	0.7	0.1	0.0	1.0	0.7
3B043909	L	1	12.9	11.6	11.3	3.3	2.5	0.6	2.9	8.2
	L	2	5.5	5.2	5.8	2.5	1.8	0.7	1.6	4.2
3B048906	L	1	4.6	0.0	0.4	0.2	0.8	2.2	6.8	2.4
	L	2	2.8	0.3	0.1	0.4	1.0	2.1	7.0	2.7

Table 7-8. Miscellaneous water quality parameters at special interest sites

RCH_ID	NODE	SAMRN	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
1D030910	L	1	10.6	8.9	24	0.1	1.2	22.8	0.2	0
	L	2	11.0	9.8	25	0.0	0.8	26.6	0.1	10
1D030911	L	1	11.0	8.7	31	0.1	0.8	22.5	0.3	5
	L	2	10.6	9.5	34	0.1	0.7	33.0	0.1	10
1D030912	L	1	10.5	8.0	25	0.2	1.5	23.1	0.1	0
	L	2	10.5	8.7	24	0.1	0.6	33.3	0.2	5
1D030924	L	1	12.0	6.5	46	0.1	0.7	59.7	0.2	5
	L	2	11.5	8.8	45	0.1	0.7	68.9	0.4	15
1D030925	L	1	12.4	8.0	103	0.1	0.7	43.1	0.7	20
	L	2	11.0	9.0	73	0.1	0.5	55.0	1.4	10
1D030926	L	1	12.1	4.9	37	0.1	0.4	72.9	0.2	20
	L	2	12.6	8.9	35	0.1	0.3	80.6	0.6	25
2A07891	L	1	10.8	9.5	19	0.2	0.7	69.2	0.1	15
	L	2	10.7	8.7	18	0.4	3.1	68.6	0.3	10
	L	3	9.1	12.5	18	0.4	0.9	83.2	0.1	5
	L	4	8.4	16.0	19	0.4	0.1	94.2	0.1	5
2A07892	L	1	10.2	8.0	11	0.3	0.6	109.4	0.5	15
	L	2	11.8	8.0	11	0.3	0.6	135.6	0.4	10
	L	3	8.2	15.4	12	0.4	0.9	127.3	1.3	10
	L	4	8.3	18.0	13	0.7	0.4	120.0	2.7	15
2A07893	L	0	10.8	6.5	13	0.1	1.1	123.2	0.3	10
	L	1	9.4	11.0	14	0.2	1.1	124.8	0.3	20
	L	2	10.7	9.5	14	0.3	1.2	115.2	0.5	10
	L	3	9.2	12.1	15	0.4	0.3	131.5	1.7	15
	L	4	8.9	13.0	17	0.2	2.2	81.2	0.8	15
2A07894	L	1	10.7	8.0	12	0.2	0.8	118.2	0.3	15
	L	2	10.0	10.9	12	1.5	1.0	128.2	0.8	10
	L	3	9.8	12.6	12	0.4	0.3	125.7	1.5	10
	L	4	8.6	16.0	15	0.4	0.1	129.0	2.5	10
2A07895	L	1	11.9	4.0	18	0.1	0.2	156.4	0.8	15
	L	2	11.7	4.0	18	0.2	0.8	143.8	1.1	5
	L	3	9.8	13.9	18	0.4	0.7	164.4	1.0	15
	L	4	9.0	16.0	22	0.3	0.9	185.6	1.5	15
	U	3	8.5	14.8	15	0.4	0.5	157.3	1.1	15
2A07896	L	1	9.9	8.0	10	0.1	0.3	104.0	0.2	20
	L	2	9.3	10.0	10	1.4	0.6	109.8	0.2	20
	L	3	10.3	12.1	10	0.3	0.1	104.9	0.6	15
	L	4	8.8	15.0	12	0.2	0.4	114.8	1.2	10
2A08891	L	1	10.5	8.5	9	0.1	0.6	93.2	0.5	10
	L	2	11.6	6.2	9	0.2	0.4	86.5	0.8	10
	L	3	9.1	13.9	9	0.3	0.3	95.7	0.8	10
	L	4	7.5	19.0	10	0.3	0.4	106.7	1.4	15
	U	3	9.0	14.0	10	0.6	1.2	107.3	1.9	10
2B035913	L	1	8.7	8.0	40	0.0	0.9	71.6	0.3	10
	L	2	11.4	6.7	46	0.1	0.6	58.3	0.3	10
2B036903	L	1	11.7	6.8	22	0.0	0.0	73.9	0.3	15
	L	2	11.2	8.2	24	0.2	0.4	64.2	0.3	10
2B036904	L	1	11.0	7.1	38	0.1	0.0	110.5	0.6	10
	L	2	11.4	7.0	42	0.1	0.4	97.9	0.9	10

Table 7-8. Miscellaneous water quality parameters at special interest sites (continued)

RCH_ID	NODE	SAMRN	DO_IS	TMPSTR	COND11	PTD16	NH416	SIO216	TURVAL	COLVAL
2B036905	L	1	11.2	7.3	26	0.0	0.1	79.0	0.9	10
	L	2	11.7	6.1	29	0.1	1.0	69.7	0.6	10
2B042922	L	1	10.9	8.5	99	0.1	1.3	183.7	0.8	5
	L	2	11.6	7.0	95	0.2	0.4	219.1	1.1	10
2B047916	L	1	10.6	8.5	16	0.0	0.9	72.6	0.1	5
	L	2	10.8	8.0	14	0.2	0.0	79.3	0.3	5
2B047917	L	1	9.8	9.7	19	0.0	1.2	86.5	0.1	5
	L	2	11.0	8.0	17	0.0	0.2	95.8	0.3	5
2B047918	L	1	10.6	8.5	20	0.0	1.0	175.6	0.4	5
	L	2	10.8	6.5	20	0.2	0.0	158.6	0.3	5
2B047919	L	1	10.6	9.7	42	0.1	0.5	86.5	0.3	15
	L	2	11.2	7.2	37	0.1	0.0	102.1	0.3	15
2B047920	L	1	10.0	10.2	11	0.1	0.3	161.1	0.5	5
	L	2	10.9	7.5	12	0.1	1.1	153.8	0.4	5
2B047929	L	1	10.6	10.6	62	0.1	0.9	108.2	0.3	10
	L	2	11.0	7.8	64	0.2	0.6	124.3	0.4	15
2C035915	L	1	11.1	7.5	54	0.1	0.0	74.4	0.5	10
	L	2	10.5	9.0	60	0.0	0.5	69.4	0.5	10
2C041901	L	1	10.1	8.9	22	0.4	1.0	62.6	0.3	5
	L	2	9.9	10.9	22	0.0	0.5	65.4	0.9	10
2C041902	L	1	10.7	8.5	54	0.0	0.7	70.2	0.8	5
	L	2	10.6	11.3	65	0.1	1.3	67.9	0.6	5
2C041914	L	1	10.7	8.9	34	0.2	1.3	62.8	0.6	10
	L	2	10.2	11.2	33	0.1	0.9	70.3	0.4	5
2C077923	L	1	6.4	15.0	13	0.0	0.8	107.3	12.4	5
2D083927	L	1	9.8	12.5	13	0.0	0.9	112.0	0.5	5
2D083928	L	1	10.8	7.8	15	0.0	0.9	139.9	1.4	5
3B042907	L	1	10.1	11.0	227	0.1	1.6	78.1	2.4	20
	L	2	9.5	14.2	206	0.0	2.6	67.3	1.1	10
3B042908	L	1	10.6	7.9	127	0.1	46.2	223.1	10.9	20
	L	2	9.7	11.2	134	0.2	33.7	218.5	5.0	15
3B042921	L	1	9.9	12.6	110	0.1	0.6	83.2	0.6	5
	L	2	10.9	9.1	91	0.1	0.5	75.6	0.3	15
3B043909	L	1	6.3	6.7	79	0.1	0.5	66.2	.	.
	L	2	8.9	10.0	52	0.0	1.1	76.0	0.3	20
3B048906	L	1	12.1	7.5	149	0.2	3.0	473.3	9.1	20
	L	2	11.5	11.7	151	0.8	2.9	437.5	4.4	25

SECTION 8
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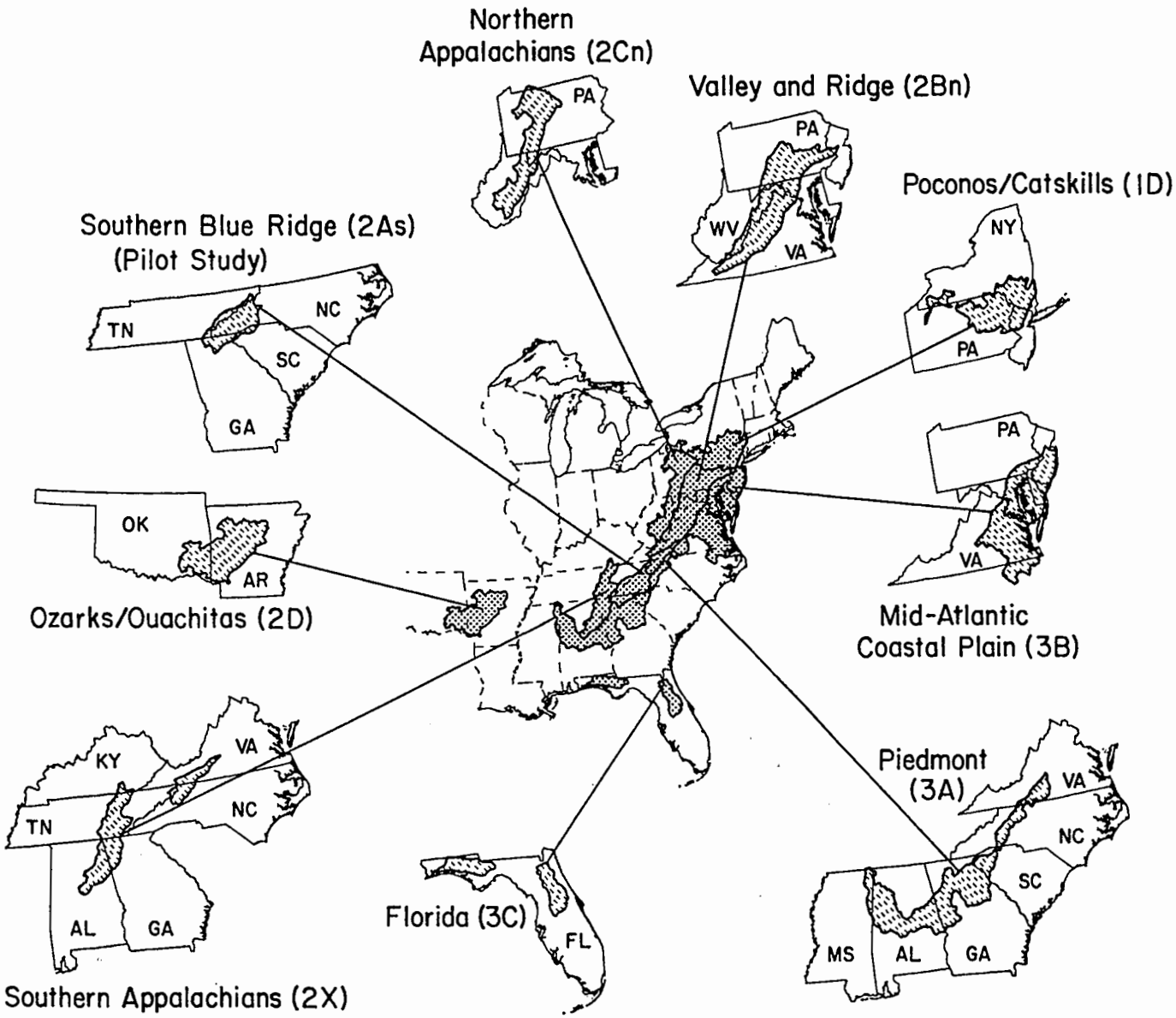

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