

U.S. Department of the Interior  
U.S. Geological Survey

# Water Resources Data North Carolina Water Year 2001

## Volume 1B. Surface-Water Records

By B.C. Ragland, R.G. Barker, and J.B. Robinson

Water-Data Report NC-01-1B



Prepared in cooperation with the North Carolina Department of Environment and Natural Resources, and with other State, municipal, and Federal agencies



U. S. DEPARTMENT OF THE INTERIOR

GALE A. NORTON, Secretary

GEOLOGICAL SURVEY

CHARLES G. GROAT, Director

For information on the water program in North Carolina write to:

District Chief  
U.S. Geological Survey  
3916 Sunset Ridge Road  
Raleigh, NC 27607

2002

## PREFACE

This volume of the annual hydrologic-data report of North Carolina is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow and quality of water provide hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for North Carolina are contained in two volumes.

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

Bernice A. Allen  
 Pamilee L. Breton  
 William S. Caldwell  
 Geoffrey D. Cartano  
 Matthew Carter  
 Christine A. Edmonds  
 Sean D. Egen  
 Jason M. Fine  
 Ronald G. Garrett  
 Stephen L. Harden  
 Douglas A. Harned  
 William F. Hazell

Brian M. Heissenberger  
 David M. Holmes  
 Susan M. Howard  
 James Marlowe  
 Cassandra Mendoza  
 Terry L. Middleton  
 Travis W. Newsome  
 Carolyn J. Oblinger  
 Michael D. Penley  
 Ryan B. Rasmussen  
 Jeanne C. Robbins  
 Eric S. Rudisill

Kathleen M. Sarver  
 Jared M. Sholar  
 Douglas G. Smith  
 P. Shawn Spivey  
 Bruce C. Steiner  
 Jack M. Tankard  
 John E. Taylor  
 Michael T. Trenholm  
 Douglas A. Walters  
 Bentley T. Walton  
 John C. Weaver  
 Wendi S. Young

Pamilee L. Breton edited much of the text, tables and graphs of this report. Pamilee L. Breton, Bobby C. Ragland, assembled the report.

This report was prepared in cooperation with the State of North Carolina, other agencies, and under the general supervision of Gerald L. Ryan, District Chief; and Timothy W. Hale, Acting Regional Hydrologist, Southeastern Region.

**REPORT DOCUMENTATION PAGE***Form Approved*  
*OMB No. 0704-0188*

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE <b>March 29, 2002</b>	3. REPORT TYPE AND DATES COVERED <b>Annual Data - Oct. 1, 2000 thru Sept. 30, 2001</b>	
4. TITLE AND SUBTITLE <b>Water Resources Data, North Carolina, Water Year 2001 Volume 1B. Surface-Water Data</b>			5. FUNDING NUMBERS	
6. AUTHOR(S) <b>B.C. Ragland, R.G. Barker, and J.B. Robinson</b>				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) <b>U.S. Geological Survey Water Resources Division 3916 Sunset Ridge Road Raleigh, North Carolina 27607</b>			8. PERFORMING ORGANIZATION REPORT NUMBER <b>USGS-WDR-NC-01-1B</b>	
9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES) <b>U.S. Geological Survey Water Resources Division 3916 Sunset Ridge Road Raleigh, North Carolina 27607</b>			10. SPONSORING / MONITORING AGENCY REPORT NUMBER <b>USGS-WDR-NC-01-1B</b>	
11. SUPPLEMENTARY NOTES <b>Prepared in cooperation with the State of North Carolina and other agencies</b>				
12a. DISTRIBUTION / AVAILABILITY STATEMENT <b>No restriction on distribution. This report may be purchased from:  National Technical Information Center Springfield, VA 22161</b>			12b. DISTRIBUTION CODE	
13. ABSTRACT ( <i>Maximum 200 words</i> ) <b>Water-resources data for the 2001 water year for North Carolina consists of discharge records for 209 gaging stations; stage only records for 52 gaging stations; stage and contents for 62 lakes and reservoirs; water quality for 101 gaging stations and 91 miscellaneous sites; continuous daily tide stage at 4 sites and continuous precipitation at 98 sites. Additional water data were collected at 84 sites not involved in the systematic data-collection program, and are published as miscellaneous measurements.</b>  <b>Data contained in this volume includes discharge records for 146 gaging stations; stage and contents for 45 lakes and reservoirs; stage for 7 gaging stations; water quality for 29 gaging stations; continuous precipitation at 92 sites and miscellaneous measurements for 76 stations not involved in the systematic data-collection program.</b>  <b>The collection of water-resources data in North Carolina is part of the National Water-Data System operated by the U.S. Geological Survey in cooperation with State, municipal, and Federal agencies.</b>  <b>North Carolina, Hydrologic data, Surface water, Water quality, Flow rate, Gaging stations, Lakes, Reservoirs,</b>				
14. SUBJECT TERMS <b>Chemical analysis, Sediments, Water temperature, Sampling, Water level, Water analysis, Elevation, Precipitation</b>			15. NUMBER OF PAGES <b>675</b>	
			16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT <b>UNCLASSIFIED</b>	18. SECURITY CLASSIFICATION OF THIS PAGE <b>UNCLASSIFIED</b>	19. SECURITY CLASSIFICATION OF ABSTRACT <b>UNCLASSIFIED</b>	20. LIMITATION OF ABSTRACT	

## CONTENTS

	Page
Preface.....	iii
List of surface-water stations, in downstream order, for which records are published.....	vii
List of discontinued surface-water gaging stations.....	xi
Introduction.....	1
Cooperation.....	1
Summary of water-resources conditions.....	2
Precipitation.....	2
Surface water.....	2
Special networks and programs.....	12
Explanation of records.....	12
Station identification numbers.....	12
Downstream order system.....	13
Latitude-longitude system.....	13
Records of stage and water discharge.....	13
Data collection and computation.....	14
Data presentation.....	14
Identifying estimated daily discharge.....	17
Accuracy of the records.....	17
Other records available.....	18
Records of precipitation.....	18
Data collection and computation.....	18
Data presentation.....	18
Records of surface-water quality.....	18
Classification of records.....	18
Accuracy of the records.....	19
Arrangement of records.....	19
On-site measurements and sample collection.....	19
Water temperature.....	20
Sediment.....	20
Laboratory measurements.....	20
Data presentation.....	21
Remarks codes.....	22
Dissolved trace-element concentrations.....	22
Change in National Trends Network Procedures.....	22
Water Quality-Control Data.....	22
Blank Samples.....	23
Reference Samples.....	23
Replicate Samples.....	23
Spike Samples.....	23
Access to USGS Water Data.....	24
Definition of terms.....	25
Publications on Techniques of Water-Resources Investigations.....	40
Station records, surface water.....	54
Lake and Reservoirs, South Atlantic Slope.....	531
Lake and Reservoirs, Ohio River Basin.....	636
Discharge at partial-record stations and miscellaneous sites.....	641
Index.....	652

## ILLUSTRATIONS

	Page
Figure 1. Location of selected long-term index stations for collecting precipitation, discharge, and water-quality data in North Carolina .....	3
2. Monthly rainfall and average monthly rainfall for the period 1971-2000 at index stations for the 2001 water year .....	4
3. Monthly streamflow in North Carolina during October-March, 2001 water year .....	5
4. Monthly streamflow in North Carolina during April-September, 2001 water year .....	6
5. Daily mean discharge for 2001 water year and median daily mean discharge for 1971-2000 water years for Black River near Tomahawk.....	8
6. Daily mean discharge for 2001 water year and median daily mean discharge for 1971-2000 water years for Rocky River near Norwood, .....	9
7. Daily mean discharge for 2001 water year and median daily mean discharge for 1971-2000 water years for Lumber River at Boardman.....	10
8. Daily mean discharge for 2001 water year and median daily mean discharge for 1971-2000 water years for French Broad River at Asheville .....	11
9. System for numbering miscellaneous sites and wells.....	13
10. Locations of gaging stations in western North Carolina .....	46
11. Locations of gaging stations in eastern North Carolina.....	47
12. Locations of water-quality stations in western North Carolina .....	48
13. Locations of water-quality stations in eastern North Carolina .....	49
14. Locations of gaging stations in Bertie and Martin Counties, North Carolina .....	50
15. Locations of gaging stations in and around Wake County, North Carolina .....	51
16. Locations of gaging stations in and around Mecklenburg County, North Carolina.....	52
17. Locations of water-quality stations in Greene County, North Carolina .....	53

## TABLES

1. Index stream-gaging stations recording new period of record minimum annual mean discharges during the 2001 water year.....	7
---	---

## SURFACE-WATER STATION, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

Letter after station name designates type of data: (d) discharge, (g) gage height, (c) chemical, (s) sediment, (e) elevation, (p) precipitation; and continuously monitored water-quality characteristics: (t) water temperature; (k) specific conductance; (h), pH; (o) dissolved oxygen; (n) salinity.

	Page
<b>SOUTH ATLANTIC SLOPE BASIN</b>	
<b>CAPE FEAR RIVER BASIN</b>	
Haw River (head of Cape Fear River):	
Reedy Fork near Oak Ridge (d,p) .....	02093800 54-56
Brush Creek at Fleming Road at Greensboro(d,p).....	0209387778 58-60
Horse Pen Creek at US 220 near Greensboro(d,p) .....	0209399200 62-64
Reedy Fork near Browns Summit (d,p) .....	02094412 66-74
Reedy Fork near Gibsonville (d).....	02094500 76-77
South Buffalo Creek near Pomona (d,p) .....	02094659 78-80
South Buffalo Creek at US 220 at Greensboro (d,p).....	02094770 82-84
Ryan Creek below US 220 at Greensboro (d,p).....	02094775 86-88
South Buffalo Creek near Greensboro (d,p).....	02095000 90-92
North Buffalo Creek at Westover Terrace at Greensboro (d,p).....	02095181 94-96
North Buffalo Creek at Church Street at Greensboro (d,p).....	02095271 98-100
North Buffalo Creek near Greensboro (d,p).....	02095500 102-104
Buffalo Creek at Secondary Road 2819 near Mcleansville (d,p).....	0209553650 106-108
Haw River at Haw River (d) .....	02096500 110-111
Cane Creek near Orange Grove (d,c,s) .....	02096846 112-115
Cane Creek Reservoir at dam near White Cross (c) .....	0209684980 116-118
Haw River near Bynum (d) .....	02096960 120-121
Jordan Lake, Haw River arm, above B. Everett Jordan dam (c).....	0209719700 122-124
New Hope Creek (head of New Hope River) near Blands (d,c).....	02097314 126-128
Battle Branch near Chapel Hill (d,p).....	0209736050 130-132
Northeast Creek at Secondary Road 1100 near Genlee (d,c).....	0209741955 134-136
New Hope River	
Morgan Creek near White Cross (d,c,s).....	02097464 138-141
University Lake at intakes near Chapel Hill (c).....	0209749990 142-144
Morgan Creek near Chapel Hill (d).....	02097517 146-147
Jordan Lake at buoy 12 at Farrington (c).....	0209768310 148-150
White Oak Creek at Green Level (d,c,s).....	0209782520 152-155
Jordan Lake above U.S. Highway 64 near Wilsonville (c).....	0209799150 156-158
Jordan Lake at Bells Landing near Griffins Crossroads (c).....	0209801100 159-161
B. Everett Jordan Lake at Dam near Moncure (g) .....	02098197 162-163
Haw River below B. Everett Jordan Dam near Moncure (g,p).....	02098198 164-166
East Fork Deep River near High Point (d).....	02099000 168-169
Deep River near Randleman (d).....	02099500 170-171
Deep River at Ramseur (d).....	02100500 172-173
Rocky River near Crutchfield Crossroads (d).....	0210166029 174-175
Tick Creek near Mount Vernon Springs (d).....	02101800 176-177
Deep River at Moncure (d) .....	02102000 178-179
Cape Fear River at State Highway 42 near Brickhaven (c,s).....	0210215985 180-181
Buckhorn Creek near Corinth (d) .....	02102192 182-183
Cape Fear River at Lillington (d).....	02102500 184-185
Flat Creek near Inverness (d,p).....	02102908 186-188
Cape Fear River at Fayetteville (g) .....	02104000 190-191
Rockfish Creek at Raeford (d) .....	02104220 192-193
Cape Fear River at William O. Huske Lock near Tarheel (d,k,h,t,o).....	02105500 194-205
Cape Fear River at Lock 1 near Kelly (d,p).....	02105769 206-208
Hood Creek near Leland (d).....	02105900 210-211
Great Coharie Creek (head of Black River):	

	Page
SOUTH ATLANTIC SLOPE BASIN--Continued	
CAPE FEAR RIVER BASIN--Continued	
Black River near Tomahawk (d).....	02106500 212-213
Northeast Cape Fear River:	
Goshen Swamp:	
Northeast Cape Fear River near Chinquapin (d).....	02108000 214-215
Northeast Cape Fear River near Burgaw (g).....	02108566 216-217
WACCAMAW RIVER BASIN	
Waccamaw River at Freeland (d).....	02109500 218-219
PEE DEE RIVER BASIN	
Yadkin River (head of Pee Dee River) at Patterson (d,p).....	02111000 220-222
Triplett Raingage (p).....	361210081333001 223
Elk Creek at Elkville (d).....	02111180 224-225
W. Kerr Scott Reservoir at Dam near Wilkesboro (g).....	02111391 226-227
Wilbar Raingage.....	361554081191701 228
Reddies River at North Wilkesboro (d).....	02111500 230-231
Yadkin River at Wilkesboro (d).....	02112000 232-233
Roaring River near Roaring River (d).....	02112120 234-235
Yadkin River at Elkin (d).....	02112250 236-237
Mitchell River near State Road (d).....	02112360 238-239
Fisher River near Copeland (d).....	02113000 240-241
Ararat River at Ararat (d).....	02113850 242-243
Little Yadkin River at Dalton (d,p).....	02114450 244-245
Yadkin River at Enon (d,p).....	02115360 246-248
Yadkin River at Yadkin College (d,s).....	02116500 250-252
South Yadkin River near Mocksville (d).....	02118000 254-255
Hunting Creek near Harmony (d).....	02118500 256-257
Second Creek near Barber (d).....	02120780 258-259
Abbotts Creek at Lexington (d).....	02121500 260-261
High Rock Lake (p).....	02122400 262
Tuckertown Reservoir (p).....	02122699 263
Uwharrie River:	
Dutchmans Creek near Uwharrie (d).....	02123567 264-265
Pee Dee River:	
Rocky River:	
Mallard Creek below Stony Creek nr Harrisburg (d,s).....	0212414900 266-268
Rocky River above Irish Buffalo Creek near Rocky River (d).....	0212433550 270-273
Goose Creek at Fairview (d,t,k,h,o,s).....	02124692 274-285
Rocky River near Stanfield (d).....	02124742 286-289
Big Bear Creek near Richfield (d).....	02125000 290-291
Rocky River near Norwood (d).....	02126000 292-293
Little River near Star (d).....	02128000 294-295
Pee Dee River near Rockingham (d).....	02129000 296-297
Little Pee Dee River:	
Big Shoe Heel Creek near Laurinburg (d).....	02132320 298-299
Drowning Creek (head of Lumber River) near Hoffman (d).....	02133500 300-301
Lumber River near Maxton (d).....	02133624 302-303
Lumber River at Lumberton (d).....	02134170 304-307
Big Swamp near Tar Heel (d).....	02134480 308-309
Lumber River at Boardman (d).....	02134500 310-311
CRN01 (p).....	351812080445545 312
CRN16 (p).....	351540080430045 313
CRN23 (p).....	351302080412701 314
CRN26 (p).....	352432080473745 315
CRN29 (p).....	351218080331345 316
CRN30 (p).....	351455080374445 317

	Page
SOUTH ATLANTIC SLOPE BASIN--Continued	
PEE DEE RIVER BASIN--Continued	
CRN32 (p).....	318
CRN33 (p).....	319
CRN36 (p).....	320
CRN39 (p).....	321
CRN44 (p).....	322
CRN46 (p).....	323
Statesville Precipitation (p).....	324
NC-193 Precipitation (p).....	325
SANTEE RIVER BASIN	
Catawba River (head of Santee River) near Pleasant Gardens (d,p).....	326-328
Linville River near Nebo (d).....	330-331
Catawba River at Calvin (d).....	332-333
Johns River at Arneys Store (d).....	334-335
Lower Little River near All Healing Springs(d,p).....	336-338
Norwood Creek near Troutman (d).....	340-341
McDowell Creek at Westmoreland Road near Cornelius (CRN24) (p).....	342
McDowell Creek near Charlotte (d,p,s).....	344-347
Gar Creek at McCoy Road near Oakdale (CRN25) (p).....	348
Catawba River at Mountain Island Dam (CRN35) (p).....	349
Killian Creek near Mariposa (d).....	350-351
Dutchmans Creek:	
Long Creek near Paw Creek (d,p).....	352-354
Long Creek near Rhyne (d).....	356-357
Paw Creek at Wilkinson Boulevard near Charlotte (d).....	358-359
Catawba River:	
Henry Fork (head of South Fork Catawba River) near Henry River (d).....	360-361
Jacob Fork at Ramsey (d,p).....	362-364
South Fork Catawba River:	
Indian Creek near Laboratory (d).....	366-367
Long Creek Tributary at headwaters near Bessemer City (d).....	368-369
Long Creek Tributary below headwaters near Bessemer City (d).....	370-371
Long Creek near Bessemer City (d).....	372-373
South Fork Catawba River at Lowell (d).....	374-375
Irwin Creek at Starita Road at Charlotte (CRN03) (p).....	376
Irwin Creek at Statesville Avenue at Charlotte (d).....	378-379
Stewart Creek at State Street at Charlotte (d).....	380-383
Stewart Creek at West Morehead Street at Charlotte (d).....	384-385
Irwin Creek near Charlotte (d).....	386-387
Taggart Creek at West Boulevard near Charlotte (d).....	388-389
Coffey Creek near Charlotte (d).....	390-391
Sugar Creek:	
Unnamed Tributary to Sugar Creek at Crompton Street (CRN28) (p).....	392
Sugar Creek at NC51 nr Pineville (d).....	394-395
Little Sugar Creek:	
Little Sugar Creek at Medical Center Drive at Charlotte (d,t,k,o,h).....	396-406
Briar Creek near Charlotte (d,t,k,o,h).....	408-418
Briar Creek above Colony Road at Charlotte (d,t,k,o,h).....	420-430
Little Hope Creek at Seneca Place at Charlotte (d).....	432-433
Little Sugar Creek at Archdale Drive at Charlotte (d,t,k,o,h).....	434-444
Little Sugar Creek at Highway 51 at Pineville (d).....	446-447
McAlpine Creek at State Road 3150 near Idlewild (d).....	448-453
Campbell Creek near Charlotte (d).....	454-459
Irwins Creek at SR3168 near Charlotte (d).....	460-465

	Page
SOUTH ATLANTIC SLOPE BASIN--Continued	
SANTEE RIVER BASIN--Continued	
McAlpine Creek at Sardis Road near Charlotte (d,p).....	02146600 466-468
Four Mile Creek near Pineville (d) .....	02146670 470-471
McMullen Creek at Sharon View Road near Charlotte (d).....	02146700 472-473
McAlpine Creek below McMullen Creek near Pineville (d,p) .....	02146750 474-476
Steele Creek at State Road 1441 near Pineville (d).....	0214678175 478-479
Twelve Mile Creek near Waxhaw (d).....	02146900 480-481
Wateree River	
Broad River (head of Congaree River):	
Cove Creek near Lake Lure (d) .....	02149000 482-483
Second Broad River near Logan (d,p).....	02150495 484-486
Broad River near Boiling Springs (d).....	02151500 488-489
First Broad River near Casar (d) .....	02152100 490-491
CRN02 (p).....	351954080493445 492
CRN04 (p).....	351132080562345 493
CRN05 (p).....	351642080533445 494
CRN07 (p).....	350351080454145 495
CRN08 (p).....	350314080484945 496
CRN09 (p).....	351414080463245 497
CRN11 (p).....	351331080525945 498
CRN12 (p).....	350823080505345 499
CRN13 (p).....	350947080524945 500
CRN14 (p).....	351553080562645 501
CRN15 (p).....	351320080502645 502
CRN17 (p).....	351023080435745 503
CRN19 (p).....	351132080504145 504
CRN20 (p).....	351032080475245 505
CRN21 (p).....	350842080572801 506
CRN22 (p).....	350623080583801 507
CRN27 (p).....	351604080470845 508
CRN31 (p).....	350110080502045 509
CRN34 (p).....	352555080574445 510
CRN37 (p).....	351247080592745 511
CRN38 (p).....	350200081020345 512
CRN40 (p).....	353003080591745 513
CRN42 (p).....	353014080524945 514
CRN43 (p).....	352440080505045 515
CRN45 (p).....	350903081004545 516
CRN47 (p).....	351229080460245 517
CRN48 (p).....	350637080475645 518
CRN49 (p).....	352224080500345 519
CRN50 (p).....	351503080510145 520
CRN51 (p).....	352310080424845 521
CRN52 (p).....	351753081011745 522
CRN53 (p).....	351412080541245 523
CRN54 (p).....	351741080475045 524
CRN55 (p).....	350324080551845 525
CRN56 (p).....	350635080513245 526
CRN57 (p).....	351109080412145 527
CRN58 (p).....	351441080481545 528
CRN59 (p).....	350624081023345 529
CRN60 (p).....	351104080521845 530
Lakes and reservoirs in South Atlantic slope basin .....	531-539

## OHIO RIVER BASIN

## KANAWHA RIVER BASIN

South Fork New River (head of Kanawha River) near Jefferson (d).....	03161000	540-541
--	----------	---------

## TENNESSEE RIVER BASIN

French Broad River (head of Tennessee River) at Rosman (d).....	03439000	542-543
Catheys Creek near Brevard (d).....	03440000	544-545
Davidson River near Brevard (d).....	03441000	546-547

## OHIO RIVER BASIN -- Continued

## TENNESSEE RIVER BASIN -- Continued

French Broad River at Blantyre (d).....	03443000	548-549
French Broad River:		
Mills River near Mills River (d).....	03446000	550-551
Swannanoa River:		
North Fork Swannanoa River near Walkertown (d).....	0344894205	552-553
Mills River:		
Beetree Creek near Swannanoa (d).....	03450000	554-555
Swannanoa River at Biltmore (d).....	03451000	556-557
French Broad River at Asheville (d,p).....	03451500	558-560
Newfound Creek near Alexander (d).....	03451690	562-563
Ivy River near Marshall (d).....	03453000	564-565
French Broad River at Marshall (d).....	03453500	566-567
West Fork Pigeon River above Lake Logan near Hazelwood (d).....	03455500	568-569
Lake Logan at Dam near Hazelwood (g,p).....	03455773	570-572
West Fork Pigeon River near Retreat (d).....	0345577330	574-575
West Fork Pigeon River at Bethel (d).....	03456100	576-577
East Fork Pigeon River near Canton (d,p).....	03456500	578-580
Pigeon River near Canton (d).....	03456991	582-583
Pigeon River near Hepco (d).....	03459500	584-585
Cataloochee Creek near Cataloochee (d,c).....	03460000	586-588
Pigeon River below Power Plant near Waterville (d,t,o).....	03460795	590-594
North Toe River (head of Nolichucky River):		
South Toe River near Celo (d).....	03463300	596-597
South Fork Holston River:		
Watauga River near Sugar Grove (d).....	03479000	598-599
Tennessee River:		
Little Tennessee River at Riverside (s).....	0349998425	600
Little Tennessee River near Prentiss (d).....	03500000	602-603
Cartoogechaye Creek near Franklin (d,s).....	03500240	604-606
Cullasaja River at Secondary Road 1653 near Franklin (s).....	0350116510	607
Lake Emory at Dam near Franklin (s).....	0350156375	608
Little Tennessee River at Needmore (d,p).....	03503000	610-612
Nantahala River near Rainbow Springs (d).....	03504000	614-615
Tuckasegee River:		
Oconaluftee River at Birdtown (d).....	03512000	616-617
Tuckasegee River at Bryson City (d,p).....	03513000	618-620
Cheoah River near Bearpen Gap near Topoco (d,t).....	0351706800	622-625
Cheoah River near Topoco (g).....	0351751500	626-627
Brasstown Creek near Brasstown (d).....	03548330	628-631
Hiwassee River above Murphy (d).....	03548500	632-633
Valley River at Tomotla (d).....	03550000	634-635
Lakes and reservoirs in Ohio River basin.....		636-640

## DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

The following continuous-record streamflow stations in North Carolina have been discontinued or converted to partial-record stations. Daily streamflow or stage records were collected and published for the period of record shown for each station.

Station number	Station name	Drainage area (mi <sup>2</sup> )	Period of record
Chowan River Basin			
02053400	Ahoskie Creek near Rich Square, NC	3.70	1964-73
02053450	Ahoskie Creek at Mintons Store, NC	24.0	1964-73
02053510	Ahoskie Creek tributary at Poortown, NC	2.60	1963-73
Roanoke River Basin			
02068000	Dan River near Asbury, NC	71.4	1924-26
02069000	Dan River at Pine Hall, NC	501	1924-26
			1986-91
02071500	Dan River at Leaksville, NC	1,150	1929-49
02074218	Dan River near Mayfield, NC	1,778	1976-84
02075160	Moon Creek near Yanceyville, NC	29.90	1961-74
			1988-89
02077230	South Hyco Creek near Hesters Store, NC	29.9	1964-67
02077240	Double Creek near Roseville, NC	7.47	1964-75
			1977-82
02077250	South Hyco Creek near Roseville, NC	56.5	1966-80
02077300	Hyco River at McGehees Mill, NC	191	1964-73
02077660	Mayo Creek near Woodsdale, NC	52.7	1975-77
Pamlico River Basin			
02081800	Cedar Creek near Louisburg, NC	47.8	1956-75
02082000	Tar River near Nashville, NC	701	1928-71
02082500	Sapony Creek near Nashville, NC	64.8	1950-70
0208273070	Devils Cradle Creek at NC 39 near Kearney, NC	2.89	1984-85
02082731	Devils Cradle Creek nr Alert, NC	13.4	1993-97
02083833	Pete Mitchell Swamp at Sr1409 nr Penny Hill, NC	11.0	1993-97
02084070	Green Mill Run at Arlington Boulevard at Greenville, NC	9.10	1980-85
02084164	Juniper Branch near Simpson, NC	7.5	1975-86
0208423100	Flat Swamp at SR 1157 near Robersonville, NC	21.3	1986-88
02084317	Black Swamp near Batts Crossroads, NC	1.02	1982
02084500	Herring Run near Washington, NC	9.59	1950-80
02084556	North Lake Canal above Pungo Lake near Wenona, NC	.29	1976-80
02084558	Albemarle Canal near Swindell, NC	68.0	1977-81
0208463120	Outflow Ditch from Jennett Sedge at Buxton, NC	Indeterminate	1994-95
Neuse River Basin			
02084903	Sevenmile Creek tributary at SR 1120 near Buckhorn, NC	1.34	1981-82
02084904	Sevenmile Creek tributary at I-85 near Miles, NC	.004	1981-82
02084905	Sevenmile Creek tributary at SR 1144 near Miles, NC	1.57	1981-82
02084908	Sevenmile Creek tributary at I-85 near Efland, NC	.29	1981-82
02085220	Little River near Orange Factory, NC	80.4	1962-87
02086000	Dial Creek near Bahama, NC	4.76	1925-71
			1989-91
0208650112	Flat River tributary near Willardsville, NC	1.14	1988-90
02086624	Knap of Reeds Creek near Butner, NC	43.0	1982-95
02086849	Ellerbee Creek nr Gorman, NC	21.9	1982-89
			1991-95
02087000	Neuse River near Northside, NC	535	1927-80
0208700780	Little Lick Creek above Secondary Road 1814 near Oak Grove, NC	10.1	1982-95
0208705200	Smith Creek at Grissom, NC	6.2	1984-85

## DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station number	Station name	Drainage area (mi <sup>2</sup> )	Period of record
Neuse River Basin--Continued			
0208721055	Perry Creek at SR 2012 near Millbrook, NC	2.43	1986-89
0208732810	Marsh Creek at SR 2030 at Millbrook, NC	1.44	1986-89
02087570	Neuse River at Smithfield, NC	1,206	1959-90
02088315	Beaverdam Creek near Grantham, NC	5.01	1978-82
02088470	Little River near Kenly, NC	191	1964-89
02088682	Big Ditch at Retha Street at Goldsboro, NC	2.17	1980-84
02089216	Daileys Creek near Liddell, NC	3.80	1978-81
02089222	Bear Creek near Parkstown, NC	4.27	1978-82
02090500	Contentnea Creek near Wilson, NC	236	1930-54
02090512	Hominy Swamp at Phillips Street at Wilson, NC	8.20	1978-85
0209096970	Moccasin Run near Patetown, NC	1.89	1988-98
02090625	Turner Swamp near Eureka, NC	2.1	1968-87
02091700	Little Contentnea Creek near Farmville, NC	93.3	1956-87
02091960	Creeping Swamp near Calico, NC	9.80	1971-77
02091970	Creeping Swamp near Vanceboro, NC	27.0	1971-85
02092000	Swift Creek near Vanceboro, NC	182	1950-89
02092020	Palmetto Swamp near Vanceboro, NC	24.0	1971-76
0209257120	W. P. Brice Creek below SR 1101 near Riverdale, NC	11.2	1986-91
Hewletts Creek Basin			
02093229	Hewletts Creek at SR 102 near Wilmington, NC	1.98	1977-90
Cape Fear River Basin			
0209330990	Brooks Lake tributary near Browns Summit, NC	.06	1985-90
0209331325	Candy Creek at SR 2700 near Monticello, NC	1.10	1985-90
02093500	Haw River near Benaja, NC	168	1928-71
02094000	Horsepen Creek at Battle Ground, NC	15.9	1925-31 1934-59
02095000	South Buffalo Creek near Greensboro, NC	33.6	1928-58
0209509100	South Buffalo Creek at SR 2821 at McLeansville, NC	43.5	1986-88
02095500	North Buffalo Creek near Greensboro, NC	37.1	1929-90
0209555450	Buffalo Creek at SR 2719 near Osceola, NC	97.4	1986-87
0209560800	Reedy Fork Creek at NC 61 near Osceola, NC	243	1986-88
02096000	Stony Creek near Burlington, NC	44.2	1952-59
02096700	Big Alamance Creek near Elon College, NC	116	1957-80
02096842	Cane Creek 0.1mile above SR 1126 near Buckhorn, NC	.64	1979-81
02096850	Cane Creek near Teer, NC	33.7	1959-73
02097000	Haw River near Pittsboro, NC	1,310	1928-73
02097243	Third Fork Creek at Durham, NC	1.68	1968-73
02097500	Morgan Creek near Chapel Hill, NC	30.1	1923-32
0209782150	New Hope River tributary at SR 1716 near Farrington, NC	2.05	1986-88
02098000	New Hope River near Pittsboro, NC	285	1949-73
02098500	West Fork Deep River near High Point, NC	32.1	1923-26 1928-58
02100000	Muddy Creek near Archdale, NC	16.7	1934-41
02101000	Bear Creek at Robbins, NC	134	1939-71
0210106600	Deep River nr Glendon, NC	859	1993-96
0210108450	Suck Creek tributary near Zion Grove, NC	.67	1986-88
02103000	Little River at Manchester, NC	348	1938-50
02103500	Little River at Linden, NC	459	1928-71
02104000	Cape Fear River at Fayetteville, NC	4,395	1889-1903 1928-40
02104387	Buckhead Creek near Owens, NC	2.62	1976-80

## DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station number	Station name	Drainage area (mi <sup>2</sup> )	Period of record
Cape Fear River Basin--Continued			
02104500	Rockfish Creek near Hope Mills, NC	292	1929-31 1939-54
02105524	Ellis Creek tributary at SR 1325 near White Oak, NC	1.81	1979-81
02106000	Little Coharie Creek near Roseboro, NC	92.8	1950-92
02106681	Black River near Dunn, NC	48.3	1976-77
02107000	South River near Parkersburg, NC	379	1951-86
02107500	Colly Creek near Kelly, NC	103	1950-71
02107600	Northeast Cape Fear River near Seven Springs, NC	47.5	1958-75
0210782005	Nahunga Creek at SR 1301 near Warsaw, NC	8.30	1983-90
0210783230	Herrings Marsh Run near Summerlins Crossroads, NC	2.25	1991-99
0210783240	Herrings Marsh Run Tributary near Summerlins Crossroads, NC	1.49	1991-00
0210783273	Herrings Marsh Run Tributary at Red Hill, NC	1.14	1991-97
0210783276	Herrings Marsh Run below SR 1306 at Red Hill, NC	9.11	1991-99
0210789100	Grove Creek at Kenansville, NC	22.6	1983-90
0210797940	Limestone Creek at NC 24 near Hadley, NC	1.61	1986-88
02108500	Rockfish Creek near Wallace, NC	69.3	1955-81
02108548	Little Rockfish Creek at Wallace, NC	7.8	1976-92
Pee Dee River Basin			
02112500	Fisher River near Dobson, NC	109	1920-32
02113500	Yadkin River at Siloam, NC	1,226	1976-87
02115500	Forbush Creek near Yadkinville, NC	22.1	1940-71
02115750	Muddy Creek near Lewisville, NC	82.8	1964-70
02115800	Silas Creek near Clemmons, NC	11.8	1964-70
02115842	Tar Branch tributary at First Street at Winston-Salem, NC	.04	1979-82
02115850	Salem Creek at Winston-Salem, NC	51.3	1964-70
02115854	Salem Creek tributary at Hawthorne Road, Winston-Salem, NC	.50	1979-82
02115856	Salem Creek near Atwood, NC	65.6	1971-82
02115860	Muddy Creek near Muddy Creek, NC	186	1964-79 1988-91
02115900	South Fork Muddy Creek near Clemmons, NC	42.9	1964-79 1988-91
02117030	Humpy Creek near Fork, NC	1.05	1968-83
02117500	Rocky Creek at Turnersburg, NC	101	1940-71
02119000	South Yadkin River at Cooleemee, NC	569	1928-65
02119400	Third Creek near Stony Point, NC	4.84	1956-69
02120500	Third Creek at Cleveland, NC	87.4	1940-71
02121000	Yadkin River near Salisbury, NC	3,450	1895-1927
02121180	North Potts Creek at Linwood, NC	9.62	1980-90
02121493	Leonard Creek near Bethesda, NC	5.16	1978-81
02122500	Yadkin River at High Rock, NC	4,000	1919-27
02123000	Uwharrie River near Trinity, NC	11.3	1934-41
02123500	Uwharrie River near Eldorado, NC	342	1938-71
02124471	Dutch Buffalo Creek at NC 49 near Mount Pleasant, NC	45.1	1985-87
02125500	Richardson Creek near Marshville, NC	170	1940-44
02125557	Gourdvine Creek at SR 1715 near Olive Branch, NC	8.75	1978-82
02125696	Lane Creek at SR 2115 near Trinity, NC	3.98	1969-79
02125699	Wicker Branch at SR 1940 near Trinity, NC	5.83	1978-82
02125816	Lane's Creek near Marshville, NC	87.8	1985-87
02126500	Little Brown Creek near Polkton, NC	13.5	1935-41
02127000	Brown Creek near Polkton, NC	110	1937-71
02127500	Pee Dee River near Ansonville, NC	6,330	1938-42
02129500	North Fork Jones Creek near Wadesboro, NC	9.43	1935-41
0213228795	Jordan Creek near Silver Hill, NC	0.36	1983-93

## DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

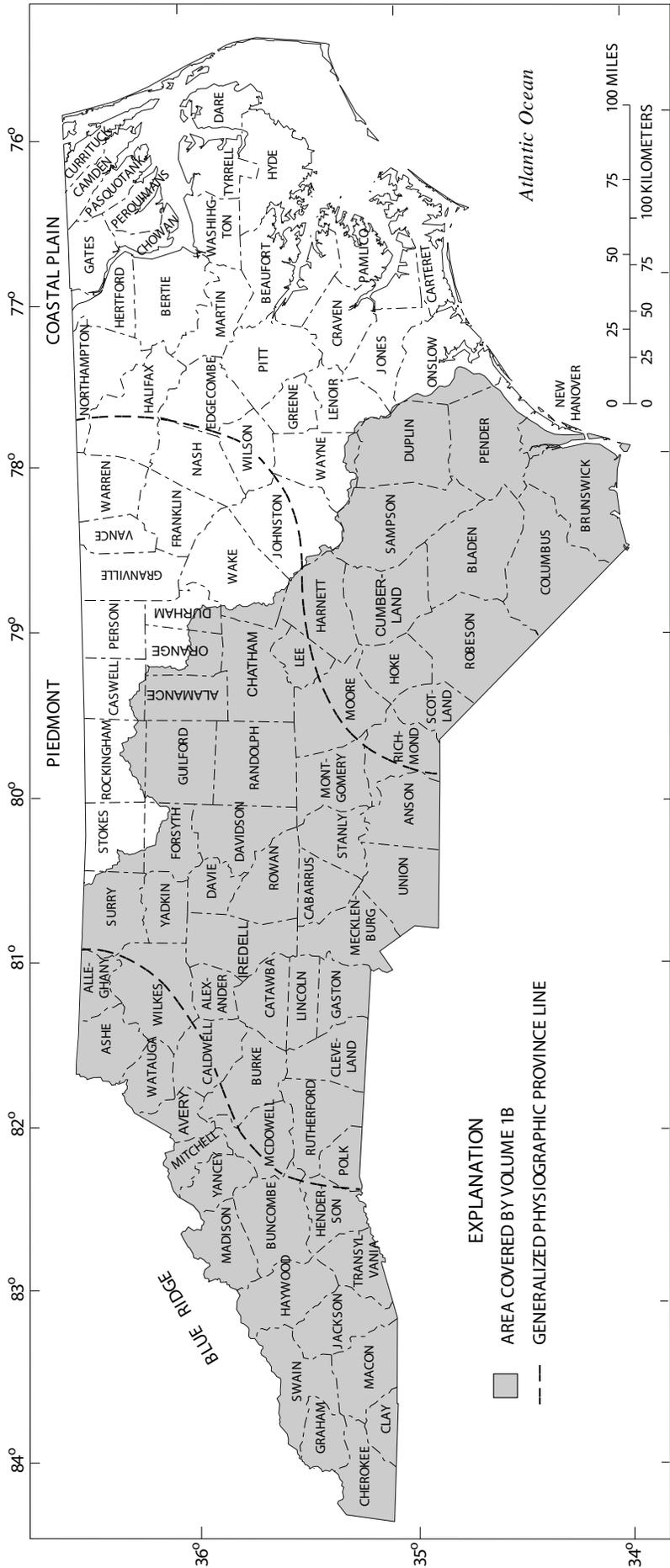
Station number	Station name	Drainage area (mi <sup>2</sup> )	Period of record
Santee River Basin			
02137000	Mill Creek at Old Fort, NC	20.7	1960-75
02138000	Catawba River near Marion, NC	172	1941-81
0213875850	High Shoals Creek near Dysartsville, NC	2.38	1986-88
02139200	Bailey Fork near Morganton, NC	7.86	1966-70
02139650	East Prong near Morganton, NC	8.94	1966-74
0214042720	North Harper Creek near Kawana, NC	1.25	1986-88
02141150	Lower Creek at Mulberry Street at Lenoir, NC	31.8	1966-78
02141245	Lower Creek at SR1501 near Morganton, NC	89.5	1993-94
0214183365	Upper Little River at SR1740 near Petra Mills, NC	33.9	1993-94
0214192500	Middle Little River at Moretz Dam near Bethlehem, NC	46.1	1993-94
02142500	Catawba River at Catawba, NC	1,535	1896-99 1935-62
02142600	Mountain Creek near Terrell, NC	42.4	1957-62
0214620760	Irwin Creek at Starita Road at Charlotte, NC	4.40	1989-94
02146450	Briar Creek at Sharon Road, Charlotte, NC	18.5	1962-73
02146500	Little Sugar Creek near Charlotte, NC	41.0	1924-78
02146579	Irvin's Creek at Lebanon Road near Mint Hill, NC	5.27	1983-90
0214677974	Steele Creek above Secondary Road 1344 near Shopton, NC	3.57	1990-98
0214678230	Walker Branch at SR1123 near Pine Harbor, NC	4.52	1991-94
02148500	Broad River near Chimney Rock, NC	97.0	1927-58
02149702	Green River near Saluda, NC	104	1972-75
02150000	Green River near Mill Spring, NC	174	1940-54
02151000	Second Broad River at Cliffside, NC	220	1925-97
02152000	Sandy Run Creek near Boiling Springs, NC	67.0	1925-28
02152500	First Broad River near Lawndale, NC	200	1940-71
02152610	Sugar Branch near Boiling Springs, NC	1.42	1968-87
Kanawha River Basin			
03161500	South Fork New River near Crumpler, NC	325	1908-16
03162500	North Fork New River at Crumpler, NC	277	1908-16 1928-58
Tennessee River Basin			
03439500	French Broad at Calvert, NC	103	1924-55
03440500	Davidson River near Davidson River, NC	31.0	1904-09
03441440	Little River above High Falls near Cedar Mountain, NC	26.8	1963-90
03441500	Little River near Penrose, NC	41.4	1942-55
03442000	Crab Creek near Penrose, NC	10.9	1942-55
03444000	Boylston Creek near Horseshoe, NC	14.8	1942-55
03444500	South Fork Mills River at the Pink Beds, NC	9.99	1926-49 1965-73
03445000	South Fork Mills River near Sitton, NC	40.0	1904-09 1925-26
03445500	North Fork Mills River at Pinkbed, NC	23.1	1904-09
03446500	Clear Creek near Hendersonville, NC	42.2	1945-55
03447000	Mud Creek at Naples, NC	109	1938-55
03447500	Cane Creek at Fletcher, NC	63.1	1942-58
03448000	French Broad River at Bent Creek, NC	676	1933-86
03448500	Hominy Creek at Candler, NC	79.8	1942-77
03448960	North Fork Swannanoa River below Burnett Reservoir near Black Mountain, NC	22.1	1976-77
03449000	North Fork Swannanoa River near Black Mountain, NC	23.8	1926-58
03449500	Swannanoa River at Swannanoa, NC	58.8	1907-09 1926-31
0345092550	Ross Creek at Beaucatcher Road at Asheville, NC	2.46	1986-89
0345112600	Nasty Branch at Asheville, NC	1.19	1986-89

## DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station number	Station name	Drainage area (mi <sup>2</sup> )	Period of record
Tennessee River Basin--Continued			
03451510	Reed Creek above Barnard Avenue at Asheville, NC	2.13	1986-89
03452000	Sandymush Creek near Alexander, NC	79.5	1942-55
03452001	Sandymush Creek 1.1 mile above mouth near Alexander, NC	79.5	1975-77
03454000	Big Laurel Creek near Stackhouse, NC	126	1934-71
03454500	French Broad River at Hot Springs, NC	1,567	1934-49
03456000	West Fork Pigeon River below Lake Logan near Waynesville, NC	55.3	1954-80
03457000	Pigeon River at Canton, NC	133	1907-09 1928-83
03457500	Allen Creek near Hazelwood, NC	14.4	1949-72
03458500	Pigeon River near Crabtree, NC	243	1920-29
03459000	Jonathan Creek near Cove Creek, NC	65.3	1930-72
03460500	Pigeon River near Mount Sterling, NC	460	1924-30
03462000	North Toe River at Altapass, NC	104	1938-57
03462500	North Toe River above Spruce Pine, NC	111	1934-38
03463500	South Toe River at Newdale, NC	60.8	1934-52
03464000	Cane River near Sioux, NC	157	1934-71
03464500	Nolichucky River at Poplar, NC	608	1925-55
03480500	Elk River near Banner Elk, NC	17.8	1934-40
03481000	Elk River near Elk Park, NC	42.0	1934-55
03500500	Cullasaja River at Highlands, NC	14.9	1931-71
03501000	Cullasaja River at Cullasaja, NC	86.5	1907-09 1921-71
03501500	Little Tennessee River at Franklin, NC	295	1909-10 1921-25
03502000	Little Tennessee River at Iotla, NC	323	1929-45
03502500	Little Tennessee River at Etna, NC	374	1926-29
03503500	Little Tennessee River at Almond, NC	451	1912-17
03505500	Nantahala River at Nantahala, NC	144	1942-81
03506500	Nantahala River at Almond, NC	174	1912-17 1920-43
03507000	Little Tennessee River at Judson, NC	664	1912-44
03508000	Tuckasegee River at Tuckasegee, NC	143	1934-76
03508136	Caney Fork near Cowarts, NC	32.0	1975-76
03508910	Scott Creek at Willets-Ochre Hill, NC	22.4	1993-95
03509000	Scott Creek above Sylva, NC	51.0	1941-75 1993-95
03509500	Scott Creek at Sylva, NC	55.0	1928-41
03510500	Tuckasegee River at Dillsboro, NC	347	1933-81
03511000	Oconaluftee River at Cherokee, NC	131	1921-49
03513500	Noland Creek near Bryson City, NC	13.8	1935-71
03514000	Hazel Creek at Proctor, NC	44.4	1942-52
03515000	Little Tennessee River at Fontana Dam, NC	1,571	1938-55
03516000	Snowbird Creek near Robbinsville, NC	42.0	1942-52
03517000	Cheoah River at Johnson, NC	177	1912-18 1920-26
03517500	Cheoah River at Tapoco, NC	215	1924-27
03546000	Shooting Creek near Hayesville, NC	37.6	1922-24 1942-45 1946-55
03547000	Hiwassee River below Chatuge Dam near Hayesville, NC	190	1942-74
03548000	Hiwassee River below Hayesville, NC	252	1934-45
03554000	Nottely River near Ranger, NC	272	1901-05 1914-17 1919-29 1932-45
03555000	Hiwassee River at Hiwassee Dam, NC	968	1934-43



Gaging station at Briar Creek near Charlotte, North Carolina.



COUNTIES AND PHYSIOGRAPHIC PROVINCES OF NORTH CAROLINA

## INTRODUCTION

Water-resources data for the 2001 water year for North Carolina consist of records of stage, discharge, water-quality for streams; stage and contents for lakes and reservoirs; precipitation; and ground water levels and water-quality of ground-water. This volume contains discharge records for 146 gaging stations; stage and contents for 45 lakes and reservoirs; stage for 7 gaging stations; water quality for 29 gaging stations; and continuous precipitation at 92 sites. Additional water data were collected at 76 sites not involved in the systematic data-collection program, and are published as miscellaneous measurements in this report. The collection of water-resources data in North Carolina is a part of the National Water-Data System operated by the U.S. Geological Survey in cooperation with State, municipal, and Federal agencies.

Stream-discharge records, and contents and stage for lakes or reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were published annually; beginning in 1961, these water-supply papers were published every 5 years through 1970. Records of chemical quality, water temperature, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Water-supply papers can be found in the libraries of principal cities and universities throughout the United States or can be purchased from the U.S. Geological Survey, Branch of Information Services, Denver Federal Center, Box 25286, Denver, Colorado 80225-0425.

Streamflow data since the 1961 water year and water-quality data since the 1964 water year have been released by the U.S. Geological Survey in annual reports on a State-by-State basis. These reports provide timely release of water data in each State for each water year. Through 1970 these data also were released in the water-supply paper series mentioned above.

Publication of streamflow and water-quality data, beginning with the 1971 water year, and ground-water data, beginning with the 1975 water year currently is limited to reports on a State-by-State basis. Beginning with the 1975 water year, these Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report NC-01-1." Water-data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161.

Additional information for ordering specific reports, can be obtained from the District Chief at the address listed on the back of the title page of this report or by calling (919) 571-4000.

## COOPERATION

Cooperative agreements between the U.S. Geological Survey (USGS) and organizations of the State of North Carolina for the systematic collection of water-resources data began in 1895 and continued through 1909. Following a lapse of 8 years, the State of North Carolina resumed cooperation in October 1918. Organizations that assisted in collecting the data contained in this report through cooperative agreements with the USGS are:

North Carolina Cooperative Extension Service	City of Rocky Mount
North Carolina Department of Environment and Natural Resources	Town of Bethel
North Carolina Department of Transportation	Water and Sewer Authority of Cabarrus County
Asheville-Buncombe Water Authority	Mecklenburg County
City of Brevard	Middle Cape Fear River Basin Association
City of Charlotte	Triangle Area Water Supply Monitoring
City of Danville, Virginia	Steering Committee
City of Durham	Winston-Salem/Forsyth County
City of Morganton	Utility Commission
City of Greensboro	Pender County Emergency Management
City of Raleigh	

The following Federal agencies assisted in the data-collection program by furnishing funds or services:

Corps of Engineers, U.S. Army	U.S. Environmental Protection Agency
Tennessee Valley Authority	National Weather Service, NOAA, U.S. Department of Commerce

The following organizations aided in collecting records:

Carolina Power and Light Co.; Duke Power Co.; Yadkin, Inc.; Dominion Power;  
Blue Ridge Paper Products, Inc.; Tapoco, Inc.; Weyerhaeuser Corp.

## SUMMARY OF WATER-RESOURCES CONDITIONS

Precipitation

Precipitation amounts for the first quarter, October through December, of the 2001 water year were well below average across the State. Average precipitation amounts are mean monthly values based on data from 1971 through 2000, the 30-year base period used by the National Weather Service. Precipitation amounts varied from 3.76 (Asheville) and 6.38 (Charlotte) inches below average in the western part of the State, to 6.20 (Greensboro) and 5.11 (Raleigh) inches below average in the central part of the State to 4.98 (Elizabeth City) and 3.52 (Wilmington) inches below average in the eastern part of the State. All but one index site (Wilmington) recorded 0.00 inches to a trace of precipitation during the month of October. Asheville and Wilmington were the only locations to report above-average monthly precipitation amounts for the quarter; these amounts both occurred in November. Rainfall data collected at six key National Weather Service stations (figs. 1 and 2) indicate that below-average rainfall amounts were recorded in all the Provinces of North Carolina.

The second quarter of the 2001 water year, January through March, brought continued drier conditions to the State. March was the only month during the quarter in which any of the index sites, with the exception of Elizabeth City, reported above-average precipitation amounts. All of the index sites reported below-average precipitation amounts for the quarter. The least rainfall was reported in Elizabeth City at 4.49 inches below average. Asheville, Charlotte, Greensboro, and Wilmington all reported rainfall from 0.40 to 2.20 inches below average.

The third quarter, April through June, again brought below-average amounts of rainfall across the State. Raleigh and Elizabeth City were the only locations to report above-average monthly rainfall, which both occurred in June. Quarterly precipitation amounts fell further below average during the third quarter at all the index sites across the State with the exception of Raleigh and Elizabeth City. Asheville was impacted the most by lack of rain, reporting 5.59 inches below average for the quarter. Charlotte, Greensboro, and Wilmington reported rainfall 3 inches less than average for the quarter.

During the fourth quarter, July through September, Asheville (1.18 inches) reported rainfall above average. The remaining index sites reported below-average conditions with departures ranging from 1.44 to 5.72 inches for the quarter; Charlotte (4.15 inches), Greensboro (1.44 inches), Raleigh (4.25 inches), Wilmington (3.22 inches), and Elizabeth City (5.72 inches).

In summary, the continued drought condition in North Carolina, which began in 1998, was worsened by below-average annual precipitation throughout the State. The National Weather Service reported below-average annual rainfall amounts at each of the six index sites. Asheville, in the southeastern part of the State, recovered somewhat from below-average rainfall amounts during the fourth quarter of the water year. The National Weather Service reported the following annual rainfall amounts for the 2001 water year at these selected stations: Asheville, 36.75 inches (10.29 inches below average); Charlotte, 26.48 inches (17.03 inches below average); Greensboro, 31.77 inches (11.36 inches below average); Raleigh, 32.70 inches (10.35 inches below average); Elizabeth City, 31.54 inches (15.44 inches below average); and Wilmington, 44.59 inches (12.48 inches below average).

Surface Water

Streamflow conditions in North Carolina are influenced greatly by precipitation. Rainfall can produce rapid responses in streamflow. Streamflow also declines following periods of low rainfall. The rate and magnitude of decline depend on basin size, the season, evapotranspiration, and the amount of ground water in storage at the onset of the dry period. The effects on streamflow of variable rainfall in North Carolina during the 2001 water year are illustrated in figures 3-8. Monthly conditions are depicted in maps (figs. 3 and 4) that show the regions of above-normal, normal, and below-normal streamflow.

Data for the 30-year base period, 1971-2000, from 35 index gaging stations across the State were used to compute monthly flow statistics (figs. 3 and 4). These stations are located on streams that are free of significant regulations or diversions and range in size from about 30 to 1,400 square miles. The descriptors, "above normal," "normal," and "below normal," refer to flow in the upper quartile, the middle two quartiles, and the lower quartile, respectively.

Monthly mean flows recorded at index stations during the 2001 water year were generally below normal. Sites reporting below-normal streamflow were evident each month of the water year. In fact, below-normal streamflow conditions were noted at more than half of the 35 index stations for October through February and April through May. All but one of the index stations recorded below-normal streamflow during the month of May (figs. 3 and 4).

Record low monthly mean discharges were established at one or more index sites for every month except November, March, and July. Twelve sites experienced new record low monthly mean discharges for May. Record low annual mean discharges for the 2001 water year were also recorded at 13 of the 35 index sites (table 1).

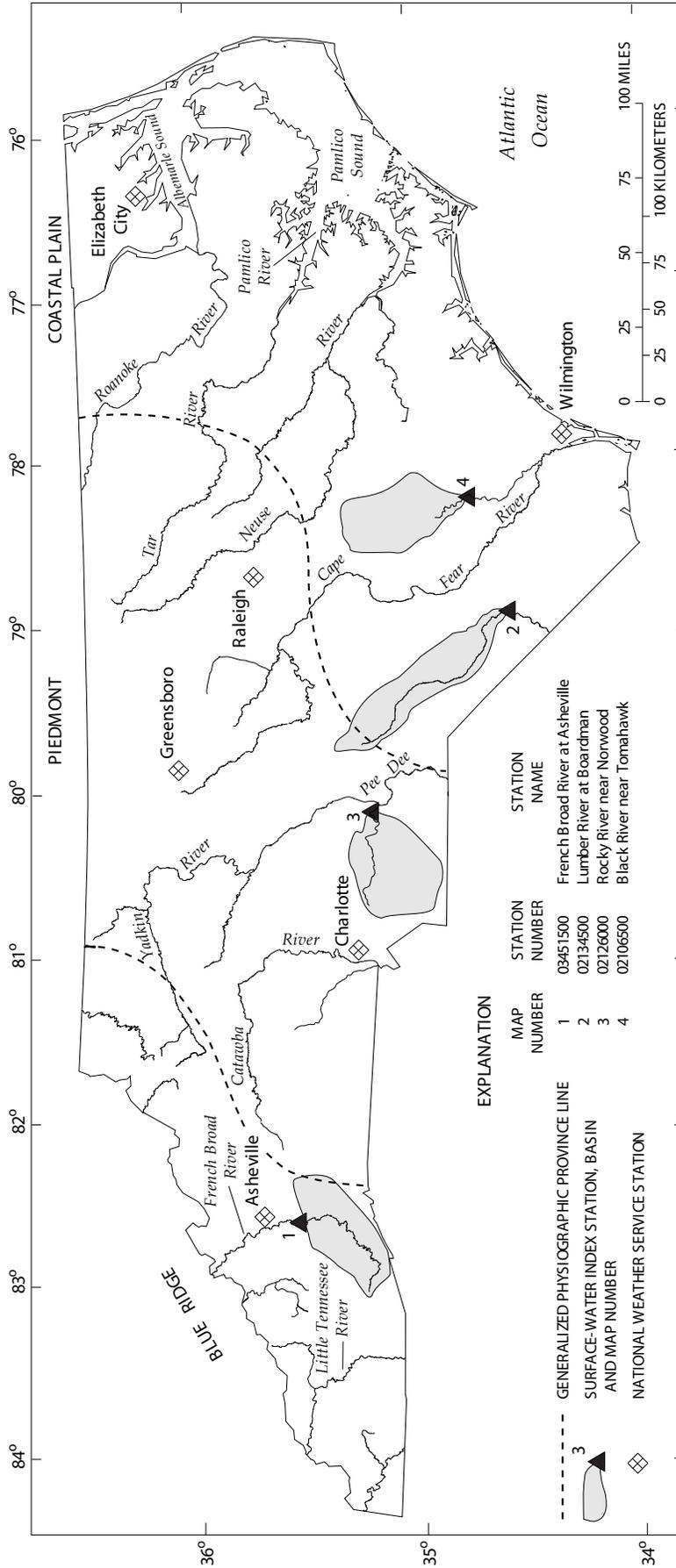


Figure 1.--Location of selected long-term index stations for collecting precipitation and discharge in North Carolina.

WATER-RESOURCES DATA FOR NORTH CAROLINA, 2001

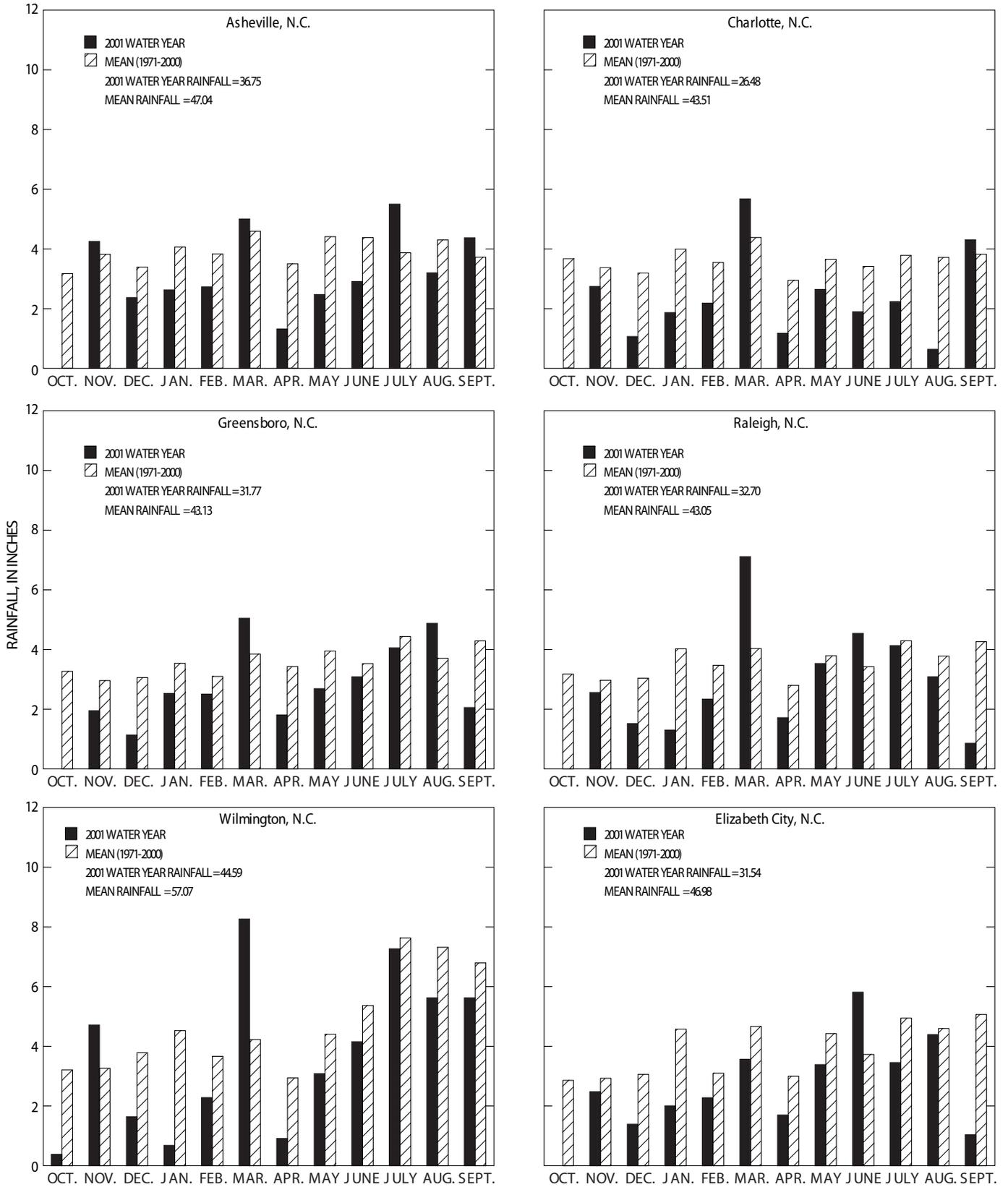
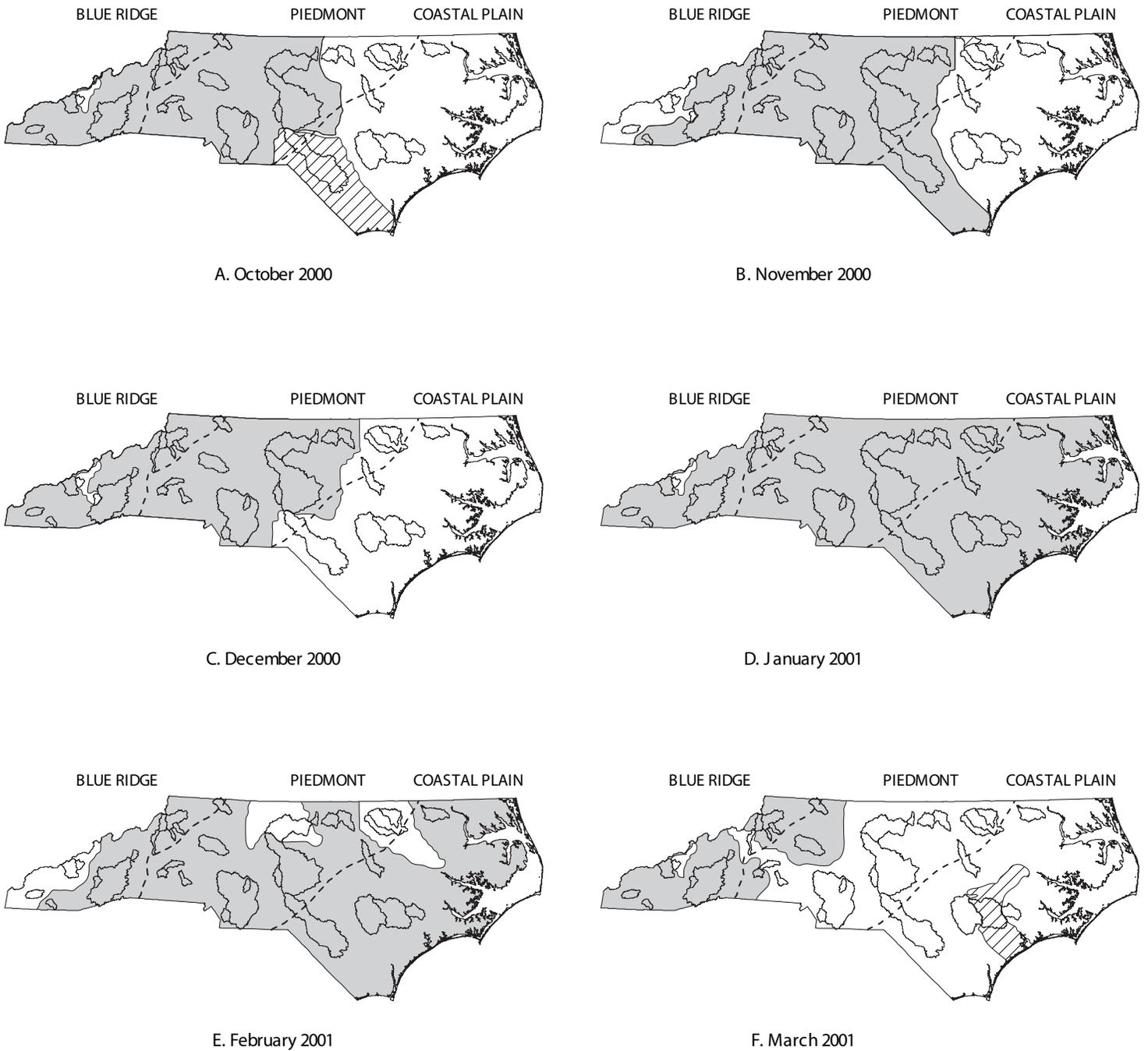


Figure 2.--Monthly rainfall and average monthly rainfall for the period 1971-2000 at index stations for the 2001 water year (data from National Oceanic and Atmospheric Administration reports).



EXPLANATION

-  ABOVE NORMAL (EXCESSIVE--Flow in the upper quartile)
-  NORMAL (Flow in the middle two quartiles)
-  BELOW NORMAL (DEFICIENT--Flow in the lower quartile)
-  GENERALIZED PHYSIOGRAPHIC PROVINCE LINE
-  WATERSHED BOUNDARIES OF INDEX SITES

Figure 3.--Monthly streamflow in North Carolina during October - March, 2001 water year.

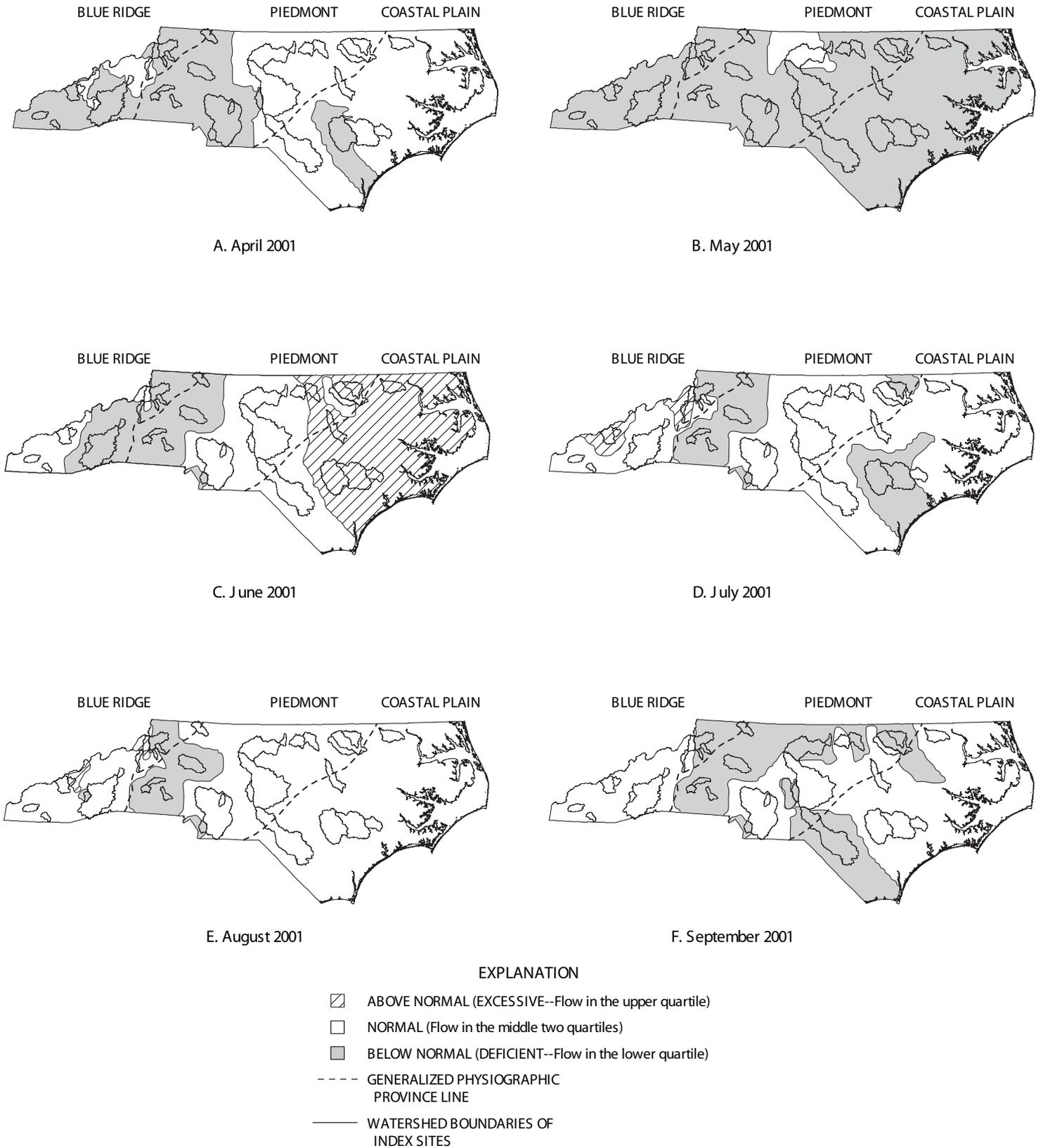


Figure 4.--Monthly streamflow in North Carolina during April - September, 2001 water year.

**Table 1.**--Index stream-gaging stations recording new period of record minimum annual mean discharges during the 2001 water year

Station name	USGS station number	Years of record	Drainage area (square miles)	Record low annual mean discharge for period of record (cubic feet per second)
Deep River at Moncure, N.C.	02102000	72	1,434	531
Yadkin River at Patterson, N.C.	02111000	62	28.8	21.0
Elk Creek at Elkville, N.C.	02111180	36	48.1	35.7
Fisher River near Copeland, N.C.	02113000	70	128	80.2
South Yadkin River near Mocksville, N.C.	02118000	63	306	124
Big Bear Creek near Richfield, N.C.	02125000	48	55.6	18.2
Rocky River near Norwood, N.C.	02126000	72	1,372	446
Little River near Star, N.C.	02128000	48	106	32.1
Henry Fork near Henry River, N.C.	02143000	68	83.2	51.0
Indian Creek near Laboratory, N.C.	02143500	51	69.2	33.4
Twelve Mile Creek near Waxhaw, N.C.	02146900	41	76.5	15.5
First Broad River near Casar, N.C.	02152100	43	60.5	29.5
South Fork New River near Jefferson, N.C.	03161000	75	205	222

Responses of daily streamflow to basinwide weather patterns throughout the year at four long-term (1971-2000) index stations across the State (fig. 1) are shown in figures 5-8. The daily mean discharge hydrograph for the 2001 water year is superimposed on the long-term median daily mean discharge hydrograph for each of these index stations. Daily mean discharge fluctuated both above and below the median daily mean discharge at the four sites but was generally less than the median for most of the 2001 water year.

In summary, below-average precipitation occurred during the 2001 water year throughout much of the State. Annual departure from normal precipitation totals for the six index weather stations were reported as follows: Asheville, 10.29 inches below average; Charlotte, 17.03 inches below average; Greensboro, 11.36 inches below average; Raleigh, 10.35 inches below average; Wilmington, 12.48 inches below average; Elizabeth City, 15.44 inches below average. Streamflow conditions reflected the rainfall pattern across the State, yielding below-normal streamflow conditions throughout much of the year.

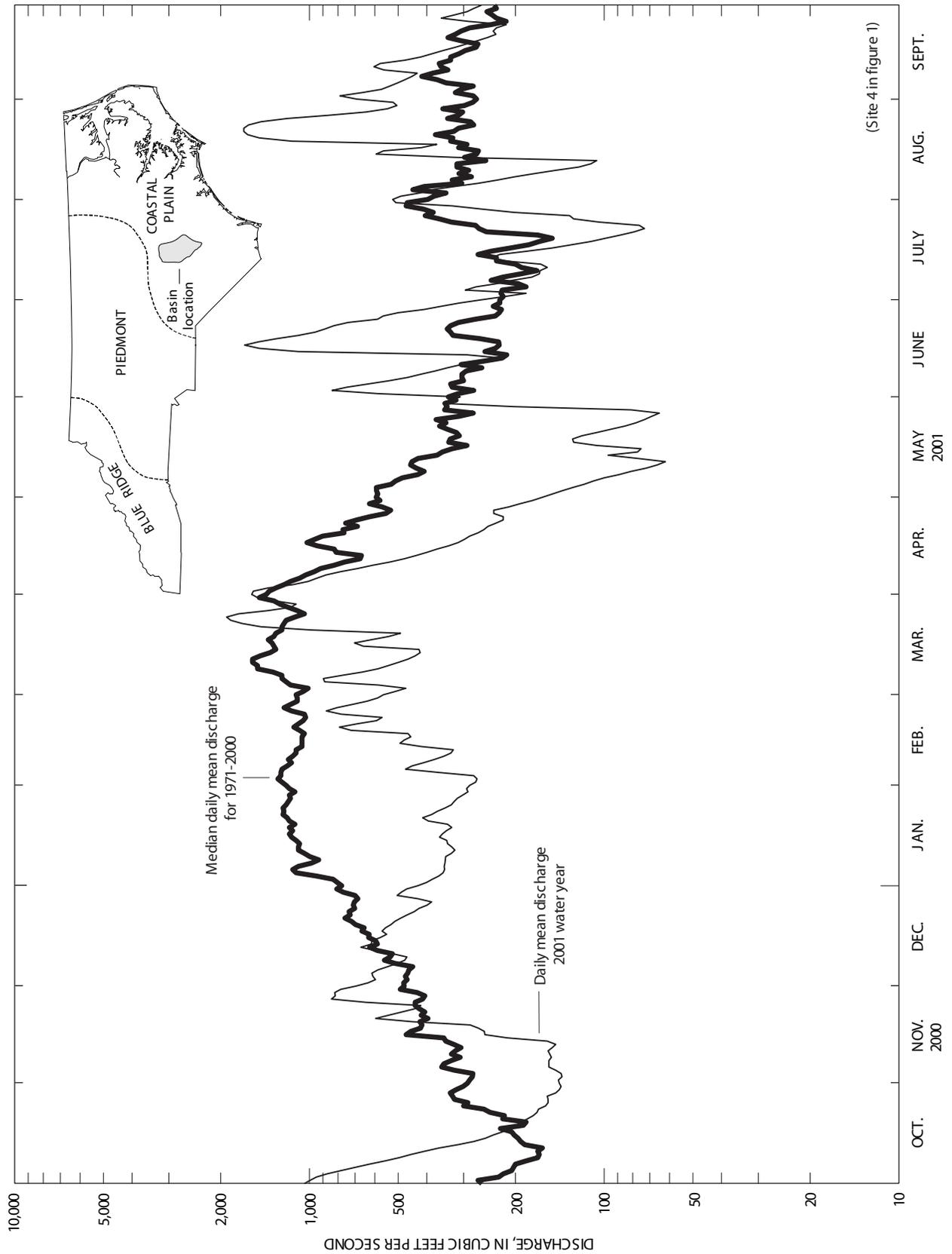


Figure 5.--Daily mean discharge for 2001 water year and median daily mean discharge for 1971-2000 water years for Black River near Tomahawk (02106500).

(Site 4 in figure 1)

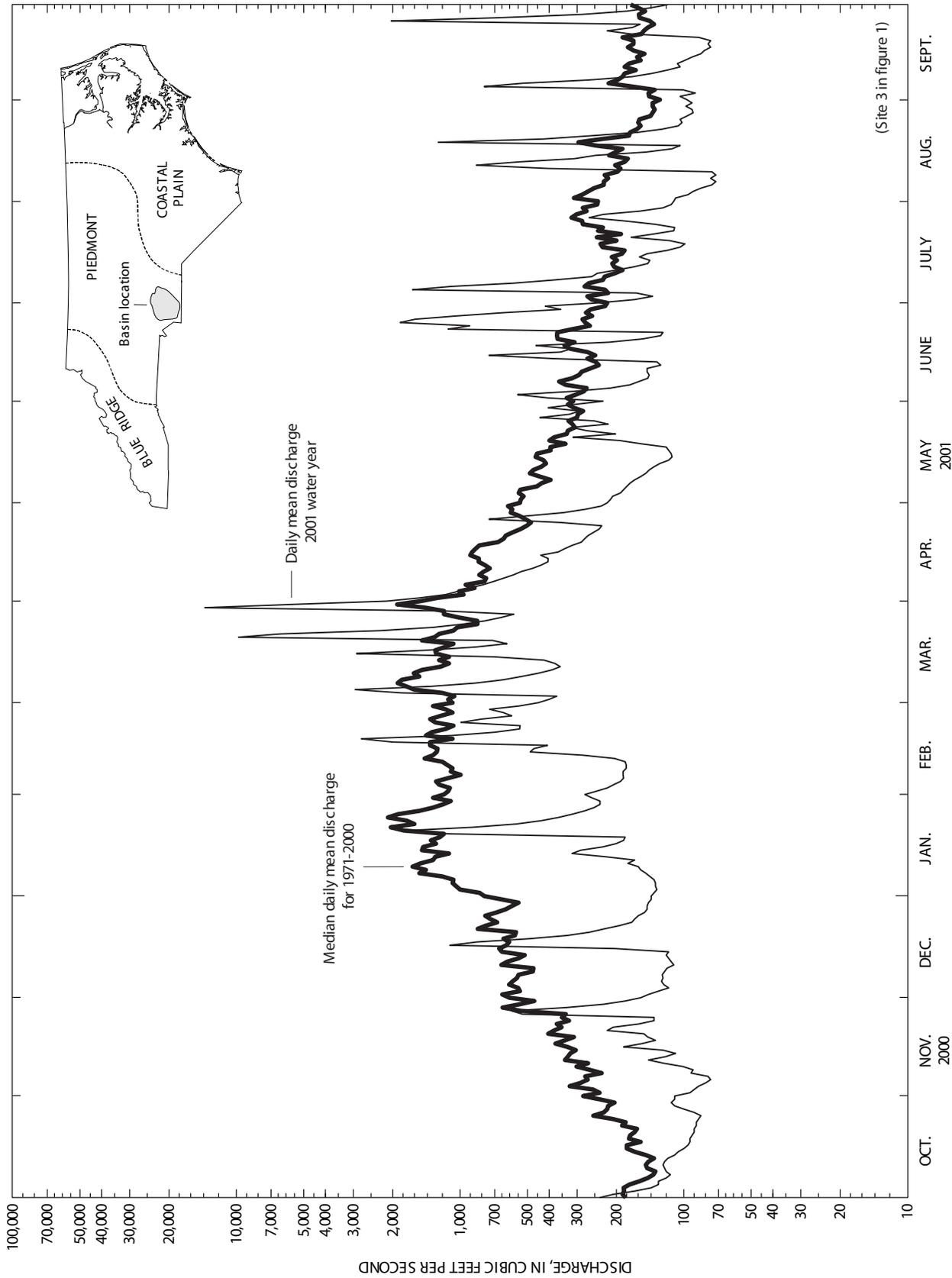


Figure 6.--Daily mean discharge for 2001 water year and median daily mean discharge for 1971-2000 water years for Rocky River near Norwood (02126000).

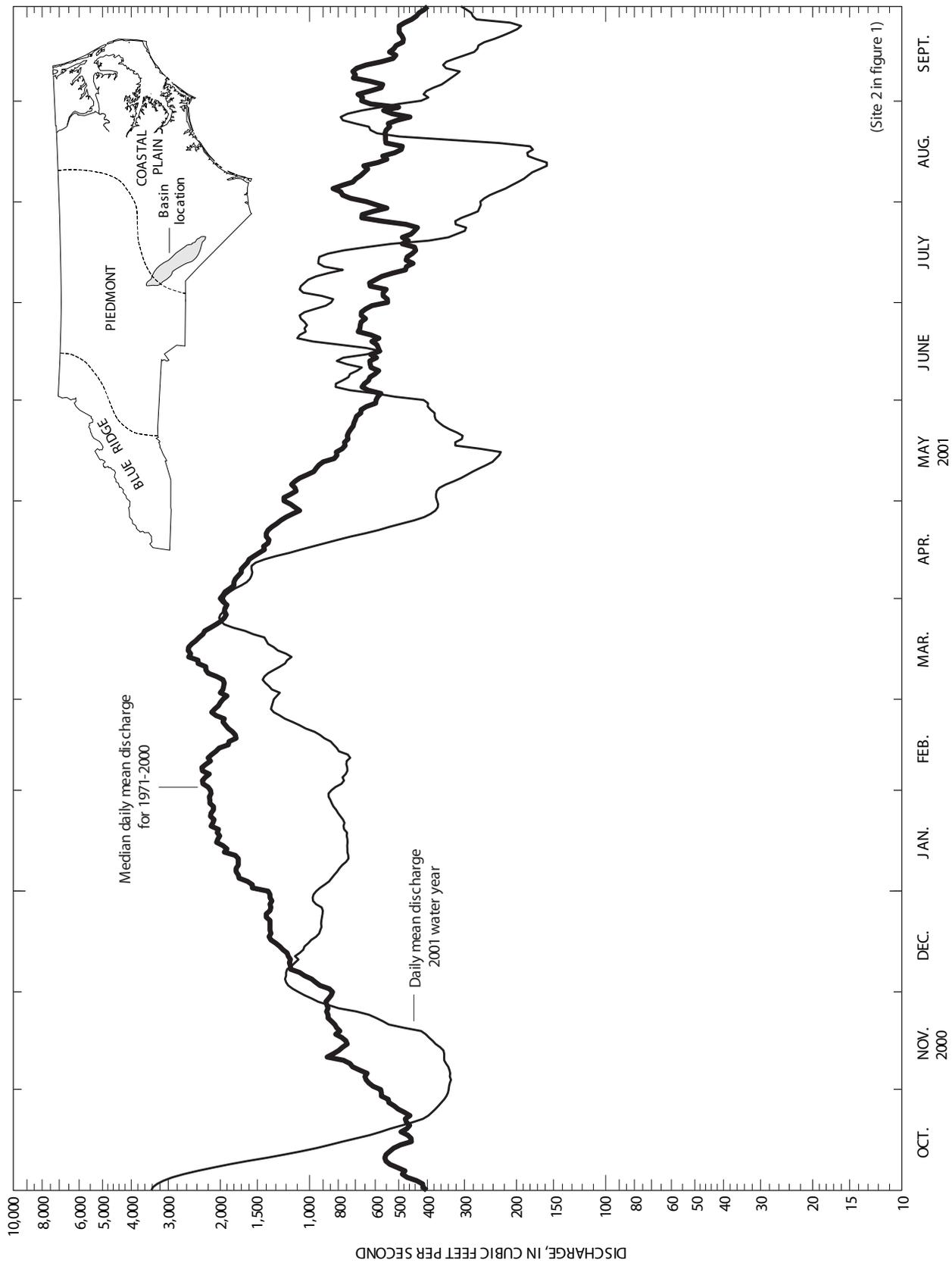


Figure 7.--Daily mean discharge for 2001 water year and median daily mean discharge for 1971-2000 water years for Lumber River at Boardman (02134500).

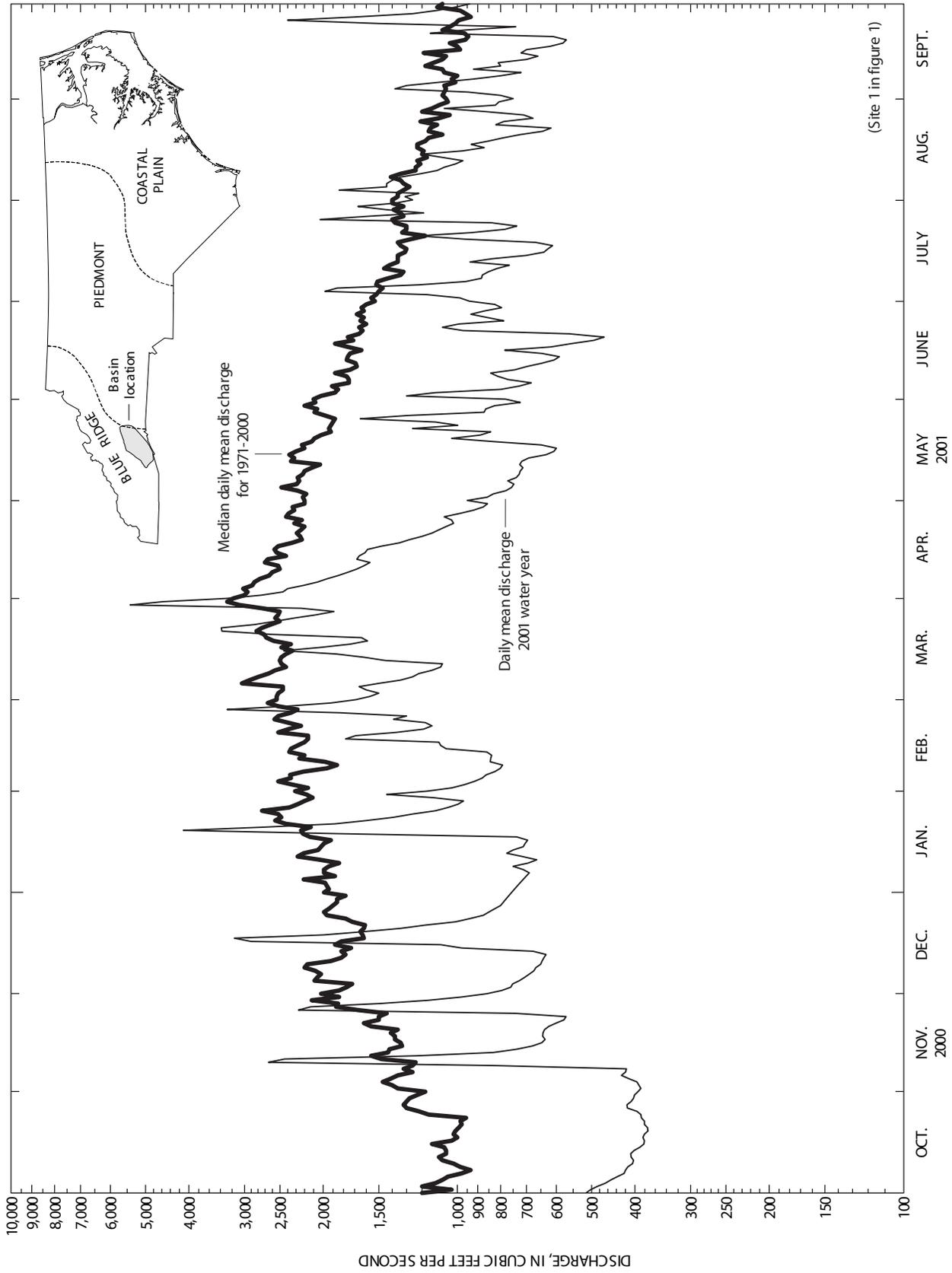


Figure 8.--Daily mean discharge for 2001 water year and median daily mean discharge for 1971-2000 water years for French Broad River at Asheville (03451500).

## SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the streamflow representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activities. At 10 of these sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the affects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program can be found at <http://water.usgs.gov/hbn/>.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations were operated in the Mississippi, Columbia, Colorado, and Rio Grande. From 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia so that a network of 5 stations could be implemented on the Yukon River. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals. Additional information about the NASQAN Program can be found at <http://water.usgs.gov/nasqan/>.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical constituents in precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 225 precipitation chemistry monitoring sites. This long-term, nationally consistent monitoring program, coupled with ecosystem research, provides critical information toward a national scorecard to evaluate the effectiveness of ongoing and future regulations intended to reduce atmospheric emissions and subsequent impacts to the Nation's land and water resources. Reports and other information on the NADP/NTN Program, as well as all data from the individual sites, can be found at <http://bqs.usgs.gov/acidrain/>.

The National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 59 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key federal, State, and local water resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies. Additional information about the NAWQA Program can be found at [http://water.usgs.gov/nawqa/nawqa\\_home.html](http://water.usgs.gov/nawqa/nawqa_home.html).

## EXPLANATION OF RECORDS

The surface-water records published in this report are for the 2001 water year that began October 1, 2000, and ended September 30, 2001. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, and water-quality data. Locations of the stations where the data were collected are shown in figures. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the USGS to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on

geographic location. The "downstream order number" system is used for surface-water stations, and the "latitude-longitude" system is used for miscellaneous surface-water sites and wells.

#### Downstream Order System

Since October 1, 1950, the order of listing hydrologic-station records in USGS reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indentation in the "List of Stations" in the front of this report. Each indentation represents one rank. This downstream order and system of indentation show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight- or ten-digit number for each station, such as 02053200 (0208700780), which appears just to the left of the station name, includes the two-digit part number "02" plus the six- or eight digit downstream-order number "053200." The part number designates the major river basin; for example, part "02" is the South Atlantic Slope Basin.

#### Latitude-Longitude System

The identification numbers for wells and miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude; the next seven digits denote degrees, minutes, and seconds of longitude; and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site identification number, once assigned, is a part number, and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description (fig. 9).

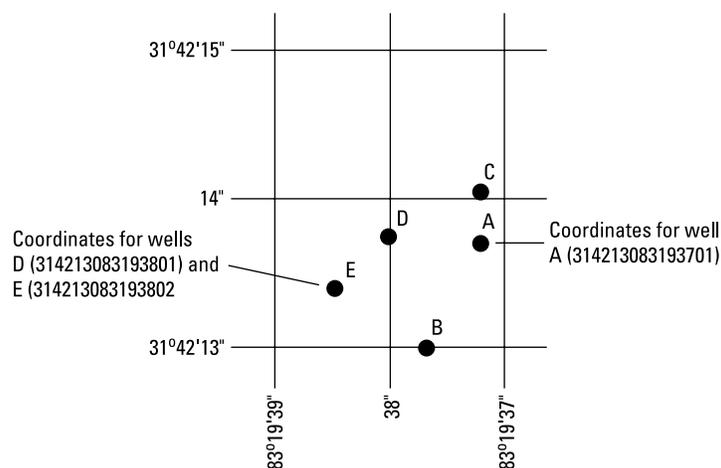


Figure 9.--System for numbering miscellaneous sites and wells.

#### Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharges can be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir content, similarly, are those for which stage or content can be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a continuous stage-recording device, but need not be. Because daily mean discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles, such as "Crest-stage partial records," or "Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, and they are presented separately in this report.

#### Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consists of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that can affect the relationships between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily discharges. The data obtained at a complete-record gaging station on a lake or reservoir consist of a record of stage and of notations regarding factors that can affect the relationship between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Continuous records of stage are obtained by analog-digital recorders that punch stage values on paper tapes at selected time intervals, or electronic data loggers that either store data electronically on site or transmit it by satellite or telephone telemetry to a computer at the office. Measurements of discharge are made with current meters using methods adapted by the USGS as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations (TWRI), Book 3, Chapter A6.

In computing streamflow records, results of individual discharge measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables are prepared indicating the approximate discharge for any stage within the range of the measurements. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow over dams or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. If the stage-discharge relation is subject to change because of frequent or continual change in physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on individual discharge measurements, and notes of the personnel making the measurements, are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter can so obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

At some stream-gaging stations, the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

In computing records of lake or reservoir contents, it is necessary to have surveys available from curves or tables that define the relationship of stage and content. The tables are developed from bathymetric surveys. The application of stage to stage-content curves or tables gives the contents from which daily, monthly, or yearly changes are then determined. If the stage-content relationship changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relationship. Even when this is done, the computed contents may become increasingly in error over time, as time since the last survey increases. Discharges over lake or reservoir spillways are computed from stage-discharge relationships much as other stream discharges are computed.

For some gaging stations there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, daily discharges are estimated from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents can be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections.

#### Data Presentation

Streamflow data in this report are presented in a new format that is considerably different from the format in data reports prior to the 1991 water year. The major changes are that statistical characteristics of discharge now appear in tabular summaries following the water-year data

## Data Presentation--Continued

table, and less information is provided in the text or station manuscript above the table. These changes were made as a result of a pilot program to reformat the annual water-data report to meet current user and data preferences.

The records published for each continuous-record surface-water discharge station (gaging station) now consist of five parts: (1) the manuscript or station description; (2) the data table of daily mean values of discharge for the current water year with summary data; (3) a tabular statistical summary of monthly mean flow data for a designated period, by water year; (4) a summary statistics table that includes statistical data of annual, daily, and instantaneous flow as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration; (5) and a hydrograph of discharge.

Station manuscript

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments that follow clarify information presented under the various headings of the station description.

**LOCATION.**-- Information on site locations is obtained from the most accurate maps available. The location of the gage is given with respect to cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name. River miles, given for only a few stations, were either determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council, or were provided by the U.S. Army Corps of Engineers. Latitudes and longitudes used in this report are reported as National American Datum of 1927 unless otherwise specified.

**DRAINAGE AREA.**--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

**PERIOD OF RECORD.**--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time when the present station was not, and in a location such that records from it can reasonably be considered equivalent to records from the present station.

**REVISED RECORDS.**--Because of new information, published records occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all of the reports in which revisions have been published for the station and the water years for which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" means that only the instantaneous minimum was revised; and "(P)" means that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

**GAGE.**--The type of gage in current use, the datum of the current gage referenced to sea level (see glossary), and a condensed history of the types, locations, and datums of previous gages are given under this heading. Datums used in this report are reported as National Geodetic Vertical Datum of 1929 (NGVD29) unless otherwise noted.

**REMARKS.**--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station, information regarding extremes for period of record and current year data and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

**COOPERATION.**--Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. This information may or may not have been obtained by the USGS.

**REVISIONS.**--If errors in published stage and water discharge records are discovered after publication, appropriate updates are made in the U.S. Geological Survey's distributed data system, NWIS, and subsequently to its web-based National data system, NWISWeb [<http://water.usgs.gov/nwis/nwis>], as well as including a revision in the first report published following the discovery of the error. Potential users of U.S. Geological Survey stage and water discharge records are encouraged to obtain all required data from NWIS or NWISWeb to ensure the most recent updates.

## Data Presentation--Continued

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there possibly would be no current or future station manuscript published to document the revision in a "Revised Records" entry, data users who obtained the record from previously published data reports may wish to contact the District office to determine if the published records were ever revised after the station was discontinued. If the data were obtained by computer retrieval, however, the data would be current, and any published revision of data is always accompanied by revision of the corresponding data in computer storage. Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the "Remarks" and in the inclusion of a skeleton stage-capacity table when daily contents are given.

Data table of daily mean values

The daily table of discharge records for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary for the table, the line headed "TOTAL" gives the sum of the daily figures for each month; the line headed "MEAN" gives the average flow in cubic feet per second for the month; and the lines headed "MAX" and "MIN" give the maximum and minimum daily mean discharges, respectively, for each month. Discharge for the month also is usually expressed in cubic feet per second per square mile (line headed "CFSM"); or in inches (line headed "IN."); or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. At some stations, monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversion data or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

Statistics of monthly mean data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "MIN") of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those figures. The designated period will be expressed as "FOR WATER YEARS \_\_\_\_-\_\_\_\_, BY WATER YEAR (WY)," and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

Summary statistics

A table titled "SUMMARY STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, "FOR WATER YEARS \_\_\_\_-\_\_\_\_," will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (See line headings below.), except for the "ANNUAL 7-DAY MINIMUM" statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When this occurs, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each continuous record of discharge. Comments that follow clarify information presented under the various line headings of the summary statistics table.

ANNUAL TOTAL.--The sum of the daily mean values of discharge for the year. At some stations the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period. At some stations the yearly mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

## Data Presentation--Continued

HIGHEST ANNUAL MEAN.--The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.--The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.--The maximum daily mean discharge occurring for the designated period.

LOWEST DAILY MEAN.--The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.--The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1 - March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day, 10-year low-flow statistic.)

INSTANTANEOUS PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Note that secondary instantaneous peak discharges above a selected base discharge are stored in district computer files for stations meeting certain criteria. Those discharge values can be obtained by writing to the District office. (See address on back of title page of this report.)

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.--The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF (AC-FT).--Indicates the depth, in acre-feet, to which the drainage area would be covered if all of the runoff for the year were uniformly distributed on it.

ANNUAL RUNOFF (CFSM).--Indicates the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area for the year.

ANNUAL RUNOFF (INCHES).--Indicates the depth to which the drainage area would be covered if all the runoff for the year were uniformly distributed on it.

10 PERCENT EXCEEDS.--The discharge that has been exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.--The discharge that has been exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.--The discharge that has been exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first table presents annual maximum stage and discharge at crest-stage stations, and the second table presents discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

## Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter "e" and noting in a table footnote, "e Estimated," and/or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

## Accuracy of the Records

The accuracy of streamflow records depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements; and (2) the accuracy of measurements of stage, measurements of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of the true; "good," within 10 percent; and "fair," within 15 percent. Records that do not meet the criteria mentioned are rated "poor." Different accuracies may be attributed to different parts of a given record.

### Accuracy of the Records--Continued

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second (ft<sup>3</sup>/s) for values less than 1 ft<sup>3</sup>/s; to the nearest tenth, between 1.0 and 10 ft<sup>3</sup>/s; to whole numbers, between 10 and 1,000 ft<sup>3</sup>/s; and to three significant figures for values more than 1,000 ft<sup>3</sup>/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation as a result of artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff, in inches, are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes affected by use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison to the observed discharge.

### Other Records Available

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables, are on file in the North Carolina District office. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of unpublished information or on the results of statistical analyses of published records can be obtained from the District office.

## Records of Precipitation

### Data Collection and Computation

Rainfall data were generally collected by electronic data loggers in 0.01-in. increments every 15 minutes using either tipping-bucket rain gages or collection well gages. Twenty-four hour rainfall totals are tabulated and presented. A 24-hour period extends from just past midnight the previous day to midnight the current day. Snowfall-affected data can result during cold weather when snow fills the rain-gage funnel and then melts as temperatures rise. Snowfall-affected data are subject to errors. Missing values are indicated by a "---" in the table.

### Data Presentation

Precipitation records collected at surface-water gaging stations are identified by the same station number and name as the gaging station. Where a surface-water, daily-record station is not available, the precipitation record is published with its own name and latitude-longitude identification number.

Information pertinent to the history of a precipitation station is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, period of record, and general remarks.

The following information, as appropriate, is provided with each precipitation station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge", same comments apply.

PERIOD OF RECORD.--See Data Presentation under "Records of Stage and Water Discharge", same comments apply.

INSTRUMENTATION. -- Information on the type of rainfall collection system is given.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of records.

## Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

### Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A *continuous-record station* is a site where data are collected on a regularly scheduled basis. Frequency may be one or more times daily, weekly, monthly, or quarterly. A *partial-record station* is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly.

A *miscellaneous sampling site* is a location other than a continuing- or partial-record station, where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between *continuous records* as used in this report and *continuous recordings* which refers to a continuous graph or a series of discrete values recorded at short intervals. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figures 12 and 13.

#### Accuracy of the Records

One of four accuracy classifications is applied for measured physical properties at continuous-record stations on a scale ranging from poor to excellent. The accuracy rating is based on data values recorded before any shifts or corrections are made, as described by Wagner and others (2000). Additional consideration also is given to the amount of publishable record and to the amount of data that have been corrected or shifted.

#### Rating continuous water-quality records

[ $\leq$ , less than or equal to;  $\pm$ , plus or minus value shown;  $^{\circ}\text{C}$ , degree Celsius;  $>$ , greater than; %, percent; mg/L, milligram per liter; pH unit, standard pH unit]

Measured physical property	Ratings			
	Excellent	Good	Fair	Poor
Water temperature	$\leq \pm 0.2^{\circ}\text{C}$	$> \pm 0.2$ to $0.5^{\circ}\text{C}$	$> \pm 0.5$ to $0.8^{\circ}\text{C}$	$> \pm 0.8^{\circ}\text{C}$
Specific conductance	$\leq \pm 3\%$	$> \pm 3$ to $10\%$	$> \pm 10$ to $15\%$	$> \pm 15\%$
Dissolved oxygen	$\leq \pm 0.3$ mg/L	$> \pm 0.3$ to $0.5$ mg/L	$> \pm 0.5$ to $0.8$ mg/L	$> \pm 0.8$ mg/L
pH	$\leq \pm 0.2$ unit	$> \pm 0.2$ to $0.5$ unit	$> \pm 0.5$ to $0.8$ unit	$> \pm 0.8$ unit
Turbidity	$\leq \pm 5\%$	$> \pm 5$ to $10\%$	$> \pm 10$ to $15\%$	$> \pm 15\%$

#### Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

#### On-Site Measurements and Sample Collection

In obtaining water-quality data, a major concern is assuring that the data obtained represent the naturally occurring quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, must be made on site when the samples are taken. To assure that measurements made in the laboratory also represent the naturally occurring water, carefully prescribed procedures must be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in publications on *Techniques of Water-Resources Investigations*, Book 1, Chap. D2; Book 3, Chap. A1, A3, and A4; Book 9, Chap. A1-A9. All of these references are listed on pages 40 through 44 of this report. Also, detailed information on collecting, treating, and shipping samples can be obtained from the USGS North Carolina District office.

It is possible for one sample to adequately define the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section can vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample for use in determining an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several vertical depends on flow conditions and other factors which must be evaluated by the collector.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) can be obtained from the USGS North Carolina District office at the address given on the back of the title page of this report.

NOTICE: Values of dissolved and total selenium exceeding 5 mg/L in samples collected prior to 1975 are probably incorrect and should only be used with caution. Values of dissolved selenium greater than 1 mg/L collected prior to 1975 should also be considered questionable, although a fair percentage of them may, in fact, be correct.

#### Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at the time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the District office.

#### Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily discharges of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of suspended-sediment discharge, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

#### Laboratory Measurements

Sediment samples, and samples for biochemical oxygen demand (BOD), and indicator bacteria are analyzed locally. All other samples are analyzed in the USGS laboratory in Arvada, Colorado, unless otherwise noted. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1. Methods used by the USGS laboratories are given in the TWRI's, Book 1, Chap. D2; Book 3, Chap. C2; and Book 5, Chaps. A1, A3, and A4.

The U.S. Geological Survey National Water Quality Laboratory collects quality-control data on a continuing basis to evaluate selected analytical methods to determine long-term method detection levels (LT-MDL's) and laboratory reporting levels (LRL's). These values are re-evaluated each year on the basis of the most recent quality-control data and, consequently, may change from year to year.

This reporting procedure limits the occurrence of false positive error. The chance of falsely reporting a concentration greater than the LT-MDL for a sample in which the analyte is not present is 1 percent or less. Application of the LRL limits the occurrence of false negative error. The chance of falsely reporting a non-detection for a sample in which the analyte is present at a concentration equal to or greater than the LRL is 1 percent or less.

Accordingly, concentrations are reported as <LRL for samples in which the analyte was either not detected or did not pass identification. Analytes that are detected at concentrations between the LT-MDL and LRL and that pass identification criteria are estimated. Estimated concentrations will be noted with a remark code of "E". These data should be used with the understanding that their uncertainty is greater than that of data reported without the "E" remark code.

In March 1990 the National Water-Quality Laboratory discovered a bias in the turbidimetric method for sulfate analysis, indicating that values below 75 mg/L have a median positive bias of 2 mg/L above the true value for the period between 1982 and 1990.

MBAS determinations made from January 1, 1970 through August 29, 1993, at the National Water Quality Laboratory in Denver (Analyzing Agency Code 80020) are positively biased. These data can be corrected on the basis of the following equation, if concentrations of dissolved nitrate plus nitrite, as nitrogen, and dissolved chloride, determined concurrently with the MBAS data, are applied:

$$\text{MBASCOR} = M - 0.0088N - 0.00019C$$

where:

MBASCOR = corrected MBAS concentration, in mg/L;

M = reported MBAS concentration, in mg/L;

N = dissolved nitrate plus nitrite, as nitrogen concentration, in mg/L; and

C = dissolved chloride concentration, in mg/L.

The detection limit of the new method is 0.02 mg/L, whereas the detection limit for the old method was 0.01 mg/L. A detection limit of 0.02 mg/L should be used with corrected MBAS data from January 1, 1970 through August 29, 1993.

#### Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.--Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. For parameters measured weekly or less frequently, true maximums or minimums may not have been obtained. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made in the U.S. Geological Survey's distributed data system, NWIS, and subsequently to its web-based National data system, NWISWeb [<http://water.usgs.gov/nwis/nwis>]. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure the most recent updates. Updates to the NWISWeb are currently made on an annual basis.

The surface-water quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

#### Remarks Codes

The following remarks codes may appear with the water-quality data in this report:

PRINTED OUTPUT	REMARK
E	Estimated value.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
K	Results based on colony count outside the acceptance range (nonideal colony count).
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted).
D	Biological organism count equal to or greater than 15 percent (dominant).
V	Analyte was detected in both the environmental sample and the associated blanks.
&	Biological organism estimated as dominant.

#### Dissolved Trace-Element Concentrations

NOTE.--Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (ug/L) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Data above the ug/L level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols at some stations in water year 1994.

#### Change in National Trends Network Procedures

NOTE.--Sample handling procedures at all National Trends Network stations were changed substantially on January 11, 1994, in order to reduce contamination from the sample shipping container. The data for samples before and after that date are different and not directly comparable. A tabular summary of the differences based on a special intercomparison study, is available from the NADP Program Office, Illinois State Water Survey, 2204 Griffith Drive, Champaign, IL 61820-7495 (217-333-7873).

#### Water Quality-Control Data

Data generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by this district are described in the following section. Procedures have been established for the storage of water-quality-control data within the USGS. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples.

### Blank Samples

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated by the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytes of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. There are many types of blank samples possible, each designed to segregate a different part of the overall data-collection process. The types of blank samples collected in this district are:

Source solution blank – a blank solution that is transferred to a sample bottle in an area of the office laboratory with an atmosphere that is relatively clean and protected with respect to target analytes.

Ambient blank – a blank solution that is put in the same type of bottle used for an environmental sample, kept with the set of sample bottles before sample collection, and opened at the site and exposed to the ambient conditions.

Field blank - a blank solution that is subjected to all aspects of sample collection, field processing preservation, transportation, and laboratory handling as an environmental sample.

Trip blank - a blank solution that is put in the same type of bottle used for an environmental sample and kept with the set of sample bottles before and after sample collection.

Equipment blank - a blank solution that is processed through all equipment used for collecting and processing an environmental sample (similar to a field blank but normally done in the more controlled conditions of the office).

Sampler blank - a blank solution that is poured or pumped through the same field sampler used for collecting an environmental sample.

Pump blank – a blank solution that is processed through the same pump-and-tubing system used for an environmental sample.

Standpipe blank – a blank solution that is poured from the containment vessel (stand-pipe) before the pump is inserted to obtain the pump blank.

Filter blank - a blank solution that is filtered in the same manner and through the same filter apparatus used for an environmental sample.

Splitter blank - a blank solution that is mixed and separated using a field splitter in the same manner and through the same apparatus used for an environment sample.

Preservation blank - a blank solution that is treated with the sampler preservatives used for an environmental sample.

Canister blank – a blank solution that is taken directly from a stainless steel canister just before the VOC sampler is submerged to obtain a field blank sample.

### Reference Samples

Reference material is a solution or material prepared by a laboratory whose composition is certified for one or more properties so that it can be used to assess a measurement method. Samples of reference material are submitted for analysis to ensure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

### Replicate Samples

Replicate samples are a set of environmental samples collected in a manner such that the samples are thought to be essentially identical in composition. Replicate is the general case for which a duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process. There are many types of replicate samples possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this district are:

Concurrent sample – a type of replicate sample in which the samples are collected simultaneously with two or more samplers or by using one sampler and alternating collection of samples into two or more compositing containers.

Sequential samples - a type of replicate sample in which the samples are collected one after the other, typically over a short time.

Split sample - a type of replicate sample in which a sample is split into subsamples contemporaneous in time and space.

### Spike Samples

Spike samples are samples to which known quantities of a solution with one or more well-established analyte concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

## ACCESS TO USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations through the world wide web (WWW). These data may be accessed at

<http://water.usgs.gov>

Some water-quality and ground-water data also are available through the WWW. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division District Offices (See address on the back of the title page.)

## DEFINITION OF TERMS

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. Terms such as algae, water level, precipitation are used in their common everyday meanings, definitions of which are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting English units to International System (SI) Units on the inside of the back cover.

**Acid neutralizing capacity** (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an “unfiltered” sample (formerly reported as alkalinity).

**Acre-foot** (AC-FT, acre-ft) is a unit of volume, commonly used to measure quantities of water used or stored, equivalent to the volume of water required to cover 1 acre to a depth of 1 foot and equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters. (See also “Annual runoff”)

**Adenosine triphosphate** (ATP) is an organic, phosphate-rich, compound important in the transfer of energy in organisms. Its central role in living cells makes ATP an excellent indicator of the presence of living material in water. A measurement of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter.

**Algal growth potential** (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

**Alkalinity** is the capacity of solutes in an aqueous system to neutralize acid. This term designates titration of a “filtered” sample.

**Annual runoff** is the total quantity of water that is discharged (“runs off”) from a drainage basin in a year. Data reports may present annual runoff data as volumes in acre-feet, as discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches.

**Annual 7-day minimum** is the lowest mean value for any 7-consecutive-day period in a year. Annual 7-day minimum values are reported herein for the calendar year and the water year (October 1 to September 30). Most low-flow frequency analyses use a climatic year (April 1-March 31), which tends to prevent the low-flow period from being artificially split between adjacent years. The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

**Aroclor** is the registered trademark for a group of polychlorinated biphenyls that were manufactured by the Monsanto Company prior to 1976. Aroclors are assigned specific 4-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type and the last two digits represent the weight percent of the hydrogen substituted chlorine.

**Artificial substrate** is a device that is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hard-board) for benthic organism collection, and plexiglass strips for periphyton collection. (See also “Substrate”)

**Ash mass** is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. Ash mass of zooplankton and phytoplankton is expressed in grams per cubic meter ( $\text{g}/\text{m}^3$ ), and periphyton and benthic organisms in grams per square meter ( $\text{g}/\text{m}^2$ ). (See also “Biomass”)

**Bacteria** are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, while others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

**Base discharge (for peak discharge)** is a discharge value, determined for selected stations, above which peak discharge data are published. The base discharge at each station is selected so that an average of about three peaks per year will be published.

**Base flow** is sustained flow of a stream in the absence of direct runoff. It includes natural and human-induced streamflows. Natural base flow is sustained largely by ground-water discharge.

**Bedload** is material in transport that is supported primarily by the streambed. In this report, bedload is considered to consist of particles in transit from the bed to an elevation equal to the top of the bedload sampler nozzle (ranging from 0.25 to 0.5 ft) that are retained in the bedload sampler. A sample collected with a pressure-differential bedload sampler may also contain a component of the suspended load.

**Bedload discharge** (tons per day) is rate of sediment moving as bedload, reported as dry weight, that passes through a cross section in a given time. NOTE: Bedload discharge values in this report may include a component of the suspended-sediment discharge. A correction may be necessary when computing the total sediment discharge by summing the bedload discharge and the suspended-sediment discharge. (See also “Bedload” and “Sediment”)

**Bed material** is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed. (See also “Bedload” and “Sediment”)

**Benthic organisms** are the group of organisms inhabiting the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish. They are useful as indicators of water quality.

**Biochemical oxygen demand (BOD)** is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

**Biomass** is the amount of living matter present at any given time, expressed as mass per unit area or volume of habitat.

**Biomass pigment ratio** is an indicator of the total proportion of periphyton which are autotrophic (plants). This is also called the Autotrophic Index.

**Blue-green algae** (*Cyanophyta*) are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample. (See also “Phytoplankton”)

**Bottom material** (See “Bed material”)

**Cells/volume** refers to the number of cells of any organism that is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample volume, and are generally reported as cells or units per milliliter (mL) or liter (L).

**Cells volume** (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are frequently used in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume ( $\mu\text{m}^3$ ) is determined by obtaining critical cell measurements on cell dimensions (for example, length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average biovolume per cell. Cells are categorized according to the correspondence of their cellular shape to the nearest geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

$$\text{sphere } \frac{4}{3} \pi r^3 \quad \text{cone } \frac{1}{3} \pi r^2 h \quad \text{cylinder } \pi r^2 h.$$

pi is the ratio of the circumference to the diameter of a circle; pi = 3.14159...

From cell volume, total algal biomass expressed as biovolume ( $\mu\text{m}^3/\text{mL}$ ) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes over all species.

**Cfs-day** (See “Cubic foot per second-day”)

**Chemical oxygen demand (COD)** is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with BOD or with carbonaceous organic pollution from sewage or industrial wastes. [See also “Biochemical oxygen demand (BOD)”]

***Clostridium perfringens* (*C. perfringens*)** is a spore-forming bacterium that is common in the feces of human and other warm-blooded animals. Clostridial spores are being used experimentally as an indicator of past fecal contamination and presence of microorganisms that are resistant to disinfection and environmental stresses. (See also “Bacteria”)

**Coliphages** are viruses that infect and replicate in coliform bacteria. They are indicative of sewage contamination of waters and of the survival and transport of viruses in the environment.

**Color unit** is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

**Confined aquifer** is a term used to describe an aquifer containing water between two relatively impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases, the water level can rise above the ground surface, yielding a flowing well. (See also “Aquifer”)

**Contents** is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

**Continuous-record station** is a site where data are collected with sufficient frequency to define daily mean values and variations within a day.

**Control** designates a feature in the channel downstream from a gaging station that physically influences the water-surface elevation and thereby determines the stage-discharge relation at the gage. This feature may be a constriction of the channel, a bed-rock outcrop, a gravel bar, an artificial structure, or a uniform cross section over a long reach of the channel.

**Control structure** as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

**Cubic foot per second** (CFS,  $\text{ft}^3/\text{s}$ ) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second or approximately 449 gallons per minute, or 0.02832 cubic meters per second. The term "second-feet" sometimes is used synonymously with "cubic feet per second" but is now obsolete.

**Cubic foot per second-day** (CFS-DAY, Cfs-day,  $[(\text{ft}^3/\text{s})/\text{d}]$ ) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.98347 acre-feet, 646,317 gallons, or 2,446.6 cubic meters. The daily-mean discharges reported in the daily-value data tables are numerically equal to the daily volumes in cfs-days, and the totals also represent volumes in cfs-days.

**Cubic foot per second per square mile** [CFSM,  $(\text{ft}^3/\text{s})/\text{mi}^2$ ] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area. (See also "Annual runoff")

**Daily mean suspended-sediment concentration** is the time-weighted concentration of suspended sediment passing a stream cross section during a 24-hour day. (See also "Daily mean suspended-sediment concentration," "Sediment," and "Suspended-sediment concentration")

**Daily-record station** is a site where data are collected with sufficient frequency to develop a record of one or more data values per day. The frequency of data collection can range from continuous recording to periodic sample or data collection on a daily or near-daily basis.

**Data Collection Platform** (DCP) is an electronic instrument that collects, processes, and stores data from various sensors, and transmits the data by satellite data relay, line-of-sight radio, and/or landline telemetry.

**Data logger** is a microprocessor-based data acquisition system designed specifically to acquire, process, and store data. Data are usually downloaded from onsite data loggers for entry into office data systems.

**Datum** is a surface or point relative to which measurements of height and/or horizontal position are reported. A vertical datum is a horizontal surface used as the zero point for measurements of gage height, stage, or elevation; a horizontal datum is a reference for positions given in terms of latitude-longitude, State Plane coordinates, or UTM coordinates. (See also "Gage datum," "Land-surface datum," "National Geodetic Vertical Datum of 1929," and "North American Vertical Datum of 1988")

**Diatoms** are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

**Diel** is of or pertaining to a 24-hour period of time; a regular daily cycle.

**Discharge**, or flow, is the rate that matter passes through a cross section of a stream channel or other water body per unit of time. The term commonly refers to the volume of water (including, unless otherwise stated, any sediments or other constituents suspended or dissolved in the water) that passes a cross section in a stream channel, canal, pipeline, etc., within a given period of time (cubic feet per second). Discharge also can apply to the rate at which constituents such as suspended sediment, bedload, and dissolved or suspended chemical constituents, pass through a cross section, in which cases the quantity is expressed as the mass of constituent that passes the cross section in a given period of time (tons per day).

**Dissolved** refers to that material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal and State agencies that collect water-quality data. Determinations of "dissolved" constituent concentrations are made on sample water that has been filtered.

**Dissolved oxygen** (DO) is the molecular oxygen (oxygen gas) dissolved in water. The concentration in water is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen

decreases with increasing temperature or dissolved-solids concentration. Photosynthesis and respiration by plants commonly cause diurnal variations in dissolved-oxygen concentration in water from some streams.

**Dissolved-solids concentration** in water is the quantity of dissolved material in a sample of water. It is determined either analytically by the “residue-on-evaporation” method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. In the mathematical calculation, the bicarbonate value, in milligrams per liter, is multiplied by 0.4926 to convert it to carbonate. Alternatively, alkalinity concentration (as mg/L CaCO<sub>3</sub>) can be converted to carbonate concentration by multiplying by 0.60.

**Diversity index (H)** (Shannon Index) is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = - \sum_{i=1}^s \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

where  $n_i$  is the number of individuals per taxon,  $n$  is the total number of individuals, and  $s$  is the total number of taxa in the sample of the community. Index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

**Drainage area** of a stream at a specific location is that area upstream from the location, measured in a horizontal plane, that has a common outlet at the site for its surface runoff from precipitation that normally drains by gravity into a stream. Drainage areas given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

**Drainage basin** is a part of the Earth’s surface that contains a drainage system with a common outlet for its surface runoff. (See “Drainage area”)

**Dry mass** refers to the mass of residue present after drying in an oven at 105 °C, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass. (See also “Ash mass,” “Biomass,” and “Wet mass”)

**Dry weight** refers to the weight of animal tissue after it has been dried in an oven at 65 °C until a constant weight is achieved. Dry weight represents total organic and inorganic matter in the tissue. (See also “Wet weight”)

**Enterococcus bacteria** are commonly found in the feces of humans and other warm-blooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on mE agar and subsequent transfer to EIA medium. Enterococci include *Streptococcus faecalis*, *Streptococcus faecium*, *Streptococcus avium*, and their variants. (See also “Bacteria”)

**EPT Index** is the total number of distinct taxa within the insect orders Ephemeroptera, Plecoptera, and Trichoptera. This index summarizes the taxa richness within the aquatic insects that are generally considered pollution sensitive, the index usually decreases with pollution.

**Escherichia coli (E. coli)** are bacteria present in the intestine and feces of warm-blooded animals. *E. coli* are a member species of the fecal coliform group of indicator bacteria. In the laboratory, they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5 °C on mTEC medium. Their concentrations are expressed as number of colonies per 100 mL of sample. (See also “Bacteria”)

**Estimated (E) value** of a concentration is reported when an analyte is detected and all criteria for a positive result are met. If the concentration is less than the method detection limit (MDL), an ‘E’ code will be reported with the value. If the analyte is qualitatively identified as present, but the quantitative determination is substantially more uncertain, the National Water Quality Laboratory will identify the result with an ‘E’ code even though the measured value is greater than the MDL. A value reported with an ‘E’ code should be used with caution. When no analyte is detected in a sample, the default reporting value is the MDL preceded by a less than sign (<).

**Euglenoids (Euglenophyta)** are a group of algae that are usually free-swimming and rarely creeping. They have the ability to grow either photosynthetically in the light or heterotrophically in the dark. (See also “Phytoplankton”)

**Extractable organic halides (EOX)** are organic compounds that contain halogen atoms such as chlorine. These organic compounds are semi-volatile and extractable by ethyl acetate from air-dried streambed sediments. The ethyl acetate extract is com-

busted, and the concentration is determined by microcoulometric determination of the halides formed. The concentration is reported as micrograms of chlorine per gram of the dry weight of the streambed sediments.

**Fecal coliform bacteria** are present in the intestine or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5 °C plus or minus 0.2 °C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also “Bacteria”)

**Fecal streptococcal bacteria** are present in the intestine of warm-blooded animals and are ubiquitous in the environment. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 °C plus or minus 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also “Bacteria”)

**Fire algae** (*Pyrrhophyta*) are free-swimming unicells characterized by a red pigment spot. (See also “Phytoplankton”)

**Flow-duration percentiles** are values on a scale of 100 that indicate the percentage of time for which a flow is not exceeded. For example, the 90th percentile of river flow is greater than or equal to 90 percent of all recorded flow rates.

**Gage datum** is a horizontal surface used as a zero point for measurement of stage or gage height. This surface usually is located slightly below the lowest point of the stream bottom such that the gage height is usually slightly larger than the maximum depth of water. Because the gage datum itself is not an actual physical object, the datum usually is defined by specifying the elevations of permanent reference marks such as bridge abutments and survey monuments, and the gage is set to agree with the reference marks. Gage datum is a local datum that is maintained independently of any National geodetic datum. However, if the elevation of the gage datum relative to the National datum (North American Vertical Datum of 1988 or National Geodetic Vertical Datum of 1929) has been determined, then the gage readings can be converted to elevations above the National datum by adding the elevation of the gage datum to the gage reading.

**Gage height** (G.H.) is the water-surface elevation, in feet above the gage datum. If the water surface is below the gage datum, the gage height is negative. Gage height is often used interchangeably with the more general term “stage,” although gage height is more appropriate when used in reference to a reading on a gage.

**Gage values** are values that are recorded, transmitted and/or computed from a gaging station. Gage values typically are collected at 5-, 15-, or 30-minute intervals.

**Gaging station** is a site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

**Gas chromatography/flame ionization detector** (GC/FID) is a laboratory analytical method used as a screening technique for semivolatile organic compounds that are extractable from water in methylene chloride.

**Green algae** have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating “moss” in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample. (See also “Phytoplankton”)

**Habitat quality index** is the qualitative description (level 1) of instream habitat and riparian conditions surrounding the reach sampled. Scores range from 0 to 100 percent with higher scores indicative of desirable habitat conditions for aquatic life. Index only applicable to wadable streams.

**Hardness** of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations (primarily calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate (CaCO<sub>3</sub>).

**High tide** is the maximum height reached by each rising tide. The high-high and low-high tides are the higher and lower of the two high tides, respectively, of each tidal day. See NOAA web site:

<http://www.co-ops.nos.noaa.gov/tideglos.html>

**Hilsenhoff's Biotic Index (HBI)** is an indicator of organic pollution which uses tolerance values to weight taxa abundances; usually increases with pollution. It is calculated as follows:

$$HBI = \frac{\sum (n)(a)}{N}$$

where  $n$  is the number of individuals of each taxon,  $a$  is the tolerance value of each taxon, and  $N$  is the total number of organisms in the sample.

**Horizontal datum** (See "Datum")

**Hydrologic benchmark station** is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a benchmark station may be used to separate effects of natural from human-induced changes in other basins that have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped benchmark basin.

**Hydrologic index stations** referred to in this report are four continuous-record gaging stations that have been selected as representative of streamflow patterns for their respective regions. Station locations are shown on index maps.

**Hydrologic unit** is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as defined by the former Office of Water Data Coordination and delineated on the State Hydrologic Unit Maps by the USGS. Each hydrologic unit is identified by an 8-digit number.

**Inch (IN., in.)**, as used in this report, refers to the depth to which the drainage area would be covered with water if all of the runoff for a given time period were uniformly distributed on it. (See also "Annual runoff")

**Instantaneous discharge** is the discharge at a particular instant of time. (See also "Discharge")

**Laboratory Reporting Level (LRL)** is generally equal to twice the yearly determined long-term method detection level (LT-MDL). The LRL controls false negative error. The probability of falsely reporting a non-detection for a sample that contained an analyte at a concentration equal to or greater than the LRL is predicted to be less than or equal to 1 percent. The value of the LRL will be reported with a "less than" (<) remark code for samples in which the analyte was not detected. The National Water Quality Laboratory collects quality-control data from selected analytical methods on a continuing basis to determine LT-MDLs and to establish LRLs. These values are reevaluated annually based on the most current quality-control data and may, therefore, change. [Note: In several previous NWQL documents (Connor and others, 1998; NWQL Technical Memorandum 98.07, 1998), the LRL was called the non-detection value or NDV—a term that is no longer used.]

**Land-surface datum (lsd)** is a datum plane that is approximately at land surface at each ground-water observation well.

**Light-attenuation coefficient**, also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation

$$I = I_0 e^{-\lambda L},$$

where  $I_0$  is the source light intensity,  $I$  is the light intensity at length  $L$  (in meters) from the source,  $\lambda$  is the light-attenuation coefficient, and  $e$  is the base of the natural logarithm. The light attenuation coefficient is defined as

$$\lambda = -\frac{1}{L} \log_e \frac{I}{I_0}.$$

**Lipid** is any one of a family of compounds that are insoluble in water and that make up one of the principal components of living cells. Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

**Long-Term Method Detection Level (LT-MDL)** is a detection level derived by determining the standard deviation of a minimum of 24 method detection limit (MDL) spike sample measurements over an extended period of time. LT-MDL data are collected on a continuous basis to assess year-to-year variations in the LT-MDL. The LT-MDL controls false positive error. The chance of falsely reporting a concentration at or greater than the LT-MDL for a sample that did not contain the analyte is predicted to be less than or equal to 1 percent.

**Low tide** is the minimum height reached by each falling tide. The high-low and low-low tides are the higher and lower of the two low tides, respectively, of each tidal day. See NOAA web site:

<http://www.co-ops.nos.noaa.gov/tideglos.html>

**Macrophytes** are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that are usually arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

**Mean concentration of suspended sediment** (Daily mean suspended-sediment concentration) is the time-weighted concentration of suspended sediment passing a stream cross section during a given time period. (See also “Daily mean suspended-sediment concentration” and “Suspended-sediment concentration”)

**Mean discharge** (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period. (See also “Discharge”)

**Mean high or low tide** is the average of all high or low tides, respectively, over a specific period.

**Mean sea level** is a local tidal datum. It is the arithmetic mean of hourly heights observed over the National Tidal Datum Epoch. Shorter series are specified in the name; for example, monthly mean sea level and yearly mean sea level. In order that they may be recovered when needed, such datums are referenced to fixed points known as benchmarks. (See also “Datum”)

**Measuring point** (MP) is an arbitrary permanent reference point from which the distance to water surface in a well is measured to obtain water level.

**Membrane filter** is a thin microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

**Metamorphic stage** refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

**Method Detection Limit** (MDL) is the minimum concentration of a substance that can be measured and reported with 99-percent confidence that the analyte concentration is greater than zero. It is determined from the analysis of a sample in a given matrix containing the analyte. At the MDL concentration, the risk of a false positive is predicted to be less than or equal to 1 percent.

**Methylene blue active substances** (MBAS) are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

**Micrograms per gram** (UG/G,  $\mu\text{g/g}$ ) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

**Micrograms per kilogram** (UG/KG,  $\mu\text{g/kg}$ ) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of the material analyzed. One microgram per kilogram is equivalent to 1 part per billion.

**Micrograms per liter** (UG/L,  $\mu\text{g/L}$ ) is a unit expressing the concentration of chemical constituents in water as mass (micrograms) of constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter. One microgram per liter is equivalent to 1 part per billion.

**Microsiemens per centimeter** (US/CM,  $\mu\text{S/cm}$ ) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

**Milligrams per liter** (MG/L,  $\text{mg/L}$ ) is a unit for expressing the concentration of chemical constituents in water as the mass (milligrams) of constituent per unit volume (liter) of water. Concentration of suspended sediment also is expressed in  $\text{mg/L}$  and is based on the mass of dry sediment per liter of water-sediment mixture.

**Minimum Reporting Level** (MRL) is the smallest measured concentration of a constituent that may be reliably reported by using a given analytical method (Timme, 1995).

**Miscellaneous site**, miscellaneous station, or miscellaneous sampling site is a site where streamflow, sediment, and/or water-quality data or water-quality or sediment samples are collected once, or more often on a random or discontinuous basis to provide better areal coverage for defining hydrologic and water-quality conditions over a broad area in a river basin.

**Most probable number (MPN)** is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. MPN is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

**Multiple-plate samplers** are artificial substrates of known surface area used for obtaining benthic invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

**Nanograms per liter (NG/L, ng/L)** is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.

**National Geodetic Vertical Datum of 1929 (NGVD of 1929)** is a fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It was formerly called "Sea Level Datum of 1929" or "mean sea level." Although the datum was derived from the mean sea level at 26 tide stations, it does not necessarily represent local mean sea level at any particular place. See NOAA web site: <http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88> (See "North American Vertical Datum of 1988")

**Natural substrate** refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives. (See also "Substrate.")

**Nekton** are the consumers in the aquatic environment and consist of large free-swimming organisms that are capable of sustained, directed mobility.

**Nephelometric turbidity unit (NTU)** is the measurement for reporting turbidity that is based on use of a standard suspension of Formazin. Turbidity measured in NTU uses nephelometric methods that depend on passing specific light of a specific wavelength through the sample.

**North American Vertical Datum of 1988 (NAVD 1988)** is a fixed reference adopted as the official civilian vertical datum for elevations determined by Federal surveying and mapping activities in the U.S. This datum was established in 1991 by minimum-constraint adjustment of the Canadian, Mexican, and U.S. first-order terrestrial leveling networks.

**Open or screened interval** is the length of unscreened opening or of well screen through which water enters a well, in feet below land surface.

**Organic carbon (OC)** is a measure of organic matter present in aqueous solution, suspension, or bottom sediments. May be reported as dissolved organic carbon (DOC), particulate organic carbon (POC), or total organic carbon (TOC).

**Organic mass** or volatile mass of the living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. Organic mass is expressed in the same units as for ash mass and dry mass. (See also "Ash mass," "Biomass," and "Dry mass")

**Organism count/area** refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter (m<sup>2</sup>), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

**Organism count/volume** refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

**Organochlorine compounds** are any chemicals that contain carbon and chlorine. Organochlorine compounds that are important in investigations of water, sediment, and biological quality include certain pesticides and industrial compounds.

**Parameter Code** is a 5-digit number used in the USGS computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent or property.

**Partial-record station** is a site where discrete measurements of one or more hydrologic parameters are obtained over a period of time without continuous data being recorded or computed. A common example is a crest-stage gage partial-record station at which only peak stages and flows are recorded.

**Particle size** is the diameter, in millimeters (mm), of a particle determined by sieve or sedimentation methods. The sedimentation method utilizes the principle of Stokes Law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube, Sedigraph) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

**Particle-size classification**, as used in this report, agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay	0.00024 - 0.004	Sedimentation
Silt	0.004 - 0.062	Sedimentation
Sand	0.062 - 2.0	Sedimentation/sieve
Gravel	2.0 - 64.0	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic matter is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

**Peak flow (peak stage)** is an instantaneous local maximum value in the continuous time series of streamflows or stages, preceded by a period of increasing values and followed by a period of decreasing values. Several peak values ordinarily occur in a year. The maximum peak value in a year is called the annual peak; peaks lower than the annual peak are called secondary peaks. Occasionally, the annual peak may not be the maximum value for the year; in such cases, the maximum value occurs at midnight at the beginning or end of the year, on the recession from or rise toward a higher peak in the adjoining year. If values are recorded at a discrete series of times, the peak recorded value may be taken as an approximation to the true peak, which may occur between the recording instants. If the values are recorded with finite precision, a sequence of equal recorded values may occur at the peak; in this case, the first value is taken as the peak.

**Percent composition or percent of total** is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, mass, or volume.

**Percent shading** is determined by using a clinometer to estimate left and right bank shading. The values are added together and divided by 180 to determine percent shading relative to a horizontal surface.

**Periodic-record station** is a site where stage, discharge, sediment, chemical, physical, or other hydrologic measurements are made one or more times during a year, but at a frequency insufficient to develop a daily record.

**Periphyton** is the assemblage of microorganisms attached to and living upon submerged solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

**Pesticides** are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

**pH** of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7 are termed "acidic," and solutions with a pH greater than 7 are termed "basic." Solutions with a pH of 7 are neutral. The presence and concentration of many dissolved chemical constituents found in water are, in part, influenced by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms are also influenced, in part, by the hydrogen-ion activity of water.

**Phytoplankton** is the plant part of the plankton. They are usually microscopic, and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water.

They are the primary food producers in the aquatic environment and are commonly known as algae. (See also "Plankton")

**Picocurie (PC, pCi)** is one trillionth ( $1 \times 10^{-12}$ ) of the amount of radioactive nuclide represented by a curie (Ci). A curie is the quantity of radioactive nuclide that yields  $3.7 \times 10^{10}$  radioactive disintegrations per second (dps). A picocurie yields 0.037 dps, or 2.22 dpm (disintegrations per minute).

**Plankton** is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers. Concentrations are expressed as a number of cells per milliliter (cells/mL of sample).

**Polychlorinated biphenyls (PCBs)** are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

**Polychlorinated naphthalenes (PCNs)** are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCBs) and have been identified in commercial PCB preparations.

**Primary productivity** is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated (carbon method) by the plants.

**Primary productivity (carbon method)** is expressed as milligrams of carbon per area per unit time [ $\text{mg C}/(\text{m}^2/\text{time})$ ] for periphyton and macrophytes or per volume [ $\text{mg C}/(\text{m}^3/\text{time})$ ] for phytoplankton. Carbon method defines the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light and dark bottle method and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period. (See also "Primary productivity")

**Primary productivity (oxygen method)** is expressed as milligrams of oxygen per area per unit time [ $\text{mg O}/(\text{m}^2/\text{time})$ ] for periphyton and macrophytes or per volume [ $\text{mg O}/(\text{m}^3/\text{time})$ ] for phytoplankton. Oxygen method defines production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period. (See also "Primary productivity")

**Radioisotopes** are isotopic forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus; for example, ordinary chlorine is a mixture of isotopes having atomic weights of 35 and 37, and the natural mixture has an atomic weight of about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

**Recoverable from bed (bottom) material** is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. (See also "Bed material")

**Recurrence interval**, also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or non-exceedance of a specified low flow). The terms "return period" and "recurrence interval" do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most of the times being less than the average and a few being substantially greater than the average. For example, the 100-year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance, and about one-eighth occur more than 200 years after the previous exceedance. Similarly, the 7-day 10-year low flow ( $7Q_{10}$ ) is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the non-exceedances of the  $7Q_{10}$  occur less than 10 years after the previous non-exceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous non-exceedance. The recurrence interval for annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance of being exceeded by the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the  $7Q_{10}$ .

**Replicate samples** are a group of samples collected in a manner such that the samples are thought to be essentially identical in composition.

**Return period** (See "Recurrence interval")

**River mileage** is the curvilinear distance, in miles, measured upstream from the mouth along the meandering path of a stream channel in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council, and typically used to denote location along a river.

**Runoff** is the quantity of water that is discharged (“runs off”) from a drainage basin in a given time period. Runoff data may be presented as volumes in acre-feet, as mean discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches. (See also “Annual runoff”)

**Sea level**, as used in this report, refers to one of the two commonly used national vertical datums, (NGVD 1929 or NAVD 1988). See separate entries for definitions of these datums. See conversion of units page (inside back cover) for identification of the datum used in this report.

**Sediment** is solid material that originates mostly from disintegrated rocks; when transported by, suspended in, or deposited from water, it is referred to as “fluvial sediment.” Sediment includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental and land-use factors. Some major factors are topography, soil characteristics, land cover, and depth and intensity of precipitation.

**Seven-day 10-year low flow (7Q10)** is the discharge below which the annual 7-day minimum flow falls in 1 year out of 10 on the long-run average. The recurrence interval of the 7Q10 is 10 years; the chance that the annual 7-day minimum flow will be less than the 7Q10 is 10 percent in any given year. (See also “Recurrence interval” and “Annual 7-day minimum”)

**Sodium adsorption ratio (SAR)** is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Sodium hazard in water is an index that can be used to evaluate the suitability of water for irrigating crops.

**Specific electrical conductance (conductivity)** is a measure of the capacity of water (or other media) to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific electrical conductance is a function of the types and quantity of dissolved substances in water and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

**Stable isotope ratio** (per MIL/MIL) is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific waters, to evaluate mixing of different waters, as an aid in determining reaction rates, and other chemical or hydrologic processes.

**Stage** (See “Gage height”)

**Stage-discharge relation** is the relation between the water-surface elevation, termed stage (gage height), and the volume of water flowing in a channel per unit time.

**Streamflow** is the discharge that occurs in a natural channel. Although the term “discharge” can be applied to the flow of a canal, the word “streamflow” uniquely describes the discharge in a surface stream course. The term “streamflow” is more general than “runoff” as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

**Substrate** is the physical surface upon which an organism lives.

**Substrate Embeddedness Class** is a visual estimate of riffle streambed substrate larger than gravel that is surrounded or covered by fine sediment (<2mm, sand or finer). Below are the class categories expressed as percent covered by fine sediment:

0	< no gravel or larger substrate		
1	> 75%		
2	51-75%	4	5-25%
3	26-50%	5	< 5%

**Surface area of a lake** is that area (acres) encompassed by the boundary of the lake as shown on USGS topographic maps, or other available maps or photographs. Because surface area changes with lake stage, surface areas listed in this report represent those determined for the stage at the time the maps or photographs were obtained.

**Surficial bed material** is the upper surface (0.1 to 0.2 ft) of the bed material such as that material which is sampled using U.S. Series Bed-Material Samplers.

**Suspended** (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is operationally defined as the material retained on a 0.45-micrometer filter.

**Suspended, recoverable** is the amount of a given constituent that is in solution after the part of a representative suspended water-sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a

dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the “total” amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. Determinations of “suspended, recoverable” constituents are made either by directly analyzing the suspended material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent. (See also “Suspended”)

**Suspended sediment** is the sediment maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid. (See also “Sediment”)

**Suspended-sediment concentration** is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The analytical technique uses the mass of all of the sediment and the net weight of the water-sediment mixture in a sample to compute the suspended-sediment concentration. (See also “Sediment” and “Suspended sediment”)

**Suspended-sediment discharge** (tons/day) is the rate of sediment transport, as measured by dry mass or volume, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft<sup>3</sup>/s) x 0.0027. (See also “Sediment,” “Suspended sediment,” and “Suspended-sediment concentration”)

**Suspended-sediment load** is a general term that refers to a given characteristic of the material in suspension that passes a point during a specified period of time. The term needs to be qualified, such as “annual suspended-sediment load” or “sand-size suspended-sediment load,” and so on. It is not synonymous with either suspended-sediment discharge or concentration. (See also “Sediment”)

**Suspended, total** is the total amount of a given constituent in the part of a water-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as “suspended, total.” Determinations of “suspended, total” constituents are made either by directly analyzing portions of the suspended material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent. (See also “Suspended”)

**Suspended solids, total residue at 105 °C concentration** is the concentration of inorganic and organic material retained on a filter, expressed as milligrams of dry material per liter of water (mg/L). An aliquot of the sample is used for this analysis.

**Synoptic studies** are short-term investigations of specific water-quality conditions during selected seasonal or hydrologic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

**Taxa richness** is the total number of distinct species or groups and usually decreases with pollution. (See also “Percent Shading”)

**Taxonomy** is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata*, is the following:

Kingdom:	Animal
Phylum:	Arthropoda
Class:	Insecta
Order:	Ephemeroptera
Family:	Ephemeridae
Genus:	<i>Hexagenia</i>
Species:	<i>Hexagenia limbata</i>

#### Temperature preferences:

Cold – preferred water temperature for the species is less than 20 °C or spawning temperature preference less than 16 °C and native distribution is considered to be predominantly north of 45° N. latitude.

Warm – preferred water temperatures for the species is greater than 20 °C or spawning temperature preference greater than 16 °C and native distribution is considered to be predominantly south of 45° N. latitude.

Cool – intermediate between cold and warm water temperature preferences.

**Thermograph** is an instrument that continuously records variations of temperature on a chart. The more general term “temperature recorder” is used in the table descriptions and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

**Time-weighted average** is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water resulting from the mixing of flow proportionally to the duration of the concentration.

**Tons per acre-foot (T/acre-ft)** is the dry mass (tons) of a constituent per unit volume (acre-foot) of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

**Tons per day (T/DAY, tons/d)** is a common chemical or sediment discharge unit. It is the quantity of a substance in solution, in suspension, or as bedload that passes a stream section during a 24-hour period. It is equivalent to 2,000 pounds per day, or 0.9072 metric tons per day.

**Total** is the amount of a given constituent in a representative whole-water (unfiltered) sample, regardless of the constituent’s physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as “total.” (Note that the word “total” does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determined at least 95 percent of the constituent in the sample.)

**Total coliform bacteria** are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warm-blooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 1.0 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also “Bacteria”)

**Total discharge** is the quantity of a given constituent, measured as dry mass or volume, that passes a stream cross section per unit of time. When referring to constituents other than water, this term needs to be qualified, such as “total sediment discharge,” “total chloride discharge,” and so on.

**Total in bottom material** is the amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as “total in bottom material.”

**Total length** (fish) is the straight-line distance from the anterior point of a fish specimen’s snout, with the mouth closed, to the posterior end of the caudal (tail) fin, with the lobes of the caudal fin squeezed together.

**Total load** refers to all of a constituent in transport. When referring to sediment, it includes suspended load plus bed load.

**Total organism count** is the number of organisms collected and enumerated in any particular sample. (See also “Organism count/volume.”)

**Total recoverable** is the amount of a given constituent in a whole-water sample after a sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the “total” amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data for whole-water samples, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures may produce different analytical results.

**Total sediment discharge** is the mass of suspended-sediment plus bed-load transport, measured as dry weight, that passes a cross section in a given time. It is a rate and is reported

as tons per day. (See also “Sediment,” “Suspended sediment,” “Suspended-Sediment Concentration,” “Bedload,” and “Bedload discharge”)

**Total sediment load** or total load is the sediment in transport as bedload and suspended-sediment load. The term may be qualified, such as “annual suspended-sediment load” or “sand-size suspended-sediment load,” and so on. It differs from total sediment discharge in that load refers to the material whereas discharge refers to the quantity of material, expressed in units of mass per unit time. (See also “Sediment,” “Suspended-Sediment Load,” and “Total load”)

**Trophic group:**

**Filter feeder** – diet composed of suspended plant and/or animal material.

**Herbivore** – diet composed predominantly of plant material.

**Invertivore** – diet composed predominantly of invertebrates.

**Omnivore** – diet composed of at least 25-percent plant and 25-percent animal material.

**Piscivore** – diet composed predominantly of fish.

**Turbidity** is the reduction in the transparency of a solution due to the presence of suspended and some dissolved substances. The measurement technique records the collective optical properties of the solution that cause light to be scattered and attenuated rather than transmitted in straight lines; the higher the intensity of scattered or attenuated light, the higher the value of the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU). Depending on the method used, the turbidity units as NTU can be defined as the intensity of light of a specified wavelength scattered or attenuated by suspended particles or absorbed at a method specified angle, usually 90 degrees, from the path of the incident light. Currently approved methods for the measurement of turbidity in the USGS include those that conform to EPA Method 180.1, ASTM D1889-00, and ISO 7027. Measurements of turbidity by these different methods and different instruments are unlikely to yield equivalent values. Consequently, the method of measurement and type of instrument used to derive turbidity records should be included in the “REMARKS” column of the Annual Data Report.

**Ultraviolet (UV) absorbance (absorption)** at 254 or 280 nanometers is a measure of the aggregate concentration of the mixture of UV absorbing organic materials dissolved in the analyzed water, such as lignin, tannin, humic substances, and various aromatic compounds. UV absorbance (absorption) at 254 or 280 nanometers is measured in UV absorption units per centimeter of pathlength of UV light through a sample.

**Vertical datum** (See “Datum”)

**Volatile organic compounds (VOCs)** are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and subsequently analyzed by gas chromatography. Many VOCs are human-made chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They are often components of fuels, solvents, hydraulic fluids, paint thinners, and dry cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human health concern because many are toxic and are known or suspected human carcinogens (U.S. Environmental Protection Agency, 1996).

**Water table** is the level in the saturated zone at which the pressure is equal to the atmospheric pressure.

**Water-table aquifer** is an unconfined aquifer within which is found the water table.

**Water year** in USGS reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 2001, is called the “2001 water year.”

**WDR** is used as an abbreviation for “Water-Data Report” in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports. (WRD was used as an abbreviation for “Water-Resources Data” in reports published prior to 1976.)

**Weighted average** is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

**Wet mass** is the mass of living matter plus contained water. (See also “Biomass” and “Dry mass”)

**Wet weight** refers to the weight of animal tissue or other substance including its contained water. (See also “Dry weight”)

**WSP** is used as an acronym for “Water-Supply Paper” in reference to previously published reports.

**Zooplankton** is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers. (See also “Plankton”)

## TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY

The U.S.G.S. publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, section A of book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S.G.S., Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be made in the form of a check or money order payable to the "U.S. Geological Survey." Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and mention the "U.S. Geological Survey Techniques of Water-Resources Investigations."

### Book 1. Collection of Water Data by Direct Measurement

#### Section D. Water Quality

- 1-D1. *Water temperature—influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J.F. Ficke, and G. F. Smoot: USGS–TWRI book 1, chap. D1. 1975. 65 p.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W.W. Wood: USGS–TWRI book 1, chap. D2. 1976. 24 p.

### Book 2. Collection of Environmental Data

#### Section D. Surface Geophysical Methods

- 2-D1. *Application of surface geophysics to ground-water investigations*, by A.A. R. Zohdy, G.P. Eaton, and D.R. Mabey: USGS–TWRI book 2, chap. D1. 1974. 116 p.
- 2-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F.P. Haeni: USGS–TWRI book 2, chap. D2. 1988. 86 p.

#### Section E. Subsurface Geophysical Methods

- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W.S. Keys and L.M. MacCary: USGS–TWRI book 2, chap. E1. 1971. 126 p.
- 2-E2. *Borehole geophysics applied to ground-water investigations*, by W.S. Keys: USGS–TWRI book 2, chap. E2. 1990. 150 p.

#### Section F. Drilling and Sampling Methods

- 2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and W.E. Teasdale: USGS–TWRI book 2, chap. F1. 1989. 97 p.

### Book 3. Applications of Hydraulics

#### Section A. Surface-Water Techniques

- 3-A1. *General field and office procedures for indirect discharge measurements*, by M.A. Benson and Tate Dalrymple: USGS–TWRI book 3, chap. A1. 1967. 30 p.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M.A. Benson: USGS–TWRI book 3, chap. A2. 1967. 12 p.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G.L. Bodhaine: USGS–TWRI book 3, chap. A3. 1968. 60 p.

- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H.F. Matthai: USGS-TWRI book 3, chap. A4. 1967. 44 p.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS-TWRI book 3, chap. A5. 1967. 29 p.
- 3-A6. *General procedure for gaging streams*, by R.W. Carter and Jacob Davidian: USGS-TWRI book 3, chap. A6. 1968. 13 p.
- 3-A7. *Stage measurement at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS-TWRI book 3, chap. A7. 1968. 28 p.
- 3-A8. *Discharge measurements at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS-TWRI book 3, chap. A8. 1969. 65 p.
- 3-A9. *Measurement of time of travel in streams by dye tracing*, by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS-TWRI book 3, chap. A9. 1989. 27 p.
- 3-A10. *Discharge ratings at gaging stations*, by E.J. Kennedy: USGS-TWRI book 3, chap. A10. 1984. 59 p.
- 3-A11. *Measurement of discharge by the moving-boat method*, by G.F. Smoot and C.E. Novak: USGS-TWRI book 3, chap. A11. 1969. 22 p.
- 3-A12. *Fluorometric procedures for dye tracing*, Revised, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS-TWRI book 3, chap. A12. 1986. 34 p.
- 3-A13. *Computation of continuous records of streamflow*, by E.J. Kennedy: USGS-TWRI book 3, chap. A13. 1983. 53 p.
- 3-A14. *Use of flumes in measuring discharge*, by F.A. Kilpatrick and V.R. Schneider: USGS-TWRI book 3, chap. A14. 1983. 46 p.
- 3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS-TWRI book 3, chap. A15. 1984. 48 p.
- 3-A16. *Measurement of discharge using tracers*, by F.A. Kilpatrick and E.D. Cobb: USGS-TWRI book 3, chap. A16. 1985. 52 p.
- 3-A17. *Acoustic velocity meter systems*, by Antonius Laenen: USGS-TWRI book 3, chap. A17. 1985. 38 p.
- 3-A18. *Determination of stream reaeration coefficients by use of tracers*, by F.A. Kilpatrick, R.E. Rathbun, Nobuhiro Yotsukura, G.W. Parker, and L.L. DeLong: USGS-TWRI book 3, chap. A18. 1989. 52 p.
- 3-A19. *Levels at streamflow gaging stations*, by E.J. Kennedy: USGS-TWRI book 3, chap. A19. 1990. 31 p.
- 3-A20. *Simulation of soluble waste transport and buildup in surface waters using tracers*, by F.A. Kilpatrick: USGS-TWRI book 3, chap. A20. 1993. 38 p.
- 3-A21. *Stream-gaging cableways*, by C. Russell Wagner: USGS-TWRI book 3, chap. A21. 1995. 56 p.

### **Section B. Ground-Water Techniques**

- 3-B1. *Aquifer-test design, observation, and data analysis*, by R.W. Stallman: USGS-TWRI book 3, chap. B1. 1971. 26 p.
- 3-B2. *Introduction to ground-water hydraulics, a programmed text for self-instruction*, by G.D. Bennett: USGS-TWRI book 3, chap. B2. 1976. 172 p.
- 3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J.E. Reed: USGS-TWRI book 3, chap. B3. 1980. 106 p.
- 3-B4. *Regression modeling of ground-water flow*, by R.L. Cooley and R.L. Naff: USGS-TWRI book 3, chap. B4. 1990. 232 p.

- 3-B4. *Supplement 1. Regression modeling of ground-water flow --Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems*, by R.L. Cooley: USGS–TWRI book 3, chap. B4. 1993. 8 p.
- 3-B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems—An introduction*, by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS–TWRI book 3, chap. B5. 1987. 15 p.
- 3-B6. *The principle of superposition and its application in ground-water hydraulics*, by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS–TWRI book 3, chap. B6. 1987. 28 p.
- 3-B7. *Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow*, by E.J. Wexler: USGS–TWRI book 3, chap. B7. 1992. 190 p.
- 3-B8. *System and boundary conceptualization in ground-water flow simulation*, by T.E. Reilly: USGS–TWRI book 3, chap. B8. 2001. 29 p.

### **Section C. Sedimentation and Erosion Techniques**

- 3-C1. *Fluvial sediment concepts*, by H.P. Guy: USGS–TWRI book 3, chap. C1. 1970. 55 p.
- 3-C2. *Field methods for measurement of fluvial sediment*, by T.K. Edwards and G.D. Glysson: USGS–TWRI book 3, chap. C2. 1999. 89 p.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS–TWRI book 3, chap. C3. 1972. 66 p.

## **Book 4. Hydrologic Analysis and Interpretation**

### **Section A. Statistical Analysis**

- 4-A1. *Some statistical tools in hydrology*, by H.C. Riggs: USGS–TWRI book 4, chap. A1. 1968. 39 p.
- 4-A2. *Frequency curves*, by H.C. Riggs: USGS–TWRI book 4, chap. A2. 1968. 15 p.

### **Section B. Surface Water**

- 4-B1. *Low-flow investigations*, by H.C. Riggs: USGS–TWRI book 4, chap. B1. 1972. 18 p.
- 4-B2. *Storage analyses for water supply*, by H.C. Riggs and C.H. Hardison: USGS–TWRI book 4, chap. B2. 1973. 20 p.
- 4-B3. *Regional analyses of streamflow characteristics*, by H.C. Riggs: USGS–TWRI book 4, chap. B3. 1973. 15 p.

### **Section D. Interrelated Phases of the Hydrologic Cycle**

- 4-D1. *Computation of rate and volume of stream depletion by wells*, by C.T. Jenkins: USGS–TWRI book 4, chap. D1. 1970. 17 p.

## **Book 5. Laboratory Analysis**

### **Section A. Water Analysis**

- 5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M.J. Fishman and L.C. Friedman, editors: USGS–TWRI book 5, chap. A1. 1989. 545 p.
- 5-A2. *Determination of minor elements in water by emission spectroscopy*, by P.R. Barnett and E.C. Mallory, Jr.: USGS–TWRI book 5, chap. A2. 1971. 31 p.
- 5-A3. *Methods for the determination of organic substances in water and fluvial sediments*, edited by R.L. Wershaw, M.J. Fishman, R.R. Grabbe, and L.E. Lowe: USGS–TWRI book 5, chap. A3. 1987. 80 p.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by L.J. Britton and P.E. Greeson, editors: USGS–TWRI book 5, chap. A4. 1989. 363 p.
- 5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS–TWRI book 5, chap. A5. 1977. 95 p.

- 5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments*, by L.C. Friedman and D.E. Erdmann: USGS–TWRI book 5, chap. A6. 1982. 181 p.

### **Section C. Sediment Analysis**

- 5-C1. *Laboratory theory and methods for sediment analysis*, by H.P. Guy: USGS–TWRI book 5, chap. C1. 1969. 58 p.

## **Book 6. Modeling Techniques**

### **Section A. Ground Water**

- 6-A1. *A modular three-dimensional finite-difference ground-water flow model*, by M.G. McDonald and A.W. Harbaugh: USGS–TWRI book 6, chap. A1. 1988. 586 p.
- 6-A2. *Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model*, by S.A. Leake and D.E. Prudic: USGS–TWRI book 6, chap. A2. 1991. 68 p.
- 6-A3. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual*, by L.J. Torak: USGS–TWRI book 6, chap. A3. 1993. 136 p.
- 6-A4. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions*, by R.L. Cooley: USGS–TWRI book 6, chap. A4. 1992. 108 p.
- 6-A5. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details*, by L.J. Torak: USGS–TWRI book 6, chap. A5, 1993. 243 p.
- 6-A6. *A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction*, by Eric D. Swain and Eliezer J. Wexler: USGS–TWRI book 6, chap. A5, 1996. 125 p.

## **Book 7. Automated Data Processing and Computations**

### **Section C. Computer Programs**

- 7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS–TWRI book 7, chap. C1. 1976. 116 p.
- 7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L.F. Konikow and J.D. Bredehoeft: USGS–TWRI book 7, chap. C2. 1978. 90 p.
- 7-C3. *A model for simulation of flow in singular and interconnected channels*, by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS–TWRI book 7, chap. C3. 1981. 110 p.

## **Book 8. Instrumentation**

### **Section A. Instruments for Measurement of Water Level**

- 8-A1. *Methods of measuring water levels in deep wells*, by M.S. Garber and F.C. Koopman: USGS–TWRI book 8, chap. A1. 1968. 23 p.
- 8-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J.D. Craig: USGS–TWRI book 8, chap. A2. 1983. 57 p.

### **Section B. Instruments for Measurement of Discharge**

- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G.F. Smoot and C.E. Novak: USGS–TWRI book 8, chap. B2. 1968. 15 p.

## **Book 9. Handbooks for Water-Resources Investigations**

### **Section A. National Field Manual for the Collection of Water-Quality Data**

- 9-A1. *National Field Manual for the Collection of Water-Quality Data: Preparations for Water Sampling*, by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A1. 1998. 47 p.

- 9-A2. *National Field Manual for the Collection of Water-Quality Data: Selection of Equipment for Water Sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A2. 1998. 94 p.
- 9-A3. *National Field Manual for the Collection of Water-Quality Data: Cleaning of Equipment for Water Sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A3. 1998. 75 p.
- 9-A4. *National Field Manual for the Collection of Water-Quality Data: Collection of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A4. 1999. 156 p.
- 9-A5. *National Field Manual for the Collection of Water-Quality Data: Processing of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A5. 1999, 149 p.
- 9-A6. *National Field Manual for the Collection of Water-Quality Data: Field Measurements*, edited by F.D. Wilde and D.B. Radtke: USGS–TWRI book 9, chap. A6. 1998. Variously paginated.
- 9-A7. *National Field Manual for the Collection of Water-Quality Data: Biological Indicators*, edited by D.N. Myers and F.D. Wilde: USGS–TWRI book 9, chap. A7. 1997 and 1999. Variously paginated.
- 9-A8. *National Field Manual for the Collection of Water-Quality Data: Bottom-material samples*, by D.B. Radtke: USGS–TWRI book 9, chap. A8. 1998. 48 p.
- 9-A9. *National Field Manual for the Collection of Water-Quality Data: Safety in Field Activities*, by S.L. Lane and R.G. Fay: USGS–TWRI book 9, chap. A9. 1998. 60 p.



Gaging station at Goose Creek at Fairview, North Carolina.

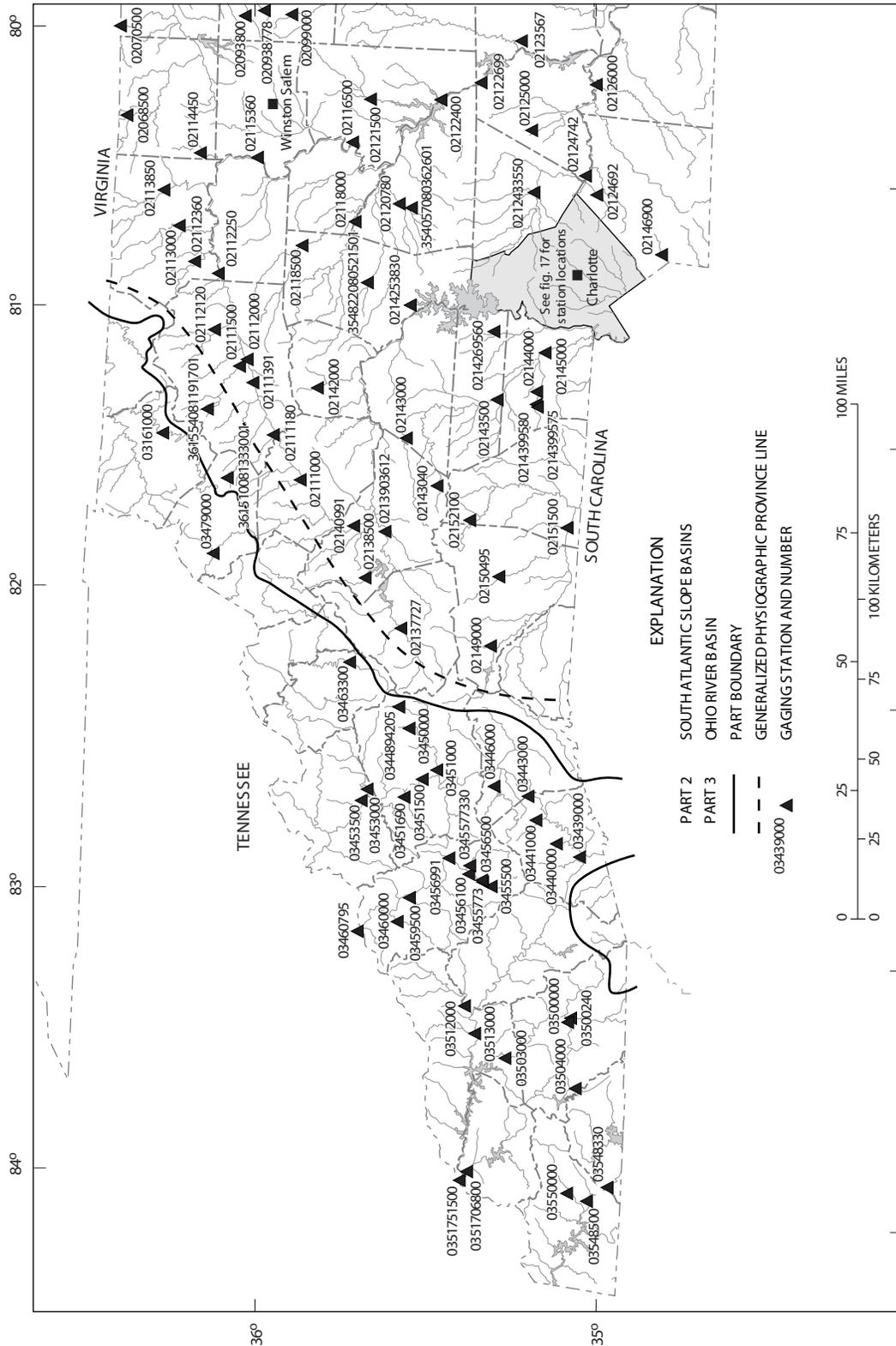


Figure 10.--Locations of gaging stations in western North Carolina.



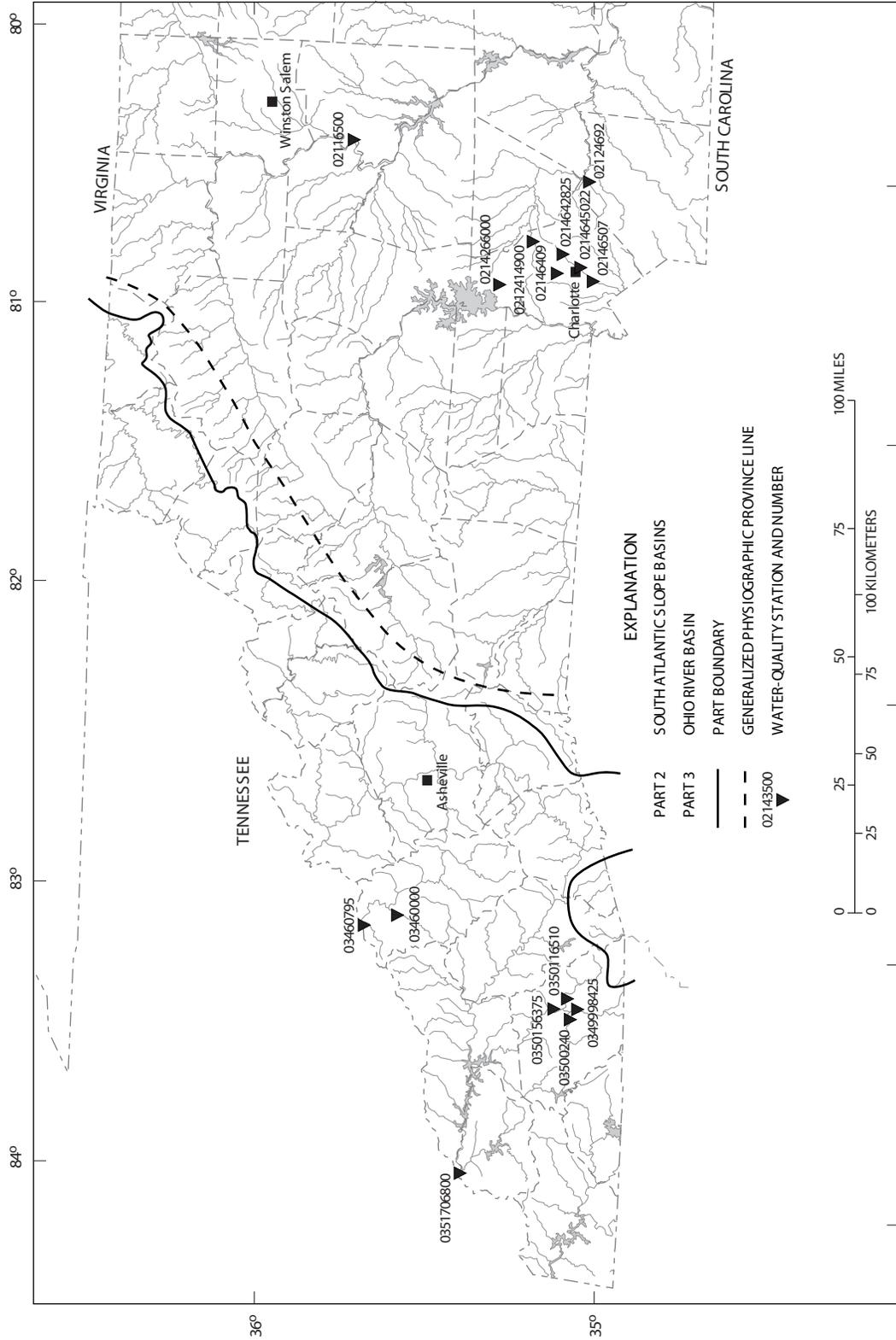
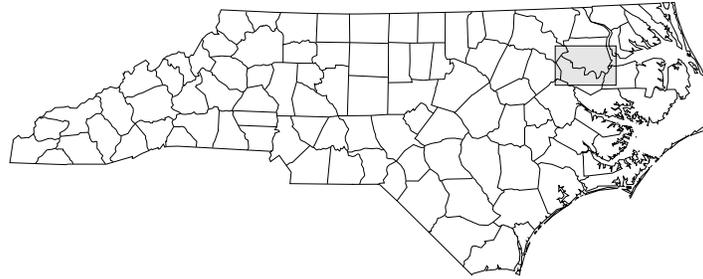


Figure 12.--Locations of water-quality stations in western North Carolina.





LOCATION OF SITES IN BERTIE AND MARTIN COUNTIES, NORTH CAROLINA

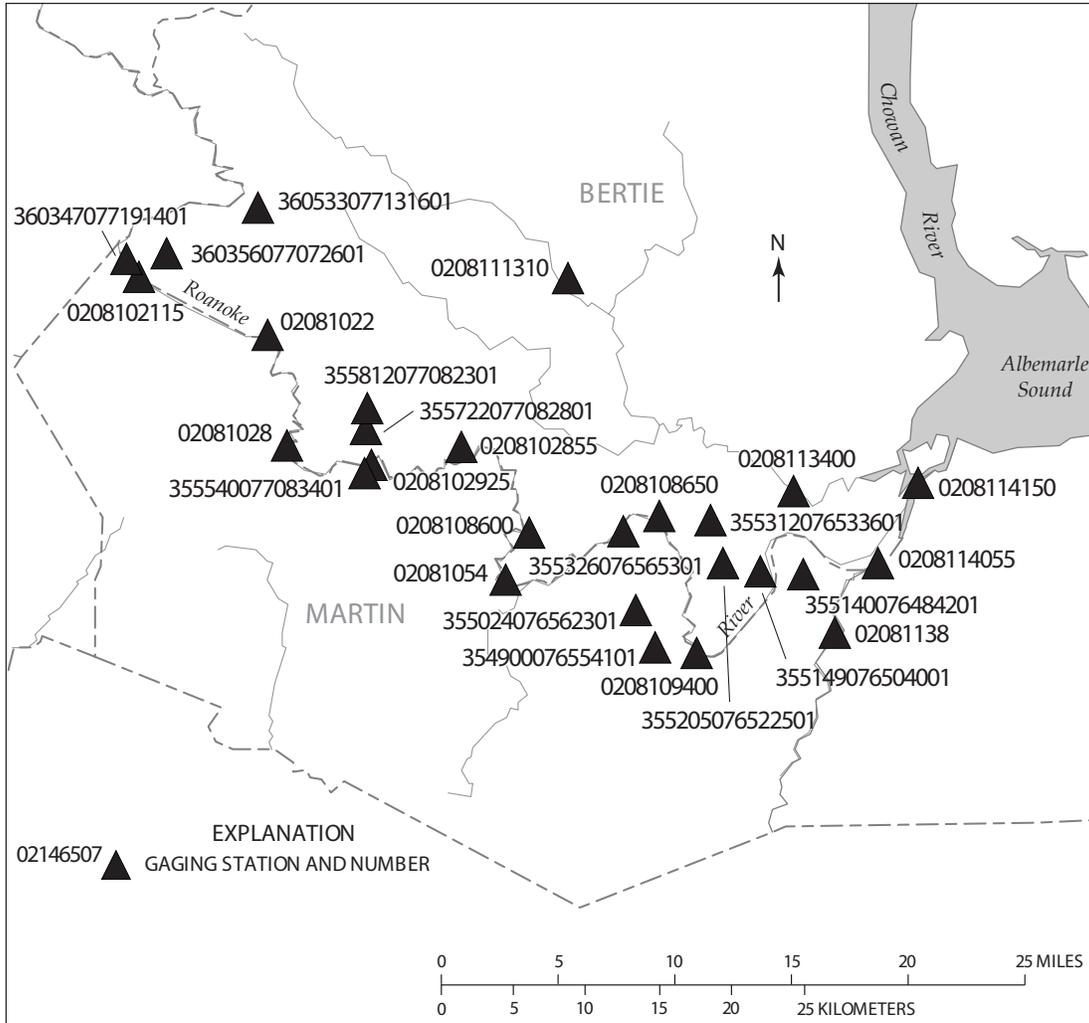
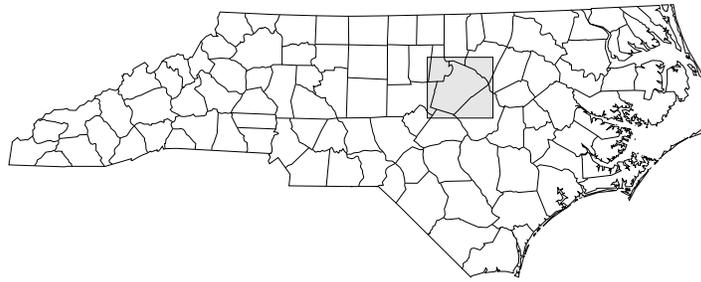


Figure 14.--Locations of gaging stations in Bertie and Martin Counties, North Carolina.



LOCATION OF SITES IN AND AROUND WAKE COUNTY, NORTH CAROLINA

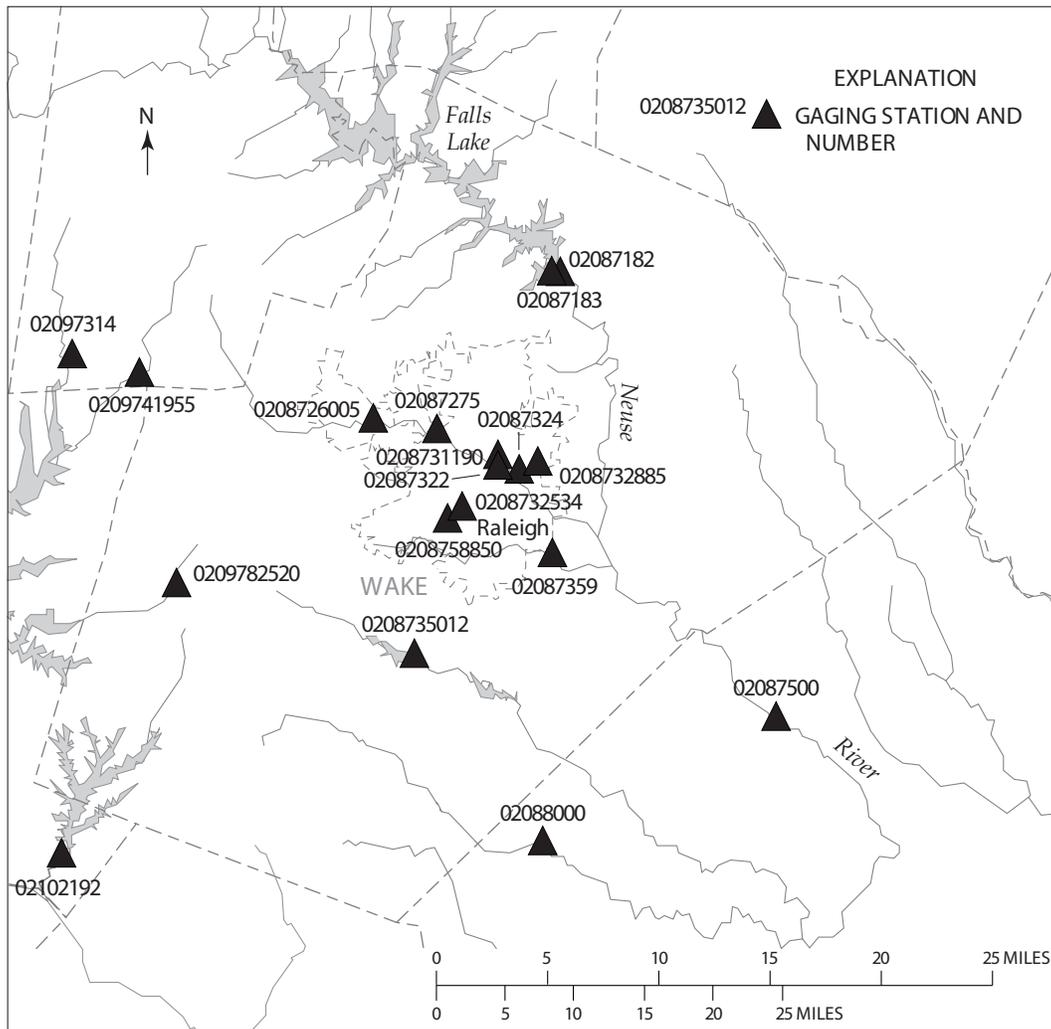
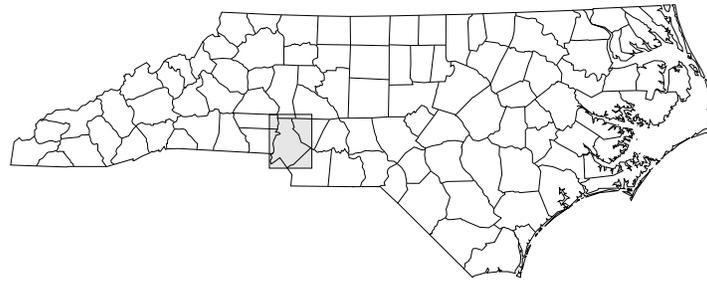


Figure 15.--Locations of gaging stations in and around Wake County, North Carolina.



LOCATION OF SITES IN AND AROUND MECKLENBURG COUNTY, NORTH CAROLINA

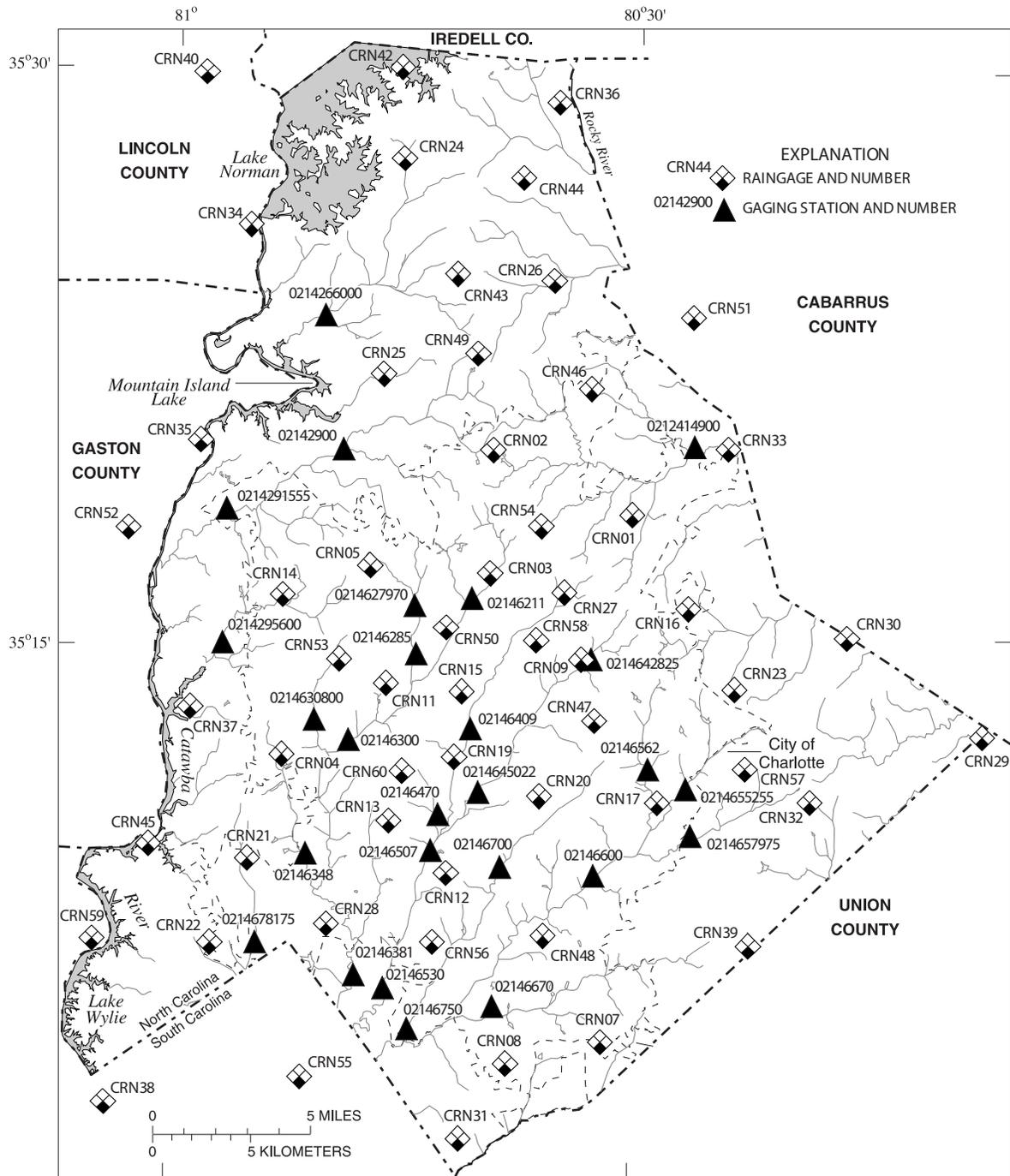


Figure 16.--Locations of gaging stations in and around Mecklenburg County, North Carolina.



LOCATION OF SITES IN GREENE COUNTY, NORTH CAROLINA

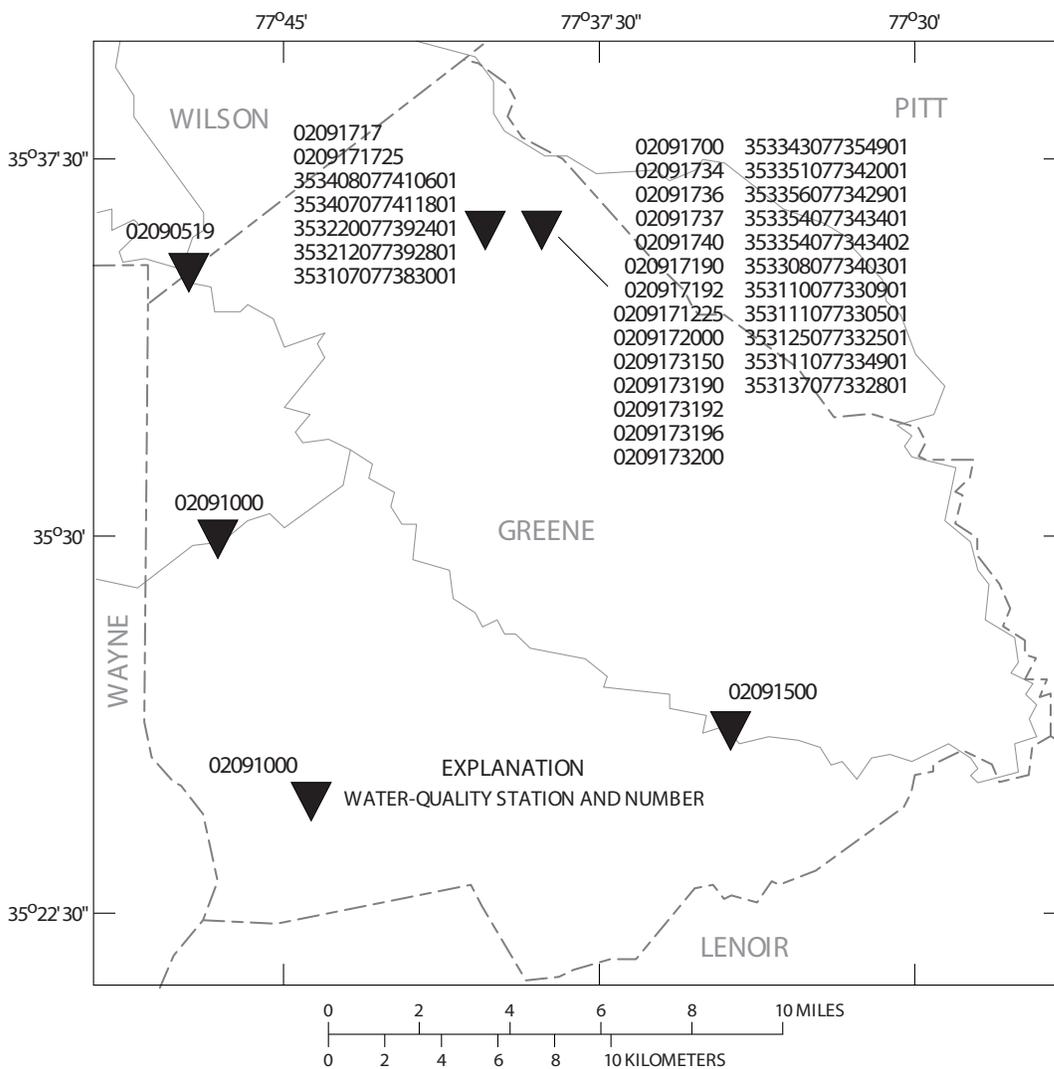


Figure 17.--Locations of water-quality stations in Greene County, North Carolina.

## CAPE FEAR RIVER BASIN

02093800 REEDY FORK NEAR OAK RIDGE, NC

LOCATION.--Lat 36°10'22", long 79°57'12", Guilford County, Hydrologic Unit 03030002, on left bank at downstream side of bridge on Secondary Road 2128, 0.8 mi downstream of Beaver Creek, and 2 mi east of Oak Ridge.

DRAINAGE AREA.--20.6 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1955 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 771.30 ft above sea level. Prior to Dec. 13, 1955, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated discharges, which are poor. Some diurnal fluctuation at medium and low flows caused by upstream mill. Maximum discharge for period of record, from rating curve extended above 1,500 ft<sup>3</sup>/s on basis of contracted-opening measurement; gage height: 10.94 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	11	11	e9.6	17	23	216	15	16	6.7	13	7.7
2	18	11	11	e7.4	17	22	107	14	18	6.6	13	7.9
3	17	11	11	e5.6	16	22	53	14	14	6.6	10	7.0
4	16	12	11	e4.7	15	48	44	13	12	11	9.2	8.4
5	16	11	11	e4.5	16	46	37	13	12	32	8.5	7.7
6	15	11	12	e5.0	15	35	34	15	11	11	7.9	6.0
7	14	12	11	e4.8	15	27	30	14	24	7.7	7.4	5.7
8	14	12	11	e13	15	25	27	14	14	12	7.0	5.6
9	13	16	11	e15	15	23	25	13	12	13	6.6	5.3
10	14	19	10	e12	17	22	24	13	11	11	9.3	5.9
11	13	13	10	e10	15	21	22	12	11	8.1	33	5.8
12	13	12	10	11	15	21	21	13	10	7.4	23	5.1
13	13	11	9.9	11	17	26	22	13	10	7.9	14	4.8
14	13	15	12	11	19	22	21	12	12	8.3	12	4.7
15	13	13	11	11	18	33	20	12	11	7.2	10	4.6
16	13	12	16	11	18	39	19	19	10	5.9	9.0	4.4
17	13	13	32	11	85	29	18	20	9.4	5.7	8.7	4.3
18	13	12	e17	18	44	25	18	17	8.7	5.7	11	4.2
19	12	12	e16	58	33	22	18	14	8.3	6.4	9.8	4.2
20	12	13	e15	108	29	28	18	13	8.4	5.7	8.7	6.1
21	13	12	e13	52	26	114	17	15	8.2	5.2	7.8	6.3
22	13	11	e13	34	25	88	17	16	8.0	4.8	7.5	5.0
23	12	11	e11	27	25	56	16	27	9.8	4.5	7.0	4.7
24	12	11	e11	23	24	43	16	15	8.6	4.6	14	6.9
25	12	15	e11	21	35	35	29	16	8.6	5.0	8.9	11
26	12	21	e10	19	35	30	21	39	9.5	28	7.3	6.2
27	12	14	e11	18	27	26	17	24	10	51	7.4	5.5
28	12	12	e11	17	25	23	16	19	8.1	24	8.4	5.1
29	12	12	e11	17	---	63	15	17	7.2	16	7.3	4.8
30	11	12	e11	23	---	153	15	14	6.9	24	6.7	4.8
31	11	---	e9.8	20	---	70	---	13	---	15	6.8	---
TOTAL	417	383	381.7	612.6	673	1260	973	498	327.7	368.0	320.2	175.7
MEAN	13.5	12.8	12.3	19.8	24.0	40.6	32.4	16.1	10.9	11.9	10.3	5.86
MAX	20	21	32	108	85	153	216	39	24	51	33	11
MIN	11	11	9.8	4.5	15	21	15	12	6.9	4.5	6.6	4.2
CFSM	.65	.62	.60	.96	1.17	1.97	1.57	.78	.53	.58	.50	.28
IN.	.75	.69	.69	1.11	1.22	2.28	1.76	.90	.59	.66	.58	.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2001, BY WATER YEAR (WY)

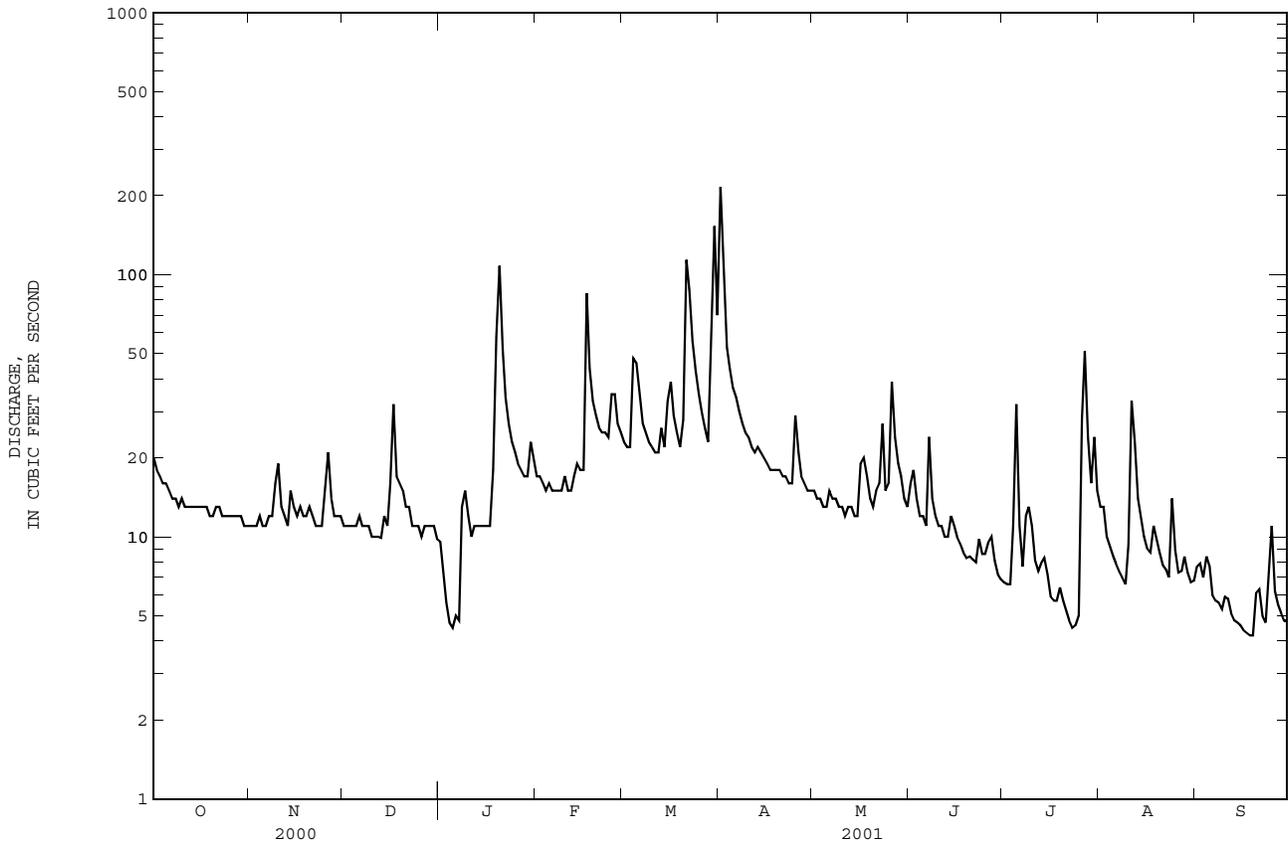
	MEAN	18.4	17.4	23.1	30.6	35.0	37.1	29.9	23.1	18.8	18.9	16.7	19.0
MAX	80.2	40.4	48.7	82.0	78.7	102	75.8	58.9	74.4	152	62.0	100	
(WY)	1991	1986	1963	1978	1979	1975	1987	1991	1982	1984	1978	1996	
MIN	5.90	7.21	8.67	8.52	13.5	12.4	9.79	8.19	5.03	3.64	5.88	3.39	
(WY)	1968	1968	1956	1956	1968	1967	1967	1986	1986	1977	1977	1968	

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1956 - 2001

ANNUAL TOTAL	8039.4	6389.9	
ANNUAL MEAN	22.0	17.5	24.0
HIGHEST ANNUAL MEAN			42.7
LOWEST ANNUAL MEAN			11.7
HIGHEST DAILY MEAN	900	Sep 15	216
LOWEST DAILY MEAN	5.9	Jul 21	4.2
ANNUAL SEVEN-DAY MINIMUM	7.1	Jul 15	4.5
MAXIMUM PEAK FLOW			301
MAXIMUM PEAK STAGE			7.42
INSTANTANEOUS LOW FLOW			3.6
ANNUAL RUNOFF (CFSM)	1.07		.85
ANNUAL RUNOFF (INCHES)	14.52		11.54
10 PERCENT EXCEEDS	35		29
50 PERCENT EXCEEDS	14		13
90 PERCENT EXCEEDS	8.4		6.3
			7.0

e Estimated.  
\* See REMARKS.

02093800 REEDY FORK NEAR OAK RIDGE, NC--Continued



CAPE FEAR RIVER BASIN

02093800 REEDY FORK NEAR OAK RIDGE, NC--Continued

PRECIPITATION RECORDS

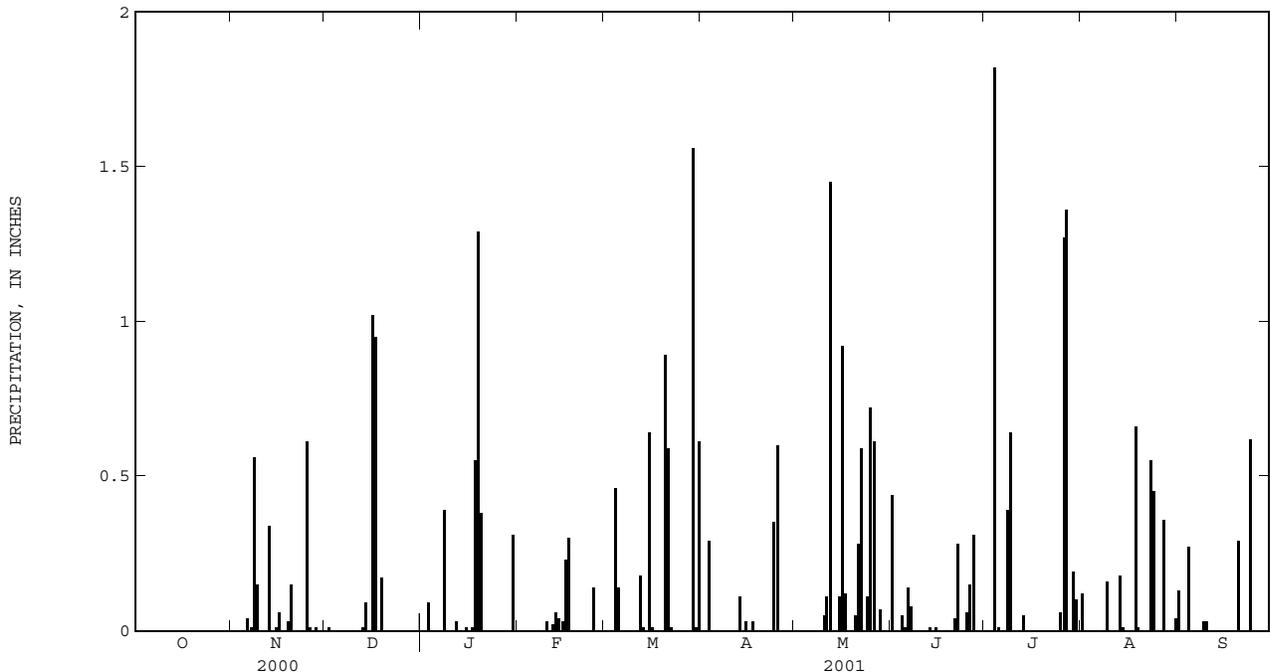
PERIOD OF RECORD.--November 1999 to current year. Records for November 1999 to September 2000 are unpublished and available in the USGS District Office in Raleigh, NC.

INSTRUMENTATION.--Tipping-bucket raingage and data collection platform.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	---	.00	.44	.00	.12	.13
2	.00	.00	.01	.00	.00	.00	---	.00	.00	.00	.00	.00
3	.00	.00	.00	.09	.00	.00	.29	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.46	.00	.00	.05	1.82	.00	.27
5	.00	.00	.00	.00	.00	.14	.00	.00	.01	.01	.00	.00
6	.00	.04	.00	.00	.00	.00	.00	.00	.14	.00	.00	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00
8	.00	.56	.00	.39	.00	.00	.00	.00	.00	.39	.00	.00
9	.00	.15	.00	.00	.00	.00	.00	.00	.00	.64	.16	.03
10	.00	.00	.00	.00	.03	.00	.00	.05	.00	.00	.00	.03
11	.00	.00	.00	.00	.00	.00	.00	.11	.00	.00	---	.00
12	.00	.00	.00	.03	.02	.18	.00	1.45	.00	.00	---	.00
13	.00	.34	.01	.00	.06	.01	.11	.00	.01	.05	.18	.00
14	.00	.00	.09	.00	.04	.00	.00	.00	.00	.00	.01	.00
15	.00	.01	.00	.01	.03	.64	.03	.11	.01	.00	.00	.00
16	.00	.06	1.02	.00	.23	.01	.00	.92	.00	.00	.00	.00
17	.00	.00	.95	.01	.30	.00	.03	.12	.00	.00	.00	.00
18	.00	.00	.00	.55	.00	.00	.00	.00	.00	.00	.66	.00
19	.00	.03	.17	1.29	.00	.00	.00	.00	.00	.00	.01	.00
20	.00	.15	.00	.38	.00	.89	.00	.05	.00	.00	.00	.29
21	.00	.00	.00	.00	.00	.59	.00	.28	.04	.00	.00	.00
22	.00	.00	.00	.00	.00	.01	.00	.59	.28	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.55	.00
24	.00	.00	.00	.00	.00	.00	.35	.11	.00	.00	.45	.62
25	.00	.61	.00	.00	.14	.00	.60	.72	.06	.06	.00	.00
26	.00	.01	.00	.00	.00	.00	.00	.61	.15	1.27	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.31	1.36	.36	.00
28	.00	.01	.00	.00	.00	.00	.00	.07	.00	.00	.00	.00
29	.00	.00	.00	.00	---	1.56	.00	.00	.00	.19	.00	.00
30	.00	.00	.00	.31	---	.01	.00	.00	.00	.10	.00	.00
31	.00	---	.00	.00	---	.61	---	.00	---	.00	.04	---
TOTAL	0.00	1.98	2.25	3.06	0.85	5.11	---	5.19	1.58	5.89	---	1.37
MEAN	.00	.07	.07	.10	.03	.16	---	.17	.05	.19	---	.05
MAX	.00	.61	1.02	1.29	.30	1.56	---	1.45	.44	1.82	---	.62
MIN	.00	.00	.00	.00	.00	.00	---	.00	.00	.00	---	.00





Gaging station at Little River near Star, North Carolina.

CAPE FEAR RIVER BASIN

0209387778 BRUSH CREEK AT FLEMING ROAD AT GREENSBORO, NC

LOCATION.--Lat 36°08'24", long 79°54'50", Guilford County, Hydrologic Unit 03030002, on left bank downstream at Fleming Road and 0.5 mi above Lake Higgins in Greensboro.

DRAINAGE AREA.--7.42 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 771.84 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	2.5	2.9	3.4	4.9	3.6	98	3.7	12	2.9	5.6	2.9
2	6.0	2.6	3.0	3.5	4.5	3.3	44	3.5	7.5	3.3	4.1	1.6
3	4.5	2.6	2.9	3.1	4.2	3.8	33	3.4	4.0	2.7	3.1	1.2
4	3.7	2.7	2.7	3.0	4.5	28	24	3.1	3.5	15	2.7	3.0
5	3.6	2.7	2.8	3.3	4.6	18	19	2.8	3.2	20	2.5	1.3
6	3.7	2.7	2.9	3.4	4.0	6.8	17	2.7	5.4	4.3	2.3	1.0
7	3.7	3.1	3.1	3.3	3.9	4.7	12	2.6	13	3.6	2.1	.95
8	3.6	3.5	3.0	9.5	3.8	4.1	8.6	2.7	3.6	9.7	2.0	.84
9	3.5	8.2	2.9	5.5	3.9	3.5	7.6	2.7	3.2	5.1	2.1	.82
10	3.6	8.7	2.9	3.9	5.4	2.9	7.0	2.6	2.9	11	2.2	1.3
11	3.3	3.5	2.9	3.7	4.4	2.7	6.8	2.5	2.7	6.7	30	.91
12	3.2	2.8	2.9	4.1	6.1	2.9	6.4	4.7	2.6	3.1	12	.77
13	3.0	2.8	2.6	4.0	6.5	5.7	6.9	4.3	2.8	3.6	3.5	.71
14	2.9	10	4.1	3.9	7.4	2.8	6.1	2.8	3.5	3.0	2.0	.72
15	2.9	4.3	3.3	4.0	6.5	19	5.8	2.7	2.7	4.1	1.5	.68
16	2.9	3.2	18	3.9	9.4	6.8	5.6	15	2.5	4.3	1.3	.63
17	2.9	3.5	28	3.6	77	2.7	5.2	9.1	2.3	2.5	1.2	.63
18	2.9	2.9	8.0	14	16	1.8	5.0	4.2	2.1	2.4	3.3	.66
19	2.8	3.3	7.2	47	6.6	1.4	4.8	3.3	1.9	2.4	1.6	.54
20	2.8	4.1	6.1	60	4.8	13	4.7	3.1	1.9	2.1	1.3	3.5
21	2.8	2.7	4.5	22	4.1	55	4.7	3.1	2.3	1.8	1.2	.89
22	2.9	2.5	4.4	10	5.5	30	4.5	5.6	3.1	1.6	1.1	.63
23	2.9	2.6	3.7	7.3	5.4	11	4.3	9.3	4.8	1.6	1.0	.55
24	2.7	2.7	3.9	6.3	4.6	7.0	5.3	3.3	2.4	1.6	13	8.1
25	2.7	15	3.9	5.5	21	6.1	24	4.0	2.9	1.7	1.6	3.6
26	2.9	11	3.7	4.9	9.9	6.2	7.0	42	3.7	36	1.2	1.3
27	3.1	4.4	4.3	4.9	5.6	6.5	5.0	9.5	26	62	5.9	1.1
28	3.3	3.5	4.3	4.6	4.1	7.4	4.4	5.6	4.2	16	6.2	1.1
29	2.9	3.2	3.9	4.5	---	62	4.1	4.7	3.5	10	1.4	1.0
30	2.9	3.2	3.8	12	---	73	3.8	3.9	3.1	16	1.1	.95
31	2.7	---	3.4	6.1	---	47	---	3.6	---	4.7	1.4	---
TOTAL	103.0	130.5	156.0	278.2	248.6	448.7	394.6	176.1	139.3	264.8	121.5	43.88
MEAN	3.32	4.35	5.03	8.97	8.88	14.5	13.2	5.68	4.64	8.54	3.92	1.46
MAX	6.0	15	28	60	77	73	98	42	26	62	30	8.1
MIN	2.7	2.5	2.6	3.0	3.8	1.4	3.8	2.5	1.9	1.6	1.0	.54
CFSM	.45	.59	.68	1.21	1.20	1.95	1.78	.77	.63	1.15	.53	.20
IN.	.52	.66	.78	1.40	1.25	2.25	1.98	.88	.70	1.33	.61	.22

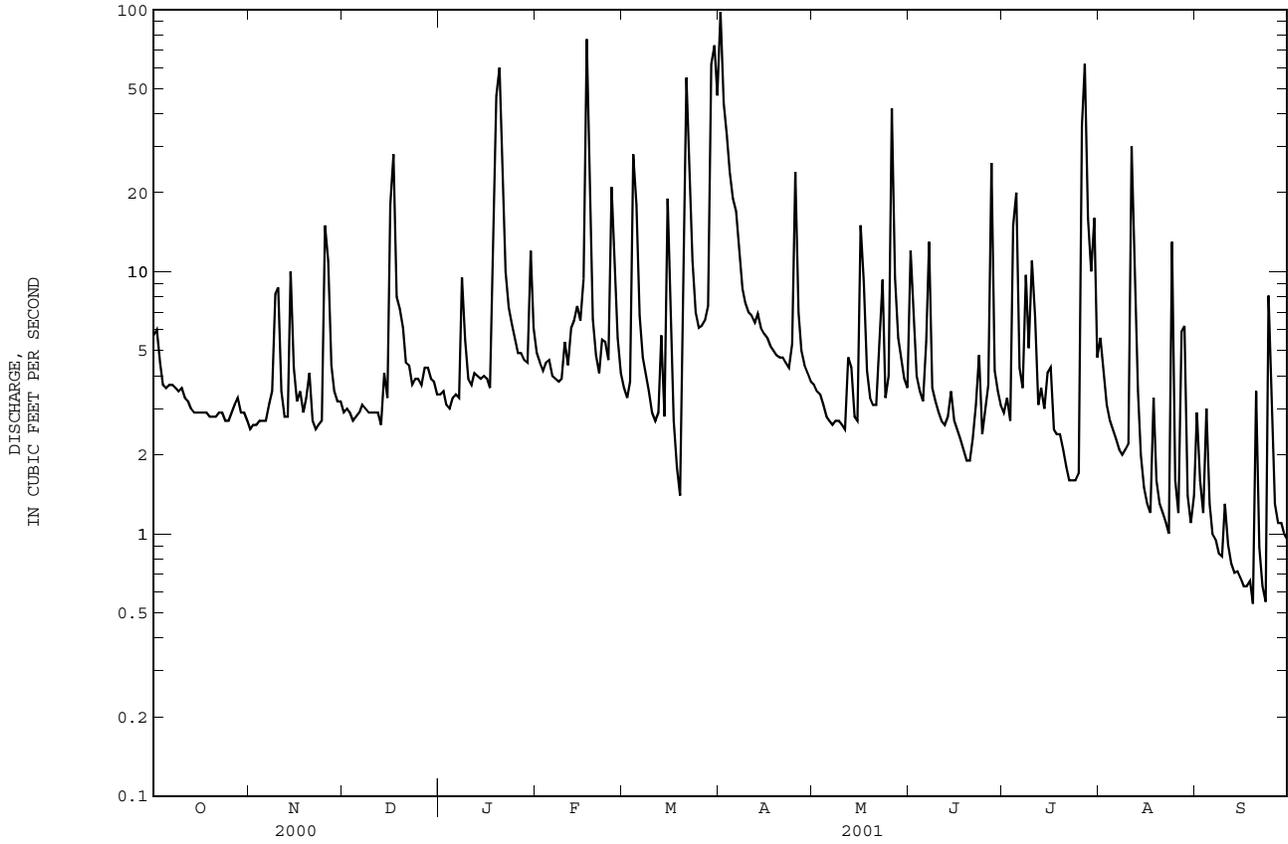
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

	1999	2000	2001	1999	2000	2001	1999	2000	2001	1999	2000	2001
MEAN	5.04	5.09	5.84	8.28	8.10	10.1	10.7	5.85	4.71	6.55	6.84	17.4
MAX	6.75	5.84	6.64	8.97	8.88	14.5	13.2	6.02	4.77	8.54	9.37	30.7
(WY)	2000	2000	2000	2001	2001	2001	2001	2000	2000	2001	1999	2000
MIN	3.32	4.35	5.03	7.58	7.36	5.73	8.34	5.68	4.64	4.11	3.92	1.46
(WY)	2001	2001	2001	2000	2000	2000	2000	2001	2001	2000	2001	2001

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1999 - 2001

ANNUAL TOTAL	2866.90	2505.18	
ANNUAL MEAN	7.83	6.86	7.62
HIGHEST ANNUAL MEAN			8.38
LOWEST ANNUAL MEAN			6.86
HIGHEST DAILY MEAN	149	Sep 15	149
LOWEST DAILY MEAN	.76	Mar 10	.54
ANNUAL SEVEN-DAY MINIMUM	.86	Mar 5	.65
MAXIMUM PEAK FLOW		221	221
MAXIMUM PEAK STAGE		6.22	8.96
INSTANTANEOUS LOW FLOW		.42	.42
ANNUAL RUNOFF (CFSM)	1.06	.93	1.03
ANNUAL RUNOFF (INCHES)	14.39	12.58	13.98
10 PERCENT EXCEEDS	17	13	18
50 PERCENT EXCEEDS	3.7	3.6	4.1
90 PERCENT EXCEEDS	1.9	1.6	1.8

0209387778 BRUSH CREEK AT FLEMING ROAD AT GREENSBORO, NC--Continued



CAPE FEAR RIVER BASIN

0209387778 BRUSH CREEK AT FLEMING ROAD AT GREENSBORO, NC--Continued

PRECIPITATION RECORDS

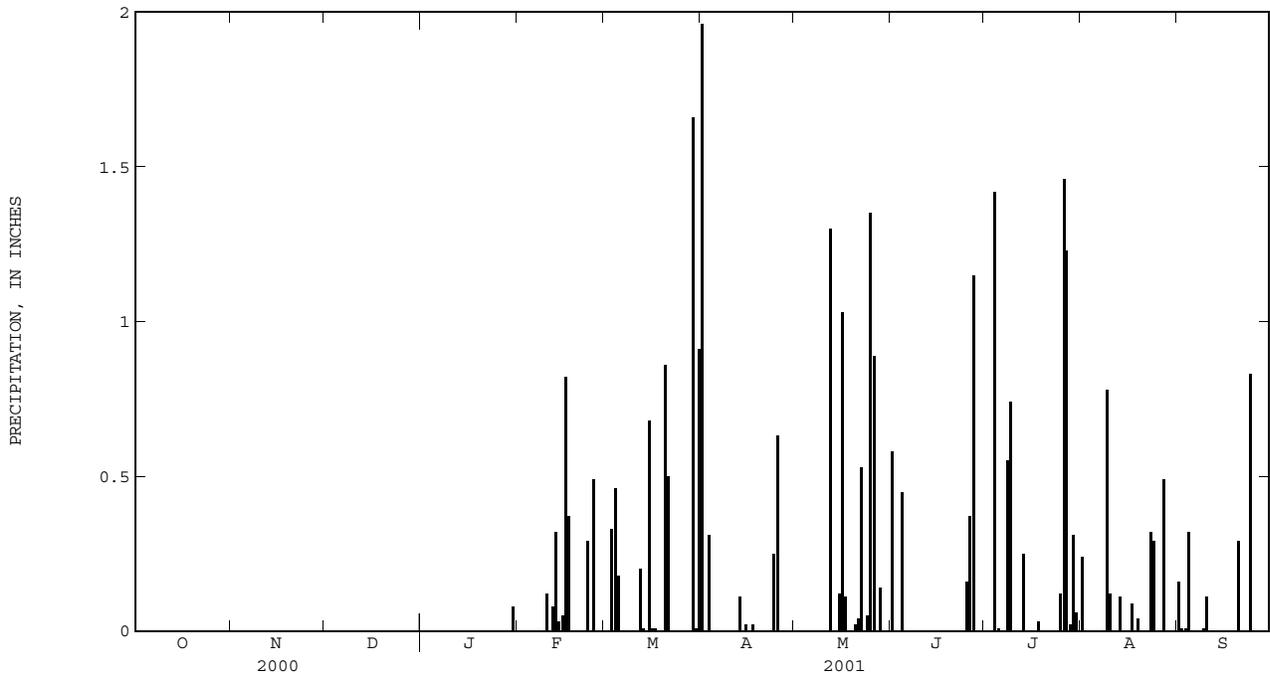
PERIOD OF RECORD.--July 1999 to current year.

INSTRUMENTATION.--Tipping bucket raingage and data collection platform.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	.00	.00	1.96	.00	.58	.00	.24	.16
2	.00	.00	---	---	.00	.00	.00	.00	.00	.00	.00	.01
3	.00	.00	---	---	.00	.33	.31	.00	.00	.00	.00	.01
4	.00	.00	---	---	.00	.46	.00	.00	.45	1.42	.00	.32
5	.00	.00	---	---	.00	.18	.00	.00	.00	.01	.00	.00
6	.00	---	---	.00	.00	.00	.00	.00	---	.00	.00	.00
7	.00	---	---	.00	.00	.00	.00	.00	---	.00	.00	.00
8	.00	---	---	.00	.00	.00	.00	.00	---	.55	.00	.00
9	.00	---	---	.00	.00	.00	.00	.00	---	.74	.78	.01
10	.00	---	---	.00	.12	.00	.00	.00	---	.00	.12	.11
11	.00	---	---	.00	.00	.00	.00	.00	---	.00	---	.00
12	.00	---	---	.00	.08	.20	.00	1.30	---	.00	.00	.00
13	.00	---	---	.00	.32	.01	.11	.00	---	.25	.11	.00
14	.00	---	---	.00	.03	.00	.00	.00	---	.00	.00	.00
15	.00	---	---	.00	.05	.68	.02	.12	---	.00	.00	.00
16	.00	---	---	.00	.82	.01	.00	1.03	---	.00	.00	.00
17	.00	---	---	.00	.37	.01	.02	.11	---	.00	.09	.00
18	.00	---	---	.00	.00	.00	.00	.00	---	.03	.00	.00
19	.00	---	---	.00	.00	.00	.00	.00	---	.00	.04	.00
20	.00	---	---	.00	.00	.86	.00	.02	---	.00	.00	.29
21	.00	---	---	.00	.00	.50	.00	.04	---	.00	.00	.00
22	.00	---	---	.00	.00	.00	.00	.53	---	.00	.00	.00
23	.00	---	---	.00	.29	.00	.00	.00	.00	.00	.32	.00
24	.00	---	---	.00	.00	.00	.25	.05	.00	.00	.29	.83
25	.00	---	---	.00	.49	.00	.63	1.35	.16	.12	.00	.00
26	.00	---	---	.00	.00	.00	.00	.89	.37	1.46	.00	.00
27	.00	---	---	.00	.00	.00	.00	.00	1.15	1.23	.49	.00
28	.00	---	---	.00	.00	.00	.00	.14	.00	.02	.00	.00
29	.00	---	---	.00	---	1.66	.00	.00	.00	.31	.00	.00
30	.00	---	---	.08	---	.01	.00	.00	.00	.06	.00	.00
31	.00	---	---	.00	---	.91	---	.00	---	.00	.00	---
TOTAL	0.00	---	---	---	2.57	5.82	3.30	5.58	---	6.20	---	1.74
MEAN	.00	---	---	---	.09	.19	.11	.18	---	.20	---	.06
MAX	.00	---	---	---	.82	1.66	1.96	1.35	---	1.46	---	.83
MIN	.00	---	---	---	.00	.00	.00	.00	---	.00	---	.00





Control at Rocky River near Concord, North Carolina.

## CAPE FEAR RIVER BASIN

0209399200 HORSE PEN CREEK AT US HIGHWAY 220 NEAR GREENSBORO, NC

LOCATION.--Lat 36°08'12", long 79°51'40", Guilford County, Hydrologic Unit 03030002, on right bank, 300 ft downstream of U.S. Highway 220 bridge on gravel road to city lift station, 2.9 mi above Lake Brandt dam and 6.3 mi northwest of Greensboro.

DRAINAGE AREA.--15.9 mi<sup>2</sup>

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 740 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record and current water year also occurred Sept. 19, 20, 2001.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	5.0	6.2	5.2	7.3	35	182	10	27	6.2	7.1	13
2	8.6	5.9	6.1	5.3	6.6	33	61	9.1	20	9.1	4.4	3.3
3	8.5	5.7	5.9	5.1	6.2	34	51	7.8	9.9	3.9	2.9	2.1
4	8.1	7.6	5.7	5.2	5.8	84	38	7.3	8.4	47	2.2	17
5	7.8	7.3	5.8	5.3	6.0	67	31	7.2	7.1	41	1.9	5.9
6	7.9	6.5	5.9	5.3	5.7	45	27	6.7	12	16	1.8	4.3
7	7.4	6.3	5.9	5.3	5.5	40	25	6.2	18	9.7	1.4	1.1
8	7.3	6.5	5.8	18	5.5	38	22	6.1	8.4	23	1.3	2.0
9	6.6	17	5.6	7.8	5.6	36	20	5.8	7.0	14	1.2	1.9
10	7.0	17	5.7	5.8	8.9	33	19	5.8	5.7	52	1.4	2.5
11	7.0	5.1	5.8	5.7	5.6	3.0	18	5.9	5.3	15	76	1.0
12	6.6	4.6	5.7	5.9	9.6	32	17	11	5.2	9.4	30	.91
13	6.5	4.6	5.4	5.7	13	40	20	12	7.4	9.4	9.4	.73
14	6.0	26	7.5	5.8	14	32	16	6.4	13	6.9	5.4	.82
15	6.1	7.8	6.1	6.4	13	72	15	6.1	5.8	5.4	3.1	.70
16	6.2	5.4	32	6.2	21	52	14	35	4.9	4.7	2.4	.65
17	6.5	6.9	47	5.9	220	41	13	26	4.1	5.2	1.8	.74
18	5.8	4.9	13	30	62	36	15	12	3.7	17	10	.56
19	5.8	6.0	14	93	47	34	12	8.7	3.5	10	9.1	.54
20	5.4	8.8	12	91	40	63	11	10	3.1	5.5	2.4	16
21	6.4	4.9	8.3	35	37	128	11	17	2.9	4.2	1.6	1.9
22	6.0	4.3	7.6	22	40	64	10	12	11	3.6	1.5	1.2
23	5.6	4.4	6.0	16	40	36	9.9	16	17	3.6	1.3	.81
24	5.6	4.4	6.0	11	37	25	14	8.5	4.7	4.1	23	57
25	6.0	32	5.8	8.2	63	14	51	9.0	6.8	5.3	2.5	24
26	6.2	27	5.5	7.2	48	7.3	22	108	6.8	69	1.6	8.6
27	6.0	13	5.9	7.1	41	5.3	15	25	43	127	2.2	3.4
28	6.0	9.5	5.9	6.3	37	4.6	13	21	9.3	23	3.6	2.2
29	5.8	8.2	5.7	6.3	---	138	11	14	6.2	18	1.3	1.8
30	5.3	7.2	5.6	25	---	e167	10	10	4.5	26	1.1	1.8
31	4.9	---	5.3	10	---	75	---	8.1	---	7.5	4.2	---
TOTAL	208.9	279.8	274.7	478.0	851.3	1514.2	793.9	453.7	291.7	601.7	219.1	178.46
MEAN	6.74	9.33	8.86	15.4	30.4	48.8	26.5	14.6	9.72	19.4	7.07	5.95
MAX	14	32	47	93	220	167	182	108	43	127	76	57
MIN	4.9	4.3	5.3	5.1	5.5	3.0	9.9	5.8	2.9	3.6	1.1	.54
CFSM	.42	.59	.56	.97	1.91	3.07	1.66	.92	.61	1.22	.44	.37
IN.	.49	.65	.64	1.12	1.99	3.54	1.86	1.06	.68	1.41	.51	.42

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

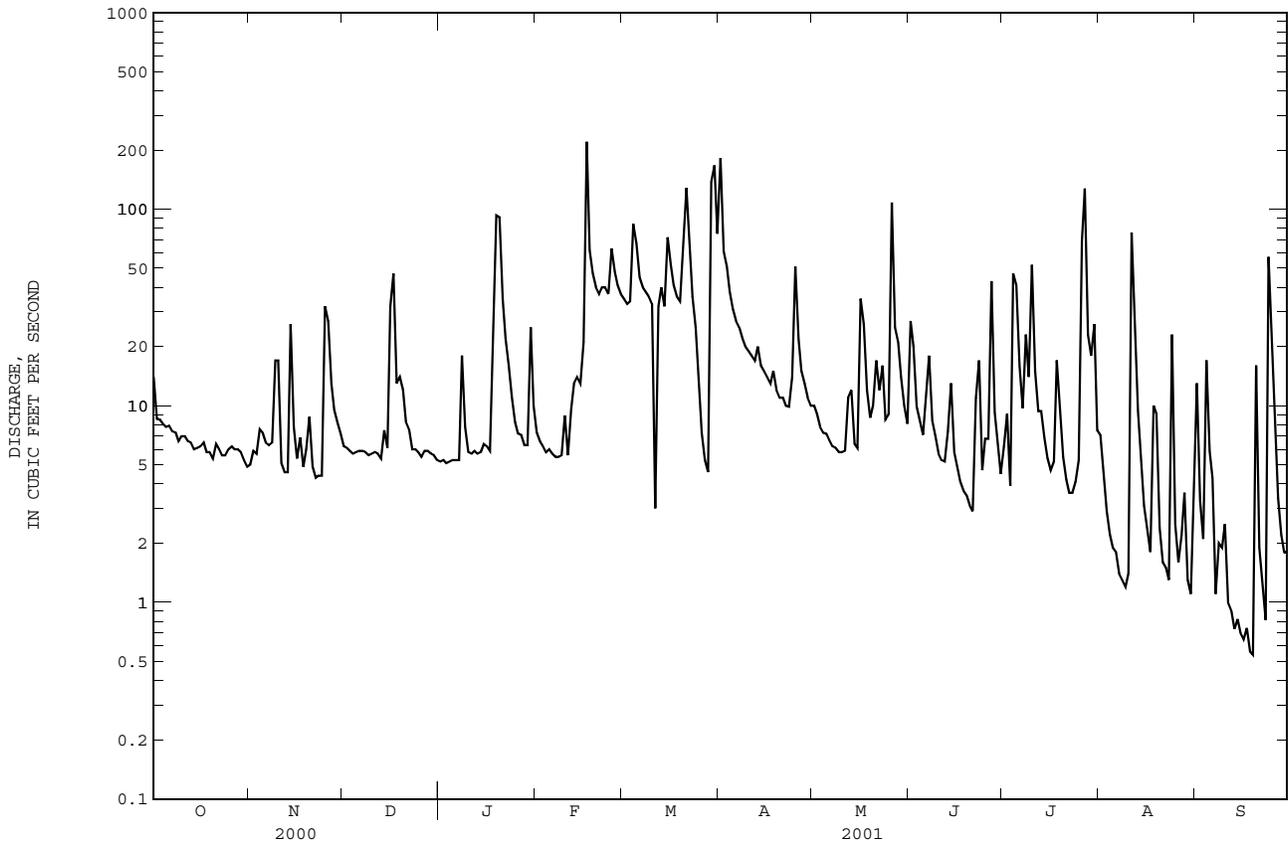
	1999	2000	2001	1999	2000	2001	1999	2000	2001	1999	2000	2001
MEAN	10.1	8.95	11.1	18.7	28.9	34.8	27.6	12.0	9.80	13.5	11.2	37.4
MAX	13.4	9.33	13.4	21.9	30.4	48.8	28.7	14.6	12.6	19.4	14.3	79.5
(WY)	2000	2001	2000	2000	2001	2001	2000	2001	2000	2001	2000	2000
MIN	6.74	8.58	8.86	15.4	27.4	20.7	26.5	9.30	7.08	7.35	7.07	5.95
(WY)	2001	2000	2001	2001	2000	2000	2001	2000	1999	2000	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1999 - 2001
ANNUAL TOTAL	7462.1	6145.46					
ANNUAL MEAN	20.4	16.8					
HIGHEST ANNUAL MEAN							19.1
LOWEST ANNUAL MEAN							21.3
HIGHEST DAILY MEAN	557	Sep 15	220	Feb 17	557	Sep 15	2000
LOWEST DAILY MEAN	2.2	Aug 26	.54	Sep 19	.54	Sep 19	2001
ANNUAL SEVEN-DAY MINIMUM	3.0	Aug 20	.68	Sep 13	.68	Sep 13	2001
MAXIMUM PEAK STAGE			7.60	Mar 30	10.64	Sep 15	2000
INSTANTANEOUS LOW FLOW			.51*	Sep 18	.51	Sep 18	2001
ANNUAL RUNOFF (CFSM)	1.28		1.06		1.20		
ANNUAL RUNOFF (INCHES)	17.46		14.38		16.29		
10 PERCENT EXCEEDS	41		40		40		
50 PERCENT EXCEEDS	8.5		7.3		8.2		
90 PERCENT EXCEEDS	4.3		2.5		3.4		

e Estimated.

\* See REMARKS.

0209399200 HORSE PEN CREEK AT US HIGHWAY 220 NEAR GREENSBORO, NC--Continued



CAPE FEAR RIVER BASIN

0209399200 HORSE PEN CREEK AT US HIGHWAY 220 NEAR GREENSBORO, NC--Continued

PRECIPITATION RECORDS

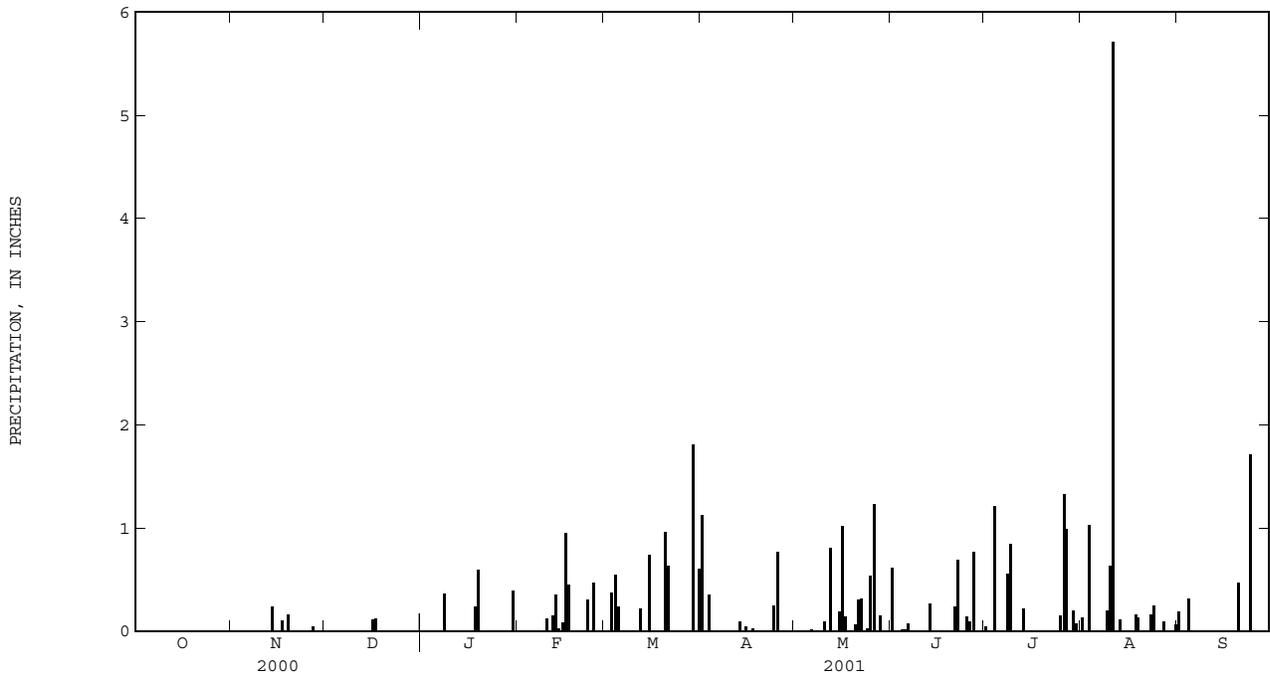
PERIOD OF RECORD.--August 1999 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and data collection platform.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	1.12	.00	.61	.04	.13	.19
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.37	.35	.00	.00	.01	1.03	.00
4	.00	.00	.00	.00	.00	.55	.00	.00	.02	1.21	.00	.32
5	.00	.00	.00	.00	.01	.24	.00	.00	.02	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.02	.07	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.36	.00	.00	.00	.00	.00	.56	.00	.00
9	.00	.00	.00	.01	.00	.00	.00	.00	.00	.84	.20	.00
10	.00	.00	.00	.00	.12	.00	.00	.09	.00	.00	.63	.00
11	.00	.00	.00	.00	---	---	.00	.00	.00	.00	5.71	.00
12	.00	.00	.00	.01	.15	.22	.00	.81	.00	.00	.01	.00
13	.00	.00	.00	.01	.35	.01	.09	.00	.27	.22	.11	.00
14	.00	.24	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.08	.74	.04	.19	.00	.00	.00	.00
16	.00	.00	.11	.01	.95	.01	.00	1.02	.00	.00	.00	.00
17	.00	.10	.12	.00	.45	.01	.03	.14	.00	.00	.01	.00
18	.00	.00	.00	.24	.00	.00	.00	.00	.00	.00	.16	.00
19	.00	.16	.00	.59	.00	.00	.00	.00	.00	.01	.13	.00
20	.00	.01	.00	.00	.00	.96	.00	.06	.00	.00	.00	.47
21	.00	.00	.00	.00	.00	.63	.00	.30	.24	.00	.00	.00
22	.00	.00	.00	.01	.00	.00	.00	.32	.69	.00	.00	.00
23	.00	.00	.00	.00	.31	.00	.00	.00	.00	.00	.16	.00
24	.00	.00	.00	.00	.00	.00	.25	.03	.00	.00	.25	1.71
25	.00	.01	.00	.00	.47	.00	.77	.54	.14	.15	.00	.01
26	.00	.00	.00	.00	.00	.00	.00	1.23	.09	1.33	.00	.00
27	.00	.04	.00	.01	.00	.00	.00	.00	.77	.99	.09	.00
28	.00	.01	.00	.00	.00	.00	.00	.15	.00	.01	.00	.00
29	.00	.00	.00	.01	---	1.81	.00	.00	.00	.20	.00	.00
30	.00	.00	.00	.39	---	.01	.00	.00	.00	.07	.00	.00
31	.00	---	.00	.00	---	.60	---	.00	---	.00	.06	---
TOTAL	0.00	0.57	0.23	1.65	---	---	2.65	4.90	2.92	5.64	8.68	2.70
MEAN	.00	.02	.01	.05	---	---	.09	.16	.10	.18	.28	.09
MAX	.00	.24	.12	.59	---	---	1.12	1.23	.77	1.33	5.71	1.71
MIN	.00	.00	.00	.00	---	---	.00	.00	.00	.00	.00	.00





Raingage at Statesville, North Carolina.



Raingage at Tuckertown Reservoir  
Montgomery County, North Carolina.

CAPE FEAR RIVER BASIN

02094412 REEDY FORK NEAR BROWNS SUMMIT, NC

LOCATION.--Lat 36°10'40", long 79°38'51", Guilford County, Hydrologic Unit 03030002, at bridge on Secondary Road 2728, 0.1 mi below Rocky Branch, 4.4 mi southwest of Browns Summit.

DRAINAGE AREA.--125 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1999 to September 2001 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 700 ft, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, FOR PERIOD JUNE TO SEPTEMBER 1999  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	e8.6	6.9	3.5	3.4
2	---	---	---	---	---	---	---	---	7.0	14	3.3	8.2
3	---	---	---	---	---	---	---	---	7.7	7.8	3.4	6.6
4	---	---	---	---	---	---	---	---	7.5	5.0	4.4	4.7
5	---	---	---	---	---	---	---	---	6.5	4.2	7.3	100
6	---	---	---	---	---	---	---	---	6.8	3.9	7.2	108
7	---	---	---	---	---	---	---	---	7.6	49	6.8	33
8	---	---	---	---	---	---	---	---	7.9	47	5.2	19
9	---	---	---	---	---	---	---	---	6.9	17	4.8	13
10	---	---	---	---	---	---	---	---	6.3	7.2	4.4	11
11	---	---	---	---	---	---	---	---	7.0	5.7	3.9	8.8
12	---	---	---	---	---	---	---	---	6.9	5.7	3.1	7.1
13	---	---	---	---	---	---	---	---	6.8	19	2.4	5.5
14	---	---	---	---	---	---	---	---	6.8	19	2.2	4.9
15	---	---	---	---	---	---	---	---	8.5	15	5.3	e717
16	---	---	---	---	---	---	---	---	12	9.5	5.1	e492
17	---	---	---	---	---	---	---	---	19	6.9	3.8	40
18	---	---	---	---	---	---	---	---	8.8	5.8	3.1	22
19	---	---	---	---	---	---	---	---	5.7	4.5	2.6	13
20	---	---	---	---	---	---	---	---	7.5	4.3	2.4	9.3
21	---	---	---	---	---	---	---	---	11	8.8	2.5	13
22	---	---	---	---	---	---	---	---	8.1	51	3.0	18
23	---	---	---	---	---	---	---	---	6.4	19	2.9	9.7
24	---	---	---	---	---	---	---	---	5.3	9.6	2.8	7.7
25	---	---	---	---	---	---	---	---	6.0	6.0	8.3	6.4
26	---	---	---	---	---	---	---	---	6.0	4.7	46	5.6
27	---	---	---	---	---	---	---	---	5.5	3.8	187	9.6
28	---	---	---	---	---	---	---	---	4.9	3.3	24	275
29	---	---	---	---	---	---	---	---	4.3	3.3	11	e521
30	---	---	---	---	---	---	---	---	11	5.0	5.7	e493
31	---	---	---	---	---	---	---	---	---	4.2	3.9	---
TOTAL	---	---	---	---	---	---	---	---	230.3	376.1	381.3	2985.5
MEAN	---	---	---	---	---	---	---	---	7.68	12.1	12.3	99.5
MAX	---	---	---	---	---	---	---	---	19	51	187	717
MIN	---	---	---	---	---	---	---	---	4.3	3.3	2.2	3.4
CFSM	---	---	---	---	---	---	---	---	.06	.10	.10	.80
IN.	---	---	---	---	---	---	---	---	.07	.11	.11	.89

SUMMARY STATISTICS

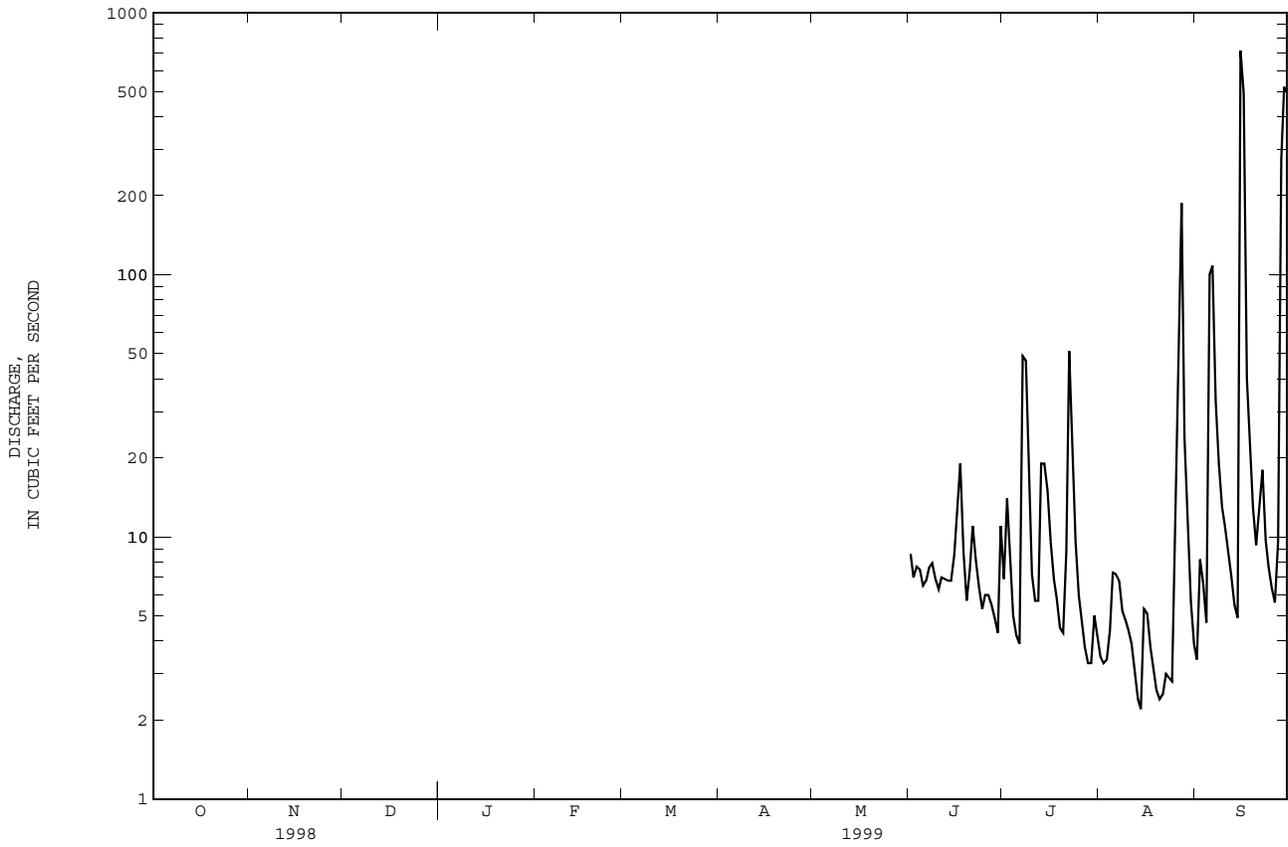
FOR PERIOD JUNE TO SEPTEMBER 1999

MAXIMUM PEAK FLOW  
MAXIMUM PEAK STAGE  
INSTANTANEOUS LOW FLOW

NOT DETERMINED  
9.97 Sep 16  
2.0 Aug 14

e Estimated.

02094412 REEDY FORK NEAR BROWNS SUMMIT, NC--Continued



## CAPE FEAR RIVER BASIN

02094412 REEDY FORK NEAR BROWNS SUMMIT, NC--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e336	8.5	e22	e22	e378	22	23	69	8.4	11	e10	47
2	41	16	e49	18	66	22	28	56	7.8	7.5	e22	98
3	21	23	e26	16	35	19	110	45	7.7	6.0	e13	261
4	15	20	e21	25	36	18	263	39	7.9	5.4	e10	e537
5	15	13	e17	155	35	19	35	35	9.2	5.4	e7.7	265
6	13	10	e41	40	32	19	27	31	10	6.2	e6.6	49
7	10	10	e21	27	33	17	24	27	9.1	6.8	e6.0	31
8	8.5	11	e16	26	51	19	26	25	8.7	5.7	e5.4	22
9	7.7	12	e14	33	42	20	49	22	9.0	5.0	e4.9	18
10	9.0	11	24	287	31	16	e47	19	8.6	4.6	e20	13
11	18	e12	31	122	28	16	e36	15	7.1	4.5	e14	11
12	12	e16	21	48	182	18	32	13	6.3	4.8	e8.5	9.8
13	19	e12	17	31	e363	16	31	12	6.0	34	e6.0	7.5
14	22	e11	65	104	129	15	44	13	6.0	18	e5.4	7.5
15	13	e17	40	37	154	16	71	11	8.8	8.6	e5.1	e833
16	10	e14	e30	22	103	28	297	11	13	6.8	e5.0	e2300
17	54	e13	e27	24	31	95	100	13	8.4	5.6	e5.3	e538
18	49	e12	e24	21	34	75	93	13	6.9	5.0	e6.0	67
19	18	e11	e23	40	68	69	138	11	7.6	4.7	6.2	106
20	55	e10	e31	101	84	277	48	10	10	7.3	5.8	239
21	40	e9.6	e60	47	28	59	47	13	8.0	7.0	5.5	228
22	22	e9.0	48	103	24	65	43	18	8.0	8.5	5.0	265
23	16	e8.6	24	56	25	84	38	13	6.4	10	5.1	e304
24	18	e8.2	e21	23	24	76	34	12	5.4	e16	6.0	80
25	15	e7.8	e19	28	24	52	45	13	5.9	e14	5.6	80
26	13	e140	e17	28	23	42	51	13	13	e12	5.2	62
27	16	e83	e16	106	50	38	50	9.3	10	e10	12	32
28	14	e44	e25	83	79	57	84	8.9	25	e8.8	112	23
29	11	e31	e22	41	24	46	265	15	71	e7.8	31	17
30	9.7	e24	e19	41	---	33	68	11	24	e6.6	14	15
31	8.8	---	e18	143	---	26	---	9.1	---	e6.0	13	---
TOTAL	929.7	627.7	849	1898	2216	1394	2247	625.3	343.2	269.6	387.3	6565.8
MEAN	30.0	20.9	27.4	61.2	76.4	45.0	74.9	20.2	11.4	8.70	12.5	219
MAX	336	140	65	287	378	277	297	69	71	34	112	2300
MIN	7.7	7.8	14	16	23	15	23	8.9	5.4	4.5	4.9	7.5
CFSM	.24	.17	.22	.49	.61	.36	.60	.16	.09	.07	.10	1.75
IN.	.28	.19	.25	.56	.66	.41	.67	.19	.10	.08	.12	1.95

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	30.0	20.9	27.4	61.2	76.4	45.0	74.9	20.2	9.56	10.4	12.4	159
MAX	30.0	20.9	27.4	61.2	76.4	45.0	74.9	20.2	11.4	12.1	12.5	219
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	1999	2000	2000
MIN	30.0	20.9	27.4	61.2	76.4	45.0	74.9	20.2	7.68	8.70	12.3	99.5
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	1999	2000	1999	1999

## SUMMARY STATISTICS

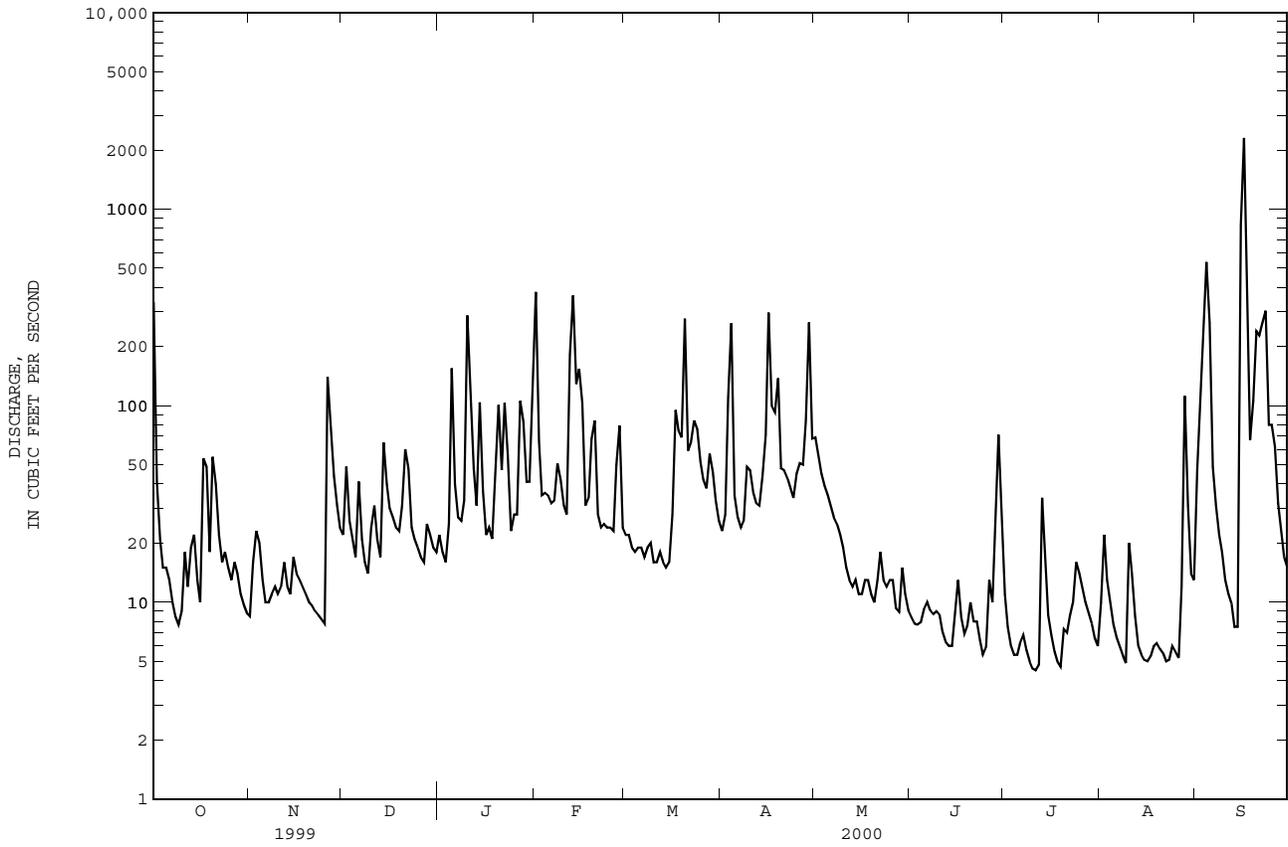
## FOR 2000 WATER YEAR

## WATER YEARS 1999 - 2000

ANNUAL TOTAL	18352.6											
ANNUAL MEAN	50.1									50.1		
HIGHEST ANNUAL MEAN										50.1		2000
LOWEST ANNUAL MEAN										50.1		2000
HIGHEST DAILY MEAN	2300	Sep 16								2300	Sep 16	2000
LOWEST DAILY MEAN	4.5	Jul 11								2.2	Aug 14	1999
ANNUAL SEVEN-DAY MINIMUM	5.4	Jul 6								2.8	Aug 18	1999
MAXIMUM PEAK FLOW	NOT DETERMINED									NOT DETERMINED		
MAXIMUM PEAK STAGE	13.58	Sep 16								13.58	Sep 16	2000
INSTANTANEOUS LOW FLOW	NOT DETERMINED									NOT DETERMINED		
ANNUAL RUNOFF (CFSM)	.40									.40		
ANNUAL RUNOFF (INCHES)	5.46									5.45		
10 PERCENT EXCEEDS	96									84		
50 PERCENT EXCEEDS	20									15		
90 PERCENT EXCEEDS	6.5									5.2		

e Estimated.

02094412 REEDY FORK NEAR BROWNS SUMMIT, NC--Continued



CAPE FEAR RIVER BASIN

02094412 REEDY FORK NEAR BROWNS SUMMIT, NC--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	8.2	9.3	8.8	18	40	294	14	21	3.9	20	17
2	11	e6.8	9.9	8.9	16	30	e510	12	29	3.6	16	13
3	10	6.4	11	10	15	e158	e393	11	28	3.3	9.5	9.3
4	9.1	6.2	9.8	11	e14	225	254	12	24	26	7.6	7.7
5	8.5	7.7	10	12	13	125	102	10	17	48	7.4	7.9
6	8.0	7.2	14	12	12	50	47	11	14	15	6.0	6.5
7	7.3	6.8	13	10	12	30	43	11	14	8.1	6.0	7.6
8	6.8	7.7	11	12	13	24	37	10	11	7.1	9.3	5.7
9	6.6	8.8	10	14	14	27	37	11	9.7	10	7.2	5.7
10	6.3	13	9.7	11	16	35	29	11	8.2	7.4	11	10
11	e5.8	e10	9.6	e11	14	e19	27	14	7.8	6.0	67	7.2
12	e6.9	8.6	9.6	13	84	17	25	11	7.4	5.4	67	6.1
13	16	8.4	10	11	26	29	31	9.6	6.9	4.5	48	4.4
14	5.3	13	12	11	20	38	28	9.3	15	5.7	49	3.5
15	26	16	12	10	17	34	27	8.4	12	5.2	33	3.1
16	29	e13	16	9.0	16	e43	31	26	10	4.4	20	2.7
17	12	11	25	9.8	294	77	26	23	7.2	4.3	14	2.9
18	7.4	9.2	16	13	254	56	26	16	6.0	5.9	13	4.2
19	4.6	7.9	13	37	39	41	21	12	5.2	7.0	12	4.3
20	5.0	9.1	13	88	27	70	18	9.9	4.9	5.6	10	3.9
21	5.5	9.8	12	113	21	e484	17	12	4.6	4.8	8.1	4.3
22	15	9.6	11	30	20	274	15	16	5.8	4.2	7.3	3.3
23	21	11	9.9	23	20	51	13	15	16	3.8	7.5	3.2
24	7.0	9.4	9.6	20	22	61	13	13	9.1	3.8	8.4	4.0
25	8.8	13	9.8	18	37	50	24	11	6.9	4.0	8.7	6.9
26	20	27	9.3	19	46	39	21	62	6.3	44	7.2	3.7
27	8.7	15	9.5	18	34	53	20	57	6.1	51	6.6	2.2
28	6.6	12	11	16	e51	44	23	51	5.2	27	9.3	1.8
29	6.5	11	9.5	15	---	209	18	59	4.5	18	7.8	1.7
30	7.7	9.9	10	19	---	e599	16	41	4.4	39	45	1.5
31	11	---	9.1	23	---	e445	---	26	---	19	34	---
TOTAL	322.4	312.7	354.6	636.5	1185	3477	2186	615.2	327.2	405.0	582.9	165.3
MEAN	10.4	10.4	11.4	20.5	42.3	112	72.9	19.8	10.9	13.1	18.8	5.51
MAX	29	27	25	113	294	599	510	62	29	51	67	17
MIN	4.6	6.2	9.1	8.8	12	17	13	8.4	4.4	3.3	6.0	1.5
CFSM	.08	.08	.09	.16	.34	.90	.58	.16	.09	.10	.15	.04
IN.	.10	.09	.11	.19	.35	1.03	.65	.18	.10	.12	.17	.05

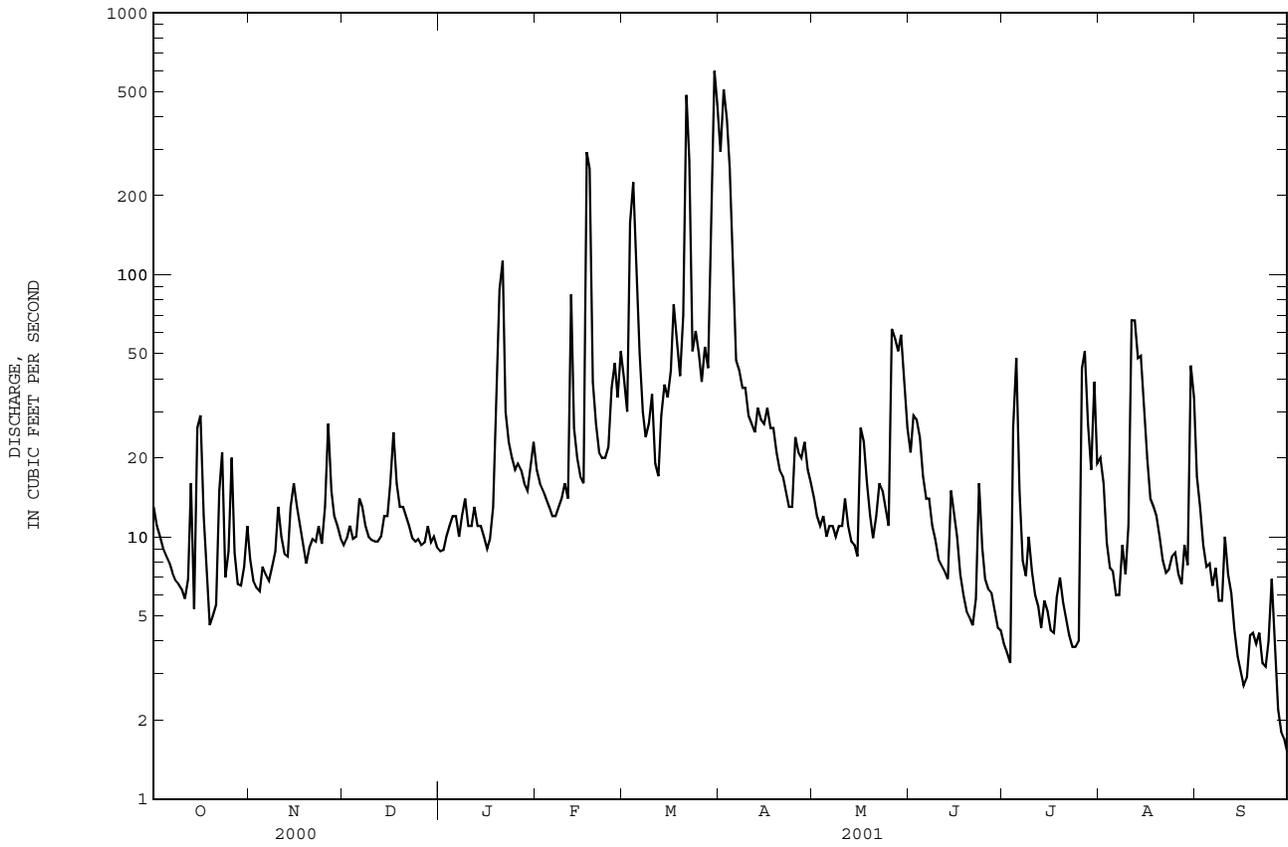
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

	1999	2000	2001	1999	2000	2001	1999	2000	2001	1999	2000	2001
MEAN	20.2	15.7	19.4	40.9	59.7	78.6	73.9	20.0	10.0	11.3	14.5	108
MAX	30.0	20.9	27.4	61.2	76.4	112	74.9	20.2	11.4	13.1	18.8	219
(WY)	2000	2000	2000	2000	2000	2001	2000	2000	2000	2001	2001	2000
MIN	10.4	10.4	11.4	20.5	42.3	45.0	72.9	19.8	7.68	8.70	12.3	5.51
(WY)	2001	2001	2001	2001	2001	2000	2001	2001	1999	2000	1999	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	16935.9		10569.8			
ANNUAL MEAN	46.3		29.0		39.6	
HIGHEST ANNUAL MEAN					50.1 2000	
LOWEST ANNUAL MEAN					29.0 2001	
HIGHEST DAILY MEAN	2300	Sep 16	599	Mar 30	2300	Sep 16 2000
LOWEST DAILY MEAN	4.5	Jul 11	1.5	Sep 30	1.5	Sep 30 2001
ANNUAL SEVEN-DAY MINIMUM	5.4	Jul 6	3.1	Sep 24	2.8	Aug 18 1999
MAXIMUM PEAK FLOW			NOT DETERMINED		NOT DETERMINED	
MAXIMUM PEAK STAGE			8.32	Mar 29	13.58	Sep 16 2000
INSTANTANEOUS LOW FLOW			1.4	Sep 30	NOT DETERMINED	
ANNUAL RUNOFF (CFSM)	.37		.23		.32	
ANNUAL RUNOFF (INCHES)	5.04		3.15		4.30	
10 PERCENT EXCEEDS	87		48		67	
50 PERCENT EXCEEDS	14		12		13	
90 PERCENT EXCEEDS	6.0		5.2		5.2	

e Estimated.

02094412 REEDY FORK NEAR BROWNS SUMMIT, NC--Continued



CAPE FEAR RIVER BASIN

02094412 REEDY FORK NEAR BROWNS SUMMIT, NC--Continued

PRECIPITATION RECORDS

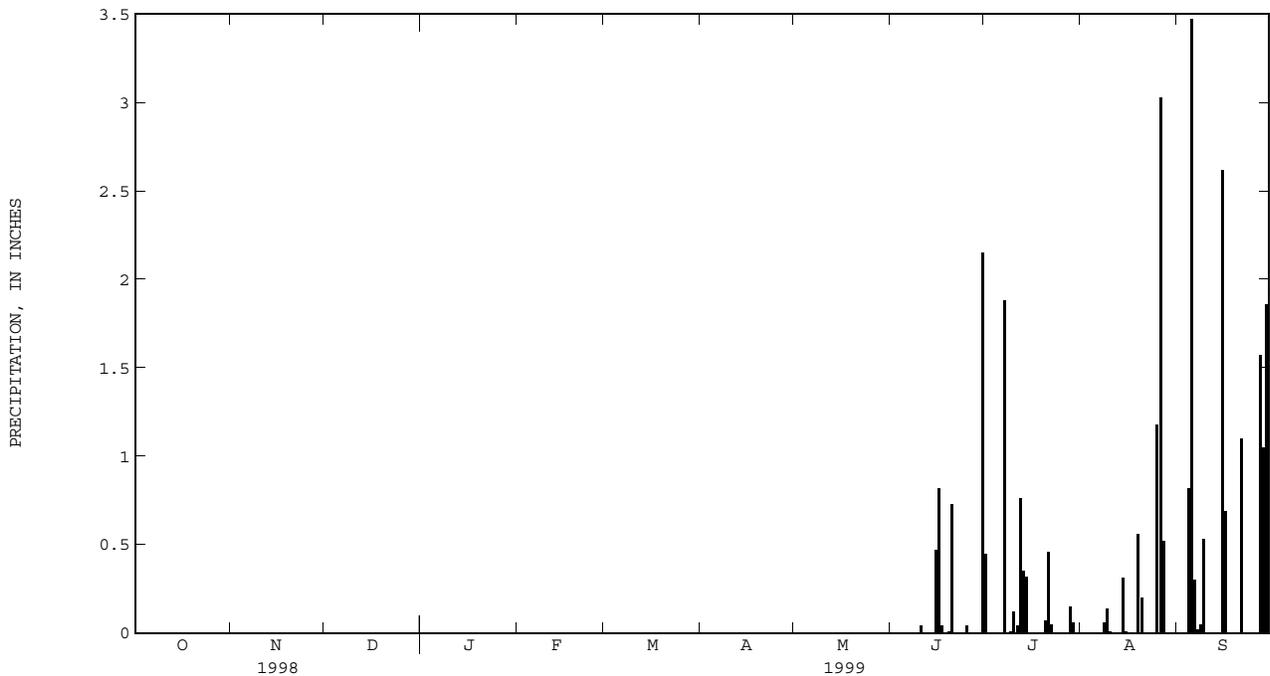
PERIOD OF RECORD.--June 1999 to September 2001 (discontinued).

INSTRUMENTATION.--Tipping bucket raingage and data collection platform.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, FOR PERIOD JUNE TO SEPTEMBER 1999  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	.00	.45	.00	.00
2	---	---	---	---	---	---	---	---	.00	.00	.00	.00
3	---	---	---	---	---	---	---	---	.00	.00	.00	.00
4	---	---	---	---	---	---	---	---	.00	.00	.00	.82
5	---	---	---	---	---	---	---	---	.00	.00	.00	3.47
6	---	---	---	---	---	---	---	---	.00	.00	.00	.30
7	---	---	---	---	---	---	---	---	.00	1.88	.00	.02
8	---	---	---	---	---	---	---	---	.00	.00	.06	.05
9	---	---	---	---	---	---	---	---	.00	.01	.14	.53
10	---	---	---	---	---	---	---	---	.04	.12	.01	.00
11	---	---	---	---	---	---	---	---	.00	.04	.00	.00
12	---	---	---	---	---	---	---	---	.00	.76	.00	.00
13	---	---	---	---	---	---	---	---	.00	.35	.00	.00
14	---	---	---	---	---	---	---	---	.00	.32	.31	.00
15	---	---	---	---	---	---	---	---	.47	.00	.01	2.62
16	---	---	---	---	---	---	---	---	.82	.00	.00	.69
17	---	---	---	---	---	---	---	---	.04	.00	.00	.00
18	---	---	---	---	---	---	---	---	.00	.00	.00	.00
19	---	---	---	---	---	---	---	---	.01	.00	.56	.00
20	---	---	---	---	---	---	---	---	.73	.07	.20	.00
21	---	---	---	---	---	---	---	---	.00	.46	.00	1.10
22	---	---	---	---	---	---	---	---	.00	.05	.00	.00
23	---	---	---	---	---	---	---	---	.00	.00	.00	.00
24	---	---	---	---	---	---	---	---	.00	.00	.00	.00
25	---	---	---	---	---	---	---	---	.04	.00	1.18	.00
26	---	---	---	---	---	---	---	---	.00	.00	3.03	.00
27	---	---	---	---	---	---	---	---	.00	.00	.52	1.57
28	---	---	---	---	---	---	---	---	.00	.15	.00	1.05
29	---	---	---	---	---	---	---	---	.00	.06	.00	1.86
30	---	---	---	---	---	---	---	---	2.15	.00	.00	.00
31	---	---	---	---	---	---	---	---	---	.00	.00	---
TOTAL	---	---	---	---	---	---	---	---	4.30	4.72	6.02	14.08
MEAN	---	---	---	---	---	---	---	---	.14	.15	.19	.47
MAX	---	---	---	---	---	---	---	---	2.15	1.88	3.03	3.47
MIN	---	---	---	---	---	---	---	---	.00	.00	.00	.00

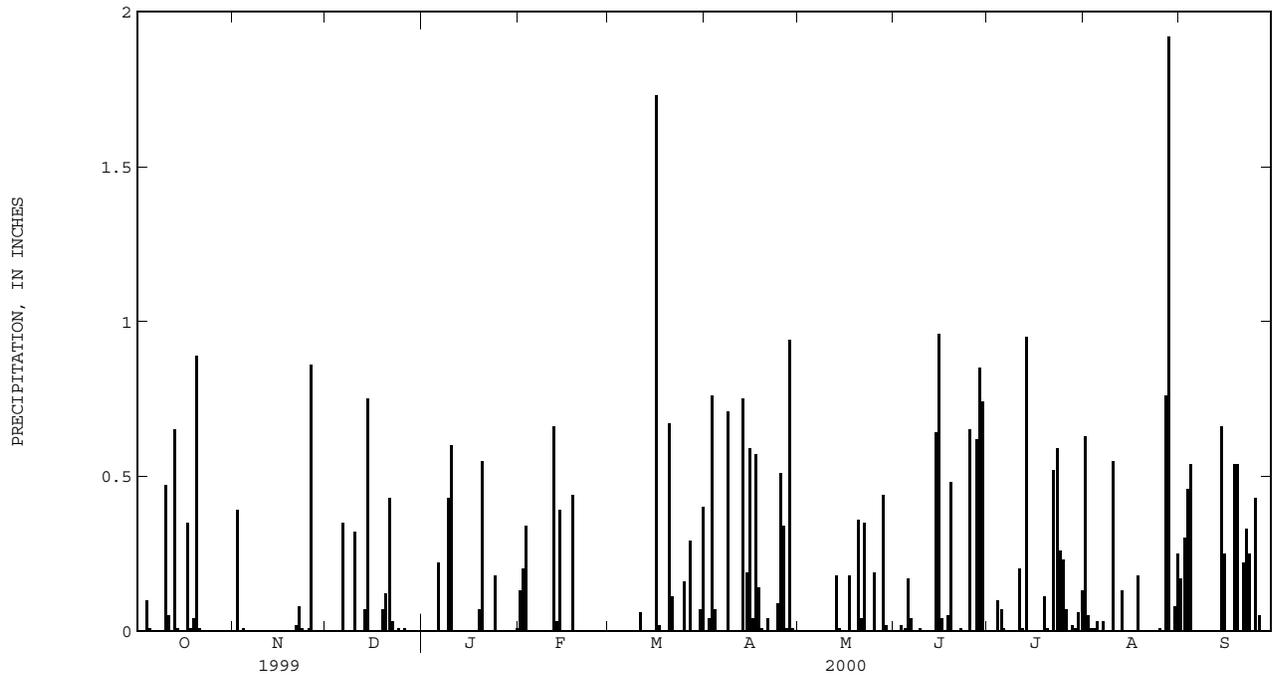


02094412 REEDY FORK NEAR BROWNS SUMMIT, NC--Continued

PRECIPITATION RECORDS

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.13	.00	.00	.00	.00	.00	.63	.17
2	.00	.39	.00	.00	.20	.00	.04	.00	.00	.00	.05	.30
3	.00	.00	.00	.00	.34	.00	.76	.00	.02	.00	.01	.46
4	.10	.01	.00	.00	.00	.00	.07	.00	.01	.10	.01	.54
5	.01	.00	.00	.00	.00	.00	.00	.00	.17	.07	.03	.00
6	.00	.00	.35	.22	.00	.00	.00	.00	.04	.01	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00
8	.00	.00	.00	.00	.00	.00	.71	.00	.00	.00	.00	.00
9	.00	.00	.00	.43	.00	.00	.00	.00	.01	.00	.00	.00
10	.47	.00	.32	.60	.00	.00	.00	.00	.00	.00	.55	.00
11	.05	.00	.00	.00	.00	.06	.00	.00	.00	.20	.00	.00
12	.00	.00	.00	.00	.66	.00	.00	.00	.00	.01	.00	.00
13	.65	.00	.07	.00	.03	.00	.75	.18	.00	.95	.13	.00
14	.01	.00	.75	.00	.39	.00	.19	.01	.64	.00	.00	.66
15	.00	.00	.00	.00	.00	.00	.59	.00	.96	.00	.00	.25
16	.00	.00	.00	.00	.00	1.73	.04	.00	.04	.00	.00	.00
17	.35	.00	.00	.00	.00	.02	.57	.18	.00	.00	.00	.00
18	.01	.00	.00	.00	.44	.00	.14	.00	.05	.00	.18	.54
19	.04	.00	.07	.07	.00	.00	.01	.00	.48	.11	.00	.54
20	.89	.00	.12	.55	.00	.67	.00	.36	.00	.01	.00	.00
21	.01	.02	.43	.00	.00	.11	.04	.04	.00	.00	.00	.22
22	.00	.08	.03	.00	.00	.00	.00	.35	.01	.52	.00	.33
23	.00	.01	.00	.00	.00	.00	.00	.00	.00	.59	.00	.25
24	.00	.00	.01	.18	.00	.00	.09	.00	.00	.26	.00	.00
25	.00	.01	.00	.00	.00	.16	.51	.19	.65	.23	.01	.43
26	.00	.86	.01	.00	.00	.00	.34	.00	.00	.07	.00	.05
27	.00	.00	.00	.00	.00	.29	.01	.00	.62	.00	.76	.00
28	.00	.00	.00	.00	.00	.00	.94	.44	.85	.02	1.92	.00
29	.00	.00	.00	.00	.00	.00	.01	.02	.74	.01	.00	.00
30	.00	.00	.00	.00	---	.07	.00	.00	.00	.06	.08	.00
31	.00	---	.00	.01	---	.40	---	.00	---	.13	.25	---
TOTAL	2.59	1.38	2.16	2.06	2.19	3.51	5.81	1.77	5.29	3.35	4.64	4.74
MEAN	.08	.05	.07	.07	.08	.11	.19	.06	.18	.11	.15	.16
MAX	.89	.86	.75	.60	.66	1.73	.94	.44	.96	.95	1.92	.66
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00



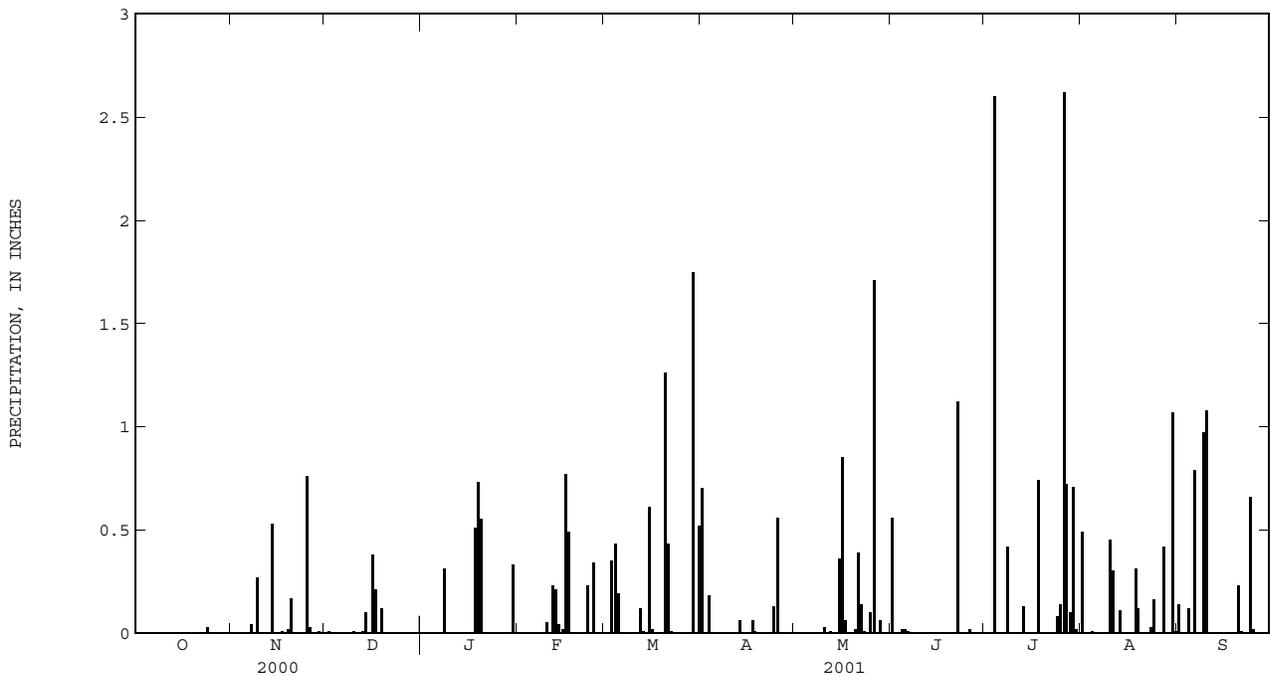
CAPE FEAR RIVER BASIN

02094412 REEDY FORK NEAR BROWNS SUMMIT, NC--Continued

PRECIPITATION RECORDS

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.70	.00	.56	.00	.49	.14
2	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.35	.18	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.43	.00	.00	.02	2.60	.01	.12
5	.00	.00	.00	.00	.00	.19	.00	.00	.02	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.79
7	.00	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.31	.00	.00	.00	.00	.00	.42	.00	.00
9	.00	.27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.97
10	.00	.00	.01	.00	.05	.00	.00	.03	.00	.00	.45	1.08
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00
12	.00	.00	.00	.00	.23	.12	.00	.01	.00	.00	.00	.00
13	.00	.00	.01	.00	.21	.01	.06	.00	.00	.13	.11	.00
14	.00	.53	.10	.00	.04	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.02	.61	.00	.36	.00	.00	.00	.00
16	.00	.00	.38	.00	.77	.02	.00	.85	.00	.00	.00	.00
17	.00	.01	.21	.00	.49	.00	.06	.06	.00	.00	.00	.00
18	.00	.00	.00	.51	.00	.00	.01	.00	.00	.74	.31	.00
19	.00	.02	.12	.73	.00	.00	.00	.00	.00	.00	.12	.00
20	.00	.17	.00	.55	.00	1.26	.00	.02	.00	.00	.00	.23
21	.00	.00	.00	.00	.00	.43	.00	.39	.00	.00	.00	.01
22	.00	.00	.00	.00	.00	.01	.00	.14	1.12	.00	.00	.00
23	.00	.00	.00	.00	.23	.00	.00	.01	.00	.00	.03	.00
24	.03	.00	.00	.00	.00	.00	.13	.00	.00	.08	.16	.66
25	.00	.76	.00	.00	.34	.00	.56	.10	.00	.14	.00	.02
26	.00	.03	.00	.00	.00	.00	.00	1.71	.02	2.62	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.72	.42	.00
28	.00	.00	.00	.00	.00	.00	.00	.06	.00	.10	.00	.00
29	.00	.01	.00	.00	---	1.75	.00	.00	.00	.71	.00	.00
30	.00	.00	.00	.33	---	.00	.00	.00	.00	.02	1.07	.00
31	.00	---	.00	.00	---	.52	---	.00	---	.00	.01	---
TOTAL	0.03	1.84	0.84	2.43	2.38	5.70	1.70	3.74	1.75	8.28	3.48	4.02
MEAN	.00	.06	.03	.08	.09	.18	.06	.12	.06	.27	.11	.13
MAX	.03	.76	.38	.73	.77	1.75	.70	1.71	1.12	2.62	1.07	1.08
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00





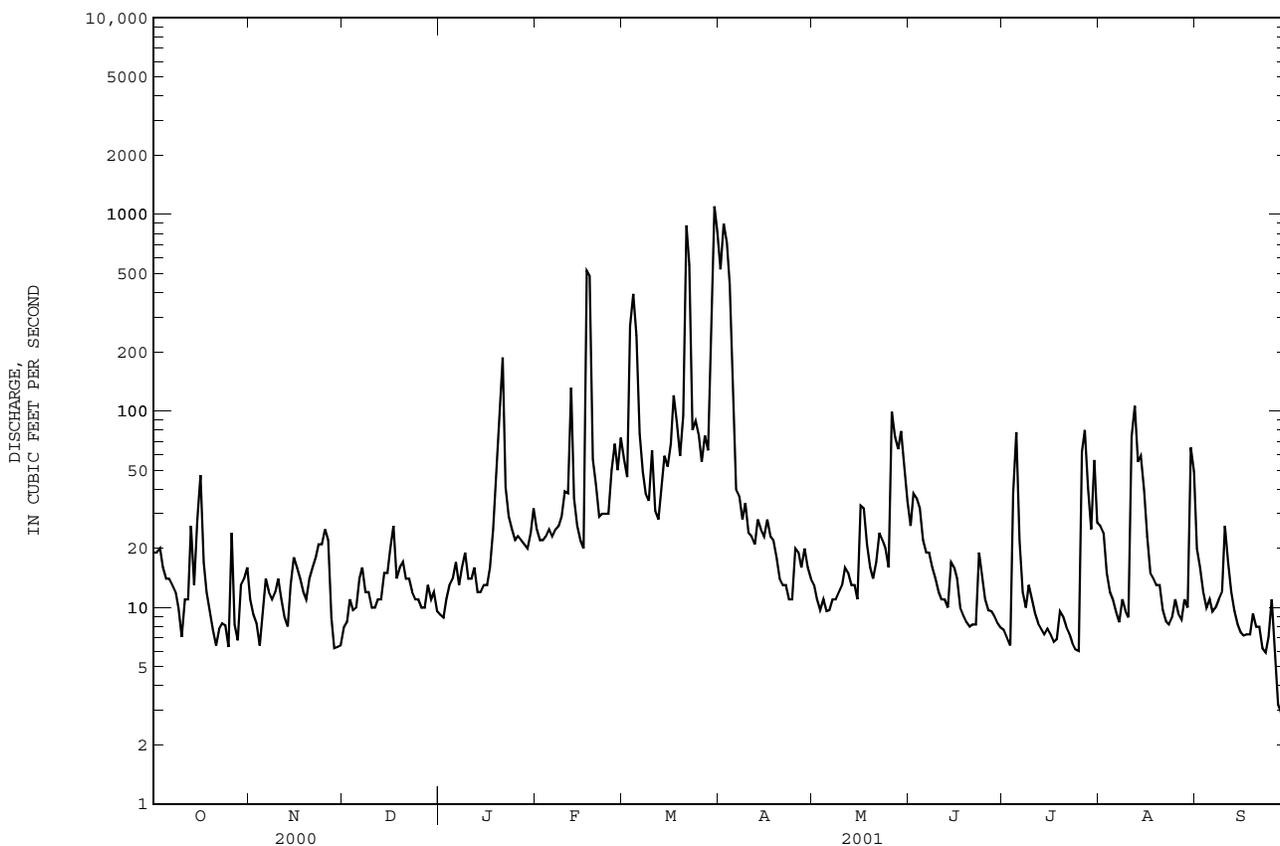
Gaging station at Brasstown Creek at Brasstown, North Carolina.



02094500 REEDY FORK NEAR GIBSONVILLE, NC--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1969 - 2001*	
ANNUAL TOTAL	23824.3		16274.1		96.2	
ANNUAL MEAN	65.1		44.6		188	
HIGHEST ANNUAL MEAN					20.8	
LOWEST ANNUAL MEAN					1981	
HIGHEST DAILY MEAN	2400	Sep 16	1100	Mar 30	5230	Sep 6 1996
LOWEST DAILY MEAN	6.2	Nov 28	2.9	Sep 28	1.2	Oct 3 1968
ANNUAL SEVEN-DAY MINIMUM	7.8	Oct 19	5.3	Sep 24	1.4	Oct 1 1968
MAXIMUM PEAK FLOW			1390	Mar 29	6330	Sep 6 1996
MAXIMUM PEAK STAGE			6.00	Mar 29	15.65	Sep 6 1996
INSTANTANEOUS LOW FLOW			NOT DETERMINED		1.4*	Jul 29 1977
ANNUAL RUNOFF (CFSM)	.50		.34		.73	
ANNUAL RUNOFF (INCHES)	6.77		4.62		9.98	
10 PERCENT EXCEEDS	138		66		266	
50 PERCENT EXCEEDS	18		14		22	
90 PERCENT EXCEEDS	9.4		7.9		5.8	

\* Regulated period only (1969-2001). See REMARKS.



## CAPE FEAR RIVER BASIN

02094659 SOUTH BUFFALO CREEK NEAR POMONA, NC

LOCATION.--Lat 36°02'59", long 79°51'22", Guilford County, Hydrologic Unit 03030002, on right bank 300 ft upstream of culvert under Merritt Road, 0.7 mi south of post office at Pomona, and 1.0 mi below South Railway trestle.

DRAINAGE AREA.--7.33 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 771.84 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for current water year and period of record also occurred Sept. 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	1.3	.99	e2.0	1.7	6.1	79	1.9	40	1.1	4.4	47
2	2.0	1.4	1.0	e1.3	1.5	5.3	18	1.8	5.5	4.1	2.0	34
3	3.6	1.5	.95	e1.2	1.3	6.8	27	1.7	2.2	.60	1.1	.89
4	5.6	1.7	1.0	e1.4	1.3	65	9.9	1.6	2.2	65	.85	84
5	2.2	1.4	.99	1.5	1.3	24	7.3	1.4	4.4	19	.74	1.7
6	2.3	1.4	.88	1.5	1.3	9.4	6.2	1.4	41	4.5	.92	.62
7	2.0	3.5	.94	1.5	1.3	7.9	5.5	1.4	8.2	2.8	.69	.45
8	1.8	1.9	1.1	12	1.3	6.5	5.2	1.6	3.1	25	.75	.41
9	1.8	10	1.1	5.2	1.3	5.1	4.8	1.6	1.6	4.4	.58	.34
10	1.9	3.1	1.0	1.4	4.6	4.4	4.8	1.6	1.1	4.6	6.7	16
11	2.6	.84	.97	1.3	1.2	e4.3	4.2	1.6	4.0	1.6	64	1.3
12	1.7	.76	1.0	1.4	6.3	5.5	4.0	25	.90	.93	11	.41
13	1.6	.77	1.0	1.3	6.7	12	8.6	5.0	23	1.6	3.4	.31
14	1.7	20	1.7	1.2	5.5	6.6	4.0	2.1	9.2	.98	1.4	.25
15	1.6	2.6	1.5	1.3	5.9	52	3.8	1.6	1.6	.88	.90	.24
16	1.5	.98	16	1.1	25	12	3.5	35	1.0	.74	.85	.20
17	1.5	1.5	18	1.1	131	8.0	4.0	10	.63	.65	1.6	.20
18	1.5	.83	3.2	21	12	7.1	3.2	3.4	.54	26	62	.26
19	1.6	3.3	5.1	60	7.9	5.9	2.9	2.0	.52	3.6	11	.22
20	1.5	4.1	3.4	53	6.8	55	2.6	3.9	.52	1.3	.93	91
21	1.6	.92	2.5	7.6	6.3	68	2.2	31	.50	.65	.50	15
22	1.6	.83	1.7	5.0	12	18	2.1	7.3	42	.49	.57	.63
23	1.8	.89	1.3	2.5	9.7	7.3	2.3	4.4	14	.45	.51	.45
24	1.6	.88	1.3	1.7	7.3	5.8	13	2.0	2.2	.50	189	320
25	1.6	32	1.3	1.5	37	4.6	47	4.2	4.0	19	6.0	89
26	1.5	7.6	1.3	2.0	9.9	3.4	5.4	117	12	70	2.1	4.7
27	1.6	2.7	1.4	2.6	7.4	3.1	3.7	5.0	29	94	.89	2.1
28	1.5	1.5	1.4	2.7	6.8	3.1	2.6	7.3	1.3	6.0	.77	1.1
29	1.3	1.1	1.4	2.8	---	152	2.0	2.7	.57	49	.60	.75
30	1.3	.98	1.7	17	---	24	1.9	1.5	.42	22	2.5	.63
31	1.4	---	2.3	4.3	---	98	---	1.2	---	3.8	18	---
TOTAL	59.0	112.28	79.42	221.4	321.6	696.2	290.7	289.2	257.20	435.27	397.25	714.16
MEAN	1.90	3.74	2.56	7.14	11.5	22.5	9.69	9.33	8.57	14.0	12.8	23.8
MAX	5.6	32	18	60	131	152	79	117	42	94	189	320
MIN	1.3	.76	.88	1.1	1.2	3.1	1.9	1.2	.42	.45	.50	.20
CFSM	.26	.51	.35	.98	1.57	3.08	1.33	1.28	1.17	1.92	1.76	3.26
IN.	.30	.57	.40	1.13	1.64	3.55	1.48	1.47	1.31	2.22	2.02	3.64

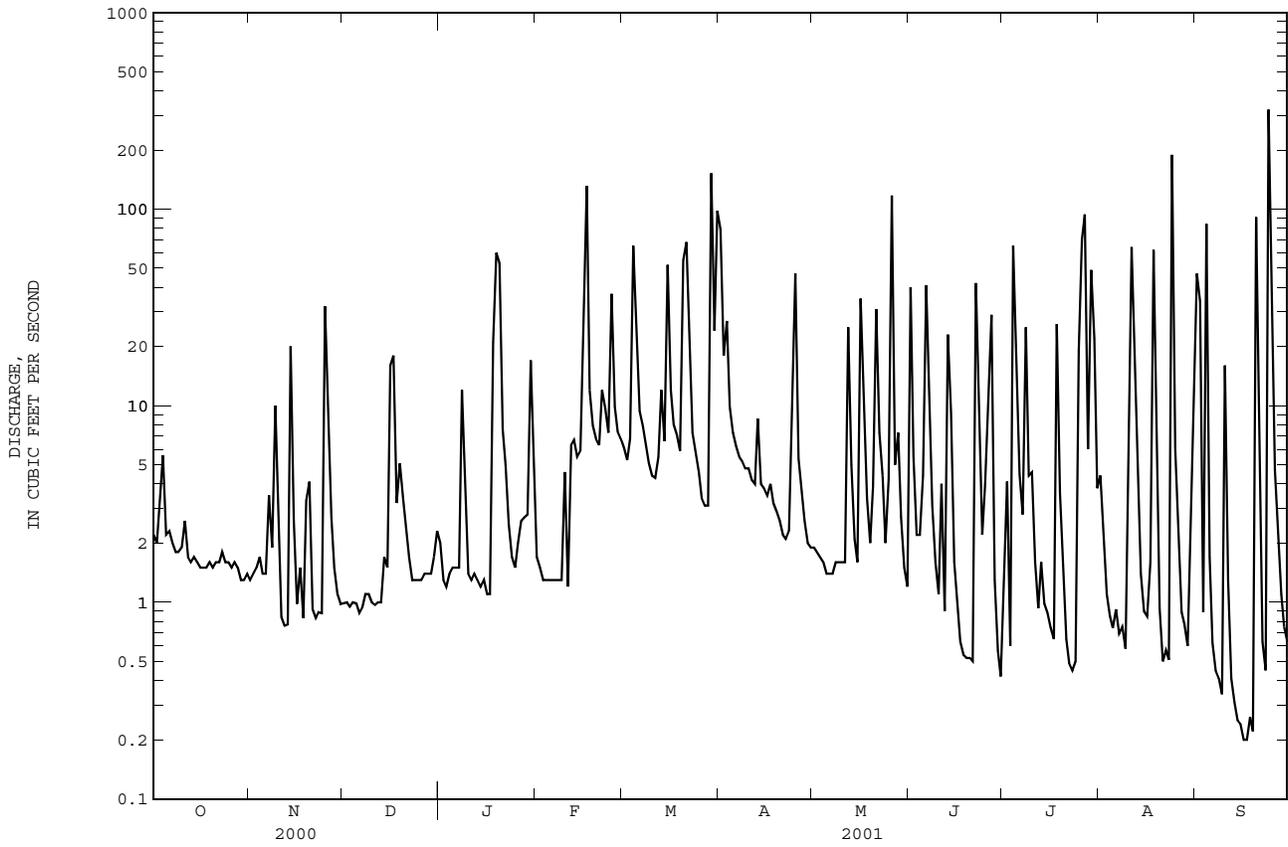
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

	1999	2000	2001	1999	2000	2001	1999	2000	2001	1999	2000	2001
MEAN	3.70	4.08	3.84	9.30	11.3	15.7	11.8	6.79	8.44	9.04	10.9	27.8
MAX	5.49	4.42	5.11	11.5	11.5	22.5	14.0	9.33	12.4	14.0	12.8	35.1
(WY)	2000	2000	2000	2000	2001	2001	2000	2001	2000	2001	2001	2000
MIN	1.90	3.74	2.56	7.14	11.1	9.02	9.69	4.25	4.35	6.48	9.06	23.8
(WY)	2001	2001	2001	2001	2000	2000	2001	2000	1999	2000	1999	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR
ANNUAL TOTAL	3721.94	3873.68				
ANNUAL MEAN	10.2	10.6			10.7	
HIGHEST ANNUAL MEAN					10.7	
LOWEST ANNUAL MEAN					10.6	2000
HIGHEST DAILY MEAN	209	Sep 15	320	Sep 24	320	Sep 24 2001
LOWEST DAILY MEAN	.39	Aug 9	.20	Sep 16	.20	Sep 16 2001
ANNUAL SEVEN-DAY MINIMUM	.69	Jul 16	.24	Sep 13	.24	Sep 13 2001
MAXIMUM PEAK FLOW			667	Sep 24	1170	Sep 15 2000
MAXIMUM PEAK STAGE			7.34	Sep 24	14.01	Sep 15 2000
INSTANTANEOUS LOW FLOW			.17*	Jul 3	.17	Jul 3 2001
ANNUAL RUNOFF (CFSM)	1.39		1.45		1.46	
ANNUAL RUNOFF (INCHES)	18.97		19.74		19.88	
10 PERCENT EXCEEDS	27		25		28	
50 PERCENT EXCEEDS	2.4		2.1		2.2	
90 PERCENT EXCEEDS	.93		.75		.77	

e Estimated.  
\* See REMARKS.

02094659 SOUTH BUFFALO CREEK NEAR POMONA, NC--Continued



CAPE FEAR RIVER BASIN

02094659 SOUTH BUFFALO CREEK NEAR POMONA, NC--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--January 2000 to September 2000.

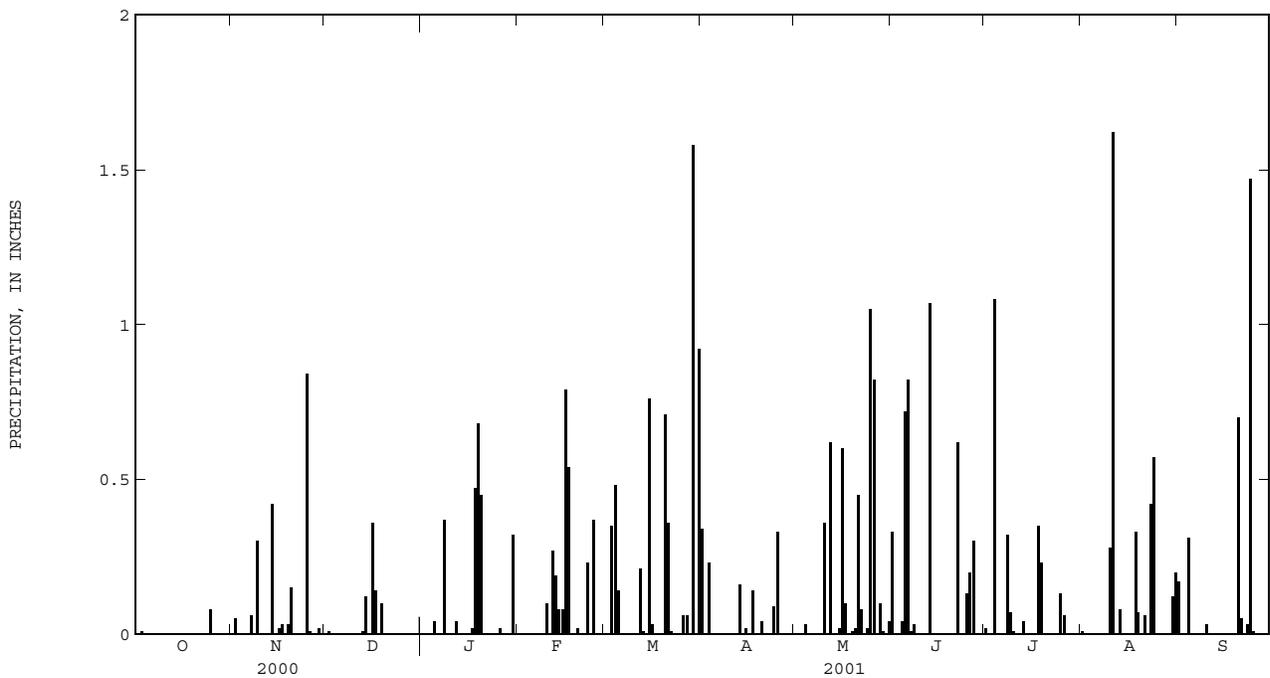
INSTRUMENTATION.--Tipping-bucket raingage and data collection platform.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.34	.00	.33	.02	.01	.17
2	.00	.05	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.01	.00	.00	.00	.00	.35	.23	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.48	.00	.03	.04	1.08	.00	.31
5	.00	.00	.00	.04	.00	.14	.00	.00	.72	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.82	.00	.00	.00
7	.00	.06	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
8	.00	.00	.00	.37	.00	.00	.00	.00	.03	.32	.00	.00
9	.00	.30	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00
10	.00	.00	.00	.00	.10	.00	.00	.36	.00	.01	.28	.03
11	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	1.62	.00
12	.00	.00	.00	.04	.27	.21	.00	.62	.00	.00	.00	.00
13	.00	.00	.01	.00	.19	.01	.16	.00	1.07	.04	.08	.00
14	.00	.42	.12	.00	.08	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.08	.76	.02	.02	.00	.00	.00	.00
16	.00	.02	.36	.00	.79	.03	.00	.60	.00	.00	.00	.00
17	.00	.03	.14	.02	.54	.00	.14	.10	.00	.00	.00	.00
18	.00	.00	.00	.47	.00	.00	.00	.00	.00	.35	.33	.00
19	.00	.03	.10	.68	.00	.00	.00	.01	.00	.23	.07	.00
20	.00	.15	.00	.45	.02	.71	.04	.02	.00	.00	.00	.70
21	.00	.00	.00	.00	.00	.36	.00	.45	.00	.00	.06	.05
22	.00	.00	.00	.00	.00	.01	.00	.08	.62	.00	.00	.00
23	.00	.00	.00	.00	.23	.00	.00	.00	.00	.00	.42	.03
24	.00	.00	.00	.00	.00	.00	.09	.02	.00	.00	.57	1.47
25	.08	.84	.00	.00	.37	.00	.33	1.05	.13	.13	.00	.01
26	.00	.01	.00	.02	.00	.06	.00	.82	.20	.06	.00	.00
27	.00	.00	.00	.00	.00	.06	.00	.00	.30	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00
29	.00	.02	.00	.00	---	1.58	.00	.01	.00	.00	.00	.00
30	.00	.00	.00	.32	---	.00	.00	.00	.00	.00	.12	.00
31	.00	---	.00	.00	---	.92	---	.04	---	.00	.20	---
TOTAL	0.09	1.93	0.74	2.41	2.67	5.68	1.35	4.33	4.27	2.31	3.76	2.77
MEAN	.00	.06	.02	.08	.10	.18	.05	.14	.14	.07	.12	.09
MAX	.08	.84	.36	.68	.79	1.58	.34	1.05	1.07	1.08	1.62	1.47
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

e Estimated.





Gaging station at Long Creek near Bessemer City, North Carolina.

## CAPE FEAR RIVER BASIN

02094770 SOUTH BUFFALO CREEK AT US 220 AT GREENSBORO, NC

LOCATION.--Lat 36°02'16", long 79°48'01", Guilford County, Hydrologic Unit 03030002, on left bank at downstream side of bridge on US 220, and 0.8 mi upstream from Ryan Creek in Greensboro.

DRAINAGE AREA.--15.4 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 730 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for period of record and current water year also occurred Sept. 16-20, 2001.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e5.0	3.0	3.1	2.9	5.2	e7.4	126	4.0	81	3.3	6.3	5.7
2	e4.7	3.1	3.2	3.0	4.4	6.3	34	3.8	17	6.2	3.6	2.2
3	4.3	3.5	3.0	3.1	3.8	10	43	3.7	5.4	4.6	2.7	.47
4	7.2	3.3	2.7	3.0	3.7	92	19	3.5	5.2	134	2.2	11
5	4.7	3.2	2.8	3.0	4.3	36	13	3.4	17	34	2.0	.71
6	3.2	2.9	2.9	3.1	3.9	12	11	3.3	116	5.1	2.0	.41
7	e3.5	4.0	3.3	3.0	3.7	8.8	9.4	3.1	26	3.6	1.9	.31
8	e3.5	5.5	2.9	23	3.8	7.2	8.0	3.2	7.8	28	1.8	.26
9	e3.2	22	3.1	9.2	4.3	6.1	7.2	3.6	5.7	6.9	1.8	.25
10	e3.3	8.9	2.9	4.2	10	5.3	6.7	7.7	4.0	14	20	1.8
11	e3.5	3.2	2.9	3.5	5.5	5.1	6.5	4.3	4.8	3.2	170	.60
12	e3.1	2.9	2.8	3.6	15	7.2	6.0	44	5.4	2.7	16	.26
13	e3.0	2.6	2.8	3.8	17	19	18	13	124	2.6	1.2	.22
14	e3.1	44	5.0	3.4	13	6.2	7.3	4.0	28	2.8	.76	.20
15	e3.2	8.1	4.0	3.4	15	78	5.9	3.4	4.7	2.4	.47	.18
16	e3.1	3.2	26	3.1	33	22	5.7	48	3.5	2.2	.40	.17
17	e3.1	3.9	41	2.9	311	11	5.8	20	3.0	2.1	.35	.16
18	3.0	2.8	7.0	38	19	8.2	5.4	5.6	2.9	25	28	.19
19	3.4	8.5	9.7	113	10	7.4	4.6	4.2	2.7	11	1.2	.18
20	3.3	11	7.7	111	e7.0	79	4.5	5.9	2.5	3.5	.49	22
21	3.3	3.2	5.3	20	e2.8	100	4.9	41	2.7	2.5	.33	2.1
22	3.4	2.2	4.4	11	e10	33	4.3	11	67	2.1	.27	.34
23	3.4	2.4	3.6	7.8	e8.2	14	4.4	8.6	34	2.0	.33	.25
24	3.6	2.3	3.3	6.4	e7.0	10	12	4.2	4.7	4.1	105	125
25	4.7	68	3.2	5.2	e46	8.1	75	12	8.5	28	.78	28
26	3.2	22	2.9	4.6	e9.6	8.3	9.0	255	18	129	.46	4.4
27	3.1	8.3	3.1	4.7	e4.8	6.4	6.4	9.5	50	161	.37	3.2
28	3.4	5.0	3.5	4.5	e2.8	6.2	5.2	13	5.3	8.1	.31	2.3
29	3.7	4.4	4.4	4.5	---	338	4.3	6.3	3.7	88	7.0	2.0
30	3.1	3.5	3.7	35	---	90	4.0	4.4	3.3	39	6.6	1.8
31	3.0	---	3.0	9.7	---	198	---	3.9	---	4.6	8.6	---
TOTAL	112.3	270.9	179.2	456.6	583.8	1246.2	476.5	560.6	663.8	765.6	393.22	216.66
MEAN	3.62	9.03	5.78	14.7	20.9	40.2	15.9	18.1	22.1	24.7	12.7	7.22
MAX	7.2	68	41	113	311	338	126	255	124	161	170	125
MIN	3.0	2.2	2.7	2.9	2.8	5.1	4.0	3.1	2.5	2.0	.27	.16
CFSM	.24	.59	.38	.96	1.35	2.61	1.03	1.17	1.44	1.60	.82	.47
IN.	.27	.65	.43	1.10	1.41	3.01	1.15	1.35	1.60	1.85	.95	.52

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

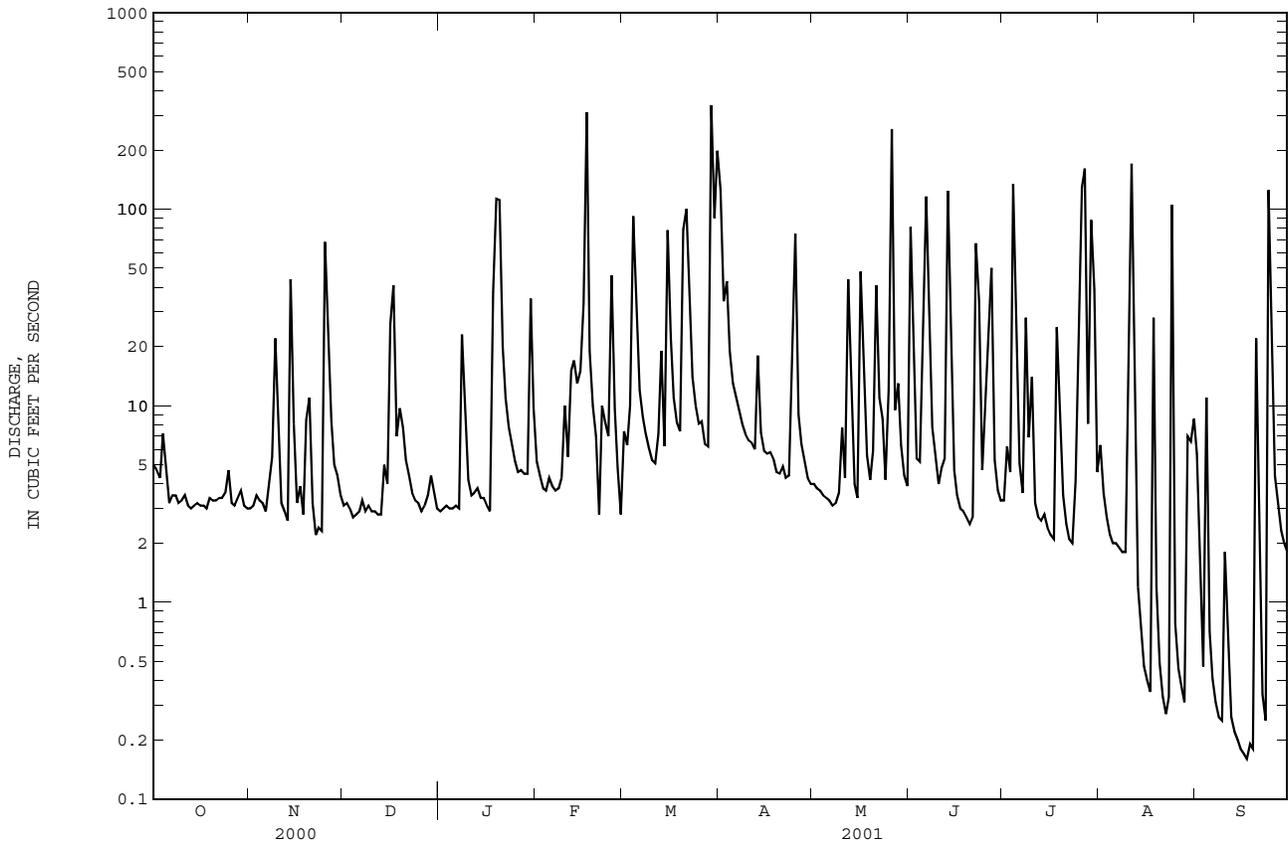
	1998	1999	2000	2001
MEAN	6.16	6.76	14.8	40.0
MAX	11.3	9.03	27.2	82.6
(WY)	2000	2001	1999	2000
MIN	3.59	3.00	5.78	14.7
(WY)	1999	1999	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1998 - 2001
ANNUAL TOTAL	12216.7	5925.38	
ANNUAL MEAN	33.4	16.2	25.9
HIGHEST ANNUAL MEAN			34.4
LOWEST ANNUAL MEAN			16.2
HIGHEST DAILY MEAN	1640	338	1640
LOWEST DAILY MEAN	2.2	.16	.16
ANNUAL SEVEN-DAY MINIMUM	2.8	.19	.19
INSTANTANEOUS PEAK FLOW		1250	NOT DETERMINED
INSTANTANEOUS PEAK STAGE		10.59	14.73
INSTANTANEOUS LOW FLOW		.16*	.16*
ANNUAL RUNOFF (CFSM)	2.17	1.05	1.68
ANNUAL RUNOFF (INCHES)	29.51	14.31	22.84
10 PERCENT EXCEEDS	55	35	44
50 PERCENT EXCEEDS	5.4	4.4	4.4
90 PERCENT EXCEEDS	2.9	2.0	1.7

e Estimated.

\* See REMARKS.

02094770 SOUTH BUFFALO CREEK AT US 220 AT GREENSBORO, NC--Continued



CAPE FEAR RIVER BASIN

02094770 SOUTH BUFFALO CREEK AT US 220 AT GREENSBORO, NC--Continued

PRECIPITATION RECORDS

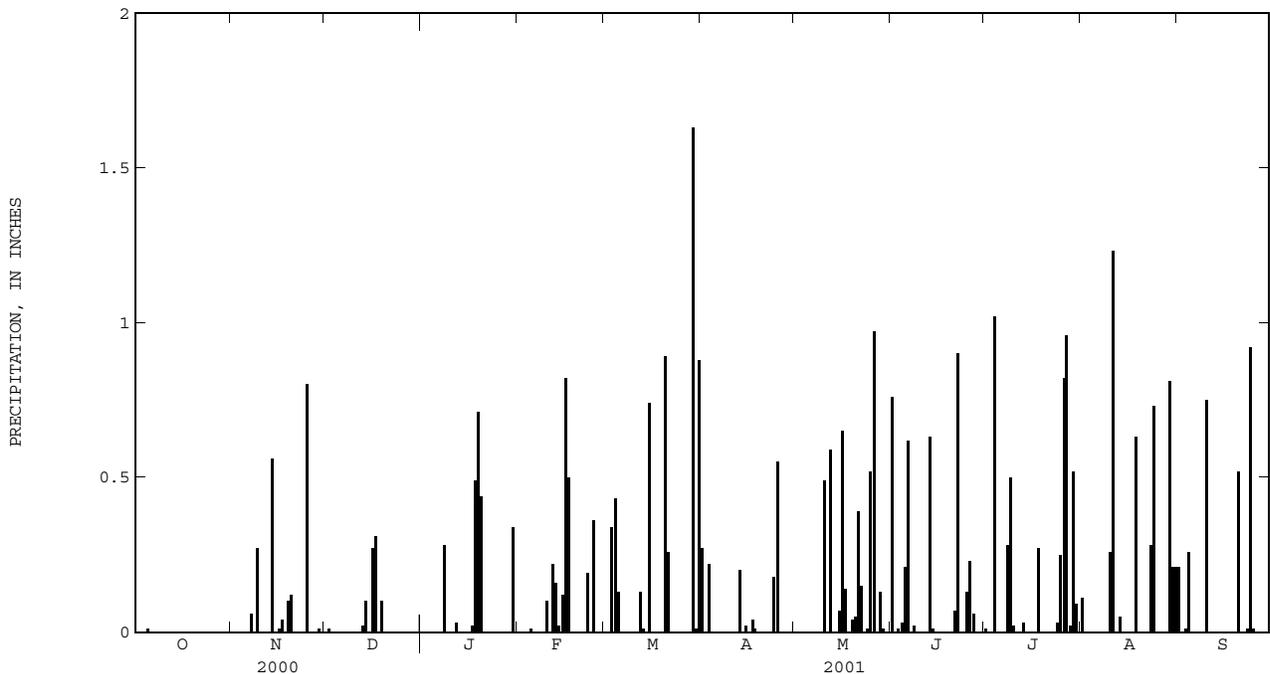
PERIOD OF RECORD.--August 1998 to current year. Records for August 1998 to December 1999 are unpublished and available in the USGS District Office in Raleigh, NC.

INSTRUMENTATION.--Tipping bucket raingage and data collection platform.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.27	.00	.76	.01	.11	.21
2	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.34	.22	.00	.01	.00	.00	.01
4	.00	.00	.00	.00	.00	.43	.00	.00	.03	1.02	.00	.26
5	.01	.00	.00	.00	.01	.13	.00	.00	.21	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.62	.00	.00	.00
7	.00	.06	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.28	.00	.00	.00	.00	.02	.28	.00	.00
9	.00	.27	.00	.00	.00	.00	.00	.00	.00	.50	.00	.00
10	.00	.00	.00	.00	.10	.00	.00	.49	.00	.02	.26	.75
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.23	.00
12	.00	.00	.00	.03	.22	.13	.00	.59	.00	.00	.00	.00
13	.00	.00	.02	.00	.16	.01	.20	.00	.63	.03	.05	.00
14	.00	.56	.10	.00	.02	.00	.00	.00	.01	.00	.00	.00
15	.00	.00	.00	.00	.12	.74	.02	.07	.00	.00	.00	.00
16	.00	.01	.27	.00	.82	.00	.00	.65	.00	.00	.00	.00
17	.00	.04	.31	.02	.50	.00	.04	.14	.00	.00	.00	.00
18	.00	.00	.00	.49	.00	.00	.01	.00	.00	.27	.63	.00
19	.00	.10	.10	.71	.00	.00	.00	.04	.00	.00	.00	.00
20	.00	.12	.00	.44	.00	.89	.00	.05	.00	.00	.00	.52
21	.00	.00	.00	.00	.00	.26	.00	.39	.07	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.15	.90	.00	.00	.00
23	.00	.00	.00	.00	.19	.00	.00	.00	.00	.00	.28	.01
24	.00	.00	.00	.00	.00	.00	.18	.01	.00	.03	.73	.92
25	.00	.80	.00	.00	.36	.00	.55	.52	.13	.25	.00	.01
26	.00	.00	.00	.00	.00	.00	.00	.97	.23	.82	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.06	.96	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.13	.00	.02	.00	.00
29	.00	.01	.00	.00	---	1.63	.00	.01	.00	.52	.81	.00
30	.00	.00	.00	.34	---	.01	.00	.00	.00	.09	.21	.00
31	.00	---	.00	.00	---	.88	---	.00	---	.00	.21	---
TOTAL	0.01	1.97	0.81	2.31	2.50	5.45	1.49	4.21	3.68	4.82	4.52	2.69





Gaging station at Long Creek near Paw Creek, North Carolina.

## CAPE FEAR RIVER BASIN

02094775 RYAN CREEK BELOW US HIGHWAY 220 AT GREENSBORO, NC

LOCATION.--Lat 36°01'51", long 79°47'56", Guilford County, Hydrologic Unit 03030002, on left bank 0.6 mi upstream of South Buffalo Creek, and .2 mi below US Highway 220 in Greensboro.

DRAINAGE AREA.--4.12 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 730 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

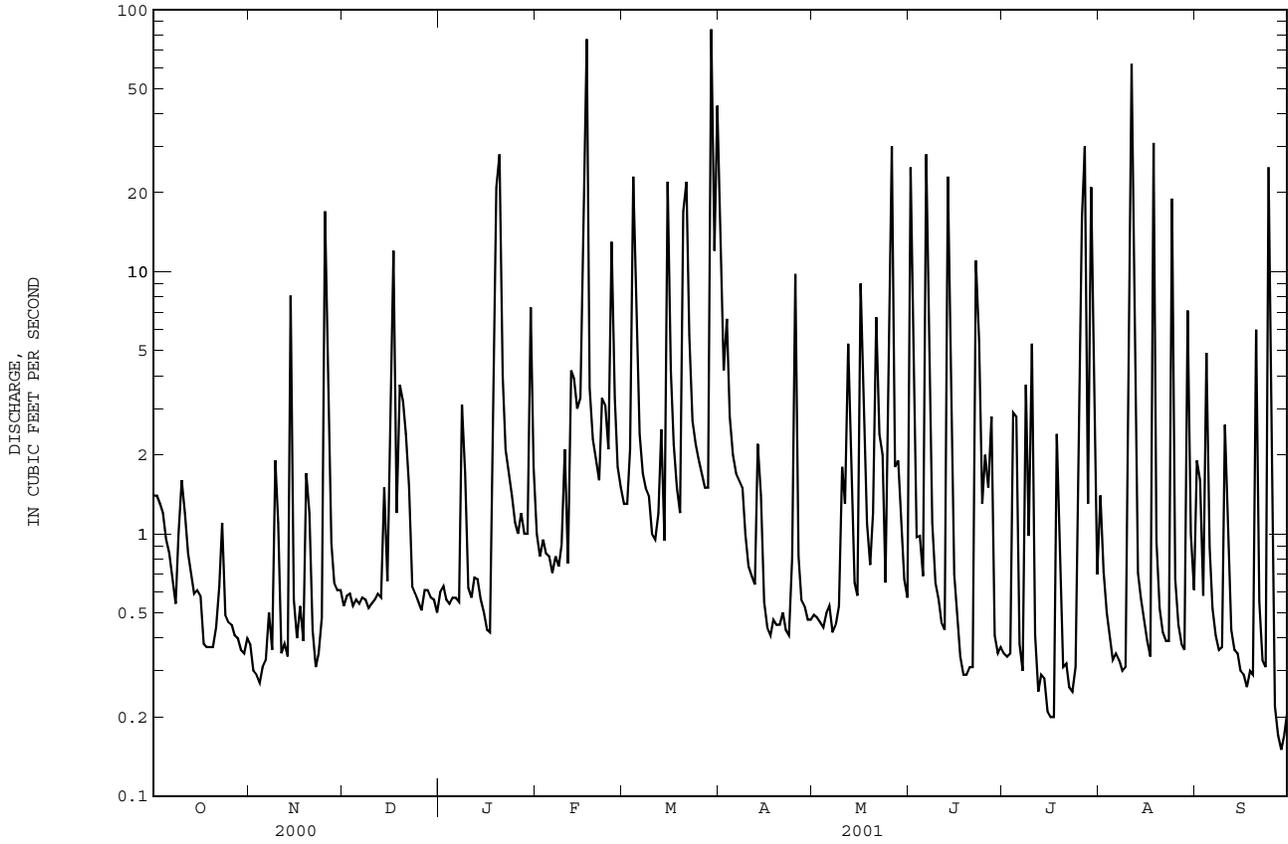
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	.38	.53	.60	1.0	1.3	19	.49	25	.35	1.4	1.9
2	1.4	.30	.58	.63	.82	1.3	4.2	.48	3.4	.34	.72	1.6
3	1.3	.29	.59	.56	.95	2.1	6.6	.46	.97	.35	.50	.58
4	1.2	.27	.53	.54	.84	23	2.8	.44	.98	2.9	.40	4.9
5	.95	.31	.56	.57	.82	7.2	2.0	.50	.69	2.8	.33	.89
6	.84	.33	.54	.57	.71	2.4	1.7	.53	28	.38	.35	.52
7	.67	.50	.57	.55	.82	1.7	1.6	.42	4.7	.30	.33	.41
8	.54	.36	.56	3.1	.75	1.5	1.5	.45	1.1	3.7	.30	.36
9	1.0	1.9	.52	1.7	.91	1.4	1.0	.53	.65	.98	.31	.37
10	1.6	1.1	.54	.62	2.1	1.0	.75	1.8	.56	5.3	3.9	2.6
11	1.2	.35	.56	.57	.77	.95	.69	1.3	.46	.41	62	1.3
12	.84	.38	.59	.68	4.2	1.2	.64	5.3	.43	.25	7.1	.43
13	.71	.34	.57	.67	3.9	2.5	2.2	2.1	23	.29	.71	.36
14	.59	8.1	1.5	.56	3.0	.94	1.4	.65	4.7	.28	.57	.35
15	.61	.56	.66	.50	3.3	22	.55	.58	.70	.21	.47	.30
16	.58	.40	3.4	.43	9.6	4.2	.44	9.0	.49	.20	.39	.29
17	.38	.53	12	.42	77	2.2	.41	3.8	.34	.20	.34	.26
18	.37	.39	1.2	4.6	3.6	1.5	.47	1.1	.29	2.4	31	.30
19	.37	1.7	3.7	21	2.3	1.2	.45	.76	.29	.95	.94	.29
20	.37	1.2	3.2	28	1.9	17	.45	1.2	.31	.31	.52	6.0
21	.44	.43	2.4	4.0	1.6	22	.50	6.7	.31	.32	.42	.55
22	.63	.31	1.5	2.1	3.3	5.7	.43	2.4	11	.26	.39	.33
23	1.1	.35	.63	1.7	3.1	2.7	.41	2.0	5.5	.25	.39	.31
24	.49	.48	.59	1.4	2.1	2.2	.81	.65	1.3	.31	19	25
25	.46	17	.55	1.1	13	1.9	9.8	2.9	2.0	2.5	.67	5.6
26	.45	3.7	.51	1.0	3.3	1.7	.82	30	1.5	16	.45	.22
27	.41	.92	.61	1.2	1.8	1.5	.56	1.8	2.8	30	.38	.17
28	.40	.65	.61	1.0	1.5	1.5	.53	1.9	.41	1.3	.36	.15
29	.36	.61	.57	1.0	---	84	.47	1.1	.35	21	7.1	.17
30	.35	.61	.56	7.3	---	12	.47	.67	.37	6.8	1.0	.21
31	.40	---	.50	1.8	---	43	---	.57	---	.70	.61	---
TOTAL	22.41	44.75	41.93	90.47	148.99	274.79	63.65	82.58	122.60	102.34	143.35	56.72
MEAN	.72	1.49	1.35	2.92	5.32	8.86	2.12	2.66	4.09	3.30	4.62	1.89
MAX	1.6	17	12	28	77	84	19	30	28	30	62	25
MIN	.35	.27	.50	.42	.71	.94	.41	.42	.29	.20	.30	.15
CFSM	.18	.36	.33	.71	1.29	2.15	.51	.65	.99	.80	1.12	.46
IN.	.20	.40	.38	.82	1.35	2.48	.57	.75	1.11	.92	1.29	.51

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

MEAN	1.19	1.09	2.38	5.54	4.10	5.88	3.74	1.85	3.72	2.86	3.40	10.7
MAX	2.55	1.49	3.65	9.72	5.32	8.86	5.27	2.66	6.31	4.39	4.62	29.9
(WY)	2000	2001	1999	1999	2001	2001	2000	2001	2000	2000	2001	2000
MIN	.31	.42	1.35	2.92	2.13	2.74	2.12	1.05	.76	.89	1.66	1.14
(WY)	1999	1999	2001	2001	1999	1999	2001	1999	1999	1999	1998	1998

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	FOR 1999 CALENDAR YEAR	FOR 1998 CALENDAR YEAR
ANNUAL TOTAL	2129.33	1194.58		
ANNUAL MEAN	5.82	3.27		
HIGHEST ANNUAL MEAN			4.17	2000
LOWEST ANNUAL MEAN			6.03	1999
HIGHEST DAILY MEAN	393	Sep 15	3.20	1999
LOWEST DAILY MEAN				
HIGHEST DAILY MEAN		84	Mar 29	393
LOWEST DAILY MEAN	.27	Nov 4	.15	Sep 28
ANNUAL SEVEN-DAY MINIMUM	.33	Oct 31	.26	Jul 11
MAXIMUM PEAK FLOW			567	Aug 11
MAXIMUM PEAK STAGE			4.83	Aug 11
INSTANTANEOUS LOW FLOW			.13	Sep 28
ANNUAL RUNOFF (CFSM)	1.41		.79	
ANNUAL RUNOFF (INCHES)	19.23		10.79	13.75
10 PERCENT EXCEEDS	10		6.6	7.5
50 PERCENT EXCEEDS	1.3		.71	.97
90 PERCENT EXCEEDS	.52		.33	.25

02094775 RYAN CREEK BELOW US HIGHWAY 220 AT GREENSBORO, NC--Continued



CAPE FEAR RIVER BASIN

02094775 RYAN CREEK BELOW US 220 AT GREENSBORO, NC--Continued

PRECIPITATION RECORDS

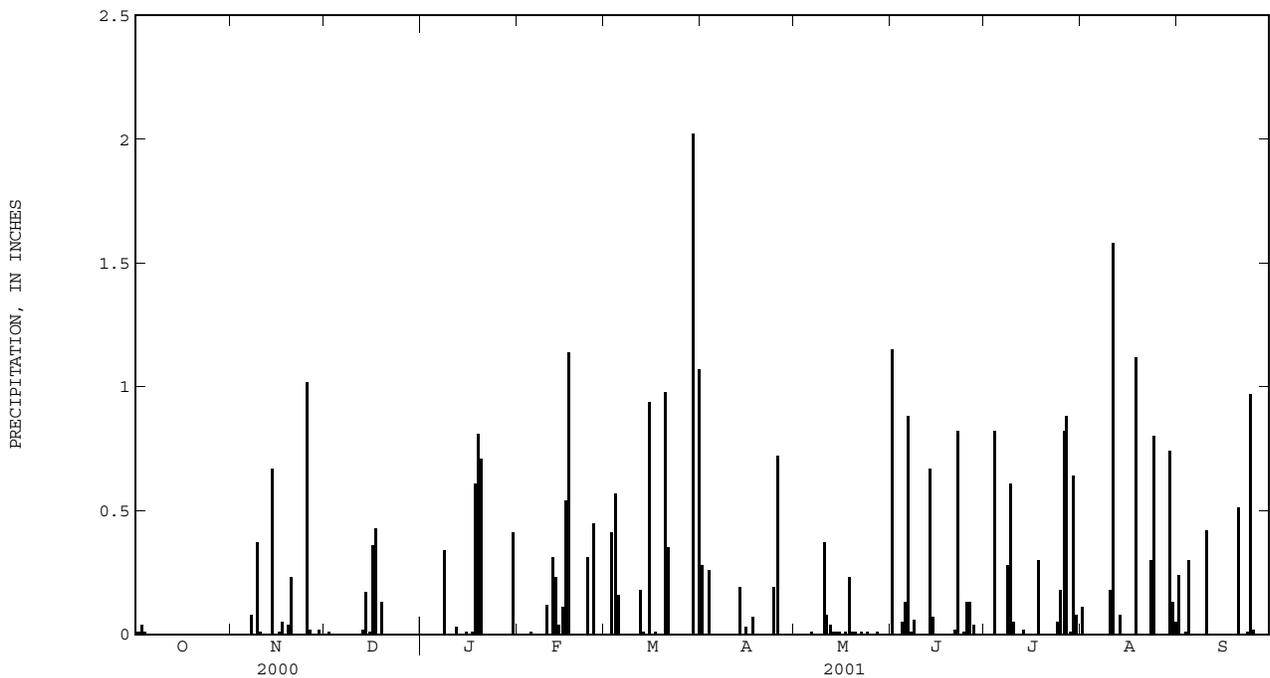
PERIOD OF RECORD.--August 1998 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and data collection platform.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.00	.00	.00	.00	.00	.28	.00	1.15	.00	.11	.24
2	.01	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.04	.00	.00	.00	.00	.41	.26	.00	.00	.00	.00	.01
4	.01	.00	.00	.00	.00	.57	.00	.00	.05	.82	.00	.30
5	.00	.00	.00	.00	.01	.16	.00	.00	.13	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.01	.88	.00	.00	.00
7	.00	.08	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
8	.00	.00	.00	.34	.00	.00	.00	.00	.06	.28	.00	.00
9	.00	.37	.00	.00	.00	.00	.00	.00	.00	.61	.00	.00
10	.00	.01	.00	.00	.12	.00	.00	.37	.00	.05	.18	.42
11	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00	1.58	.00
12	.00	.00	.00	.03	.31	.18	.00	.04	.00	.00	.00	.00
13	.00	.00	.02	.00	.23	.01	.19	.01	.67	.02	.08	.00
14	.00	.67	.17	.00	.04	.00	.00	.01	.07	.00	.00	.00
15	.00	.00	.01	.01	.11	.94	.03	.01	.00	.11	.00	.00
16	.00	.01	.36	.00	.54	.00	.00	.00	.00	.00	.00	.00
17	.00	.05	.43	.01	1.14	.01	.07	.01	.00	.00	.00	.00
18	.00	.00	.00	.61	.00	.00	.00	.23	.00	.30	1.12	.00
19	.00	.04	.13	.81	.00	.00	.00	.01	.00	.00	.00	.00
20	.00	.23	.00	.71	.00	.98	.00	.01	.00	.00	.00	.51
21	.00	.00	.00	.00	.00	.35	.00	.00	.02	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.01	.82	.00	.00	.00
23	.00	.00	.00	.00	.31	.00	.00	.00	.00	.00	.30	.01
24	.00	.00	.00	.00	.00	.00	.19	.01	.01	.05	.80	.97
25	.00	1.02	.00	.00	.45	.00	.72	.00	.13	.18	.00	.02
26	.00	.02	.00	.00	.00	.00	.00	.00	.13	.82	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.01	.04	.88	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
29	.00	.02	.00	.00	---	2.02	.00	.00	.00	.64	.74	.00
30	.00	.00	.00	.41	---	.00	.00	.00	.00	.08	.13	.00
31	.00	---	.00	.00	---	1.07	---	.00	---	.00	.05	---
TOTAL	0.07	2.52	1.13	2.93	3.26	6.70	1.74	0.82	4.17	4.74	5.09	2.48





Gaging station at North Buffalo Creek at Westover Terrace at Greensboro, North Carolina.

## CAPE FEAR RIVER BASIN

02095000 SOUTH BUFFALO CREEK NEAR GREENSBORO, NC

LOCATION.--Lat 36°02'36", long 79°43'33", Guilford County, Hydrologic Unit 03030002, on left bank at upstream side of bridge on Secondary Road 3000, 3.8 mi east of Greensboro, 4.0 mi downstream from Run Creek.

DRAINAGE AREA.--34.0 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1928 to September 1958. August 1998 to current year. Prior to October 1952, published as "Buffalo Creek near Greensboro".

REVISIONS.--WSP 972: 1928-30, 1932-33, 1934(M), 1935-37, 1939, 1940(M). WSP 1303: 1934, 1938, 1940-42, monthly and yearly runoff. WSP 1383: Drainage area, 1931, 1941(M).

GAGE.--Water-stage recorder. Elevation of gage is 700 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated discharges, which are poor. Maximum discharge 10,000 ft<sup>3</sup>/s July 15, 1949, gage-height 11.54 ft, from rating curve extended above 2,000 ft<sup>3</sup>/s based on contracted-opening measurement, site and datum then in use. Minimum discharge for period of record also occurred Aug 8, 1999.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	5.7	7.1	e6.4	14	17	465	8.2	207	3.9	26	34
2	10	5.7	7.1	e6.6	11	15	83	7.9	48	6.2	14	23
3	9.6	6.1	7.1	e6.8	9.5	19	86	7.6	14	6.6	8.0	6.7
4	12	6.2	6.3	e6.6	9.0	236	43	7.0	11	251	6.3	41
5	10	5.7	6.4	e6.6	9.4	88	30	6.7	21	115	5.4	11
6	8.5	5.7	6.4	e7.0	9.6	32	25	7.1	153	11	4.9	5.7
7	7.4	7.8	6.8	e6.6	8.4	23	22	5.9	99	7.0	4.8	4.6
8	6.3	14	6.5	36	8.3	19	20	6.0	15	49	4.3	4.0
9	6.4	36	6.3	19	9.9	16	18	6.6	10	18	4.2	5.6
10	7.6	26	6.2	e9.0	20	14	17	29	8.0	104	29	60
11	7.3	9.4	6.4	7.7	11	13	15	15	6.6	8.8	322	20
12	7.6	7.1	6.5	7.8	28	14	15	79	9.3	5.2	83	5.7
13	6.7	6.8	6.5	8.9	37	34	35	45	154	4.8	18	4.3
14	6.4	93	14	7.2	30	15	18	9.0	113	4.7	13	3.9
15	6.4	19	9.7	7.4	31	203	13	7.1	13	3.9	7.1	3.8
16	6.5	9.0	35	6.9	49	57	13	110	8.7	3.3	5.5	3.2
17	6.3	9.5	110	6.4	941	28	12	55	5.9	3.2	4.7	3.1
18	6.1	8.1	17	62	52	20	14	15	5.4	39	152	3.3
19	6.0	16	19	236	29	17	11	9.5	4.8	23	16	3.3
20	6.4	25	e16	315	22	153	9.9	13	4.4	5.6	8.5	62
21	6.2	11	e12	49	20	e358	11	68	9.3	4.1	5.7	17
22	5.7	6.9	e9.8	26	36	83	9.6	29	76	3.1	4.6	5.4
23	5.7	6.6	e8.0	19	34	34	9.4	22	110	2.8	4.4	4.0
24	6.1	6.9	e7.4	15	26	26	13	9.4	11	5.7	205	203
25	7.4	150	e7.2	13	118	21	148	26	19	29	12	61
26	7.0	52	e6.4	11	41	19	20	599	28	222	7.0	9.9
27	5.8	18	6.9	11	23	14	13	26	67	421	5.6	6.5
28	6.2	10	7.3	10	19	14	11	26	8.7	28	4.8	4.8
29	6.1	8.7	11	9.7	---	711	10	16	5.4	107	35	4.1
30	5.3	7.9	e8.2	68	---	469	8.2	10	4.3	111	18	3.6
31	5.7	---	e6.8	22	---	443	---	8.0	---	15	37	---
TOTAL	221.7	599.8	397.3	1029.6	1656.1	3225	1218.1	1289.0	1249.8	1621.9	1075.8	627.5
MEAN	7.15	20.0	12.8	33.2	59.1	104	40.6	41.6	41.7	52.3	34.7	20.9
MAX	12	150	110	315	941	711	465	599	207	421	322	203
MIN	5.3	5.7	6.2	6.4	8.3	13	8.2	5.9	4.3	2.8	4.2	3.1
CFSM	.21	.60	.38	.99	1.76	3.10	1.21	1.24	1.24	1.56	1.03	.62
IN.	.25	.66	.44	1.14	1.83	3.57	1.35	1.43	1.38	1.80	1.19	.69

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2001,® BY WATER YEAR (WY)

MEAN	22.7	28.8	38.0	58.3	65.6	60.0	49.8	26.3	27.3	33.9	22.7	38.8
MAX	109	109	108	179	135	182	127	71.4	98.3	307	79.5	218
(WY)	1930	1949	1933	1937	1953	1952	1936	1946	2000	1949	1939	2000
MIN	1.82	3.53	6.86	7.87	14.0	22.5	11.9	6.53	4.40	2.64	2.33	2.26
(WY)	1931	1932	1934	1942	1931	1930	1942	1936	1933	1932	1932	1930

## SUMMARY STATISTICS

## FOR 2000 CALENDAR YEAR

## FOR 2001 WATER YEAR

## WATER YEARS 1928 - 2001®

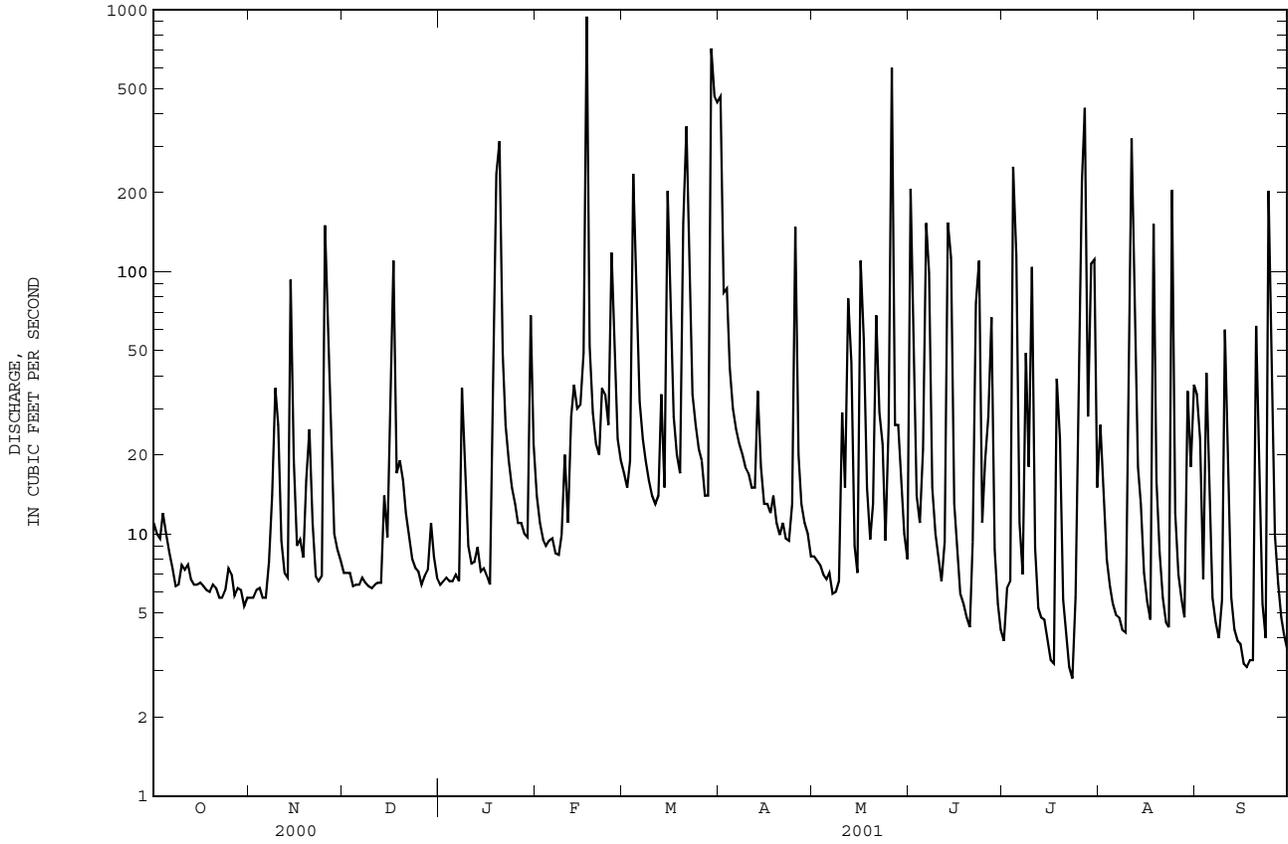
ANNUAL TOTAL	20935.3	14211.6	
ANNUAL MEAN	57.2	38.9	39.0
HIGHEST ANNUAL MEAN			73.2
LOWEST ANNUAL MEAN			21.0
HIGHEST DAILY MEAN	1940	Sep 15	5460
LOWEST DAILY MEAN	2.0	Jun 12	.50
ANNUAL SEVEN-DAY MINIMUM	3.4	Jun 7	.80
MAXIMUM PEAK FLOW			10000
MAXIMUM PEAK STAGE			13.13
INSTANTANEOUS LOW FLOW			2.6
ANNUAL RUNOFF (CFSM)	1.70	1.16	.57*
ANNUAL RUNOFF (INCHES)	23.18	15.73	15.76
10 PERCENT EXCEEDS	128	87	73
50 PERCENT EXCEEDS	13	11	14
90 PERCENT EXCEEDS	5.9	5.4	4.6

e Estimated.

® See PERIOD OF RECORD.

\* See REMARKS.

02095000 SOUTH BUFFALO CREEK NEAR GREENSBORO, NC--Continued



CAPE FEAR RIVER BASIN

02095000 SOUTH BUFFALO CREEK NEAR GREENSBORO, NC--Continued

PRECIPITATION RECORDS

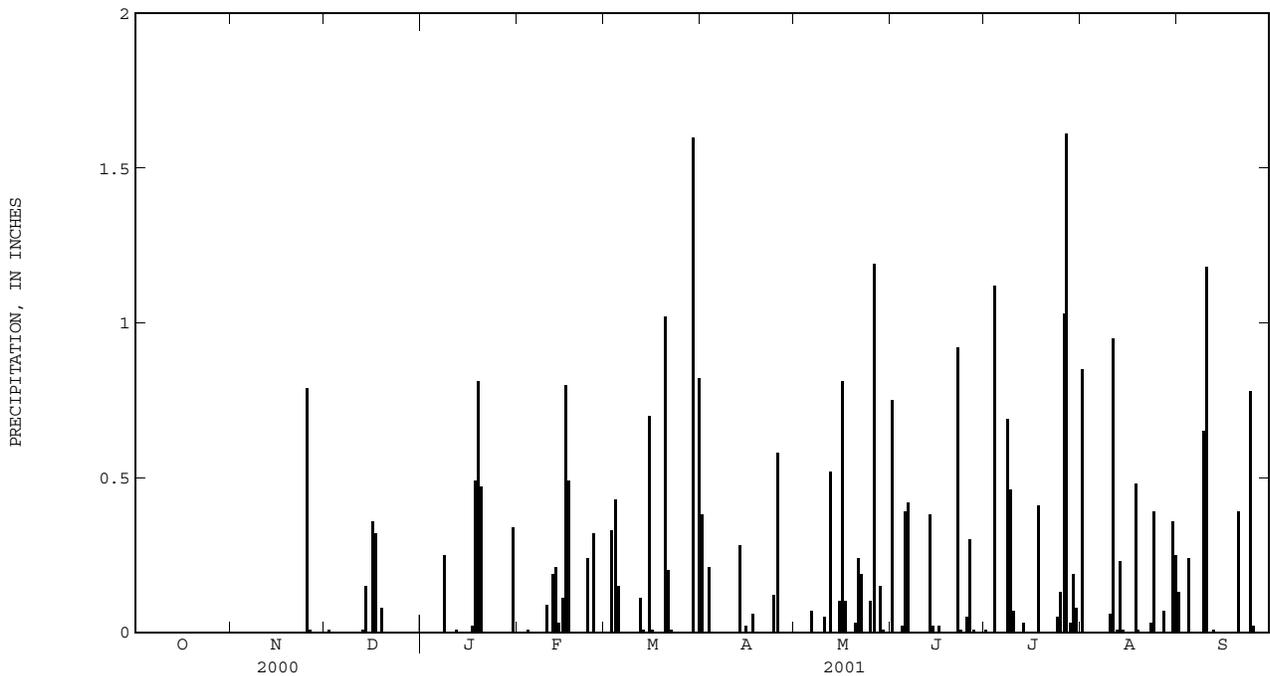
PERIOD OF RECORD.--August 1998 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and data collection platform.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.38	.00	.75	.01	.85	.13
2	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.33	.21	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.01	.43	.00	.00	.02	1.12	.00	.24
5	.00	.00	.00	.00	.00	.15	.00	.00	.39	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.07	.42	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.25	.00	.00	.00	.00	.00	.69	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.46	.00	.65
10	.00	.00	.00	.00	.09	.00	.00	.05	.00	.07	.06	1.18
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.95	.00
12	.00	.00	.00	.01	.19	.11	.00	.52	.00	.00	.01	.01
13	.00	.00	.01	.00	.21	.01	.28	.00	.38	.03	.23	.00
14	.00	.00	.15	.00	.03	.00	.00	.00	.02	.00	.01	.00
15	.00	.00	.00	.00	.11	.70	.02	.10	.00	.11	.00	.00
16	.00	.00	.36	.00	.80	.01	.00	.81	.02	.00	.00	.00
17	.00	.00	.32	.02	.49	.00	.06	.10	.00	.00	.00	.00
18	.00	.00	.00	.49	.00	.00	.00	.00	.00	.41	.48	.00
19	.00	.00	.08	.81	.00	.00	.00	.00	.00	.00	.01	.00
20	.00	.00	.00	.47	.00	1.02	.00	.03	.00	.00	.00	.39
21	.00	.00	.00	.00	.00	.20	.00	.24	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.01	.00	.19	.92	.00	.00	.00
23	.00	.00	.00	.00	.24	.00	.00	.00	.01	.00	.03	.00
24	.00	.00	.00	.00	.00	.00	.12	.00	.00	.05	.39	.78
25	.00	.79	.00	.00	.32	.00	.58	.10	.05	.13	.00	.02
26	.00	.01	.00	.00	.00	.00	.00	1.19	.30	1.03	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.01	1.61	.07	.00
28	.00	.00	.00	.00	.00	.00	.00	.15	.00	.03	.00	.00
29	.00	.00	.00	.00	---	1.60	.00	.01	.00	.19	.00	.00
30	.00	.00	.00	.34	---	.00	.00	.00	.00	.08	.36	.00
31	.00	---	.00	.00	---	.82	---	.00	---	.00	.25	---
TOTAL	0.00	0.80	0.93	2.39	2.49	5.39	1.65	3.56	3.29	5.91	3.70	3.40





Gaging station at Cape Fear River at William O. Huske Lock near Tarheel, North Carolina.

CAPE FEAR RIVER BASIN

02095181 NORTH BUFFALO CREEK AT WESTOVER TERRACE AT GREENSBORO, NC

LOCATION.--Lat 36°04'39", long 79°48'48", Guilford County, Hydrologic Unit 03030002, on right bank at termination of Westover Terrace in Greensboro, 0.7 mi above Southern Railway.

DRAINAGE AREA.--9.55 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 736.25 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for current water year also occurred Sep. 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	1.9	3.3	3.6	4.1	4.7	109	3.6	52	11	5.6	9.4
2	3.4	2.0	3.2	3.7	4.2	4.6	18	3.3	8.0	5.8	3.1	5.0
3	3.4	1.9	3.3	3.3	4.0	9.2	25	3.1	4.2	2.8	2.4	1.5
4	3.4	2.0	3.4	3.5	3.7	60	9.3	3.3	4.2	e206	2.3	13
5	3.3	2.1	3.4	3.5	3.9	21	7.1	3.3	5.0	20	2.2	2.0
6	3.3	2.2	3.4	3.4	3.7	7.0	6.5	2.9	17	4.5	2.1	1.7
7	3.0	3.3	3.5	3.4	3.8	5.4	6.0	2.8	6.6	3.6	2.0	1.2
8	2.9	3.0	3.6	17	3.7	4.9	5.6	2.8	3.7	24	1.8	1.3
9	2.8	13	3.5	4.0	3.9	4.7	5.3	2.9	3.6	5.5	1.8	1.2
10	2.7	3.1	3.5	3.2	8.4	4.5	5.1	8.3	3.2	55	3.3	2.8
11	2.7	1.5	3.6	3.2	3.8	4.4	5.0	3.3	3.2	4.0	54	1.8
12	2.9	1.6	3.9	3.3	11	6.9	4.8	20	3.3	3.1	8.1	1.1
13	2.6	1.8	3.9	3.3	8.3	10	8.3	5.6	59	4.0	4.1	1.1
14	2.6	28	7.2	3.1	9.8	5.0	4.7	3.0	9.0	3.1	2.5	1.3
15	2.4	2.0	3.5	3.5	10	53	4.9	2.9	3.6	2.7	1.8	1.4
16	2.5	1.7	22	3.2	e41	10	4.6	44	3.1	2.7	1.7	1.2
17	2.7	2.5	22	3.1	e166	6.4	5.3	16	2.8	3.1	5.8	1.3
18	2.6	1.9	4.7	31	9.5	5.4	4.4	3.9	2.6	63	9.7	1.3
19	2.3	6.1	8.3	82	6.2	5.0	4.2	3.2	2.6	6.9	4.2	1.4
20	2.2	3.2	4.7	73	5.4	60	4.3	6.3	2.7	3.1	1.7	25
21	2.3	1.7	3.5	9.6	5.0	72	4.4	30	3.0	2.7	1.4	4.9
22	2.4	2.1	3.4	5.6	13	17	4.2	7.5	55	2.5	1.2	1.1
23	2.5	2.0	3.3	4.9	8.2	8.1	4.4	5.1	14	2.4	1.3	1.1
24	2.6	2.1	3.5	4.5	5.4	6.6	12	2.9	3.2	2.6	47	90
25	2.4	50	3.4	4.2	36	6.2	46	7.0	6.6	22	2.0	7.9
26	2.6	8.7	3.3	4.2	7.7	5.9	4.7	e135	e12	117	1.5	1.0
27	2.4	4.1	3.5	4.4	5.2	5.5	3.8	5.8	e48	168	1.4	.80
28	2.3	3.5	3.7	4.5	5.0	5.4	3.6	8.7	4.0	5.8	1.4	.78
29	1.9	3.3	3.5	4.6	---	e199	3.3	4.6	3.4	21	1.4	.83
30	1.9	3.4	3.4	26	---	33	3.4	3.8	2.8	13	2.2	1.2
31	2.2	---	3.3	4.9	---	101	---	3.6	---	3.3	3.3	---
TOTAL	82.7	165.7	155.7	334.7	399.9	751.8	337.2	358.5	351.4	794.2	184.3	185.61
MEAN	2.67	5.52	5.02	10.8	14.3	24.3	11.2	11.6	11.7	25.6	5.95	6.19
MAX	3.5	50	22	82	166	199	109	135	59	206	54	90
MIN	1.9	1.5	3.2	3.1	3.7	4.4	3.3	2.8	2.6	2.4	1.2	.78
CFSM	.28	.58	.53	1.13	1.50	2.54	1.18	1.21	1.23	2.68	.62	.65
IN.	.32	.65	.61	1.30	1.56	2.93	1.31	1.40	1.37	3.09	.72	.72

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

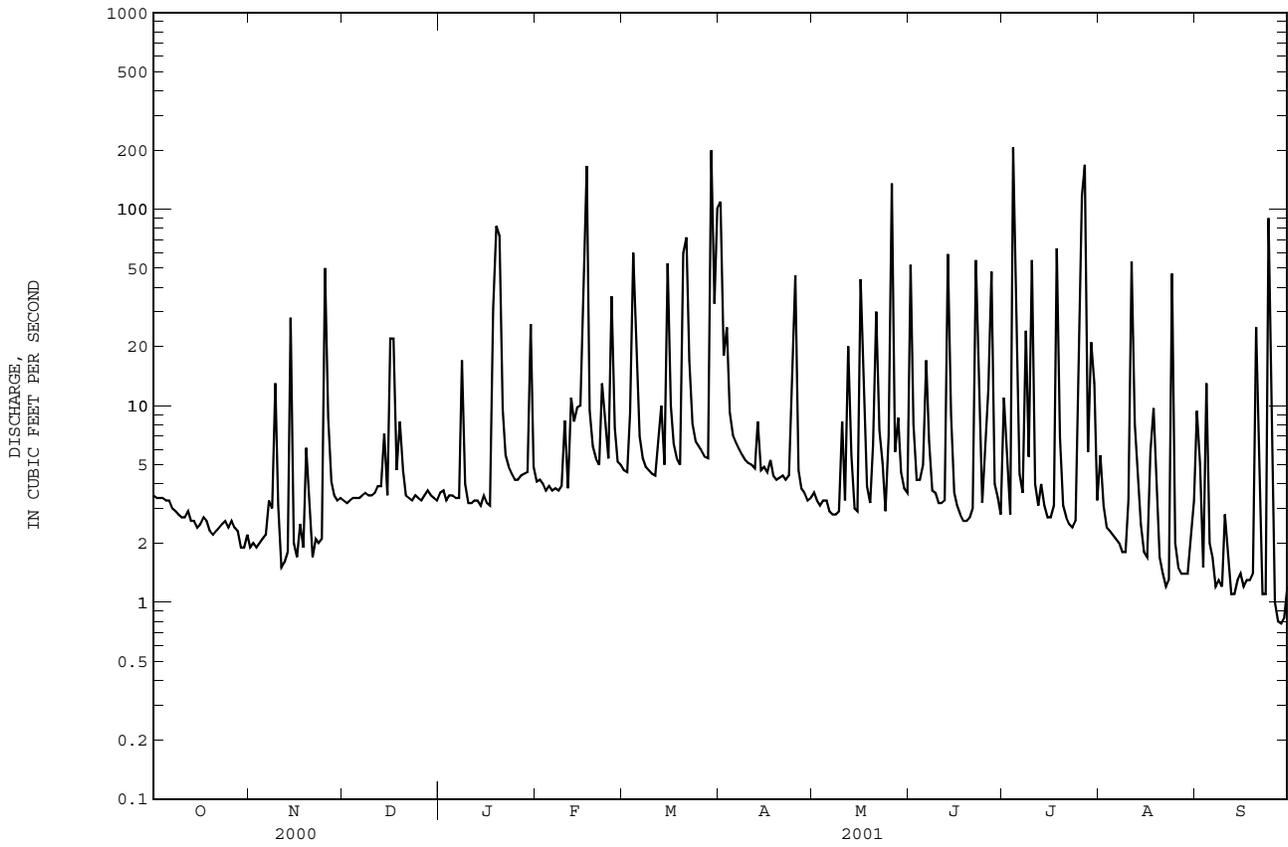
	4.44	5.43	5.89	11.7	13.7	17.8	14.9	9.40	15.2	15.2	11.2	27.0
MEAN	4.44	5.43	5.89	11.7	13.7	17.8	14.9	9.40	15.2	15.2	11.2	27.0
MAX	6.22	5.52	6.76	12.6	14.3	24.3	18.6	11.6	26.6	25.6	15.6	46.4
(WY)	2000	2001	2000	2000	2001	2001	2000	2001	2000	2001	2000	2000
MIN	2.67	5.34	5.02	10.8	13.1	11.3	11.2	7.23	7.37	9.70	5.95	6.19
(WY)	2001	2000	2001	2001	2000	2000	2001	2000	1999	1999	2001	2001

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1999 - 2001

ANNUAL TOTAL	5296.2		4101.71			
ANNUAL MEAN	14.5		11.2		13.1	
HIGHEST ANNUAL MEAN					14.9	
LOWEST ANNUAL MEAN					11.2	
HIGHEST DAILY MEAN	371	Sep 15	206	Jul 4	371	Sep 15 2000
LOWEST DAILY MEAN	1.3	Aug 26	.78	Sep 28	.58	Aug 12 1999
ANNUAL SEVEN-DAY MINIMUM	1.8	Aug 20	1.2	Sep 12	.97	Aug 2 1999
MAXIMUM PEAK STAGE			11.71	Jul 4	13.00	Sep 15 2000
INSTANTANEOUS LOW FLOW			.70*	Sep 27	.50	Aug 12 1999
ANNUAL RUNOFF (CFSM)	1.52		1.18		1.37	
ANNUAL RUNOFF (INCHES)	20.63		15.98		18.60	
10 PERCENT EXCEEDS	35		23		34	
50 PERCENT EXCEEDS	3.6		3.7		3.5	
90 PERCENT EXCEEDS	2.0		1.8		1.5	

e Estimated.  
\* See REMARKS.

02095181 NORTH BUFFALO CREEK AT WESTOVER TERRACE AT GREENSBORO, NC--Continued



CAPE FEAR RIVER BASIN

02095181 NORTH BUFFALO CREEK AT WESTOVER TERRACE AT GREENSBORO, NC--Continued

PRECIPITATION RECORDS

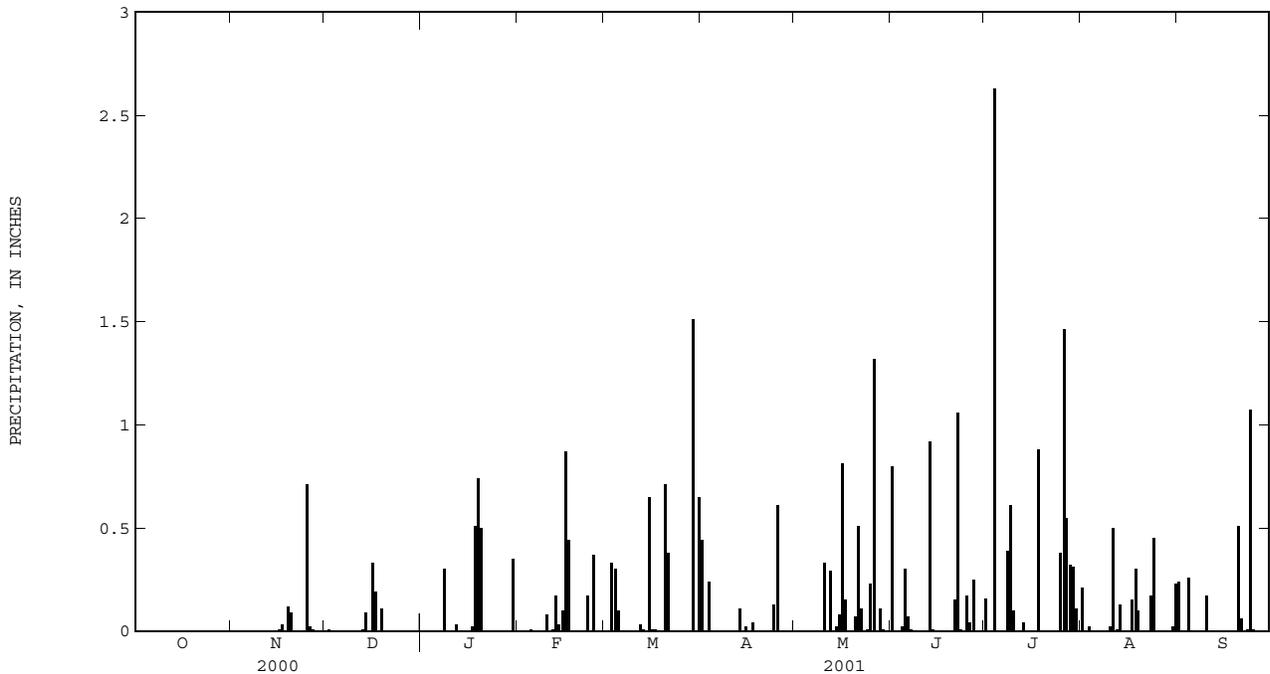
PERIOD OF RECORD.--June 1999 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and data collection platform.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.44	.00	.80	.16	.21	.24
2	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.33	.24	.00	.00	.00	.02	.00
4	.00	.00	.00	.00	.00	.30	.00	.00	.02	2.63	.00	.26
5	.00	.00	.00	.00	.01	.10	.00	.00	.30	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
8	.00	.00	.00	.30	.00	.00	.00	.00	.00	.39	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.61	.00	.00
10	.00	.00	.00	.00	.08	.00	.00	.33	.00	.10	.02	.17
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.50	.00
12	.00	.00	.00	.03	.01	.03	.00	.29	.00	.00	.01	.00
13	.00	.00	.01	.00	.17	.01	.11	.00	.92	.04	.13	.00
14	.00	.00	.09	.00	.03	.00	.00	.02	.01	.00	.00	.00
15	.00	.00	.00	.00	.10	.65	.02	.08	.00	.00	.00	.00
16	.00	.01	.33	.00	.87	.01	.00	.81	.00	.00	.00	.00
17	.00	.03	.19	.02	.44	.01	.04	.15	.00	.00	.15	.00
18	.00	.00	.00	.51	.00	.00	.00	.00	.00	.88	.30	.00
19	.00	.12	.11	.74	.00	.00	.00	.00	.00	.00	.10	.00
20	.00	.09	.00	.50	.00	.71	.00	.07	.00	.00	.00	.51
21	.00	.00	.00	.00	.00	.38	.00	.51	.15	.00	.00	.06
22	.00	.00	.00	.00	.00	.00	.00	.11	1.06	.00	.00	.00
23	.00	.00	.00	.00	.17	.00	.00	.00	.01	.00	.17	.01
24	.00	.00	.00	.00	.00	.00	.13	.01	.00	.00	.45	1.07
25	.00	.71	.00	.00	.37	.00	.61	.23	.17	.38	.00	.01
26	.00	.02	.00	.00	.00	.00	.00	1.32	.04	1.46	.00	.00
27	.00	.01	.00	.00	.00	.00	.00	.00	.25	.55	.00	.00
28	.00	.00	.00	.00	.00	.00	.11	.00	.32	.00	.00	.00
29	.00	.00	.00	.00	---	1.51	.00	.01	.00	.31	.00	.00
30	.00	.00	.00	.35	---	.00	.00	.00	.00	.11	.02	.00
31	.00	---	.00	.00	---	.65	---	.00	---	.00	.23	---
TOTAL	0.00	0.99	0.74	2.45	2.25	4.69	1.59	4.05	3.81	7.94	2.31	2.33
MEAN	.00	.03	.02	.08	.08	.15	.05	.13	.13	.26	.07	.08
MAX	.00	.71	.33	.74	.87	1.51	.61	1.32	1.06	2.63	.50	1.07
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00





Gaging station at Long Creek near Rhyne, North Carolina.

## CAPE FEAR RIVER BASIN

02095271 NORTH BUFFALO CREEK AT CHURCH STREET AT GREENSBORO, NC

LOCATION.--Lat 36°05'32", long 79°46'58", Guilford County, Hydrologic Unit 03030002, on right bank at upstream side of Church Street, and .1 mi upstream of Southern Railway bridge in Greensboro.

DRAINAGE AREA.--14.2 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 738.52 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	4.6	5.8	8.8	12	10	154	5.3	76	14	12	16
2	7.8	3.8	6.6	9.2	11	10	32	6.2	14	11	6.1	10
3	7.8	4.6	5.8	11	11	16	43	5.5	6.1	5.8	4.9	4.5
4	7.6	4.5	7.6	9.6	10	94	19	6.0	5.7	e248	4.7	23
5	7.7	4.3	5.9	9.1	11	35	15	6.1	17	50	4.5	5.2
6	7.8	4.2	5.7	8.9	9.7	14	14	5.7	25	9.9	4.3	4.5
7	7.8	5.9	6.4	9.0	e10	11	12	6.1	12	7.9	4.2	4.2
8	7.8	8.6	5.7	31	e9.8	11	12	6.3	6.5	37	4.1	4.5
9	7.5	29	5.9	11	e10	11	11	5.6	6.4	11	4.2	3.8
10	5.9	9.5	8.8	9.6	e19	9.8	10	23	5.4	82	5.6	12
11	6.0	4.9	6.7	9.5	e9.8	12	9.0	6.4	4.9	11	73	5.0
12	5.5	6.1	7.9	9.3	e22	15	7.9	35	4.8	9.9	19	3.5
13	5.7	5.4	8.1	9.8	16	19	15	11	87	11	10	3.9
14	5.1	53	14	9.5	17	9.2	8.1	4.7	18	10	8.0	3.8
15	5.5	7.5	9.4	9.6	18	86	7.7	5.1	6.0	9.5	5.5	3.1
16	5.9	5.1	32	9.5	34	20	7.1	79	7.3	9.5	5.3	3.9
17	5.2	6.3	40	16	218	11	7.8	28	4.7	8.0	13	2.9
18	5.1	6.7	9.0	54	17	11	6.2	6.4	4.2	72	31	3.1
19	5.1	17	16	114	13	11	6.3	5.2	4.0	12	11	3.0
20	4.5	13	9.8	124	12	83	6.5	10	3.8	7.5	5.2	38
21	4.6	7.9	6.7	22	11	124	5.7	51	13	7.3	3.9	7.4
22	4.9	7.3	6.7	15	23	29	6.6	14	72	7.6	3.7	3.4
23	3.9	7.4	8.2	13	16	12	7.1	11	34	7.2	3.6	3.2
24	6.4	7.5	10	13	12	10	16	5.1	6.6	7.4	60	110
25	5.9	84	11	12	57	8.5	76	16	13	36	5.4	19
26	6.2	20	10	11	17	9.0	9.8	191	20	145	4.3	4.3
27	7.2	8.9	9.0	11	13	6.6	7.2	11	56	218	4.5	3.7
28	5.3	7.3	8.6	11	13	5.9	6.0	14	7.4	13	4.1	3.5
29	5.5	8.2	9.3	11	---	237	5.6	7.4	7.2	32	4.2	3.1
30	5.0	8.0	9.2	48	---	60	5.4	6.6	6.1	24	6.2	3.0
31	4.2	---	8.7	14	---	119	---	6.0	---	6.6	12	---
TOTAL	188.4	370.5	314.5	663.4	652.3	1120.0	549.0	599.7	554.1	1141.1	347.5	318.5
MEAN	6.08	12.4	10.1	21.4	23.3	36.1	18.3	19.3	18.5	36.8	11.2	10.6
MAX	8.0	84	40	124	218	237	154	191	87	248	73	110
MIN	3.9	3.8	5.7	8.8	9.7	5.9	5.4	4.7	3.8	5.8	3.6	2.9
CFSM	.43	.87	.71	1.51	1.64	2.54	1.29	1.36	1.30	2.59	.79	.75
IN.	.49	.97	.82	1.74	1.71	2.93	1.44	1.57	1.45	2.99	.91	.83

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

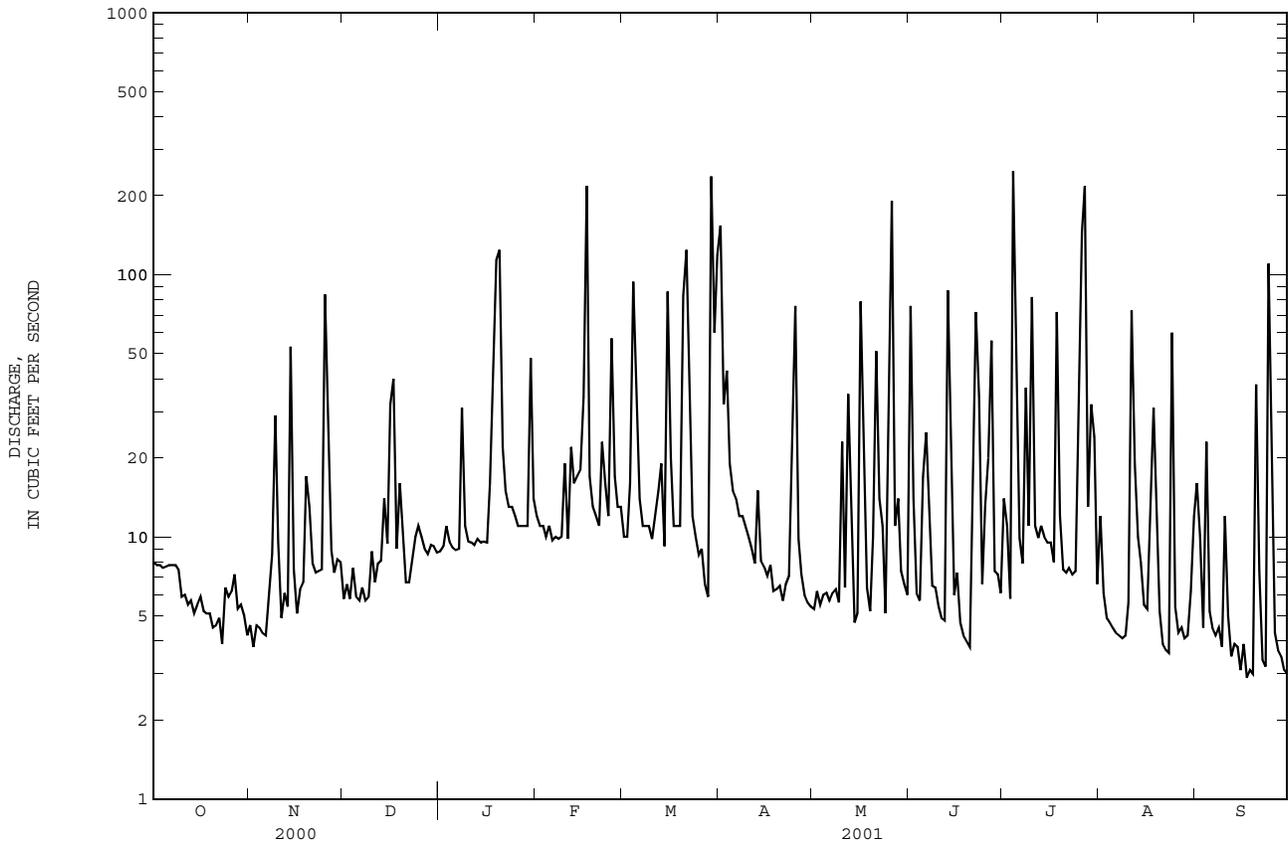
	1998	1999	2000	2001	1998	1999	2000	2001	1998	1999	2000	2001
MEAN	8.95	10.6	13.8	22.6	19.9	23.0	23.2	14.1	20.8	24.6	15.0	25.0
MAX	16.1	12.9	20.3	29.4	23.3	36.1	27.7	19.3	31.6	36.8	23.8	44.6
(WY)	2000	2000	1999	1999	2001	2001	2000	2001	2000	2001	2000	2000
MIN	4.71	6.42	10.1	17.1	14.4	13.6	18.3	10.5	12.2	16.7	11.2	8.72
(WY)	1999	1999	2001	2000	1999	1999	2001	1999	1999	1999	2001	1998

## SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1998 - 2001

ANNUAL TOTAL	7506.2	6819.0		
ANNUAL MEAN	20.5	18.7	19.0	
HIGHEST ANNUAL MEAN			21.5	2000
LOWEST ANNUAL MEAN			16.8	1999
HIGHEST DAILY MEAN	250	Sep 15	248	Jul 4
LOWEST DAILY MEAN	2.9	Jan 6	2.9	Sep 17
ANNUAL SEVEN-DAY MINIMUM	4.3	Oct 31	3.4	Sep 13
MAXIMUM PEAK FLOW	NOT DETERMINED		NOT DETERMINED	NOT DETERMINED
MAXIMUM PEAK STAGE			14.55	Jul 4
INSTANTANEOUS LOW FLOW			2.6	Sep 17
ANNUAL RUNOFF (CFSM)	1.44	1.32	1.34	
ANNUAL RUNOFF (INCHES)	19.66	17.86	18.17	
10 PERCENT EXCEEDS	53	37	48	
50 PERCENT EXCEEDS	9.3	9.0	7.8	
90 PERCENT EXCEEDS	5.7	4.5	3.2	

e Estimated.

02095271 NORTH BUFFALO CREEK AT CHURCH STREET AT GREENSBORO, NC--Continued



CAPE FEAR RIVER BASIN

02095271 NORTH BUFFALO CREEK AT CHURCH STREET AT GREENSBORO, NC--Continued

PRECIPITATION RECORDS

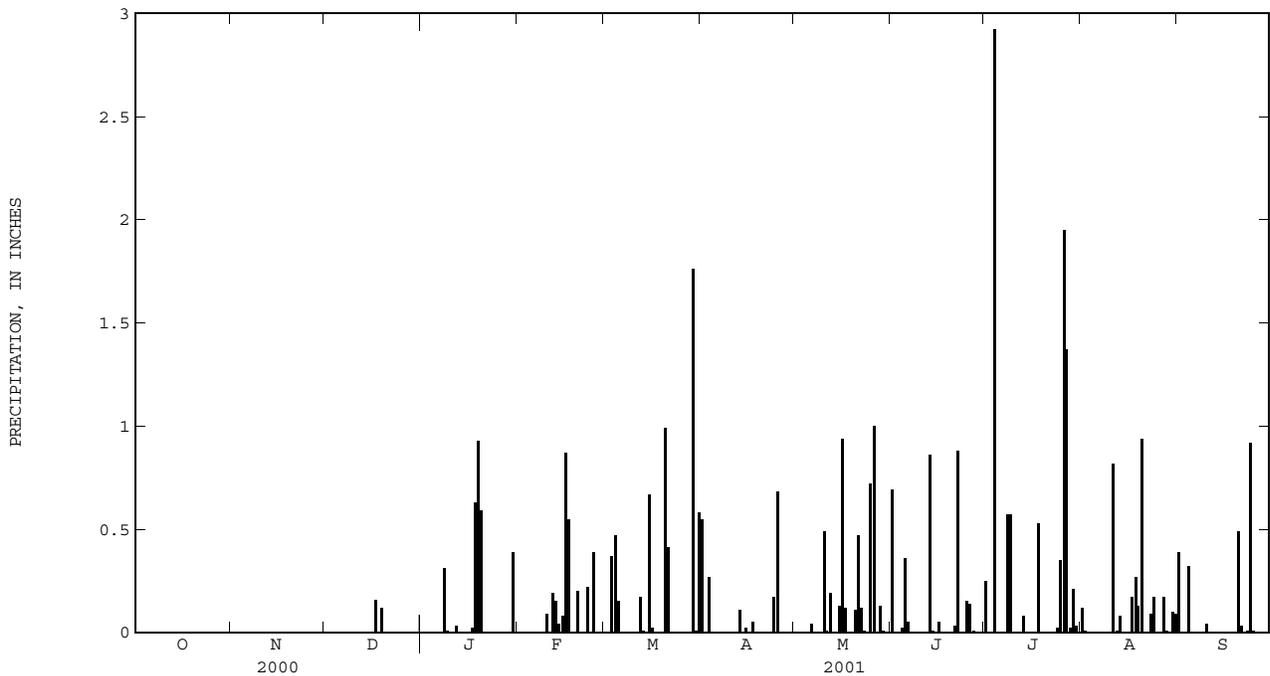
PERIOD OF RECORD.--August 1998 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and data collection platform.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.55	.00	.69	.25	.12	.39
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00
3	.00	.00	.00	.00	.00	.37	.27	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.47	.00	.00	.02	2.92	.00	.32
5	.00	.00	.00	.00	.00	.15	.00	.00	.36	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.04	.05	.00	.00	.00
7	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.31	---	.00	.00	.00	.00	.57	.00	.00
9	.00	.00	.00	.01	---	.00	.00	.00	.00	.57	.00	.00
10	.00	.00	.00	.00	.09	.00	.00	.49	.00	.00	.00	.04
11	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.82	.00
12	.00	.00	.00	.03	.19	.17	.00	.19	.00	.00	.01	.00
13	.00	.00	.00	.00	.15	.01	.11	.00	.86	.08	.08	.00
14	.00	.00	.00	.00	.04	.00	.00	.00	.01	.00	.00	.00
15	.00	.00	.00	.00	.08	.67	.02	.13	.00	.00	.00	.00
16	.00	.00	.00	.00	.87	.02	.00	.94	.05	.00	.00	.00
17	.00	.00	.16	.02	.55	.00	.05	.12	.00	.00	.17	.00
18	.00	.00	.00	.63	.00	.00	.00	.00	.00	.53	.27	.00
19	.00	.00	.12	.93	.00	.00	.00	.00	.00	.00	.13	.00
20	.00	.00	.00	.59	.20	.99	.00	.11	.00	.00	.94	.49
21	.00	.00	.00	.00	.00	.41	.00	.47	.03	.00	.00	.03
22	.00	.00	.00	.00	.00	.00	.00	.12	.88	.00	.00	.00
23	.00	.00	.00	.00	.22	.00	.00	.01	.00	.00	.09	.01
24	.00	.00	.00	.00	.00	.00	.17	.00	.00	.02	.17	.92
25	.00	.00	.00	.00	.39	.00	.68	.72	.15	.35	.00	.01
26	.00	.00	.00	.00	.00	.00	.00	1.00	.14	1.95	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.01	1.37	.17	.00
28	.00	.00	.00	.00	.00	.00	.13	.00	.00	.02	.01	.00
29	.00	.00	.00	.00	---	1.76	.00	.01	.00	.21	.00	.00
30	.00	.00	.00	.39	---	.01	.00	.00	.00	.03	.10	.00
31	.00	---	.00	.00	---	.58	---	.00	---	.00	.09	---
TOTAL	0.00	0.00	0.28	2.91	---	5.61	1.85	4.49	3.25	8.87	3.18	2.21





Control at Rocky River near Concord, North Carolina.

CAPE FEAR RIVER BASIN

02095500 NORTH BUFFALO CREEK NEAR GREENSBORO, NC

LOCATION.--Lat 36°07'13", long 79°42'30", Guilford County, Hydrologic Unit 03030002, on left bank at downstream of bridge on Secondary Road 2832, 4.2 mi upstream from mouth, 5.8 mi northeast of post office in Greensboro.

DRAINAGE AREA.--37.1 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1928 to October 1990, August 1998 to current year.

REVISED RECORDS.--WSP 1303: 1929, 1931-42, monthly and yearly runoff. WSP 1383: 1928(M), 1929, 1933-34(M), 1936(M), 1941(M), 1943(M), 1945(M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 678.02 ft above sea level (levels by U. S. Corps of Engineers). Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Diurnal fluctuation at low flow caused by mills upstream from station. Diversions into basin from Greensboro and Proximity Mills enter upstream from the station. Maximum discharge for period of record, 9,140 ft<sup>3</sup>/s, from rating curve extended above 2,900 ft<sup>3</sup>/s on basis of contracted-opening measurements at gage heights 14.15 ft, 15.96 ft and 16.63 ft. Maximum gage height for period of record, from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	31	32	34	40	54	448	32	140	33	53	52
2	39	31	31	35	42	58	151	33	62	46	37	44
3	37	31	29	34	39	60	131	32	36	27	31	27
4	37	31	32	36	38	254	71	33	34	338	29	56
5	35	30	30	36	38	146	55	32	34	495	27	29
6	37	30	30	37	38	71	50	31	57	43	28	26
7	35	31	30	35	37	59	46	30	55	32	27	26
8	33	37	28	69	36	54	43	31	35	94	28	26
9	34	62	30	40	37	53	42	31	33	43	26	25
10	32	43	32	35	48	52	40	52	31	151	31	40
11	32	30	28	35	36	57	39	45	30	36	144	36
12	32	31	30	36	51	55	39	64	30	30	74	24
13	33	30	27	36	56	74	46	58	96	31	35	25
14	31	106	35	34	56	51	38	33	99	29	33	25
15	31	35	35	34	56	191	35	32	35	27	29	24
16	32	29	58	34	70	90	37	165	35	27	28	26
17	33	33	103	37	523	61	38	78	29	26	31	26
18	32	32	38	103	98	51	36	37	28	101	88	24
19	32	39	41	213	66	54	35	33	30	44	38	25
20	32	43	42	313	57	145	35	36	29	29	30	79
21	31	31	34	81	54	407	34	92	44	28	28	32
22	30	30	34	55	77	143	34	50	93	25	26	25
23	30	30	32	47	63	75	35	44	129	27	26	24
24	31	29	32	44	57	65	40	32	32	28	96	182
25	30	147	33	42	144	57	163	50	37	60	29	77
26	30	67	32	41	80	56	40	412	43	266	25	26
27	31	37	34	40	60	52	36	49	93	461	28	23
28	31	35	36	40	55	50	35	44	32	66	30	23
29	29	34	34	38	---	402	32	38	29	62	26	22
30	30	34	33	101	---	346	33	34	29	87	43	22
31	30	---	33	49	---	177	---	34	---	37	43	---
TOTAL	1013	1239	1108	1844	2052	3520	1937	1797	1519	2829	1247	1121
MEAN	32.7	41.3	35.7	59.5	73.3	114	64.6	58.0	50.6	91.3	40.2	37.4
MAX	41	147	103	313	523	407	448	412	140	495	144	182
MIN	29	29	27	34	36	50	32	30	28	25	25	22
CFSM	.88	1.11	.96	1.60	1.98	3.06	1.74	1.56	1.36	2.46	1.08	1.01
IN.	1.02	1.24	1.11	1.85	2.06	3.53	1.94	1.80	1.52	2.84	1.25	1.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2001,® BY WATER YEAR (WY)

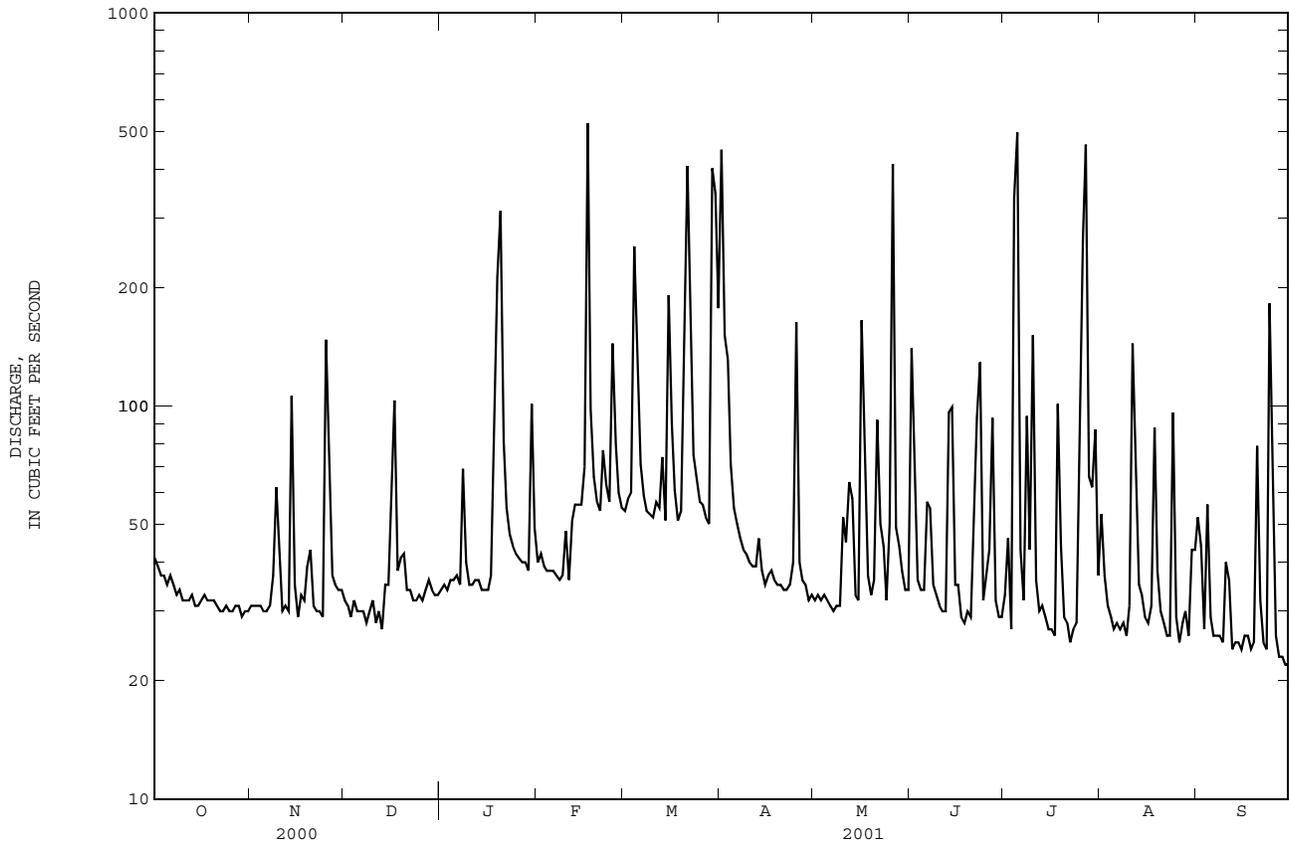
MEAN	42.6	42.8	55.8	71.2	83.4	79.5	66.5	53.1	50.7	51.7	43.4	49.1
MAX	154	120	129	205	185	231	206	177	192	231	112	247
(WY)	1960	1986	1973	1978	1979	1975	1987	1978	1982	1984	1984	1979
MIN	7.71	8.73	13.1	17.3	22.0	31.4	20.3	16.2	10.2	11.2	7.82	8.63
(WY)	1931	1932	1934	1934	1931	1931	1942	1938	1933	1932	1932	1930

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1928 - 2001®

ANNUAL TOTAL	25785	21226	
ANNUAL MEAN	70.5	58.2	57.2
HIGHEST ANNUAL MEAN			106
LOWEST ANNUAL MEAN			30.6
HIGHEST DAILY MEAN	912	Jun 19	523
LOWEST DAILY MEAN	27	Jan 7	22
ANNUAL SEVEN-DAY MINIMUM	29	Dec 7	25
MAXIMUM PEAK FLOW			2500
MAXIMUM PEAK STAGE			11.75
INSTANTANEOUS LOW FLOW			15
ANNUAL RUNOFF (CFSM)	1.90		1.57
ANNUAL RUNOFF (INCHES)	25.85		21.28
10 PERCENT EXCEEDS	149		97
50 PERCENT EXCEEDS	40		36
90 PERCENT EXCEEDS	30		28
			100
			31
			16

® See PERIOD OF RECORD.  
\* See REMARKS.

02095500 NORTH BUFFALO CREEK NEAR GREENSBORO, NC--Continued



CAPE FEAR RIVER BASIN

02095500 NORTH BUFFALO CREEK NEAR GREENSBORO, NC--Continued

PRECIPITATION RECORDS

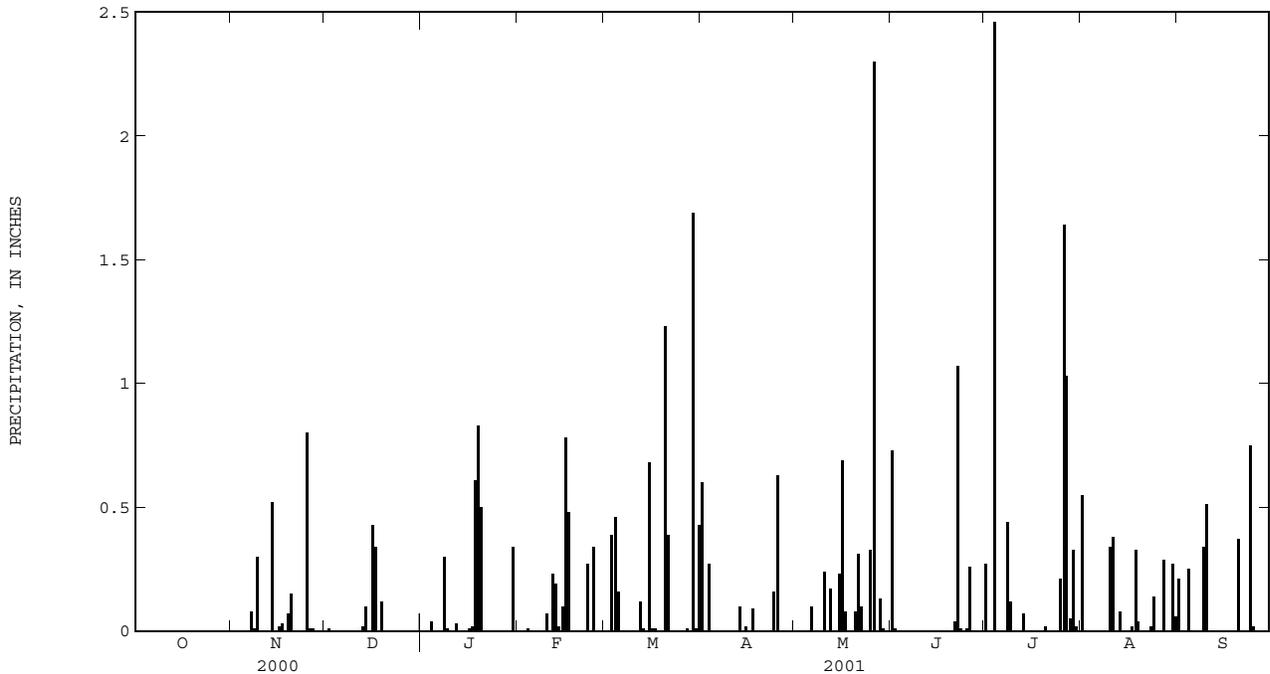
PERIOD OF RECORD.--August 1998 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and data collection platform.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.60	.00	.73	.27	.55	.21
2	.00	.00	.01	.00	.00	.00	.00	.00	.01	.00	.00	.00
3	.00	.00	.00	.00	.00	.39	.27	.00	.00	.00	.00	.00
4	.00	.00	.00	.04	.01	.46	.00	.00	---	2.46	.00	.25
5	.00	.00	.00	.00	.00	.16	.00	.00	---	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.10	---	.00	.00	.00
7	.00	.08	.00	.00	.00	.00	.00	.00	---	.00	.00	.00
8	.00	.01	.00	.30	.00	.00	.00	.00	---	.44	.00	.00
9	.00	.30	.00	.01	.00	.00	.00	.00	---	.12	.00	.34
10	.00	.00	.00	.00	.07	.00	.00	.24	---	.00	.34	.51
11	.00	.00	.00	.00	.00	.00	.00	.00	---	.00	.38	.00
12	.00	.00	.00	.03	.23	.12	.00	.17	---	.00	.00	.00
13	.00	.00	.02	.00	.19	.01	.10	.00	---	.07	.08	.00
14	.00	.52	.10	.00	.02	.00	.00	.00	---	.00	.00	.00
15	.00	.00	.00	.00	.10	.68	.02	.23	---	.00	.00	.00
16	.00	.02	.43	.01	.78	.01	.00	.69	---	.00	.00	.00
17	.00	.03	.34	.02	.48	.01	.09	.08	---	.00	.02	.00
18	.00	.00	.00	.61	.00	.00	.00	.00	---	.00	.33	.00
19	.00	.07	.12	.83	.00	.00	.00	.00	.00	.00	.04	.00
20	.00	.15	.00	.50	.00	1.23	.00	.08	.00	.02	.00	.37
21	.00	.00	.00	.00	.00	.39	.00	.31	.04	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.10	1.07	.00	.00	.00
23	.00	.00	.00	.00	.27	.00	.00	.00	.01	.00	.02	.00
24	.00	.00	.00	.00	.00	.00	.16	.00	.00	.00	.14	.75
25	.00	.80	.00	.00	.34	.00	.63	.33	.01	.21	.00	.02
26	.00	.01	.00	.00	.00	.00	.00	2.30	.26	1.64	.00	.00
27	.00	.01	.00	.00	.00	.01	.00	.00	.00	1.03	.29	.00
28	.00	.00	.00	.00	.00	.00	.00	.13	.00	.05	.00	.00
29	.00	.00	.00	.00	---	1.69	.00	.01	.00	.33	.00	.00
30	.00	.00	.00	.34	---	.01	.00	.00	.00	.02	.27	.00
31	.00	---	.00	.00	---	.43	---	.00	---	.00	.06	---
TOTAL	0.00	2.00	1.02	2.69	2.49	5.60	1.87	4.77	---	6.66	2.52	2.45
MEAN	.00	.07	.03	.09	.09	.18	.06	.15	---	.21	.08	.08
MAX	.00	.80	.43	.83	.78	1.69	.63	2.30	---	2.46	.55	.75
MIN	.00	.00	.00	.00	.00	.00	.00	.00	---	.00	.00	.00





Crest stage at North Buffalo Creek near Greensboro, North Carolina.

## CAPE FEAR RIVER BASIN

0209553650 BUFFALO CREEK AT SECONDARY ROAD 2819 NEAR McLEANSVILLE, NC

LOCATION.--Lat 36°07'40", long 79°39'443", Guilford County, Hydrologic Unit 03030002, on left bank of upstream side of bridge on Secondary Road 2819, 300 ft below the confluence of North Buffalo Creek and South Buffalo Creek, and 1.3 mi north of McLeansville.

DRAINAGE AREA.--88.5 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 650 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Minimum discharge for current water year also occurred Nov. 12.

REVISIONS.--The maximum discharge for water year 1999 has been revised to 4,320 ft<sup>3</sup>/s, Apr. 30, 1999, gage height, 14.36 ft.DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	65	68	69	96	92	1400	72	272	67	128	131
2	81	62	62	70	95	90	416	74	227	99	106	114
3	77	64	61	77	83	91	277	73	97	73	83	68
4	79	62	66	75	82	499	196	73	91	268	76	127
5	75	63	64	76	85	280	135	72	88	1270	71	87
6	72	63	63	76	87	141	116	71	146	116	71	72
7	70	65	67	73	84	113	106	71	278	88	72	67
8	66	79	69	121	83	102	101	72	93	156	72	64
9	72	98	62	102	84	99	97	75	83	126	70	63
10	72	109	65	83	97	90	92	79	78	285	74	113
11	73	66	65	77	84	90	88	125	76	100	405	166
12	69	62	68	78	95	94	88	104	80	86	226	70
13	71	63	65	79	145	123	106	174	87	81	92	68
14	67	199	75	75	122	92	92	71	390	81	93	66
15	64	89	74	76	122	349	80	72	90	73	76	66
16	68	63	106	79	157	240	81	267	80	75	73	64
17	69	65	244	79	1570	124	83	181	79	75	71	66
18	69	62	96	165	206	103	88	87	72	127	265	66
19	67	62	83	370	127	99	84	77	75	150	102	66
20	66	99	101	886	108	171	79	79	76	80	81	164
21	63	70	79	220	102	1080	79	161	81	72	76	101
22	63	63	78	127	113	322	77	116	114	70	72	71
23	60	59	69	112	127	159	80	99	369	66	70	66
24	65	58	68	102	115	130	79	75	87	75	284	317
25	63	233	66	95	250	114	313	101	87	90	81	217
26	65	219	66	91	165	112	99	1050	102	566	64	78
27	67	85	71	87	107	106	80	147	189	968	65	69
28	62	75	73	85	100	101	76	108	84	179	71	69
29	62	71	71	86	---	669	73	110	73	107	84	62
30	65	71	70	193	---	1600	71	96	70	314	85	60
31	61	---	67	115	---	317	---	89	---	103	130	---
TOTAL	2124	2564	2402	4099	4691	7792	4832	4121	3814	6086	3389	2878
MEAN	68.5	85.5	77.5	132	168	251	161	133	127	196	109	95.9
MAX	81	233	244	886	1570	1600	1400	1050	390	1270	405	317
MIN	60	58	61	69	82	90	71	71	70	66	64	60
CFSM	.77	.97	.88	1.49	1.89	2.84	1.82	1.50	1.44	2.22	1.24	1.08
IN.	.89	1.08	1.01	1.72	1.97	3.28	2.03	1.73	1.60	2.56	1.42	1.21

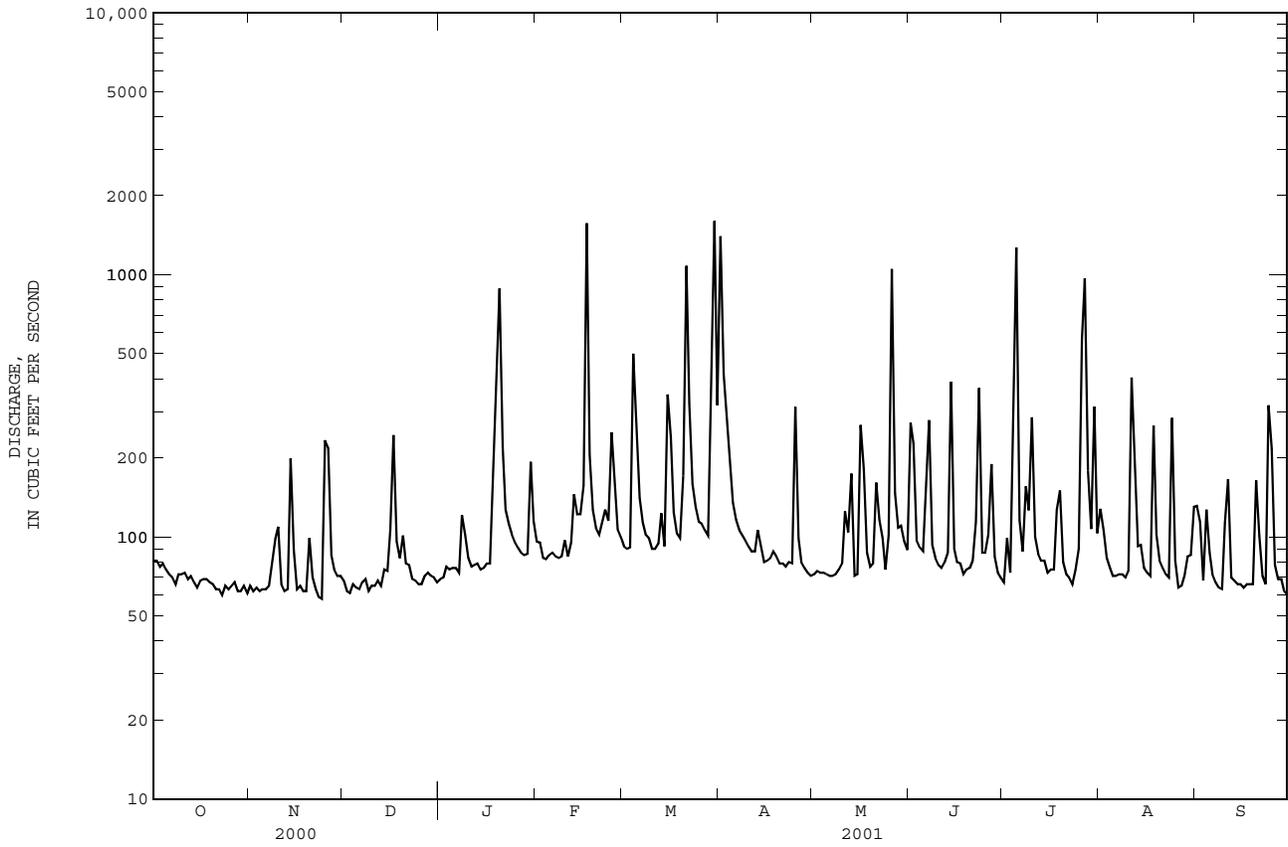
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

	1998	1999	2000	2001
MEAN	79.9	74.1	105	188
MAX	114	85.5	129	271
(WY)	2000	2001	1999	1999
MIN	57.6	53.1	77.5	132
(WY)	1999	1999	2001	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1998 - 2001
ANNUAL TOTAL	60765	48792	
ANNUAL MEAN	166	134	149
HIGHEST ANNUAL MEAN			172
LOWEST ANNUAL MEAN			134
HIGHEST DAILY MEAN	2560	1600	2920
LOWEST DAILY MEAN	49	58	42
ANNUAL SEVEN-DAY MINIMUM	52	63	45
MAXIMUM PEAK FLOW		3720	5770
MAXIMUM PEAK STAGE		13.21	16.90
INSTANTANEOUS LOW FLOW		46*	28
ANNUAL RUNOFF (CFSM)	1.88	1.51	1.68
ANNUAL RUNOFF (INCHES)	25.54	20.51	22.85
10 PERCENT EXCEEDS	315	226	242
50 PERCENT EXCEEDS	83	83	78
90 PERCENT EXCEEDS	63	65	55

\* See REMARKS.

0209553650 BUFFALO CREEK AT SECONDARY ROAD 2819 NEAR McLEANSVILLE, NC--Continued



PRECIPITATION RECORDS

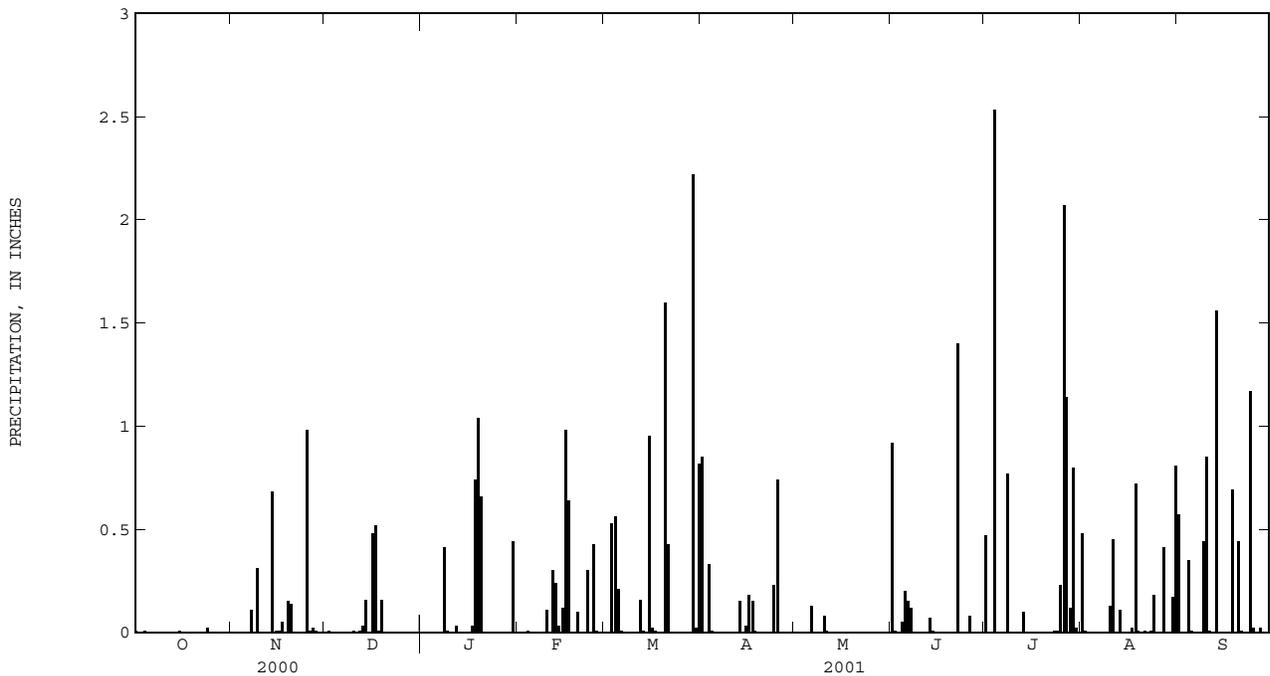
PERIOD OF RECORD.--August 1998 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and data collection platform.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.00	.00	.00	.00	.00	.85	.00	.92	.47	.48	.57
2	.00	.00	.01	.00	.00	.00	.00	.00	.01	.00	.01	.00
3	.00	.00	.00	.00	.00	.53	.33	.00	.00	.00	.00	.00
4	.01	.00	.00	.00	.01	.56	.01	.00	.05	2.53	.00	.35
5	.00	.00	.00	.00	.00	.21	.00	.00	.20	.00	.00	.01
6	.00	.00	.00	.00	.00	.01	.00	.13	.15	.00	.00	.00
7	.00	.11	.00	.00	.00	.00	.00	.00	.12	.00	.00	.00
8	.00	.00	.00	.41	.00	.00	.00	.00	.00	.77	.00	.00
9	.00	.31	.00	.01	.00	.00	.00	.00	.00	.00	.00	.44
10	.00	.00	.01	.00	.11	.00	.00	.08	.00	.00	.13	.85
11	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.45	.01
12	.00	.00	.01	.03	.30	.16	.00	---	.00	.00	.00	.00
13	.00	.00	.03	.00	.24	.01	.15	---	.07	.10	.11	1.56
14	.00	.68	.16	.00	.03	.00	.00	---	.01	.00	.00	.00
15	.01	.01	.00	.00	.12	.95	.03	---	.00	.00	.00	.00
16	.00	.01	.48	.00	.98	.02	.18	---	.00	.00	.00	.00
17	.00	.05	.52	.03	.64	.01	.15	---	.00	.00	.02	.00
18	.00	.00	.01	.74	.00	.00	.01	---	.00	.00	.72	.69
19	.00	.15	.16	1.04	.00	.00	.00	---	.00	.00	.01	.00
20	.00	.14	.00	.66	.10	1.60	.00	---	.00	.00	.00	.44
21	.00	.00	.00	.00	.00	.43	.00	---	.00	.00	.01	.01
22	.00	.00	.00	.00	.00	.00	.00	---	1.40	.00	.00	.00
23	.00	.00	.00	.00	.30	.00	.00	---	.00	.01	.01	.00
24	.02	.00	.00	.00	.00	.00	.23	---	.00	.01	.18	1.17
25	.00	.98	.00	.00	.43	.00	.74	---	.00	.23	.00	.02
26	.00	.01	.00	.00	.01	.00	.00	---	.08	2.07	.00	.00
27	.00	.02	.00	.00	.00	.00	.00	---	.00	1.14	.41	.02
28	.00	.01	.00	.00	.00	.00	.00	---	.00	.12	.00	.00
29	.00	.00	.00	.00	---	2.22	.00	---	.00	.80	.00	.00
30	.00	.00	.00	.44	---	.02	.00	---	.00	.02	.17	.00
31	.00	---	.00	.00	---	.82	---	---	---	.00	.81	---
TOTAL	0.05	2.48	1.39	3.36	3.27	7.55	2.68	---	3.01	8.27	3.52	6.14

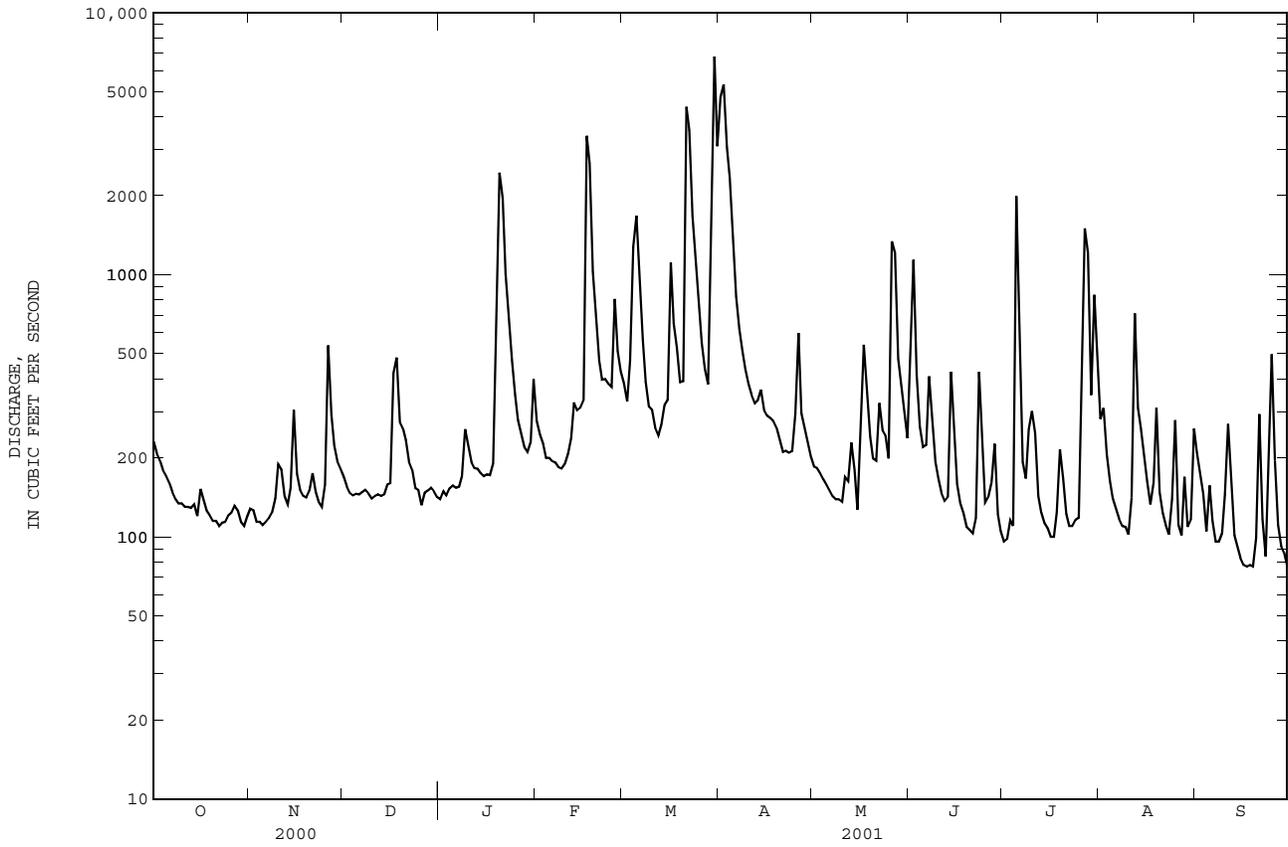




Gaging station at Rocky River near Stanfield, North Carolina.



02096500 HAW RIVER AT HAW RIVER, NC--Continued



CAPE FEAR RIVER BASIN

02096846 CANE CREEK NEAR ORANGE GROVE, NC

LOCATION.--Lat 35°59'13", long 79°12'23", Orange County, Hydrologic Unit 03030002, on right bank at downstream side of bridge on Secondary Road 1114, and 1.0 mi northwest of Orange Grove.

DRAINAGE AREA.--7.54 mi<sup>2</sup>

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 510 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Maximum discharge for period of record from rating curve extended above 500 ft<sup>3</sup>/s, based on contracted-opening measurement of peak flow; maximum gage-height, 7.90 ft, from flood mark. No flow occurs at times most years. Minimum discharge occurred several days during July, August and September.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	.51	.50	1.2	2.2	3.4	152	1.3	21	.25	.38	.12
2	1.9	.47	.49	1.1	2.0	3.1	54	1.2	14	.21	.30	.11
3	1.7	.48	.47	1.1	1.8	3.2	22	1.1	3.7	.18	.24	.12
4	1.5	.48	.43	1.1	1.7	29	16	1.1	2.0	.16	.18	.13
5	1.4	.49	.44	1.1	2.0	23	11	1.0	1.4	.22	.14	.14
6	1.3	.49	.44	1.2	2.0	11	8.9	.95	1.2	.18	.12	.14
7	1.2	.48	.45	1.1	1.9	7.3	7.1	.85	1.1	.14	.09	.12
8	1.0	.53	.64	1.3	1.7	5.6	6.3	.81	.96	.35	.09	.11
9	.91	.59	.48	1.4	1.7	4.7	5.5	.77	.90	.57	.08	.10
10	.89	.65	.65	1.2	1.8	4.0	4.9	.76	.72	.38	.07	.10
11	.91	.60	.48	1.1	1.6	3.6	4.3	.69	.68	.26	.07	.09
12	.83	.50	.42	1.2	1.7	3.4	3.9	.72	.62	.19	.09	.09
13	.88	.52	.37	1.2	3.3	3.5	3.6	.95	.69	.15	.12	.08
14	.72	.92	.37	1.2	4.7	3.2	3.4	.66	4.0	.12	.12	.07
15	.74	.97	.38	1.3	4.8	4.1	3.4	.59	3.4	.10	.12	.08
16	.70	.74	.57	1.3	4.9	6.9	2.6	5.3	1.3	.09	.10	.07
17	.63	.70	.97	1.1	121	4.9	2.6	2.4	.89	.09	.09	.06
18	.63	.61	9.6	1.4	19	3.8	2.7	1.5	.60	.09	.09	.06
19	.57	.64	5.0	2.1	9.7	3.2	2.4	1.2	.50	.10	.20	.06
20	.51	.98	4.2	25	6.8	11	2.3	.92	.40	.10	.24	.12
21	.51	.95	3.1	12	5.4	128	2.2	.83	.39	.09	.16	.18
22	.52	.77	2.4	6.1	4.8	23	2.1	.86	.37	.08	.13	.12
23	.50	.70	2.0	4.3	5.1	12	2.0	.96	.80	.08	.10	.10
24	.49	.64	1.8	3.5	6.9	8.1	1.8	.84	.80	.16	.10	.25
25	.78	1.3	1.7	2.9	5.7	6.4	3.4	.65	.67	.16	.09	.63
26	.77	3.1	1.4	2.4	6.3	5.3	3.0	2.1	1.1	.15	.08	.35
27	.78	1.4	1.5	2.2	4.6	4.5	2.1	1.6	.70	2.4	.07	.23
28	.72	.87	1.5	2.0	4.0	4.0	1.8	1.1	.64	1.4	.07	.18
29	.61	.67	1.5	1.9	---	105	1.5	1.3	.38	.67	.07	.13
30	.54	.58	1.4	2.3	---	171	1.4	1.1	.30	1.1	.08	.11
31	.52	---	1.3	2.7	---	52	---	.76	---	.65	.09	---
TOTAL	27.86	23.33	142.98	91.0	239.1	661.2	340.2	36.87	66.28	10.87	3.97	4.25
MEAN	.90	.78	4.61	2.94	8.54	21.3	11.3	1.19	2.21	.35	.13	.14
MAX	2.2	3.1	.97	.25	121	171	152	5.3	21	2.4	.38	.63
MIN	.49	.47	.37	1.1	1.6	3.1	1.4	.59	.30	.08	.07	.06
CFSM	.12	.10	.61	.39	1.13	2.83	1.50	.16	.29	.05	.02	.02
IN.	.14	.12	.71	.45	1.18	3.26	1.68	.18	.33	.05	.02	.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2001, BY WATER YEAR (WY)

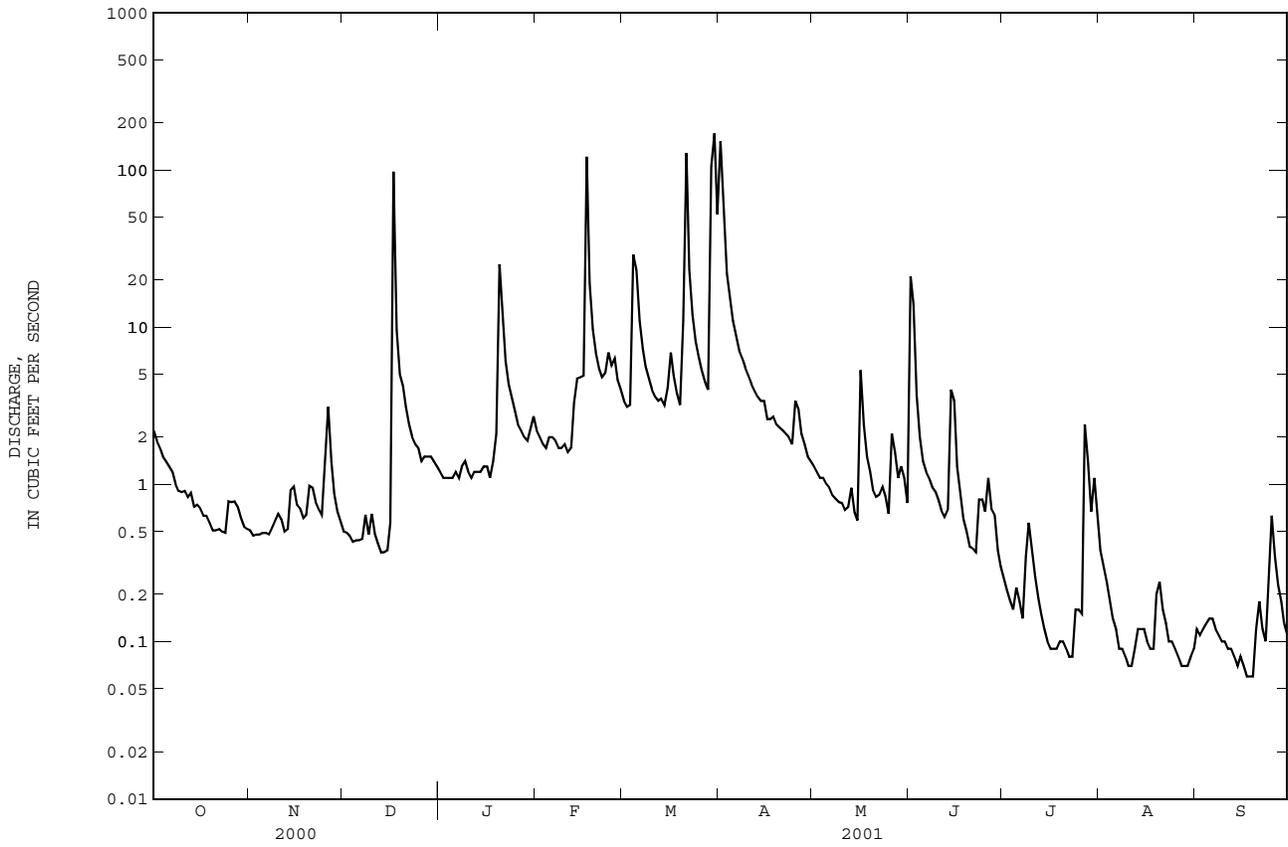
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	2.51	3.49	5.05	13.5	13.3	19.3	9.76	5.36	4.26	2.64	1.02	4.63	
MAX	8.72	15.5	11.2	28.3	34.3	46.3	16.7	18.7	16.4	13.5	4.47	25.9	
(WY)	1996	1996	1997	1998	1998	1998	1993	1989	1995	2000	1995	1996	
MIN	.005	.009	.75	2.94	3.93	2.83	1.47	1.07	.49	.16	.044	.018	
(WY)	1999	1999	1992	2001	1999	1999	1995	1999	1999	1999	1997	1990	

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1989 - 2001

ANNUAL TOTAL	2434.54	1647.91	
ANNUAL MEAN	6.65	4.51	6.86
HIGHEST ANNUAL MEAN			10.8
LOWEST ANNUAL MEAN			3.97
HIGHEST DAILY MEAN	302	Jul 24	171
LOWEST DAILY MEAN	.22	Jul 20	.06
ANNUAL SEVEN-DAY MINIMUM	.31	Jul 16	.07
MAXIMUM PEAK FLOW			608
MAXIMUM PEAK STAGE			4.66
INSTANTANEOUS LOW FLOW			.04*
ANNUAL RUNOFF (CFSM)	.88		.60
ANNUAL RUNOFF (INCHES)	12.01		8.13
10 PERCENT EXCEEDS	14		5.6
50 PERCENT EXCEEDS	1.8		.92
90 PERCENT EXCEEDS	.52		.10

\* See REMARKS.

02096846 CANE CREEK NEAR ORANGE GROVE, NC--Continued





02096846 CANE CREEK NEAR ORANGE GROVE, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE) (01147)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
OCT 24...	13	<.14	<1.5	<2	<2.6	<.43	<31	4.6	2	.00
DEC 19...	--	--	--	--	--	--	--	11	17	.22
FEB 22...	--	--	--	--	--	--	--	4.6	10	.14
MAR 21...	118	<.14	<1.5	M	<2.6	<.43	<31	15	28	5.5
APR 10...	37	<.14	<1.5	<2	<2.6	<.43	<31	2.1	5	.06
JUN 14...	--	--	--	--	--	--	--	5.4	32	.10
AUG 27...	--	--	--	--	--	--	--	4.4	2	.00

0209684980 CANE CREEK RESERVOIR AT DAM NEAR WHITE CROSS, NC

LOCATION.--Lat 35°56'59", long 79°14'29", Orange County, Hydrologic Unit 03030002, at Orange Water and Sewage Authority intakes, 0.7 mi above State Highway 54, and 3.6 mi northwest of White Cross.

DRAINAGE AREA.--31.4 mi<sup>2</sup>.

PERIOD OF RECORD.--Water years 1989 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. Samples for nutrient and chlorophyll a and b analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	BAROMETRIC PRESURE (MM HG) (00025)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS-SOLVED (PERCENT SATURATION) (00300)	OXYGEN, DIS-SOLVED (MG/L) (00301)	HARDNESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg) (00925)
OCT													
30...	1220	1.0	66	6.9	17.6	25	755	.80	6.1	64	24	5.78	2.37
30...	1221	7.0	103	6.7	14.6	--	755	--	.2	2	--	--	--
30...	1222	13.9	143	6.8	9.8	--	755	--	.6	5	--	--	--
APR													
20...	0845	1.0	67	6.5	14.6	40	758	.90	8.5	84	22	5.07	2.16
20...	0850	7.0	67	5.8	10.3	--	758	--	4.3	38	--	--	--
20...	0855	14.0	74	5.9	9.3	--	758	--	3.1	27	--	--	--
JUN													
26...	0930	1.0	77	8.9	27.9	8	768	1.20	7.4	94	25	5.90	2.40
26...	0935	7.0	76	6.2	11.0	--	768	--	.3	2	--	--	--
26...	0940	14.0	163	7.1	10.4	--	768	--	.4	3	--	--	--
AUG													
28...	1145	1.0	77	8.8	28.9	<1	756	1.20	8.4	110	25	5.94	2.58
28...	1150	6.0	81	6.4	12.7	--	756	--	.1	0	--	--	--
28...	1155	13.3	133	6.9	9.7	--	756	--	.1	1	--	--	--

DATE	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM PERCENT (00932)	SODIUM AD-SORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	BICARBONATE, DIS-SOLVED (MG/L AS HCO3) (99440)	ANC WATER UNFLTRD IT FIELD (MG/L AS CaCO3) (00419)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
OCT													
30...	3.2	20	.3	2.72	27	22	2.4	4.7	<.2	8.4	53	.001	.011
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
20...	3.4	23	.3	2.10	38	31	4.6	4.7	<.2	6.6	50	.005	.411
20...	--	--	--	--	--	--	--	--	--	--	--	.003	.493
20...	--	--	--	--	--	--	--	--	--	--	--	.003	.575
JUN													
26...	4.0	24	.4	2.10	26	21	3.8	5.2	<.2	2.5	54	<.001	<.005
26...	--	--	--	--	--	--	--	--	--	--	--	.003	.164
26...	--	--	--	--	--	--	--	--	--	--	--	.002	.028
AUG													
28...	3.9	23	.3	2.21	27	22	3.5	5.2	E.1	4.9	62	<.001	.005
28...	--	--	--	--	--	--	--	--	--	--	--	<.001	.006
28...	--	--	--	--	--	--	--	--	--	--	--	.001	.006

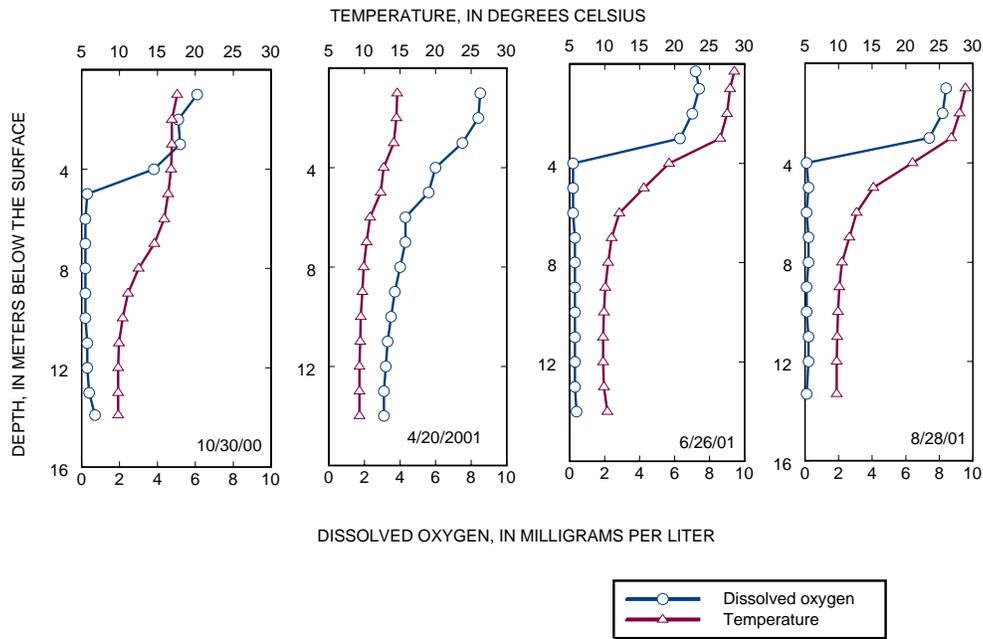
DATE	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLOROPHYLL-A (UG/L) (70953)	CHLOROPHYLL-B (UG/L) (70954)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM, TOTAL UNFLTRD (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)
OCT													
30...	.007	.93	.94	.95	<.060	<.007	5.6	<.1	E17	<2	<.11	4	<2
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
20...	.005	.53	.54	.95	E.037	E.004	1.3	<.1	126	<2	<.11	<1	<2
20...	.031	.45	.49	.98	E.053	.022	--	--	--	--	--	--	--
20...	.126	.51	.64	1.2	.074	.027	--	--	--	--	--	--	--
JUN													
26...	.004	.50	.50	--	<.060	<.007	2.5	<.1	--	--	--	--	--
26...	.061	.45	.51	.68	<.060	<.007	--	--	--	--	--	--	--
26...	.510	.50	1.0	1.0	E.045	.013	--	--	--	--	--	--	--
AUG													
28...	.008	.40	.41	.41	<.060	<.007	3.5	E.1	--	--	--	--	--
28...	.098	.41	.51	.52	E.031	E.006	--	--	--	--	--	--	--
28...	1.21	.37	1.6	1.6	.121	.089	--	--	--	--	--	--	--



0209684980 CANE CREEK RESERVOIR AT DAM NEAR WHITE CROSS, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	ETHANE-HEXA-CHLORO-WATER UNFLTRD RECOVER (UG/L) (34396)	NAPHTH-ALENE TOTAL (UG/L) (34696)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	1,2-DIBROMO-ETHANE TOTAL (UG/L) (77651)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL-ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)
OCT 30...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 26...	<.03	<.03	<.1	<.2	<.2	<.2	<.03	<.05	<.04	E.003	E.004	E.009	<.018
AUG 28...	--	--	--	--	--	--	--	--	--	--	--	--	--





Gaging station at Mallard Creek below Stony Creek near Harrisburg, North Carolina.

## CAPE FEAR RIVER BASIN

02096960 HAW RIVER NEAR BYNUM, NC

LOCATION.--Lat 35°45'48", long 79°08'02", Chatham County, Hydrologic Unit 03030002, on right bank 500 ft upstream from Pokeberry Creek, 0.9 mi south of Bynum, and 1.1 mi downstream of U.S. Highways 15 and 501.

DRAINAGE AREA.--1,275 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1973 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 283.31 ft above sea level. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Considerable regulation for short periods at low flow caused by power plant above station. Maximum discharge for period of record, from rating curve extended above 36,000 ft<sup>3</sup>/s, on basis of slope-conveyance measurement of peak flow; maximum gage height, 21.76 ft, from floodmarks. Minimum discharge for period of record also occurred Sept. 27, 1983. Minimum discharge for each year affected by regulation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	525	186	263	220	581	724	8640	392	1160	155	529	372
2	417	197	305	237	456	634	11200	382	2860	162	328	323
3	404	207	235	232	387	580	4880	367	1380	152	394	282
4	350	197	198	241	360	1550	3600	348	687	183	278	234
5	327	190	252	239	323	2990	2540	310	461	858	239	177
6	303	189	210	237	349	2110	1730	307	400	1450	187	146
7	270	186	236	265	342	1390	1370	289	403	395	183	181
8	252	195	234	259	326	955	1180	281	639	216	177	148
9	233	201	262	263	300	755	1040	250	465	318	156	139
10	227	209	201	395	323	686	966	286	244	370	149	142
11	215	259	228	340	329	613	836	244	272	378	186	162
12	218	253	224	259	344	572	778	287	248	347	697	305
13	216	251	244	294	446	558	715	331	256	222	689	223
14	213	215	222	272	565	592	696	368	423	136	396	150
15	219	277	230	271	570	642	706	326	800	110	235	138
16	199	554	264	271	574	1200	631	378	469	135	266	114
17	e280	222	1050	269	5060	1290	631	824	295	156	213	99
18	e250	171	1110	268	5610	994	627	778	243	137	198	102
19	196	202	664	336	2320	766	586	503	222	162	285	105
20	215	257	540	1860	1430	679	520	412	198	277	392	107
21	202	245	474	3170	1050	7460	465	362	187	242	195	244
22	188	289	409	1670	855	6520	447	361	209	164	162	473
23	182	196	368	1150	739	3250	448	532	319	124	164	212
24	173	220	268	849	763	2000	457	433	621	132	169	193
25	188	250	262	682	763	1490	536	399	525	160	198	502
26	191	409	248	533	931	1130	922	422	291	182	321	724
27	198	795	243	473	1080	869	712	2100	259	1460	181	369
28	221	351	271	385	770	756	490	1070	274	1950	143	200
29	202	366	301	375	---	1540	495	591	315	844	168	183
30	194	310	290	408	---	15700	444	591	210	449	212	165
31	181	---	248	521	---	6190	---	454	---	1130	353	---
TOTAL	7649	8049	10554	17244	27946	67185	49288	14978	15335	13156	8443	6914
MEAN	247	268	340	556	998	2167	1643	483	511	424	272	230
MAX	525	795	1110	3170	5610	15700	11200	2100	2860	1950	697	724
MIN	173	171	198	220	300	558	444	244	187	110	143	99
CFSM	.19	.21	.27	.44	.78	1.70	1.29	.38	.40	.33	.21	.18
IN.	.22	.23	.31	.50	.82	1.96	1.44	.44	.45	.38	.25	.20

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2001, BY WATER YEAR (WY)

	656	714	1100	2227	2177	2558	1708	1123	868	780	561	889
MEAN	656	714	1100	2227	2177	2558	1708	1123	868	780	561	889
MAX	2906	2888	2681	5895	5465	6110	4044	3936	4632	4477	1893	4904
(WY)	1991	1986	1984	1978	1979	1975	1987	1978	1982	1975	1985	1996
MIN	131	147	275	262	627	648	412	256	155	135	118	111
(WY)	1999	1999	1981	1981	1977	1988	1995	1986	1986	1986	1987	1983

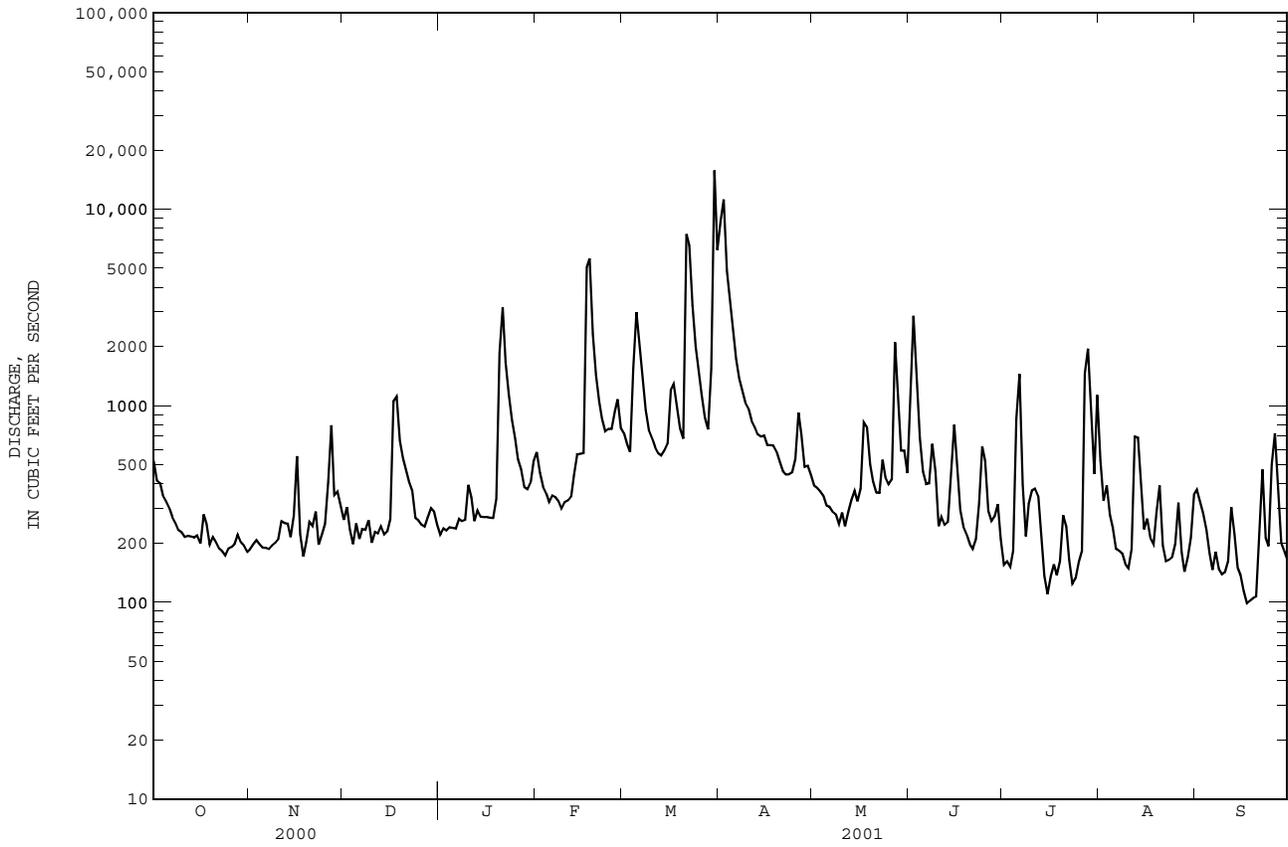
## SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1973 - 2001

ANNUAL TOTAL	347108	246741		
ANNUAL MEAN	948	676	1276	
HIGHEST ANNUAL MEAN			2181	1975
LOWEST ANNUAL MEAN			164	1973
HIGHEST DAILY MEAN	9710	Jul 24	15700	Mar 30
LOWEST DAILY MEAN	115	Aug 23	99	Sep 17
ANNUAL SEVEN-DAY MINIMUM	189	Oct 21	116	Sep 14
MAXIMUM PEAK FLOW			19200	Mar 30
MAXIMUM PEAK STAGE			12.50	Mar 30
INSTANTANEOUS LOW FLOW			89*	Jul 15
ANNUAL RUNOFF (CFSM)	.74	.53	1.00	
ANNUAL RUNOFF (INCHES)	10.13	7.20	13.60	
10 PERCENT EXCEEDS	2380	1150	2750	
50 PERCENT EXCEEDS	521	321	571	
90 PERCENT EXCEEDS	200	177	166	

e Estimated.

\* See REMARKS.

02096960 HAW RIVER NEAR BYNUM, NC--Continued



0209719700 B. EVERETT JORDAN LAKE, HAW RIVER ARM, ABOVE B. EVERETT JORDAN DAM, NC

LOCATION.--Lat 35°39'39", long 79°04'23", Chatham County, Hydrologic Unit 03030002, 0.5 mi above B. Everett Jordan Dam, and 1.4 mi southwest of Merry Oaks.

PERIOD OF RECORD.--Water years 1989 to current year. Prior to October 1993, published as Haw River at U.S. Highway 64 near Pittsboro (station 0209699980).

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. Samples for nutrient and chlorophyll a and b analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	BAROMETRIC PRESSURE (MM OF HG) (00025)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS-SOLVED (PERCENT SATURATION) (MG/L) (00300)	OXYGEN, DIS-SOLVED (PERCENT SATURATION) (MG/L) (00301)	HARDNESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg) (00925)
OCT													
17...	1031	1.0	164	11.4	18.8	15	754	.60	10.5	114	34	8.47	3.22
17...	1032	2.0	160	10.7	18.6	--	754	--	9.1	98	--	--	--
17...	1033	3.3	292	11.5	18.3	--	754	--	9.9	107	--	--	--
APR													
26...	1200	1.0	149	7.0	18.5	20	768	.95	8.0	84	31	7.62	3.02
26...	1205	2.0	144	6.3	15.5	--	768	--	5.1	50	--	--	--
26...	1210	4.0	171	6.3	13.9	--	768	--	2.4	23	--	--	--
JUN													
19...	1100	1.0	258	7.8	27.9	20	763	.70	7.2	91	42	10.2	3.92
19...	1105	2.9	201	7.3	26.7	--	763	--	5.6	70	--	--	--
19...	1110	5.8	257	6.5	24.7	--	763	--	.7	9	--	--	--
AUG													
24...	1020	1.0	223	9.1	28.9	20	757	.30	10.1	133	35	8.70	3.17
24...	1025	2.5	217	7.5	28.9	--	757	--	5.4	71	--	--	--
24...	1030	5.2	239	7.1	27.3	--	757	--	4.4	56	--	--	--

DATE	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	BICARBONATE (MG/L AS HCO3) (99440)	ANC WATER UNFLTRD IT FIELD (MG/L AS CaCO3) (00419)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
OCT													
17...	18.5	51	1	3.69	30	25	16.6	14.2	.3	7.0	105	.001	<.005
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
26...	14.4	47	1	3.08	38	31	15.7	12.5	E.2	6.0	90	.008	.333
26...	--	--	--	--	--	--	--	--	--	--	--	.010	.337
26...	--	--	--	--	--	--	--	--	--	--	--	.013	.363
JUN													
19...	33.8	60	2	5.19	52	42	28.5	27.4	.2	10.8	186	.010	1.02
19...	--	--	--	--	--	--	--	--	--	--	--	.016	.559
19...	--	--	--	--	--	--	--	--	--	--	--	.022	.541
AUG													
24...	27.9	60	2	4.83	49	41	23.0	21.3	.2	5.9	128	.008	.046
24...	--	--	--	--	--	--	--	--	--	--	--	.014	.146
24...	--	--	--	--	--	--	--	--	--	--	--	.034	.413

DATE	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)
OCT													
17...	.010	1.0	1.0	--	.071	.007	3.0	<.1	72	<2	<.11	--	M
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
26...	.078	.63	.71	1.0	.079	.021	6.8	<.1	158	<2	<.11	<.14	<1
26...	.180	.56	.74	1.1	E.052	.013	--	--	--	--	--	--	--
26...	.427	.75	1.2	1.5	.147	.023	--	--	--	--	--	--	--
JUN													
19...	.007	.92	.93	1.9	.174	.125	7.9	.7	--	--	--	--	--
19...	.021	.91	.93	1.5	.117	.051	--	--	--	--	--	--	--
19...	.095	.77	.86	1.4	.092	.054	--	--	--	--	--	--	--
AUG													
24...	.008	1.5	1.5	1.6	.132	.007	40.5	1.0	--	--	--	--	--
24...	.007	1.3	1.3	1.5	.122	.015	--	--	--	--	--	--	--
24...	.064	.79	.86	1.3	.105	.042	--	--	--	--	--	--	--



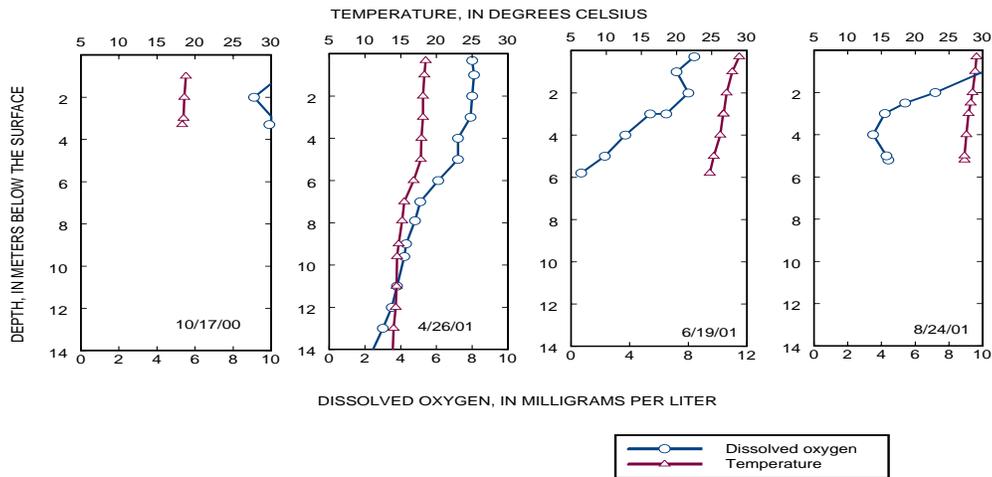
CAPE FEAR RIVER BASIN

0209719700 B. EVERETT JORDAN LAKE, HAW RIVER ARM, ABOVE B. EVERETT JORDAN DAM, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,1,2- TRI- CHLORO- ETHANE TOTAL (UG/L) (34511)	ETHANE, 1,1,2,2 TETRA- CHLORO- WAT UNF REC (UG/L) (34516)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L) (32103)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	TRANS- 1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546)	HEXA- CHLORO- BUT- ADIENE TOTAL (UG/L) (39702)	ETHANE HEXA- CHLORO- WATER UNFLTRD RECOVER (UG/L) (34396)	NAPHTH- ALENE TOTAL (UG/L) (34696)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (UG/L) (34551)
OCT													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
19...	<.04	<.04	<.03	<.06	<.09	<.03	<.1	<.03	<.03	<.1	<.2	<.2	<.2
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)
OCT							
17...	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--
APR							
26...	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--
JUN							
19...	<.03	<.05	<.04	.058	.054	<.006	<.018
19...	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--
AUG							
24...	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--





USGS hydrographer making a wading discharge measurement below dam at Cullasaja River near Highlands, North Carolina.

## CAPE FEAR RIVER BASIN

02097314 NEW HOPE CREEK NEAR BLANDS, NC

LOCATION.--Lat 35°53'05", long 78°57'58", Durham County, Hydrologic Unit 03030002, on right bank 15 ft downstream of bridge on Secondary Road 1107, 0.5 mi southwest of Blands, and 2 mi downstream of Third Fork Creek.

DRAINAGE AREA.--75.9 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1982 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 230 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. Considerable diurnal fluctuation at low flow. An average of 59.1 ft<sup>3</sup>/s was diverted from the Neuse River Basin for Durham municipal water supply; 21.0 ft<sup>3</sup>/s was returned to the Cape Fear River Basin, and about 12.7 ft<sup>3</sup>/s was returned to the Neuse River Basin. Maximum discharge for period of record 12,700 ft<sup>3</sup>/s, from rating curve extended above 3,500 ft<sup>3</sup>/s, by logarithmic plotting. Maximum gage height for period of record occurred as a result of backwater from B. Everett Jordan Lake; maximum gage height unaffected by backwater, 14.05 ft, Sept. 6, 1996. Minimum discharge for period of record not determined due to regulation. Minimum discharge unregulated, 4.2 ft<sup>3</sup>/s, Apr. 28, 29, May 1, 2, and July 10, 1985. Minimum discharge for current water year due to regulation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	11	22	16	33	54	e2000	23	69	17	e35	32
2	25	11	20	16	31	90	e1000	23	492	17	21	33
3	23	11	18	17	28	42	e450	23	501	16	20	23
4	22	11	17	16	26	197	e230	22	125	15	17	20
5	22	11	17	16	27	306	e120	21	36	26	16	18
6	22	12	16	16	30	247	e95	20	26	24	16	17
7	20	12	16	16	30	155	e80	19	22	16	15	16
8	18	12	16	16	28	79	e75	19	21	19	15	15
9	18	12	15	17	27	59	e70	19	18	49	16	15
10	17	13	14	18	25	49	e65	19	16	26	16	46
11	17	13	14	19	25	42	e60	19	15	20	45	24
12	16	12	15	17	26	39	e55	20	15	17	344	18
13	16	13	15	15	37	40	e50	32	15	17	366	16
14	15	14	15	15	50	41	e45	23	102	15	86	15
15	15	17	15	16	e50	43	e40	19	249	14	37	14
16	15	17	16	16	e45	e45	37	109	67	15	26	14
17	15	16	e90	16	e200	e50	33	82	33	14	21	14
18	15	15	e260	17	326	e40	37	41	21	14	19	14
19	15	15	e100	18	379	e38	34	28	16	28	22	13
20	14	17	89	47	301	33	31	23	14	20	25	9.0
21	13	21	62	119	157	344	28	21	13	16	21	33
22	13	22	44	120	88	603	e25	21	18	15	19	27
23	13	20	31	89	120	447	e22	55	211	15	18	17
24	13	18	25	62	83	268	e20	34	168	16	24	23
25	14	20	22	46	66	118	e30	23	117	22	23	145
26	13	55	20	37	88	67	88	44	66	18	18	55
27	12	62	19	31	87	53	39	89	32	133	17	24
28	12	45	19	27	60	43	29	28	28	318	22	18
29	12	33	18	26	---	128	25	33	22	76	23	16
30	12	25	17	28	---	e800	24	23	19	81	23	15
31	12	---	16	35	---	e1600	---	26	---	e50	37	---
TOTAL	504	586	1093	980	2473	6160	4937	1001	2567	1159	1423	759.0
MEAN	16.3	19.5	35.3	31.6	88.3	199	165	32.3	85.6	37.4	45.9	25.3
MAX	25	62	260	120	379	1600	2000	109	501	318	366	145
MIN	12	11	14	15	25	33	20	19	13	14	15	9.0
CFSM	.21	.26	.46	.42	1.16	2.62	2.17	.43	1.13	.49	.60	.33
IN.	.25	.29	.54	.48	1.21	3.02	2.42	.49	1.26	.57	.70	.37

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2001, BY WATER YEAR (WY)

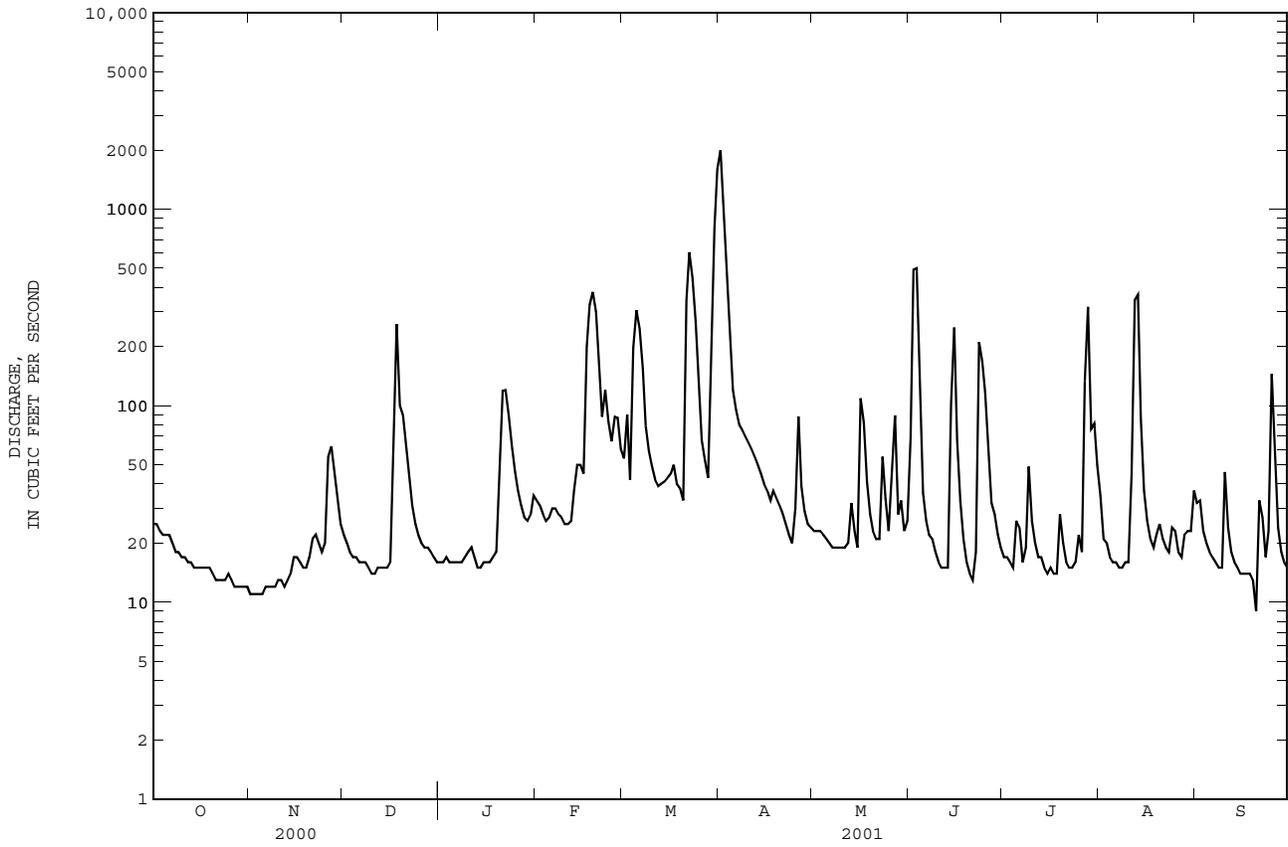
	MEAN	74.0	79.0	162	205	207	145	92.0	46.8	46.2	42.2	68.3
MEAN	46.2	74.0	79.0	162	205	207	145	92.0	46.8	46.2	42.2	68.3
MAX	122	371	264	509	463	493	618	411	154	156	97.8	507
(WY)	1990	1986	1984	1991	1998	1998	1987	1997	1995	1995	1986	1999
MIN	12.8	16.1	17.0	31.6	62.3	42.0	13.5	29.4	14.3	12.9	14.5	10.8
(WY)	1987	1985	1989	2001	1986	1985	1985	1994	1985	1993	1997	1984

## SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1983 - 2001

ANNUAL TOTAL	28395	23642.0	
ANNUAL MEAN	77.6	64.8	
HIGHEST ANNUAL MEAN			101
LOWEST ANNUAL MEAN			156
HIGHEST DAILY MEAN	1320	Jul 24	2000 Apr 1
LOWEST DAILY MEAN	11	Nov 1	9.0 Sep 20
ANNUAL SEVEN-DAY MINIMUM	11	Oct 30	11 Oct 30
MAXIMUM PEAK FLOW			NOT DETERMINED
MAXIMUM PEAK STAGE			NOT DETERMINED
INSTANTANEOUS LOW FLOW			4.7* Sep 20
ANNUAL RUNOFF (CFSM)	1.02	.85	1.32
ANNUAL RUNOFF (INCHES)	13.92	11.59	18.00
10 PERCENT EXCEEDS	220	118	219
50 PERCENT EXCEEDS	30	23	34
90 PERCENT EXCEEDS	15	14	13

e Estimated.  
\* See REMARKS.

02097314 NEW HOPE CREEK NEAR BLANDS, NC--Continued



CAPE FEAR RIVER BASIN

02097314 NEW HOPE CREEK NEAR BLANDS, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1983-86, 1989-1995, 1997-1999, 2001.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1982 to September 1985.

WATER TEMPERATURE: December 1982 to September 1985.

INSTRUMENTATION.--Water-quality monitor from October 1982 to September 1985.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 535 microsiemens, Sept. 30, 1984; minimum, 38 microsiemens. Mar. 6, 7, 1984.

WATER TEMPERATURE: Maximum, 27.5°C, Aug. 23, 1983; minimum, 0.0°C, Jan. 21, 22, 1985.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED SATUR-ATION (MG/L) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
MAR 15...	1130	34	245	6.9	13.6	50	753	8.1	79	55	14.8	4.36	25.3
DATE	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE IT-FLD (MG/L AS HCO3) (99440)	ANC WATER UNFLTRD IT FIELD (MG/L AS CACO3) (00419)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, DIS-SOLVED (MG/L AS N) (00608)
MAR 15...	47	1	5.03	54	44	20.5	24.9	.5	9.4	162	.004	2.42	.020
DATE	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
MAR 15...	.60	.62	3.0	.169	.113	411	<2	<.11	M	<2	2.1	1060	1
DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL RECOV-ERABLE (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)			
MAR 15...	145	<.14	2.9	3	<2.6	<.43	E26	7.2	59	5.4			



Gaging station at Cataloochee Creek near Cataloochee, North Carolina.

CAPE FEAR RIVER BASIN

0209736050 BATTLE BRANCH NEAR CHAPEL HILL, NC

LOCATION.--Lat 35°55'02", long 79°01'57", Orange County, Hydrologic Unit 03030002, 0.8 mi upstream from mouth, and 1.2 mi east of Chapel Hill.

DRAINAGE AREA.--0.42 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1996 to September 2001 (discontinued). Prior to October 1994, published as "Little Creek Tributary near Chapel Hill, NC".

GAGE.--Water-stage recorder. Datum of gage is 376 ft above sea level, from topographic map. Water stage recorder was at present site, at datum of 377 ft, Feb. 1987 to Sept. 1996. Satellite telemetry at station.

REMARKS.--Records poor. No flow occurs at times during most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.07	.05	e.03	.10	.04	.02	4.4	.02	9.0	.02	.00	.04
2	.06	.04	e.02	.11	.03	.02	2.4	.02	2.7	.02	.00	.02
3	.04	.05	.02	.12	.03	.49	1.8	.02	1.3	.02	.00	.02
4	.05	.05	.02	.06	.03	3.0	1.2	.02	.82	.19	.00	.09
5	.03	.05	.02	.06	.48	1.2	.54	.02	.35	.39	.00	.02
6	.03	.05	.02	.20	.06	.22	.35	.02	.27	.01	.00	.02
7	.02	.06	.02	.06	.03	.13	.24	.01	.32	.01	.00	.02
8	.02	.10	.02	.22	.02	.08	.16	.01	.31	.85	.00	.02
9	.02	.10	.02	.08	.03	.05	.12	.02	.26	.04	.00	.02
10	.02	.13	.02	.09	.10	.04	.10	.02	.20	.01	.18	.14
11	.02	.11	e.02	.07	.03	.04	.08	.02	.22	.01	7.6	.02
12	.02	.12	e.02	.08	.86	.04	.07	.79	.28	.01	1.3	.01
13	.01	.14	.03	.08	.57	.07	.07	.08	1.4	.01	.25	.01
14	.01	1.1	e.03	.11	.33	.04	.05	.06	1.7	.01	.09	.02
15	.01	.04	.04	.11	.11	.65	.05	.74	.59	.01	.05	.01
16	.01	.03	.36	.10	.15	.03	.05	2.1	.17	.01	.04	.01
17	.01	.15	2.5	.10	4.6	.02	.09	.14	.11	.01	.04	.01
18	.01	.06	.11	.33	.41	.02	.04	.51	.09	.01	.19	.02
19	.01	1.1	.64	.85	.08	.02	.04	.06	.09	.02	.26	.02
20	.01	1.8	.37	3.3	.05	3.0	.04	.05	.09	.01	.12	.05
21	.01	.48	.07	.47	.03	4.4	.04	.05	.36	.01	.06	.09
22	.01	.23	.05	.10	.26	1.5	.04	.67	1.3	.01	.05	.03
23	.01	.11	.10	.08	.09	.33	.04	.84	.59	.01	.05	.03
24	.02	.10	.11	.05	.04	.10	.03	.12	.05	.29	.96	1.9
25	.26	2.0	.10	.05	.52	.05	1.2	.16	2.4	.01	.04	.08
26	.03	.20	.10	.04	.06	.04	.04	1.0	.14	.02	.02	.04
27	.03	e.04	.11	.05	.03	.03	.02	.12	.06	1.7	.04	.02
28	.03	e.04	.11	.04	.03	.02	.02	.51	.04	.00	.03	.02
29	.02	e.03	.11	.05	---	12	.02	.68	.03	.01	.04	.02
30	.03	e.03	.11	.62	---	5.4	.02	.14	.02	.00	1.3	.02
31	.03	---	.10	.04	---	3.9	---	.09	---	.00	.27	---
TOTAL	0.96	8.59	5.40	7.82	9.10	36.95	13.36	9.11	25.26	3.73	12.98	2.84
MEAN	.031	.29	.17	.25	.32	1.19	.45	.29	.84	.12	.42	.095
MAX	.26	2.0	2.5	3.3	4.6	12	4.4	2.1	9.0	1.7	7.6	1.9
MIN	.01	.03	.02	.04	.02	.02	.02	.01	.02	.00	.00	.01
CFSM	.07	.68	.41	.60	.77	2.84	1.06	.70	2.00	.29	1.00	.23
IN.	.09	.76	.48	.69	.81	3.27	1.18	.81	2.24	.33	1.15	.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001,® BY WATER YEAR (WY)

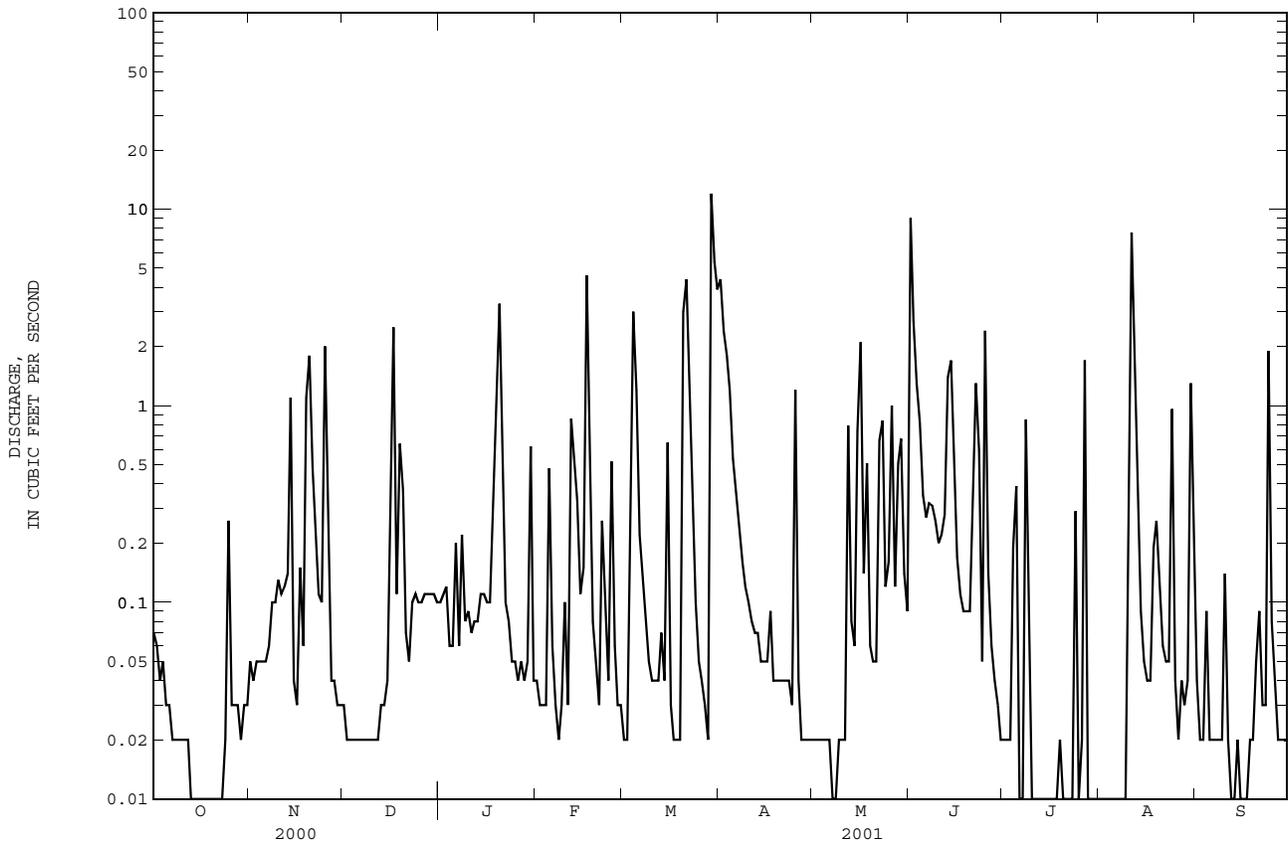
	1997	1997	1999	1999	1998	1998	2000	2000	1997	1997	1999	1999
MEAN	.42	.40	.32	1.05	.88	1.05	.59	.27	.43	.34	.37	2.31
MAX	.69	.52	.52	1.76	1.92	2.34	1.15	.46	.84	.75	.68	9.74
(WY)	1997	1997	1999	1999	1998	1998	2000	2000	1997	2000	1999	1999
MIN	.031	.25	.17	.25	.32	.34	.37	.11	.083	.098	.13	.095
(WY)	2001	1999	2001	2001	2001	1997	1998	1999	1999	1998	1997	2001

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1997 - 2001®

ANNUAL TOTAL	216.25	136.10	
ANNUAL MEAN	.59	.37	.70
HIGHEST ANNUAL MEAN			1.26 1999
LOWEST ANNUAL MEAN			.37 2001
HIGHEST DAILY MEAN	11 Jul 24	12 Mar 29	70 Sep 5 1999
LOWEST DAILY MEAN	.01 Oct 13	.00 Jul 28	.00 Jul 27 1999
ANNUAL SEVEN-DAY MINIMUM	.01 Oct 13	.00 Jul 30	.00 Jul 30 1999
MAXIMUM PEAK FLOW		293 Aug 11	NOT DETERMINED
MAXIMUM PEAK STAGE		5.17 Aug 11	5.42 Sep 6 1999
INSTANTANEOUS LOW FLOW		.00* Jul 28	.00* Jul 27 1999
ANNUAL RUNOFF (CFSM)	1.41	.89	1.66
ANNUAL RUNOFF (INCHES)	19.15	12.05	22.62
10 PERCENT EXCEEDS	1.4	.85	1.2
50 PERCENT EXCEEDS	.21	.05	.16
90 PERCENT EXCEEDS	.03	.01	.03

e Estimated.  
® See PERIOD OF RECORD.  
\* See REMARKS.

0209736050 BATTLE BRANCH NEAR CHAPEL HILL, NC--Continued



CAPE FEAR RIVER BASIN

0209736050 BATTLE BRANCH NEAR CHAPEL HILL, NC--Continued

PRECIPITATION RECORDS

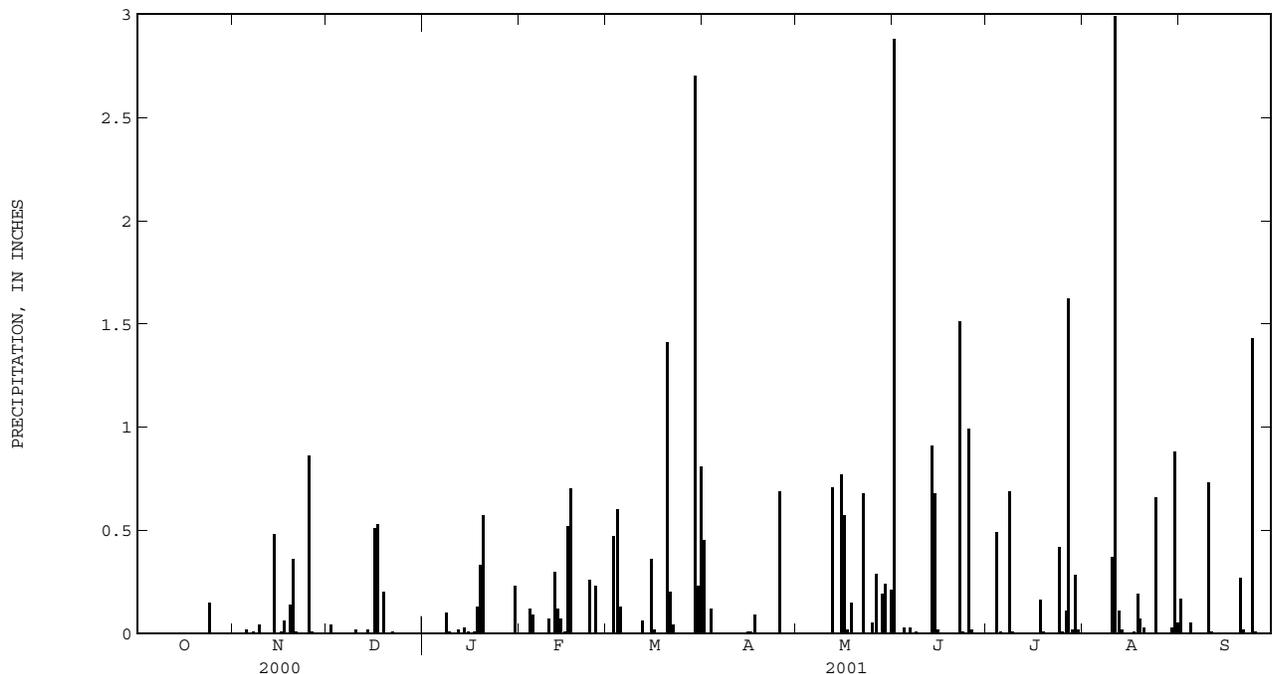
PERIOD OF RECORD.--February 1987 to September 2001 (discontinued). October 1990 to September 1995 (flood-hydrograph rainfall-runoff only). February 1987 to September 1994 published as "Little Creek Tributary near Chapel Hill, NC". Rainfall records from February 1987 to January 2000 are unpublished and available in the USGS District Office, Raleigh, NC.

INSTRUMENTATION.--Tipping-bucket raingage and data collection platform.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.45	.00	2.88	.00	.00	.17
2	.00	.00	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.47	.12	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.12	.60	.00	.00	.03	.49	.00	.05
5	.00	.02	.00	.00	.09	.13	.00	.00	.00	.01	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.10	.00	.00	.00	.00	.01	.69	.00	.00
9	.00	.04	.00	.01	.00	.00	.00	.00	.00	.01	.00	.00
10	.00	.00	.02	.00	.07	.00	.00	.00	.00	.00	.37	.73
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.99	.01
12	.00	.00	.00	.02	.30	.06	.00	.71	.00	.00	.11	.00
13	.00	.00	.00	.00	.12	.00	.00	.00	.91	.00	.02	.00
14	.00	.48	.02	.03	.07	.00	.00	.00	.68	.00	.00	.00
15	.00	.00	.00	.01	.01	.36	.01	.77	.02	.00	.00	.00
16	.00	.01	.51	.00	.52	.02	.01	.57	.00	.00	.00	.00
17	.00	.06	.53	.01	.70	.00	.09	.02	.00	.00	.01	.00
18	.00	.00	.00	.13	.00	.00	.00	.15	.00	.16	.19	.00
19	.00	.14	.20	.33	.00	.00	.00	.00	.00	.01	.07	.00
20	.00	.36	.00	.57	.00	1.41	.00	.00	.00	.00	.03	.27
21	.00	.01	.00	.00	.00	.20	.00	.00	.00	.00	.00	.02
22	.00	.00	.01	.00	.00	.04	.00	.68	1.51	.00	.00	.00
23	.00	.00	.00	.00	.26	.00	.00	.00	.01	.00	.00	.00
24	.15	.00	.00	.00	.00	.00	.00	.00	.00	.42	.66	1.43
25	.00	.86	.00	.00	.23	.00	.69	.05	.99	.01	.00	.01
26	.00	.01	.00	.00	.00	.00	.00	.29	.02	.11	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.62	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.19	.00	.02	.00	.00
29	.00	.00	.00	.00	---	2.70	.00	.24	.00	.28	.03	.00
30	.00	.00	.00	.23	---	.23	.00	.00	.00	.02	.88	.00
31	.00	---	.00	.00	---	.81	---	.21	---	.00	.05	---
TOTAL	0.15	2.00	1.33	1.44	2.49	7.03	1.37	3.88	7.09	3.85	5.41	2.69





USGS hydrographer making a wading discharge measurement at Pee Dee River below Lake Tillery, North Carolina.

## CAPE FEAR RIVER BASIN

0209741955 NORTHEAST CREEK AT SECONDARY ROAD 1100 NEAR GENLEE, NC

LOCATION.--Lat 35°52'20", long 78°54'49", Durham County, Hydrologic Unit 03030002, on left bank at downstream side of bridge on Secondary Road 1100, 1.3 mi west of Genlee, and 1.6 mi downstream of Burdens Creek.

DRAINAGE AREA.--21.1 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1982 to January 1994, August 1995 to current year.

GAGE.--Water-stage recorder. Datum of gage is 229.01 ft above sea level, by levels. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges and those discharges below 10 ft<sup>3</sup>/s, which are poor. An average of 59.0 ft<sup>3</sup>/s was diverted from the Neuse River basin for municipal water supply; 21.0 ft<sup>3</sup>/s was returned to the Cape Fear River basin, of which 5.8 ft<sup>3</sup>/s entered upstream from station as treated effluent. About 12.7 ft<sup>3</sup>/s was returned to the Neuse River basin as treated effluent. Maximum discharge for period of record from rating curve extended above 2,000 ft<sup>3</sup>/s, by logarithmic plotting.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	3.5	5.1	18	20	e14	345	e6.0	e80	e5.0	e3.0	18
2	6.4	3.7	e5.1	18	19	e13	402	e5.9	e50	e4.9	2.6	16
3	6.1	3.9	e5.1	18	17	e20	76	e5.8	e30	e4.8	3.1	11
4	5.8	3.9	e5.1	19	17	e200	30	e5.7	e18	e5.0	3.6	10
5	5.9	4.5	e5.2	19	21	e130	16	e5.5	e12	e5.0	3.8	10
6	5.7	5.2	e5.2	18	21	e80	11	e5.4	e8.5	e4.9	4.2	9.1
7	5.0	5.5	5.2	19	19	e48	10	e5.3	e6.0	e4.8	4.2	8.5
8	4.7	5.9	5.4	21	18	e30	9.1	e5.0	e5.5	e7.0	4.2	8.2
9	5.2	6.2	5.4	22	e17	e25	9.0	e5.0	e5.0	e7.8	3.8	9.4
10	5.2	6.5	5.4	22	e16	e20	8.4	e4.9	e4.4	e8.0	3.8	11
11	5.0	6.5	5.6	21	e16	e16	8.1	e4.8	e4.0	e6.2	7.7	11
12	4.7	6.9	5.6	22	e15	e14	7.6	e4.8	e3.5	e5.0	87	9.3
13	4.4	7.7	5.4	21	e25	e14	7.3	e5.0	e6.0	e5.0	34	9.3
14	4.1	9.9	5.7	22	e40	e13	6.4	e4.6	e30	e4.9	e32	9.1
15	3.9	7.5	5.6	23	e36	e15	6.2	e4.0	e15	e4.8	e18	9.4
16	4.7	7.3	6.7	23	e30	e16	6.5	e20	e6.0	e4.7	11	8.6
17	4.8	7.3	153	22	e400	e13	6.8	e10	e4.5	e4.5	11	8.9
18	4.9	7.1	170	23	e120	e8.0	6.8	e5.2	e3.3	e4.4	11	8.8
19	4.8	7.6	29	23	e60	e6.0	6.7	e5.1	e2.9	e4.3	12	8.7
20	4.5	9.8	29	50	e35	e9.0	6.4	e5.0	e2.4	e4.1	13	8.6
21	4.5	8.7	25	34	e21	459	5.9	e5.0	e2.2	e4.0	14	9.5
22	4.5	8.2	23	23	e19	280	6.0	e5.5	e3.8	e4.0	11	8.5
23	5.0	7.4	21	20	e17	37	e6.0	e6.0	e6.0	e4.0	10	8.3
24	4.8	7.2	20	19	e18	15	e6.0	e5.6	e5.2	e8.0	23	19
25	4.7	16	19	18	e19	11	e9.0	e5.3	e40	e16	12	34
26	4.4	42	19	17	e20	9.7	e7.5	e42	e19	e18	9.8	8.2
27	4.1	6.8	19	16	e17	8.8	e6.0	e17	e10	e90	9.9	6.2
28	3.6	5.7	19	16	e15	8.3	e5.0	e7.0	e8.5	e18	14	5.5
29	3.3	5.5	18	18	---	125	e5.4	e6.1	e7.0	e4.0	12	5.2
30	3.4	5.2	19	21	---	722	e5.6	e5.6	e6.0	e5.0	38	5.4
31	3.5	---	18	22	---	224	---	e5.0	---	e3.8	188	---
TOTAL	147.4	239.1	687.8	668	1108	2603.8	1047.7	233.1	404.7	279.9	614.7	312.7
MEAN	4.75	7.97	22.2	21.5	39.6	84.0	34.9	7.52	13.5	9.03	19.8	10.4
MAX	6.4	42	170	50	400	722	402	42	80	90	188	34
MIN	3.3	3.5	5.1	16	15	6.0	5.0	4.0	2.2	3.8	2.6	5.2
CFSM	.23	.38	1.05	1.02	1.88	3.98	1.66	.36	.64	.43	.94	.49
IN.	.26	.42	1.21	1.18	1.95	4.59	1.85	.41	.71	.49	1.08	.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2001,® BY WATER YEAR (WY)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	18.8	25.6	30.9	57.4	58.6	62.2	35.7	19.3	12.3	14.8	16.9	34.3							
MAX	60.2	82.7	86.3	134	111	128	84.5	59.1	44.4	48.6	66.7	247							
(WY)	1986	1993	1984	1998	1998	1998	1993	1990	1992	1989	1986	1999							
MIN	3.27	3.89	4.32	12.6	10.8	8.18	4.00	6.98	4.55	3.33	3.50	2.49							
(WY)	1986	1985	1989	1986	1991	1985	1985	1999	1987	1983	1983	1983							

SUMMARY STATISTICS

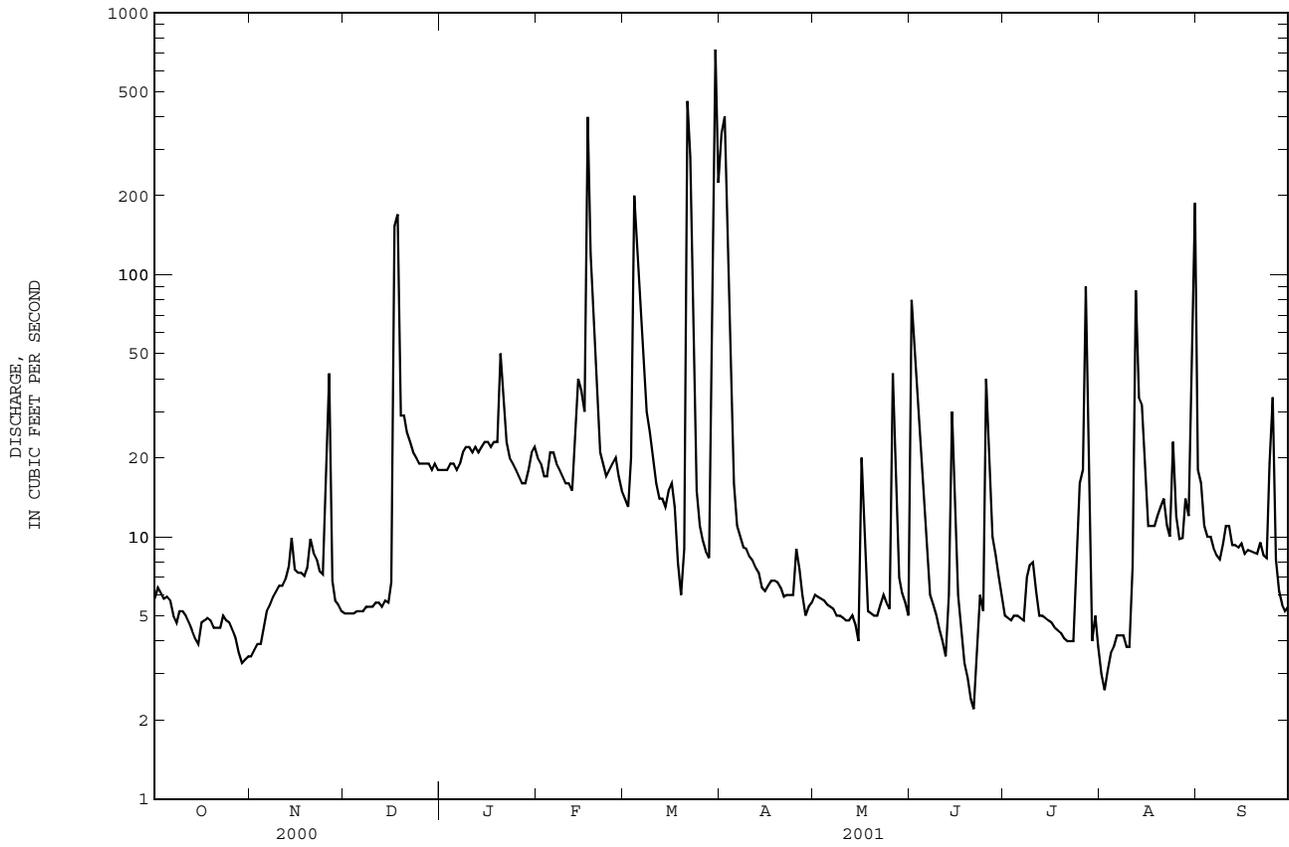
	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1983 - 2001®	
ANNUAL TOTAL	8737.5		8346.9			
ANNUAL MEAN	23.9		22.9		32.5	
HIGHEST ANNUAL MEAN					49.1	
LOWEST ANNUAL MEAN					14.7	
HIGHEST DAILY MEAN	579	Jan 31	722	Mar 30	3350	Sep 6 1996
LOWEST DAILY MEAN	3.3	Oct 29	2.2	Jun 21	.74	Jul 16 1991
ANNUAL SEVEN-DAY MINIMUM	3.6	Oct 28	3.4	Jul 31	1.5	Oct 7 1985
MAXIMUM PEAK FLOW			902		5140*	
MAXIMUM PEAK STAGE			10.23		13.92	
INSTANTANEOUS LOW FLOW			NOT DETERMINED		.76	
ANNUAL RUNOFF (CFSM)	1.13		1.08		1.54	
ANNUAL RUNOFF (INCHES)	15.40		14.72		20.94	
10 PERCENT EXCEEDS	45		30		59	
50 PERCENT EXCEEDS	11		8.3		8.9	
90 PERCENT EXCEEDS	5.2		4.4		4.0	

e Estimated.

® See PERIOD OF RECORD.

\* See REMARKS.

0209741955 NORTHEAST CREEK AT SECONDARY ROAD 1100 NEAR GENLEE, NC--Continued



WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1983-86, 1988-1995, 1999, 2001.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1982 to September 1985.

WATER TEMPERATURE: October 1982 to September 1985.

INSTRUMENTATION.--Water-quality monitor from October 1982 to September 1985.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment.

COOPERATION.--Sample for October 1994 and April 1995 were collected by the North Carolina Department of Environment, Health, and Natural Resources. A GC/FID scan for trace organic compounds was performed on these samples by the U.S. Geological Survey Water Quality Lab. Results may be obtained from the District Office in Raleigh, NC. Instantaneous discharge is not available for April and August 1994.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 872 microsiemens, Oct. 15, 1984; minimum, 29 microsiemens, Jan. 11, Apr. 5, 1984.

WATER TEMPERATURE: Maximum, 29.0°C, Aug. 23, 1983; minimum, 0.0°C, Dec. 28, 1983, Jan. 2, 22, 23, 1984.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	BAROMETRIC PRESSURE (MM HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, SATURATION (MG/L) (00301)	HARDNESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg) (00925)	
MAR														
	15...	1315	E15	--	538	6.6	13.2	50	750	.8	8	77	21.3	5.85
	22...	0845	--	401	95	6.7	9.0	400	751	7.9	70	25	6.65	2.10
DATE		SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	BICARBONATE (MG/L AS HCO3) (99440)	ANC WATER UNFLTRD IT FIELD (MG/L AS CAC03) (00419)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	
MAR														
	15...	70.0	63	3	9.13	49	40	44.2	85.7	.7	8.6	344	.065	9.49
	22...	7.4	36	.6	2.10	26	21	9.4	8.6	E.1	6.2	74	.012	.180
DATE		NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, PHOS (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
MAR														
	15...	.266	1.3	1.6	11	1.82	1.49	301	<2	<.11	1	<2	10.3	530
	22...	.284	.86	1.1	1.3	.217	.082	1700	<2	<.11	3	<2	11.2	1400
DATE		LEAD, TOTAL RECOVERABLE (UG/L AS Pb) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS Mn) (01055)	MERCURY, TOTAL RECOVERABLE (UG/L AS Hg) (71900)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS Mo) (01062)	NICKEL, TOTAL RECOVERABLE (UG/L AS Ni) (01067)	SELENIUM, TOTAL (UG/L AS Se) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS Ag) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS Zn) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)		
MAR														
	15...	M	98	<.14	17.8	3	<2.6	<.43	144	8.9	12	--		
	22...	3	68	<.14	E.9	3	<2.6	<.43	<31	15	56	60		



Flow over dam at Cullasaja River near Highlands, North Carolina.

CAPE FEAR RIVER BASIN

02097464 MORGAN CREEK NEAR WHITE CROSS, NC

LOCATION.--Lat 35°55'25", long 79°06'56", Orange County, Hydrologic Unit 03020002, at downstream side of culvert on State Highway 54, 2 mi upstream from University Lake, and 3.5 mi east of White Cross.

DRAINAGE AREA.--8.35 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 420 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record from rating curve extended above 2,700 ft<sup>3</sup>/s, by logarithmic plotting. Minimum discharge for period of record also occurred Sept. 13, 14. Minimum discharge for current water year also occurred Sept. 18, 19, 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.0	.75	1.7	1.8	2.6	112	3.2	41	.80	1.1	.41
2	1.4	1.1	.73	1.6	1.7	2.3	48	e3.1	22	.73	.94	.38
3	1.4	1.2	.74	1.6	1.6	2.5	24	e3.0	7.4	.71	.83	.34
4	1.3	1.2	.75	1.6	1.6	23	19	e2.9	4.1	.77	.76	.33
5	1.4	1.3	.69	1.6	2.2	18	16	e2.8	3.4	.82	.75	.31
6	1.4	1.2	.72	1.6	2.0	8.7	13	e2.8	2.8	.70	.61	.26
7	1.3	1.3	.72	1.7	1.8	5.5	12	e2.7	2.4	.65	.58	.22
8	1.2	1.3	.71	1.9	2.5	4.2	10	e2.7	2.3	1.2	.56	.19
9	1.3	1.3	.69	1.8	2.4	3.6	9.2	e2.6	2.2	1.2	.48	.15
10	1.3	1.4	.68	1.6	2.2	3.0	7.7	e2.5	1.9	1.3	.52	.14
11	1.3	1.9	.72	1.5	1.9	2.7	6.8	e2.4	1.7	.81	1.1	.15
12	1.2	2.2	.74	1.4	2.0	2.5	6.3	e2.4	1.6	.58	1.7	.15
13	1.0	2.2	.70	1.5	3.7	2.7	5.7	e2.8	2.3	.53	.67	.15
14	.97	2.8	.78	1.6	3.9	2.4	5.0	e2.6	6.6	.51	.70	.13
15	1.2	2.5	.76	1.7	3.7	3.1	4.8	e2.4	4.4	.50	.45	.10
16	1.3	1.8	.90	1.7	3.2	3.7	4.6	e7.0	2.3	.44	.36	.08
17	1.3	2.0	22	1.6	70	2.9	4.1	3.2	1.8	.41	.36	.07
18	1.4	2.0	5.0	1.7	17	2.5	4.2	3.2	1.5	.41	.41	.06
19	1.5	2.0	3.0	2.2	7.5	2.3	3.7	3.0	1.3	.40	.48	.06
20	1.4	2.5	2.9	16	4.7	7.0	3.7	2.9	1.2	.37	.56	.08
21	1.4	2.1	2.2	6.8	3.6	83	3.9	3.0	1.1	.38	.46	.19
22	1.3	1.7	2.4	3.4	3.4	19	3.9	3.3	1.3	.32	.36	.17
23	1.3	1.5	2.2	2.6	3.6	9.4	3.9	3.9	2.4	.28	.32	.14
24	1.2	1.4	2.1	2.2	4.2	6.0	3.8	3.3	2.0	.61	.50	.89
25	1.6	2.7	2.0	1.9	4.1	4.4	6.2	3.1	5.9	1.3	.41	.65
26	1.4	4.1	2.0	1.7	4.8	3.8	4.4	12	2.0	1.3	.35	.23
27	1.2	1.3	2.0	1.7	3.3	3.3	3.5	4.2	1.5	8.9	.29	.18
28	1.1	1.0	1.9	1.7	2.9	3.0	3.3	3.1	1.2	2.7	.31	.14
29	1.0	.84	1.9	1.6	---	93	3.1	3.2	.94	1.7	.26	.13
30	1.0	.80	1.8	2.1	---	151	3.0	2.6	.90	2.1	.32	.12
31	.98	---	1.8	2.2	---	47	---	2.2	---	1.4	.58	---
TOTAL	39.45	51.64	66.98	75.5	167.3	528.1	358.8	104.1	133.44	34.83	18.08	6.60
MEAN	1.27	1.72	2.16	2.44	5.97	17.0	12.0	3.36	4.45	1.12	.58	.22
MAX	1.6	4.1	22	16	70	151	112	12	41	8.9	1.7	.89
MIN	.97	.80	.68	1.4	1.6	2.3	3.0	2.2	.90	.28	.26	.06
CFSM	.15	.21	.26	.29	.72	2.04	1.43	.40	.53	.13	.07	.03
IN.	.18	.23	.30	.34	.75	2.35	1.60	.46	.59	.16	.08	.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2001, BY WATER YEAR (WY)

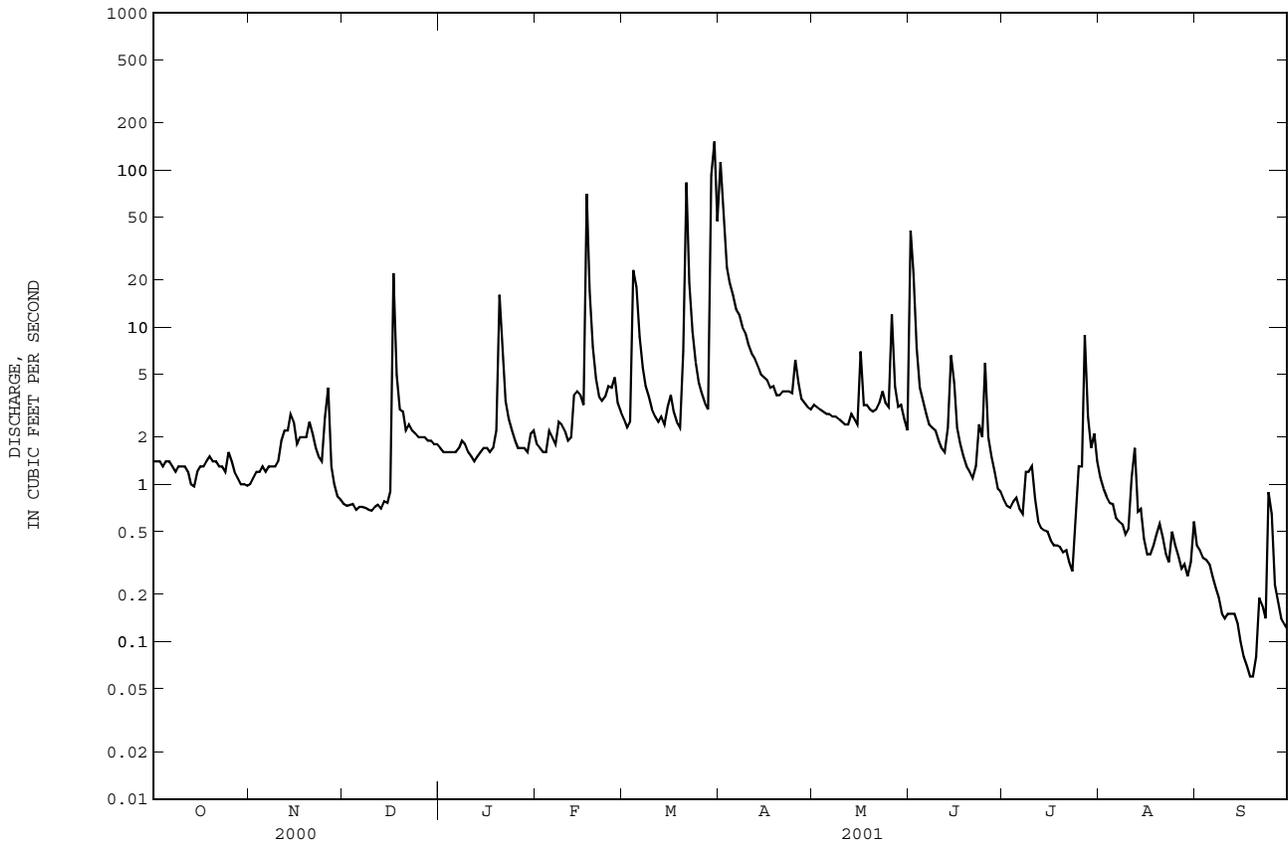
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	4.02	4.69	4.82	13.0	14.5	19.8	10.5	6.97	5.07	3.09	2.89	6.92	
MAX	13.1	15.3	13.2	33.4	39.7	53.0	18.2	30.1	19.9	12.3	18.7	40.4	
(WY)	1990	1996	1990	1998	1998	1998	1993	1989	1995	2000	1995	1999	
MIN	.26	.13	.51	2.44	3.68	5.14	2.33	.93	.54	.41	.091	.075	
(WY)	1999	1999	1999	2001	1999	1999	1995	1999	1999	1999	1999	1999	

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1989 - 2001

ANNUAL TOTAL	2286.40	1584.82	
ANNUAL MEAN	6.25	4.34	7.81
HIGHEST ANNUAL MEAN			12.5
LOWEST ANNUAL MEAN			4.34
HIGHEST DAILY MEAN	269	Jul 24	151
LOWEST DAILY MEAN	.48	Jul 19	.06
ANNUAL SEVEN-DAY MINIMUM	.55	Jul 16	.08
MAXIMUM PEAK FLOW			523
MAXIMUM PEAK STAGE			7.11
INSTANTANEOUS LOW FLOW			.06*
ANNUAL RUNOFF (CFSM)	.75		.52
ANNUAL RUNOFF (INCHES)	10.19		7.06
10 PERCENT EXCEEDS	14		6.1
50 PERCENT EXCEEDS	2.5		1.7
90 PERCENT EXCEEDS	.91		.36

e Estimated.  
\* See REMARKS.

02097464 MORGAN CREEK NEAR WHITE CROSS, NC--Continued





02097464 MORGAN CREEK NEAR WHITE CROSS, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL RECOVERABLE (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	SEDIMENT, DISCHARGE, SUSPENDED (MG/L AS ZN) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT 25...	34	<.14	<1.5	M	<2.6	<.43	<31	4.9	4	.02
DEC 20...	--	--	--	--	--	--	--	6.5	66	.53
FEB 21...	--	--	--	--	--	--	--	4.3	5	.05
MAR 21...	146	<.14	<1.5	E1	<2.6	<.43	<31	13	33	4.1
APR 10...	153	<.14	<1.5	<2	<2.6	<.43	269	2.1	6	.13
JUN 14...	--	--	--	--	--	--	--	6.5	40	.32
AUG 27...	--	--	--	--	--	--	--	4.7	9	.01

CAPE FEAR RIVER BASIN

0209749990 UNIVERSITY LAKE AT INTAKES NEAR CHAPEL HILL, NC

LOCATION.--Lat 35°53'48", long 79°05'33", Orange County, Hydrologic Unit 03030002, at Orange Water and Sewage Authority intakes, and 1.8 mi southwest of Chapel Hill.

DRAINAGE AREA.--30 mi<sup>2</sup>.

PERIOD OF RECORD.--Water years 1989 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. Samples for nutrient and chlorophyll a and b analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	BAROMETRIC PRESURE (MM HG) (00025)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS-SOLVED (PERCENT SATURATION) (00300)	OXYGEN, DIS-SOLVED (MG/L) (00301)	HARDNESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg) (00925)
OCT													
30...	0920	1.0	93	6.9	16.8	20	761	.60	5.9	61	34	8.86	2.85
30...	0921	4.0	111	6.7	16.3	--	761	--	.6	6	--	--	--
30...	0922	7.9	467	7.2	14.8	--	761	--	.6	6	--	--	--
APR													
20...	1530	1.0	74	7.1	18.1	25	760	.90	8.3	88	25	6.38	2.21
20...	1535	3.0	74	6.9	18.0	--	760	--	8.1	86	--	--	--
20...	1540	5.0	66	6.0	9.8	--	760	--	1.2	11	--	--	--
JUN													
26...	1115	1.0	87	7.2	26.9	25	768	.90	6.6	82	27	7.10	2.30
26...	1120	4.3	123	6.6	16.0	--	768	--	.3	3	--	--	--
26...	1125	8.7	314	6.8	12.0	--	768	--	.4	3	--	--	--
AUG													
28...	0930	1.0	86	8.6	28.6	12	760	.60	8.1	105	28	6.94	2.54
28...	0935	4.0	202	7.0	17.6	--	760	--	.2	2	--	--	--
28...	0940	7.7	362	7.2	12.8	--	760	--	.5	5	--	--	--

DATE	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM PERCENT (00932)	SODIUM AD-SORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	BICARBONATE, DIS-SOLVED (MG/L AS HCO3) (99440)	ANC WATER UNFLTRD FIELD (MG/L AS CaCO3) (00419)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
OCT													
30...	5.7	25	.4	2.45	36	30	3.6	5.3	<.2	14.7	73	<.001	<.005
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
20...	4.8	28	.4	1.93	32	26	6.8	5.0	<.2	10.4	54	.001	<.005
20...	--	--	--	--	--	--	--	--	--	--	--	<.001	<.005
20...	--	--	--	--	--	--	--	--	--	--	--	.003	.136
JUN													
26...	5.0	27	.4	2.20	35	29	4.6	5.1	E.1	12.0	72	<.001	<.005
26...	--	--	--	--	--	--	--	--	--	--	--	.001	.006
26...	--	--	--	--	--	--	--	--	--	--	--	.001	<.005
AUG													
28...	5.3	27	.4	2.85	35	28	3.6	5.0	<.2	15.2	72	<.001	.005
28...	--	--	--	--	--	--	--	--	--	--	--	.005	.011
28...	--	--	--	--	--	--	--	--	--	--	--	.006	.007

DATE	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLOROPHYLL-A (UG/L) (70953)	CHLOROPHYLL-B (UG/L) (70954)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM, TOTAL UNFLTRD (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)
OCT													
30...	.012	.78	.79	--	E.051	<.007	2.7	<.1	E25	<2	<.11	<1	<2
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
20...	.006	.60	.60	--	E.033	<.007	2.6	E.1	65	E1	<.11	<1	<2
20...	<.002	--	.62	--	E.036	<.007	--	--	--	--	--	--	--
20...	.066	.44	.50	.64	E.031	<.007	--	--	--	--	--	--	--
JUN													
26...	.008	1.2	1.2	--	E.052	<.007	14.0	E.4	--	--	--	--	--
26...	.082	.62	.70	.71	E.037	<.007	--	--	--	--	--	--	--
26...	1.53	.59	2.1	--	.115	.088	--	--	--	--	--	--	--
AUG													
28...	.004	.83	.83	.84	E.052	<.007	13.0	E.2	--	--	--	--	--
28...	.119	2.7	2.9	2.9	.466	.029	--	--	--	--	--	--	--
28...	E6.84	--	9.1	9.1	.290	.155	--	--	--	--	--	--	--

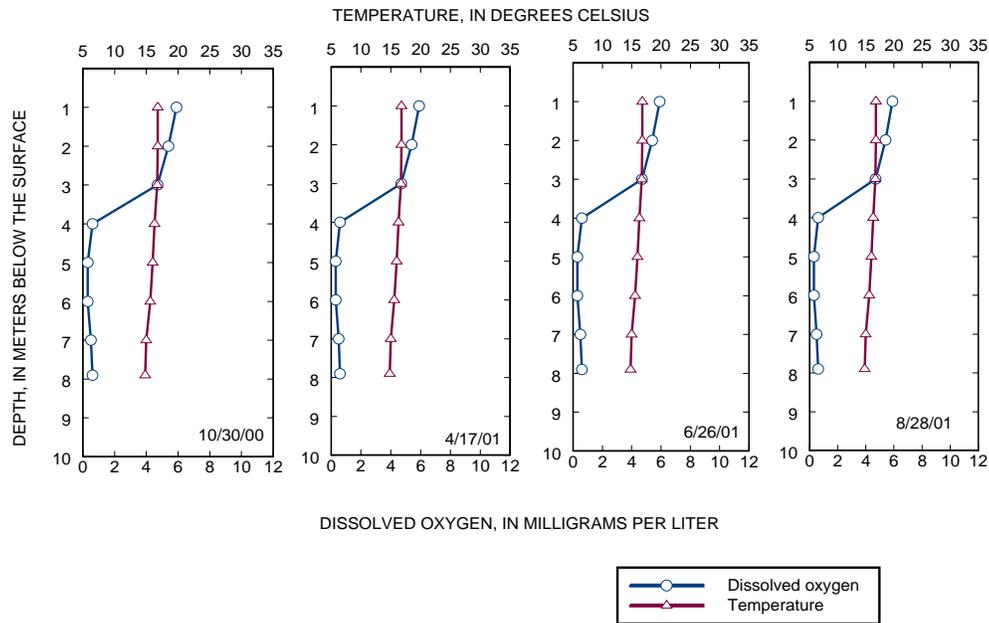


CAPE FEAR RIVER BASIN

0209749990 UNIVERSITY LAKE AT INTAKES NEAR CHAPEL HILL, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	ETHANE-HEXA-CHLORO-WATER UNFLTRD RECOVER (UG/L) (34396)	NAPHTH-ALENE TOTAL (UG/L) (34696)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	1,2-DIBROMO-ETHANE WHOLE TOTAL (UG/L) (77651)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL-ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)
OCT 30...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 26...	<.03	<.03	<.1	<.2	<.2	<.2	<.03	<.05	<.04	<.011	E.009	E.003	<.018
AUG 28...	--	--	--	--	--	--	--	--	--	--	--	--	--





Twelve Mile Creek near Waxhaw, North Carolina.

CAPE FEAR RIVER BASIN

02097517 MORGAN CREEK NEAR CHAPEL HILL, NC

LOCATION.--Lat 35°53'36", long 79°01'10", Orange County, Hydrologic Unit 03030002, on left bank 2.5 mi southeast of Chapel Hill, and 3.8 mi downstream of U.S. Highway 501.

DRAINAGE AREA.--41.0 mi<sup>2</sup>

PERIOD OF RECORD.--November 1982 to current year.

GAGE.--Water-stage recorder. Datum of gage is 239.02 ft above sea level. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. The City of Chapel Hill diverted an average of 15.6 ft<sup>3</sup>/s for water supply upstream of station, and an average of 14.1 ft<sup>3</sup>/s was returned as treated effluent upstream of station. Considerable diurnal fluctuation and occasional slight regulation caused by small reservoir and treated effluent outfall upstream from station. Maximum discharge for period of record from rating curve extended above 1,700 ft<sup>3</sup>/s, by logarithmic plotting; maximum gage height, 16.18 ft, from floodmark.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	17	19	21	24	36	438	24	354	15	16	25
2	25	18	18	22	24	34	262	22	285	16	15	22
3	25	18	18	21	23	40	133	22	75	17	15	19
4	24	17	18	22	23	134	104	23	46	21	16	20
5	24	18	19	22	27	110	85	22	34	37	15	20
6	25	19	19	21	24	79	74	22	26	21	15	19
7	24	19	19	22	24	56	66	22	24	18	15	18
8	24	19	19	24	24	48	59	22	22	42	15	17
9	25	20	19	23	24	43	55	20	20	24	15	18
10	25	19	18	23	24	38	49	20	19	22	35	20
11	25	18	18	23	24	36	40	20	19	20	165	19
12	25	18	18	22	30	34	38	32	17	19	78	18
13	25	18	18	22	32	36	34	23	40	18	22	18
14	24	27	19	22	28	33	31	20	53	17	20	16
15	24	20	18	22	28	45	29	21	40	16	17	15
16	24	19	23	23	26	42	31	62	24	17	16	16
17	24	19	61	23	177	37	29	26	17	16	15	17
18	23	18	26	23	111	35	33	36	14	16	16	17
19	23	21	25	26	69	34	31	25	14	17	22	16
20	20	24	26	60	53	60	31	23	12	16	18	19
21	18	21	23	29	47	406	30	22	11	14	16	20
22	19	19	22	26	50	123	30	24	37	14	15	18
23	18	17	21	25	46	79	30	37	48	15	14	17
24	19	17	20	24	41	61	26	21	15	24	35	71
25	21	36	19	24	48	51	45	20	192	19	16	26
26	19	30	19	23	48	47	37	36	56	18	14	18
27	19	21	20	23	42	43	30	26	31	92	15	18
28	19	19	21	23	38	40	27	25	22	24	15	17
29	19	19	22	23	---	295	26	25	18	21	15	16
30	17	19	21	28	---	1000	26	21	16	21	84	16
31	16	---	21	25	---	204	---	21	---	17	41	---
TOTAL	688	604	667	760	1179	3359	1959	785	1601	684	841	606
MEAN	22.2	20.1	21.5	24.5	42.1	108	65.3	25.3	53.4	22.1	27.1	20.2
MAX	26	36	61	60	177	1000	438	62	354	92	165	71
MIN	16	17	18	21	23	33	26	20	11	14	14	15
CFSM	.54	.49	.52	.60	1.03	2.64	1.59	.62	1.30	.54	.66	.49
IN.	.62	.55	.61	.69	1.07	3.05	1.78	.71	1.45	.62	.76	.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2001, BY WATER YEAR (WY)

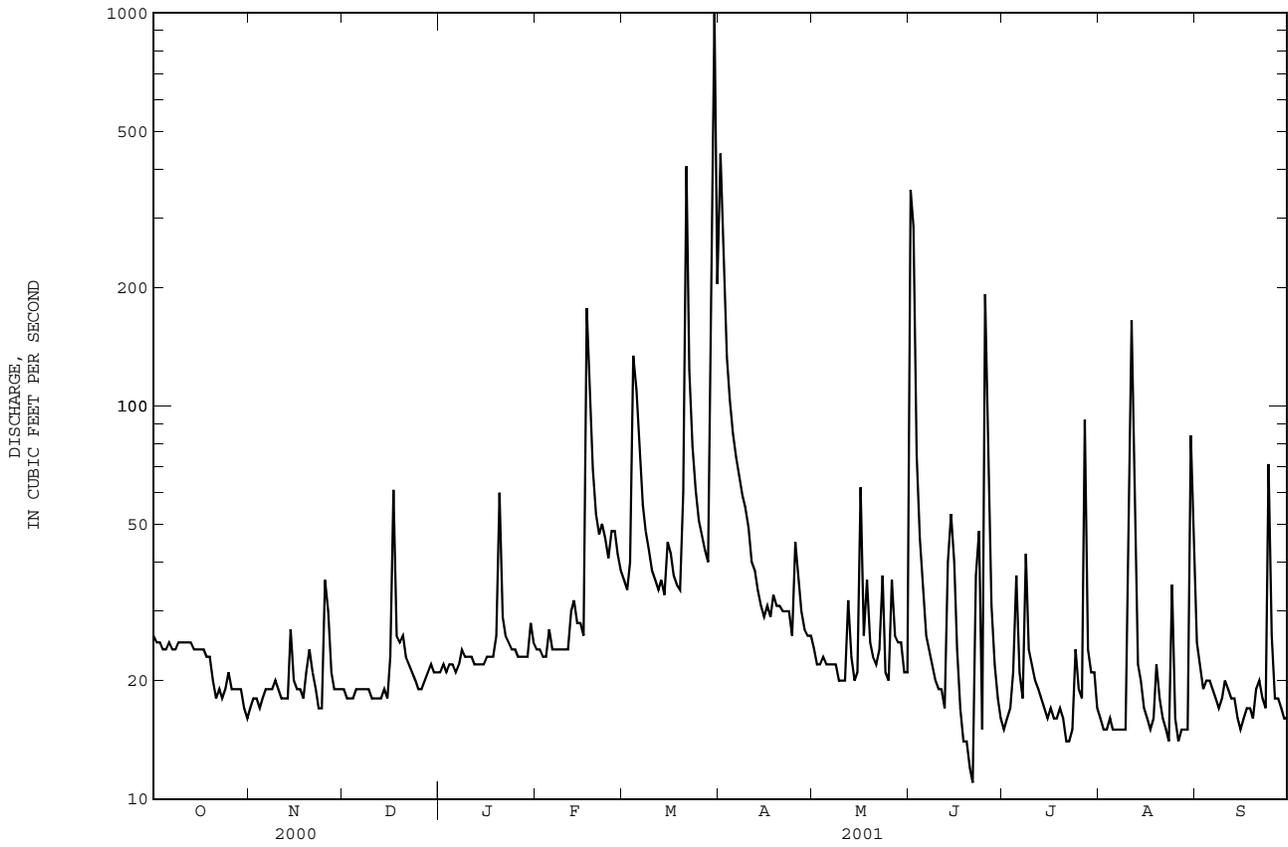
	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	24.2	35.2	35.5	69.7	78.5	97.9	56.8	32.9	25.6	20.6	22.2	35.1							
MAX	50.7	141	105	184	206	226	131	91.2	84.9	51.5	65.0	272							
(WY)	2000	1986	1984	1998	1998	1993	1984	1990	1992	1984	1985	1999							
MIN	12.9	10.5	12.9	15.2	17.2	18.0	17.5	14.5	11.1	8.93	12.1	8.77							
(WY)	1999	1983	1989	1989	1991	1988	1986	1986	1986	1988	1988	1983							

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1983 - 2001

ANNUAL TOTAL	13439	13733	
ANNUAL MEAN	36.7	37.6	43.6
HIGHEST ANNUAL MEAN			75.6
LOWEST ANNUAL MEAN			21.7
HIGHEST DAILY MEAN	759	Jul 24	1000
LOWEST DAILY MEAN	10	Jul 20	11
ANNUAL SEVEN-DAY MINIMUM	11	Jul 16	15
MAXIMUM PEAK FLOW			1840
MAXIMUM PEAK STAGE			11.95
INSTANTANEOUS LOW FLOW			7.2
ANNUAL RUNOFF (CFSM)	.90	.92	1.06
ANNUAL RUNOFF (INCHES)	12.19	12.46	14.45
10 PERCENT EXCEEDS	65	55	84
50 PERCENT EXCEEDS	25	23	19
90 PERCENT EXCEEDS	15	16	12

\* See REMARKS.

02097517 MORGAN CREEK NEAR CHAPEL HILL, NC--Continued



0209768310 B. EVERETT JORDAN LAKE AT BUOY 12 AT FARRINGTON, NC

LOCATION.--Lat 35°47'55", long 79°00'22", Chatham County, Hydrologic Unit 03030002, .02 mi above Secondary Road 1008, and 0.2 mi east of Farrington.

PERIOD OF RECORD.--Water years 1992 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. Samples for nutrient and chlorophyll a and b analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD ARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	BAROMETRIC PRES-SURE (MM OF HG) (00025)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS-SOLVED (PERCENT SATURATION) (00300)	OXYGEN, DIS-SOLVED (MG/L) (00301)	HARDNESS TOTAL AS (MG/L CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg) (00925)
OCT													
17...	1301	1.0	168	9.0	19.0	15	754	.60	12.8	140	33	8.61	2.83
17...	1302	3.0	169	8.9	18.5	--	754	--	12.3	133	--	--	--
17...	1303	4.7	173	6.4	16.8	--	754	--	2.0	21	--	--	--
APR													
24...	1215	1.0	120	7.0	20.0	80	761	.35	8.2	90	27	7.16	2.30
24...	1220	2.3	117	6.8	18.9	--	761	--	7.0	76	--	--	--
24...	1225	4.7	116	6.5	16.2	--	761	--	3.8	38	--	--	--
JUN													
20...	0945	1.0	151	7.3	27.2	8	763	.70	7.0	88	33	8.76	2.81
20...	0950	2.5	154	7.0	26.1	--	763	--	6.0	74	--	--	--
20...	0955	4.9	174	6.6	20.7	--	763	--	.4	4	--	--	--
AUG													
22...	1100	1.0	161	8.6	28.8	<1	769	.40	8.4	108	33	8.50	2.80
22...	1105	2.5	160	8.1	28.6	--	769	--	7.4	95	--	--	--
22...	1110	4.8	168	7.0	27.9	--	769	--	1.6	20	--	--	--
DATE		SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM AD-SORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	BICARBONATE IT-FLD (MG/L AS HCO3) (99440)	ANC WATER UNFLTRD IT FIELD (MG/L AS CaCO3) (00419)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
OCT													
17...	16.8	49	1	3.48	54	45	12.7	16.9	.2	6.0	106	.003	<.005
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
24...	11.6	45	1.0	2.77	--	--	12.2	11.5	.2	4.0	96	.008	.123
24...	--	--	--	--	--	--	--	--	--	--	--	.007	.107
24...	--	--	--	--	--	--	--	--	--	--	--	.008	.087
JUN													
20...	15.6	47	1	3.15	28	23	12.0	12.8	.2	2.3	108	.011	.097
20...	--	--	--	--	--	--	--	--	--	--	--	.012	.110
20...	--	--	--	--	--	--	--	--	--	--	--	.007	.103
AUG													
22...	17.0	50	1	3.70	54	48	14.0	16.0	.3	5.2	--	<.001	<.005
22...	--	--	--	--	--	--	--	--	--	--	--	<.001	<.005
22...	--	--	--	--	--	--	--	--	--	--	--	.001	<.005
DATE		NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLOROPHYLL-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOROPHYLL-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM, WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)
OCT													
17...	.004	1.0	1.0	--	.080	E.005	11.4	E.3	51	<2	<.11	<1	<2
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
24...	.037	1.0	1.1	1.2	.107	E.004	5.6	E.2	555	<2	<.11	<1	<2
24...	.123	.77	.89	1.00	.078	E.004	--	--	--	--	--	--	--
24...	.246	.84	1.1	1.2	.074	E.006	--	--	--	--	--	--	--
JUN													
20...	.037	.77	.80	.90	<.060	<.007	7.1	E.2	--	--	--	--	--
20...	.133	.73	.86	.97	<.060	<.007	--	--	--	--	--	--	--
20...	.336	.78	1.1	1.2	E.040	<.007	--	--	--	--	--	--	--
AUG													
22...	.008	1.3	1.3	--	.088	<.007	44.0	3.3	--	--	--	--	--
22...	.010	1.2	1.2	--	.083	<.007	--	--	--	--	--	--	--
22...	.010	1.1	1.1	--	.078	<.007	--	--	--	--	--	--	--

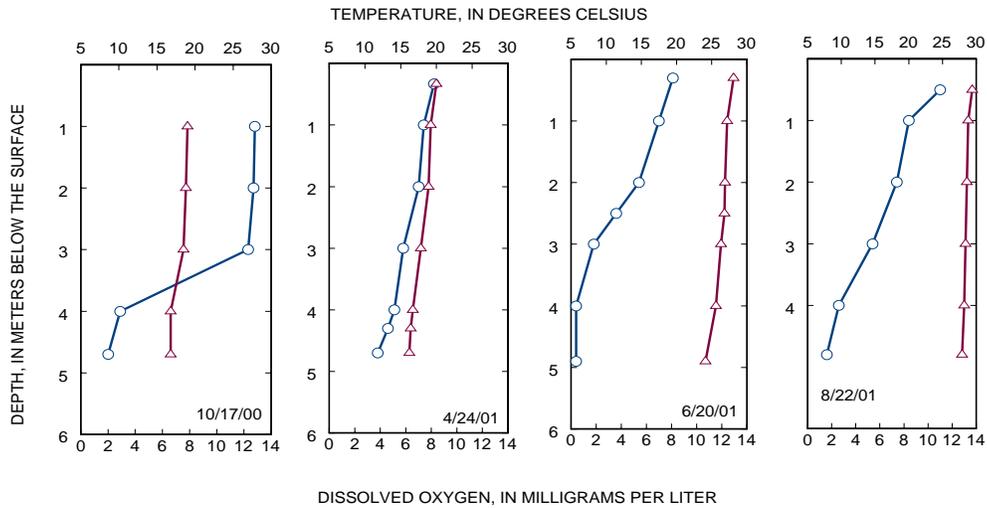


CAPE FEAR RIVER BASIN

0209768310 B. EVERETT JORDAN LAKE AT BUOY 12 AT FARRINGTON, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	ETHANE-HEXA-CHLORO-WATER UNFLTRD RECOVER (UG/L) (34396)	NAPHTH-ALENE TOTAL (UG/L) (34696)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF (UG/L) (34551)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD (UG/L) (34571)	1,2-DIBROMO-ETHANE TOTAL (UG/L) (77651)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL-ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)
OCT 17...	--	--	--	--	--	--	--	--	--	--	--	--	--
OCT 17...	--	--	--	--	--	--	--	--	--	--	--	--	--
OCT 17...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 24...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 24...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 20...	<.03	<.03	<.1	<.2	<.2	<.2	<.03	<.05	<.04	.071	E.009	E.003	<.018
JUN 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 22...	--	--	--	--	--	--	--	--	--	--	--	--	--





Gaging station at Watauga River near Sugar Grove, North Carolina.

CAPE FEAR RIVER BASIN

0209782520 WHITE OAK CREEK AT GREEN LEVEL, NC

LOCATION.--Lat 35°46'32", long 78°54'11", Wake County, Hydrologic Unit 03030002, on left bank at State Road 1603, 1.7 mi west of Green Level.

DRAINAGE AREA.--6.97 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 265 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. Minimum discharge for period of record also occurred on June 3, 2000.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	.62	1.6	.54	9.3	5.8	199	.80	73	.94	1.3	8.6
2	2.3	.54	1.4	.52	8.8	5.9	93	.61	136	.76	.81	3.8
3	2.0	.53	1.6	.41	8.6	5.7	27	.54	15	.65	.64	1.4
4	1.7	.57	1.5	.69	8.4	122	19	.41	6.4	1.1	.54	.95
5	1.5	.59	1.4	.68	12	36	13	.28	4.3	15	.46	.73
6	1.4	.64	1.2	.52	12	18	11	.22	2.8	5.1	.41	.46
7	1.2	.68	1.0	.41	10	12	9.3	.20	2.5	2.1	.36	.35
8	1.1	.70	.90	.47	11	11	8.3	.18	1.6	6.2	.32	.27
9	1.1	.79	.79	.51	11	9.8	7.4	.14	1.2	13	.29	.22
10	.97	.88	.99	.38	12	8.2	6.0	.11	.73	59	.28	.20
11	.90	.82	.97	.29	12	6.5	5.1	.09	.65	10	2.5	.18
12	.84	e.76	1.4	.34	14	5.6	6.1	.10	.54	4.9	136	.16
13	.82	e.70	1.6	.46	19	7.7	6.0	.11	1.9	2.1	39	.13
14	.80	e1.1	1.8	.69	17	7.0	5.5	.12	60	1.4	34	.11
15	.76	6.3	2.0	1.1	18	11	5.0	.18	85	1.0	6.7	.09
16	.75	3.6	7.2	1.3	15	13	4.9	9.2	17	.80	2.1	.08
17	.74	4.2	21	1.6	69	8.4	4.6	5.6	9.5	.66	1.3	.07
18	.76	4.5	8.1	2.2	19	6.8	5.3	1.5	3.9	.54	1.5	.06
19	.77	4.8	2.6	3.1	11	6.1	5.6	.85	2.6	.50	5.7	.05
20	.72	12	2.9	13	8.6	13	5.2	.75	1.7	.56	11	.05
21	.72	13	1.4	10	7.5	275	4.5	1.4	1.7	.42	3.7	.04
22	.73	9.2	1.3	5.5	7.7	105	4.2	1.5	1.5	.36	1.4	.04
23	.73	7.0	.91	4.1	10	25	3.2	1.1	2.1	.33	.99	.03
24	.72	5.2	.68	4.0	7.8	14	1.9	.63	33	.41	3.0	.04
25	.77	8.1	1.1	4.3	7.4	10	12	.61	37	.36	3.2	.05
26	.74	32	.86	4.4	8.7	8.7	10	.55	9.8	.35	1.0	.03
27	.72	11	.91	5.4	6.4	7.5	5.3	1.1	4.1	10	.75	.04
28	.72	5.0	.98	5.6	5.3	6.6	3.1	.93	2.3	8.0	.57	.03
29	.67	2.9	.99	6.6	---	133	1.5	2.0	1.4	2.1	.44	.03
30	.67	2.1	.93	10	---	217	1.1	1.2	1.1	9.2	.94	.02
31	.64	---	.69	12	---	51	---	.57	---	3.1	44	---
TOTAL	31.76	140.82	72.70	101.11	366.5	1172.3	493.1	33.58	520.32	160.94	305.20	18.31
MEAN	1.02	4.69	2.35	3.26	13.1	37.8	16.4	1.08	17.3	5.19	9.85	.61
MAX	2.8	32	21	13	69	275	199	9.2	136	59	136	8.6
MIN	.64	.53	.68	.29	5.3	5.6	1.1	.09	.54	.33	.28	.02
CFSM	.15	.67	.34	.47	1.88	5.43	2.36	.16	2.49	.74	1.41	.09
IN.	.17	.75	.39	.54	1.96	6.26	2.63	.18	2.78	.86	1.63	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

	2000	2001	2000	2001	2000	2001	2000	2001	2000	2001	2000	2001
MEAN	6.09	3.84	5.82	15.9	20.5	22.7	13.6	.83	8.81	4.74	10.4	9.77
MAX	11.2	4.69	9.29	28.6	27.7	37.8	16.4	1.08	17.3	5.19	10.9	18.9
(WY)	2000	2001	2000	2000	2000	2001	2001	2001	2001	2001	2000	2000
MIN	1.02	2.98	2.35	3.26	13.1	7.49	10.8	.57	.27	4.28	9.85	.61
(WY)	2001	2000	2001	2001	2001	2000	2000	2000	2000	2000	2001	2001

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

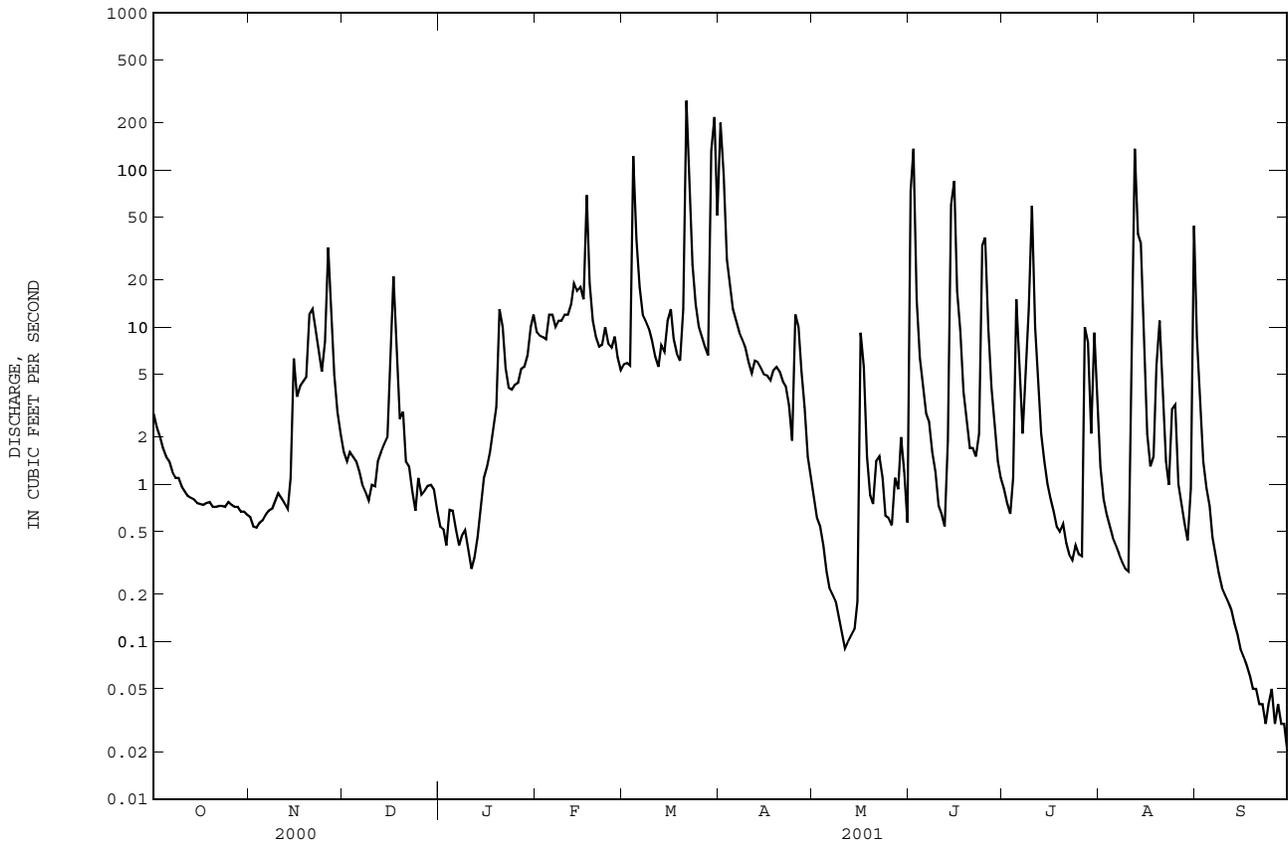
FOR 2001 WATER YEAR

WATER YEARS 2000 - 2001

ANNUAL TOTAL	3553.88	3416.64		
ANNUAL MEAN	9.71	9.36	10.2	
HIGHEST ANNUAL MEAN			11.0	2000
LOWEST ANNUAL MEAN			9.36	2001
HIGHEST DAILY MEAN	194	Jan 31	275	Mar 21
LOWEST DAILY MEAN	.01	May 23	.02	Sep 30
ANNUAL SEVEN-DAY MINIMUM	.01	May 21	.03	Sep 24
MAXIMUM PEAK FLOW			517	Mar 21
MAXIMUM PEAK STAGE			8.54	Mar 21
INSTANTANEOUS LOW FLOW			.02	Sep 30
ANNUAL RUNOFF (CFSM)	1.39	1.34	1.46	
ANNUAL RUNOFF (INCHES)	18.97	18.24	19.86	
10 PERCENT EXCEEDS	24	14	22	
50 PERCENT EXCEEDS	2.2	1.6	2.6	
90 PERCENT EXCEEDS	.05	.29	.13	

e Estimated.  
\* See REMARKS.

0209782520 WHITE OAK CREEK AT GREEN LEVEL, NC--Continued





0209782520 WHITE OAK CREEK AT GREEN LEVEL, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE) (01147)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
OCT 25...	297	<.14	<1.5	E1	<2.6	<.43	<31	10	5	.01
DEC 20...	--	--	--	--	--	--	--	10	15	.11
FEB 21...	--	--	--	--	--	--	--	8.5	9	.19
MAR 15...	108	<.14	<1.5	E1	<2.6	<.43	<31	11	6	.12
30...	71	<.14	<1.5	E2	<2.6	<.43	<31	13	74	54
APR 12...	111	<.14	<1.5	<2	<2.6	<.43	<31	12	12	.20
JUN 14...	292	--	<1.5	<2	<3.0	<.40	<31	13	72	3.7
22...	--	--	--	--	--	--	--	12	20	.11
AUG 27...	--	--	--	--	--	--	--	11	3	.01

CAPE FEAR RIVER BASIN

0209799150 B. EVERETT JORDAN LAKE ABOVE U.S. HIGHWAY 64 NEAR WILSONVILLE, NC

LOCATION.--Lat 35°44'29", long 79°01'10", Chatham County, Hydrologic Unit 03030002, 0.2 mi above bridge on U.S. Highway 64, and 1.1 mi west of Wilsonville.

PERIOD OF RECORD.--Water years 1991 to current year.

REMARKS.-- Station operated to define water quality as part of a six-county regional surface-water quality assessment. Samples for nutrient and chlorophyll a and b analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAM-PLING DEPTH (M) (00098)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD WATER UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM- COBALT UNITS) (00080)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (MG/L) (00300)	OXYGEN, DIS-SOLVED (MG/L) (00301)	HARD-NESS (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg) (00925)
OCT													
31...	1020	1.0	146	7.1	18.2	20	763	.60	7.3	77	30	7.63	2.75
31...	1021	3.0	147	7.0	18.0	--	763	--	6.8	72	--	--	--
31...	1022	7.2	148	7.0	17.8	--	763	--	7.0	73	--	--	--
APR													
24...	1330	1.0	137	6.9	18.6	50	761	.55	7.6	81	27	6.92	2.37
24...	1335	5.0	133	6.5	15.8	--	761	--	5.1	51	--	--	--
24...	1340	10.0	135	6.5	15.2	--	761	--	3.8	38	--	--	--
JUN													
20...	1130	1.0	143	7.8	27.2	5	763	.80	8.0	100	31	7.89	2.70
20...	1135	4.5	144	6.6	24.8	--	763	--	1.8	21	--	--	--
20...	1140	9.0	172	6.7	20.1	--	763	--	.5	5	--	--	--
AUG													
22...	0945	1.0	142	8.5	28.8	8	767	1.20	8.0	103	29	7.25	2.57
22...	0950	5.0	141	7.0	27.7	--	767	--	3.8	48	--	--	--
22...	0955	9.3	194	7.1	23.8	--	767	--	.4	5	--	--	--

DATE	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM PERCENT (00932)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE IT-FLD (MG/L AS HCO3) (99440)	ANC WATER UNFLTRD IT FIELD (MG/L AS CaCO3) (00419)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS Cl) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
OCT													
31...	15.1	49	1	3.15	36	30	11.9	13.7	.2	5.4	93	<.001	.012
31...	--	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
24...	13.6	49	1	2.90	32	26	14.1	13.9	.2	2.4	114	.008	.189
24...	--	--	--	--	--	--	--	--	--	--	--	.008	.189
24...	--	--	--	--	--	--	--	--	--	--	--	.010	.173
JUN													
20...	14.6	48	1	3.08	37	31	12.1	13.0	.2	1.9	102	.006	.115
20...	--	--	--	--	--	--	--	--	--	--	--	.005	.124
20...	--	--	--	--	--	--	--	--	--	--	--	.005	.030
AUG													
22...	14.1	48	1	3.19	40	32	12.2	13.4	.2	3.2	88	<.001	<.005
22...	--	--	--	--	--	--	--	--	--	--	--	<.001	<.005
22...	--	--	--	--	--	--	--	--	--	--	--	.001	.006

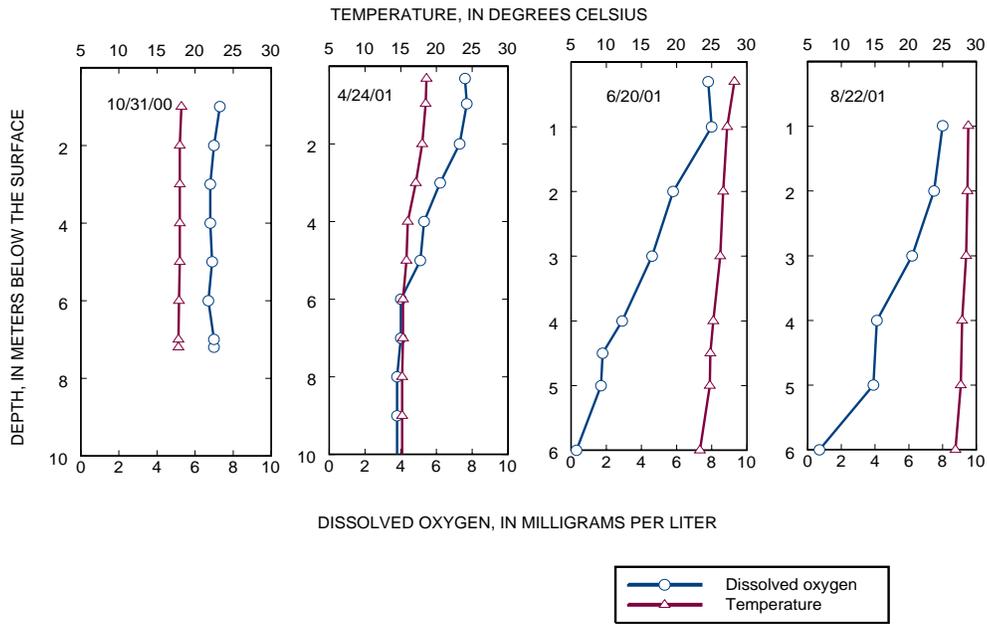
DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00665)	PHOS-PHORUS PHOS-ORPHO, DIS-SOLVED (MG/L AS P) (00671)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS Cd) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
OCT													
31...	.005	.94	.95	.96	E.036	<.007	4.3	<.1	57	<2	<.11	<.1	E1
31...	--	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
24...	.032	1.0	1.0	1.2	.075	<.007	4.3	<.1	294	<2	E.05	<.1	<2
24...	.196	.52	.72	.91	E.055	E.005	--	--	--	--	--	--	--
24...	.292	.57	.86	1.0	.063	E.006	--	--	--	--	--	--	--
JUN													
20...	.012	.60	.61	.73	<.060	E.004	4.0	E.3	--	--	--	--	--
20...	.112	.52	.63	.76	<.060	<.007	--	--	--	--	--	--	--
20...	.260	.56	.82	.85	<.060	<.007	--	--	--	--	--	--	--
AUG													
22...	.009	.74	.75	--	E.045	<.007	8.9	.5	--	--	--	--	--
22...	.011	.76	.77	--	E.036	<.007	--	--	--	--	--	--	--
22...	1.37	.87	2.2	2.2	.193	.088	--	--	--	--	--	--	--



0209799150 B. EVERETT JORDAN LAKE ABOVE U.S. HIGHWAY 64 NEAR WILSONVILLE, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	TRANS- 1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546)	HEXA- CHLORO- BUT- ADIENE TOTAL (UG/L) (39702)	ETHANE HEXA- CHLORO- WATER UNFLTRD RECOVER (UG/L) (34396)	NAPHTH- ALENE TOTAL (UG/L) (34696)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (UG/L) (34551)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)
OCT													
31...	--	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
20...	<.03	<.03	<.1	<.2	<.2	<.2	<.03	<.05	<.04	.132	E.011	<.006	<.018
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--



0209801100 B. EVERETT JORDAN LAKE AT BELLS LANDING NEAR GRIFFINS CROSSROADS, NC

LOCATION.--Lat 35°43'38", long 79°02'35", Chatham County, Hydrologic Unit 03030002, at Bells Landing and 2.0 mi southeast of Griffins Crossroads.

PERIOD OF RECORD.--Water years 1991-1995, 1999 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. A GC/FID scan for trace organic compounds was performed on samples collected in November 1994 and May 1995. Results may be obtained from the District office in Raleigh. Samples for nutrient and chlorophyll a and b analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD) (00400)	TEMPERATURE WATER (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	BAROMETRIC PRESSURE (MM OF HG) (00025)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS-SOLVED (PERCENT) (00300)	OXYGEN, DIS-SOLVED SATURATION (MG/L) (00301)	HARDNESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg) (00925)
OCT													
17...	1401	.99	145	8.2	19.4	10	754	.60	9.2	100	29	7.26	2.65
17...	1402	3.0	145	7.4	18.6	--	754	--	8.0	86	--	--	--
17...	1403	6.2	147	6.6	18.4	--	754	--	4.0	43	--	--	--
APR													
26...	1315	1.0	140	6.7	17.5	20	768	.65	7.4	77	28	7.15	2.52
26...	1320	5.0	141	6.5	16.8	--	768	--	6.3	65	--	--	--
26...	1325	7.5	144	6.2	15.0	--	768	--	3.5	34	--	--	--
JUN													
19...	1215	1.0	154	8.1	27.5	5	763	1.10	8.4	106	29	7.14	2.66
19...	1220	3.6	152	6.7	26.8	--	763	--	3.6	45	--	--	--
19...	1225	7.4	162	6.6	24.1	--	763	--	.4	5	--	--	--
AUG													
24...	1130	1.0	140	8.6	28.5	8	757	.70	8.2	106	29	7.11	2.64
24...	1135	3.0	140	8.0	28.5	--	757	--	7.2	93	--	--	--
24...	1140	7.0	177	7.0	24.8	--	757	--	.4	5	--	--	--

DATE	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM PERCENT (00932)	SODIUM AD-SORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	BICARBONATE (MG/L AS HCO3) (99440)	ANC WATER UNFLTRD IT FIELD (MG/L AS CaCO3) (00419)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
OCT													
17...	14.3	48	1	3.15	35	28	11.3	13.4	.2	5.6	93	<.001	<.005
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
26...	14.3	49	1	3.15	33	27	14.1	13.5	.2	2.5	78	.008	.231
26...	--	--	--	--	--	--	--	--	--	--	--	.008	.226
26...	--	--	--	--	--	--	--	--	--	--	--	.012	.237
JUN													
19...	14.6	49	1	3.02	30	24	14.5	14.4	.2	1.9	110	.007	.093
19...	--	--	--	--	--	--	--	--	--	--	--	.007	.102
19...	--	--	--	--	--	--	--	--	--	--	--	.007	.113
AUG													
24...	14.6	49	1	3.29	38	31	12.2	13.6	.2	2.6	78	<.001	.008
24...	--	--	--	--	--	--	--	--	--	--	--	<.001	.006
24...	--	--	--	--	--	--	--	--	--	--	--	<.001	.005

DATE	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)
OCT													
17...	<.002	--	.83	--	E.040	<.007	7.0	<.1	36	<2	<.11	--	<1
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
26...	.135	.72	.86	1.1	E.045	E.005	14.4	E.2	257	<2	<.11	<.14	<1
26...	.110	.70	.81	1.0	E.058	<.007	--	--	--	--	--	--	--
26...	.289	.92	1.2	1.5	.133	E.004	--	--	--	--	--	--	--
JUN													
19...	.007	.59	.60	.69	<.060	<.007	4.1	.6	--	--	--	--	--
19...	.029	.60	.63	.73	<.060	<.007	--	--	--	--	--	--	--
19...	.164	.65	.81	.92	<.060	<.007	--	--	--	--	--	--	--
AUG													
24...	.004	.65	.66	.67	E.033	<.007	16.8	E.2	--	--	--	--	--
24...	.005	.69	.70	.70	E.037	<.007	--	--	--	--	--	--	--
24...	.121	.49	.62	.62	<.060	<.007	--	--	--	--	--	--	--

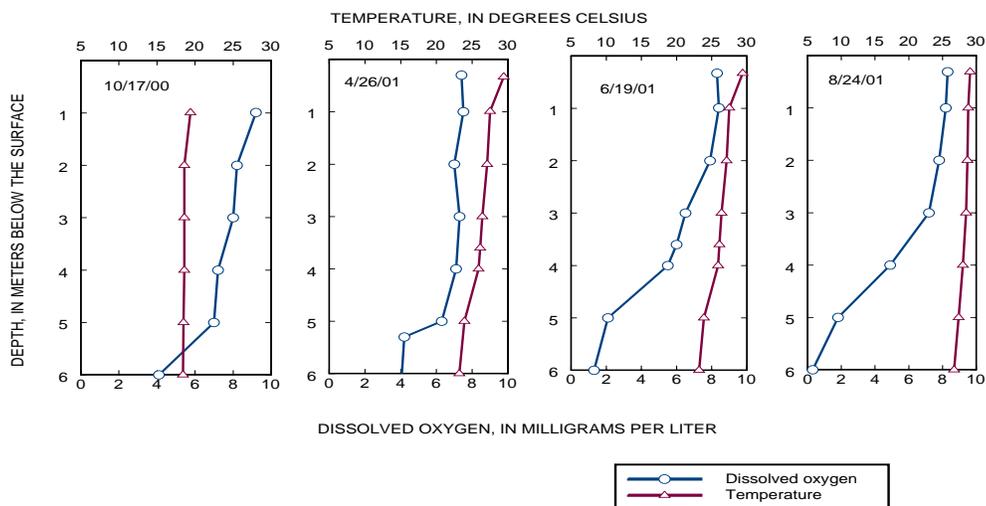


0209801100 B. EVERETT JORDAN LAKE AT BELLS LANDING NEAR GRIFFINS CROSSROADS, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,1,2- TRI- CHLORO- ETHANE TOTAL (UG/L) (34511)	ETHANE, 1,1,2,2 TETRA- CHLORO- WAT UNF REC (UG/L) (34516)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L) (32103)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	TRANS- 1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546)	HEXA- CHLORO- BUT- ADIENE TOTAL (UG/L) (39702)	ETHANE HEXA- CHLORO- WATER UNFLTRD RECOVER (UG/L) (34396)	NAPHTH- ALENE TOTAL (UG/L) (34696)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (UG/L) (34551)
OCT													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
19...	<.04	<.04	<.03	<.06	<.09	<.03	<.1	<.03	<.03	<.1	<.2	<.2	<.2
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)
OCT							
17...	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--
APR							
26...	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--
JUN							
19...	<.03	<.05	<.04	.114	E.012	<.006	<.018
19...	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--
AUG							
24...	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--



## CAPE FEAR RIVER BASIN

02098197 B. EVERETT JORDAN LAKE AT DAM NEAR MONCURE, NC

LOCATION.--Lat 35°39'16", long 79°04'06", Chatham County, Hydrologic Unit 03030002, at B. Everett Jordan Dam on Haw River, 0.3 mi downstream of mouth of New Hope River, 2.5 mi north of Moncure, 4.2 mi upstream from mouth of Haw River, and 202.2 mi upstream from mouth of Cape Fear River.

DRAINAGE AREA.--1,689 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Lake elevations controlled by reservoir operations at B. Everett Jordan Dam. Lake is used for flood control, water supply, low-flow augmentation, and recreation. Some storage was affected during construction and then operated temporarily as a "dry reservoir" January 1975 to August 1981. Reservoir began filling September 1981 and reached normal pool elevation, 216 ft, Feb. 4, 1982. Total capacity is 32,825,074,000 ft<sup>3</sup> at 240.0 ft, of which 23,454,011,000 ft<sup>3</sup> is controlled flood storage. (See station 02098198.)

EXTREMES FOR PERIOD OF RECORD.--Maximum, 233.59 ft, Sept. 8, 1996; minimum, 207.85 ft, Nov. 12, 1986.

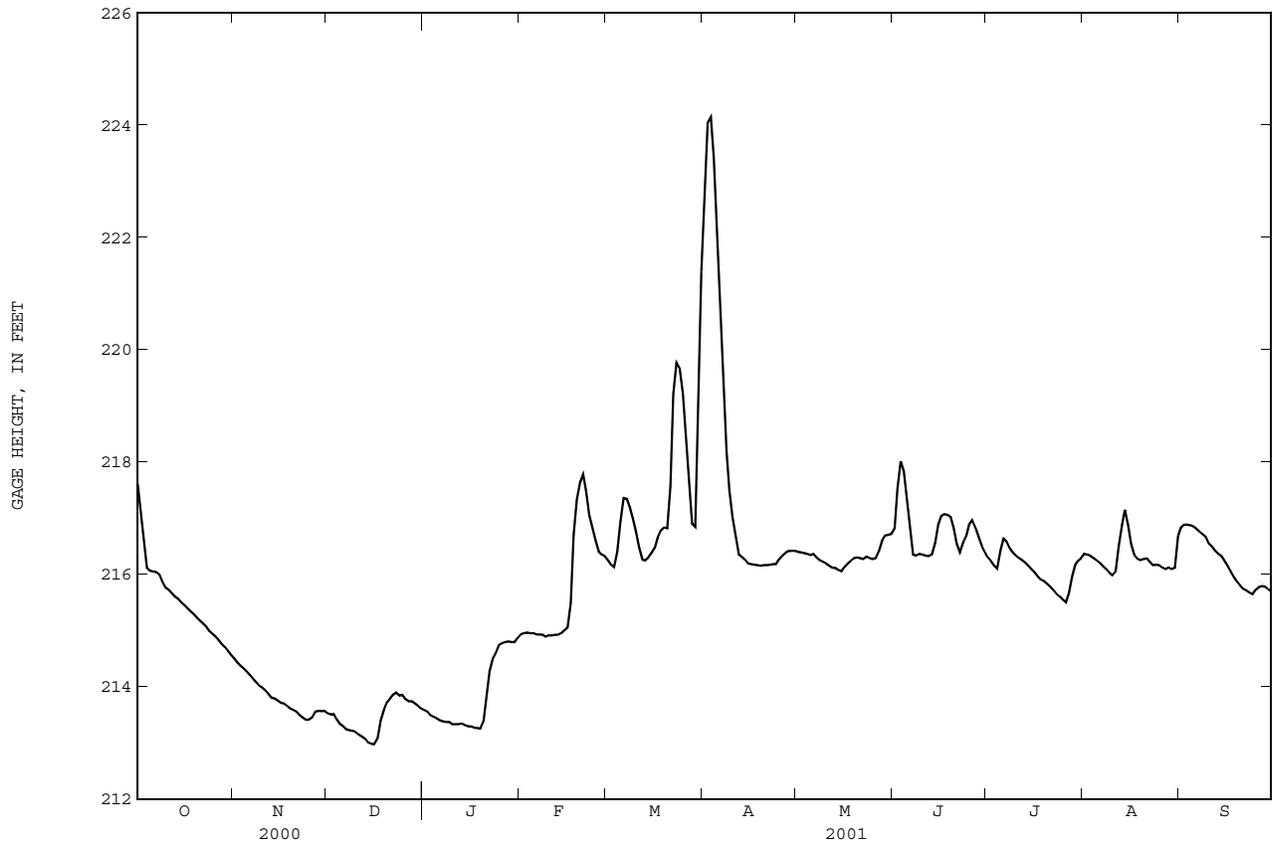
EXTREMES FOR CURRENT YEAR.--Maximum, 224.35 ft, Apr. 2; minimum, 212.84 ft, Dec. 17.

COOPERATION.--Some records furnished by U.S. Army Corps of Engineers.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	217.61	214.50	213.52	213.58	214.93	216.25	222.51	216.40	216.81	216.30	216.36	216.83
2	217.07	214.43	213.50	213.55	214.95	216.17	224.04	216.39	217.53	216.23	216.35	216.88
3	216.54	214.37	213.51	213.49	214.96	216.13	224.14	216.38	218.01	216.15	216.32	216.88
4	216.11	214.32	213.41	213.46	214.95	216.40	223.43	216.36	217.83	216.10	216.28	216.87
5	216.06	214.27	213.33	213.43	214.95	216.94	222.26	216.34	217.31	216.41	216.25	216.85
6	216.05	214.21	213.29	213.40	214.93	217.36	220.86	216.36	216.77	216.63	216.20	216.81
7	216.04	214.14	213.24	213.38	214.93	217.34	219.43	216.30	216.35	216.58	216.14	216.76
8	215.99	214.08	213.22	213.37	214.92	217.20	218.21	216.25	216.33	216.46	216.09	216.71
9	215.87	214.01	213.21	213.37	214.89	216.99	217.50	216.22	216.36	216.39	216.02	216.66
10	215.76	213.98	213.19	213.33	214.91	216.75	217.01	216.19	216.35	216.33	215.98	216.55
11	215.72	213.93	213.14	213.33	214.91	216.47	216.67	216.15	216.33	216.29	216.05	216.49
12	215.66	213.86	213.11	213.33	214.92	216.26	216.35	216.12	216.32	216.25	216.51	216.42
13	215.60	213.80	213.07	213.34	214.92	216.25	216.31	216.11	216.35	216.21	216.87	216.36
14	215.56	213.79	213.00	213.31	214.95	216.30	216.26	216.07	216.55	216.15	217.15	216.32
15	215.50	213.75	212.98	213.29	215.00	216.38	216.19	216.05	216.88	216.09	216.88	216.24
16	215.45	213.71	212.97	213.29	215.05	216.47	216.18	216.13	217.03	216.03	216.53	216.15
17	215.39	213.70	213.07	213.27	215.49	216.65	216.17	216.19	217.07	215.96	216.34	216.05
18	215.34	213.65	213.39	213.26	216.70	216.78	216.16	216.24	217.06	215.90	216.27	215.95
19	215.29	213.61	213.58	213.25	217.33	216.83	216.15	216.29	217.02	215.88	216.25	215.87
20	215.23	213.58	213.72	213.38	217.63	216.82	216.16	216.30	216.81	215.83	216.27	215.80
21	215.17	213.55	213.78	213.87	217.78	217.57	216.16	216.29	216.54	215.78	216.28	215.74
22	215.12	213.49	213.85	214.27	217.48	219.21	216.17	216.27	216.39	215.72	216.22	215.71
23	215.07	213.45	213.89	214.49	217.05	219.77	216.18	216.31	216.56	215.65	216.16	215.67
24	214.99	213.41	213.84	214.60	216.83	219.67	216.18	216.29	216.68	215.61	216.17	215.64
25	214.94	213.41	213.85	214.74	216.60	219.22	216.27	216.27	216.88	215.55	216.16	215.72
26	214.89	213.45	213.78	214.77	216.40	218.49	216.33	216.29	216.96	215.50	216.12	215.77
27	214.83	213.55	213.74	214.79	216.35	217.68	216.38	216.41	216.83	215.65	216.09	215.79
28	214.76	213.57	213.74	214.80	216.32	216.90	216.41	216.60	216.66	215.95	216.12	215.78
29	214.70	213.56	213.70	214.79	--	216.84	216.42	216.69	216.50	216.16	216.09	215.74
30	214.63	213.57	213.66	214.79	--	219.18	216.42	216.70	216.40	216.24	216.11	215.69
31	214.56	--	213.61	214.86	--	221.38	--	216.72	--	216.29	216.67	--
MEAN	215.53	213.82	213.45	213.81	215.75	217.38	217.83	216.31	216.78	216.07	216.30	216.22
MAX	217.61	214.50	213.89	214.86	217.78	221.38	224.14	216.72	218.01	216.63	217.15	216.88
MIN	214.56	213.41	212.97	213.25	214.89	216.13	216.15	216.05	216.32	215.50	215.98	215.64

02098197 B. EVERETT JORDAN LAKE AT DAM NEAR MONCURE, NC--Continued



## CAPE FEAR RIVER BASIN

02098198 HAW RIVER BELOW B. EVERETT JORDAN LAKE DAM NEAR MONCURE, NC

LOCATION.--Lat 35°39'11", long 79°04'03", Chatham County, Hydrologic Unit 0303002, on right bank 300 ft downstream from B. Everett Jordan Lake Dam, 2.5 mi north of Moncure, and 4.2 mi upstream from mouth.

DRAINAGE AREA.--1,689 mi<sup>2</sup>.

## GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 1965 to current year. Discharge records, October 1965 to September 1992. Gage height records only, October 1992 to current year. October 1965 to September 1978, published as "Haw River nr Haywood, NC" (02098200).

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 155.00 ft above sea level (U.S. Corps of Engineers bench mark). Prior to Oct. 1, 1978, water-stage recorder at site 0.3 mi. downstream at same datum. U.S. Army Corps of Engineers satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum, 22.41 ft, Oct. 25, 1971 at site 0.3 mi downstream; minimum not determined.

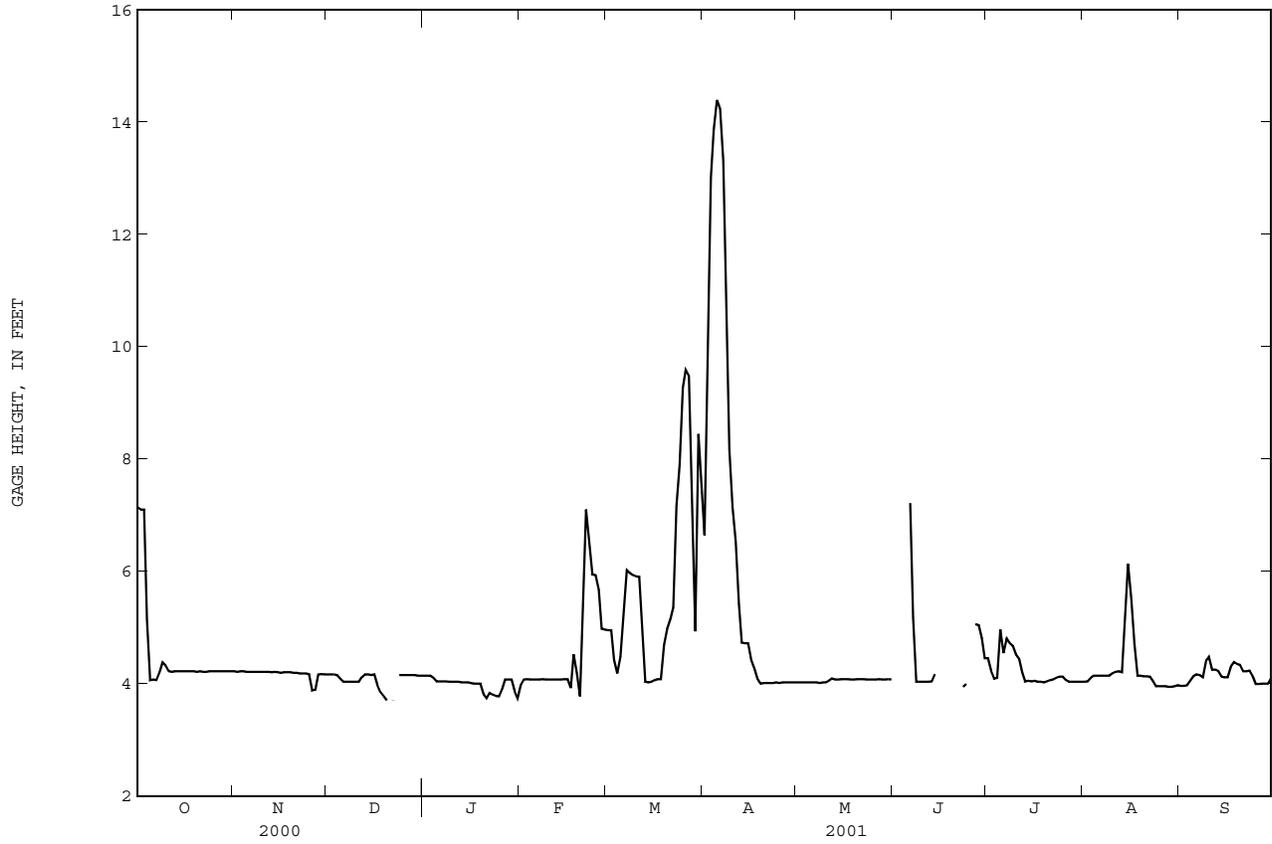
EXTREMES FOR CURRENT YEAR.--Maximum, 14.60 ft, Apr. 4; minimum, 3.62 ft, Nov. 27, Dec. 22, Jan 21.

REMARKS.--Stage regulated by B. Everett Jordan Lake Dam (Station 02098197).

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.14	4.22	4.16	4.14	3.97	4.95	6.64	4.02	---	4.45	4.03	3.96
2	7.10	4.21	4.16	4.14	4.07	4.95	9.21	4.02	---	4.23	4.04	3.96
3	7.10	4.22	4.16	4.14	4.08	4.42	13.00	4.02	---	4.09	4.10	3.97
4	5.14	4.22	4.15	4.10	4.07	4.18	13.86	4.02	---	4.10	4.14	4.05
5	4.06	4.21	4.09	4.04	4.07	4.48	14.39	4.02	---	4.96	4.14	4.13
6	4.07	4.21	4.03	4.04	4.07	5.26	14.23	4.02	7.21	4.54	4.14	4.16
7	4.06	4.21	4.03	4.04	4.07	6.02	13.30	4.02	5.18	4.80	4.14	4.15
8	4.20	4.21	4.03	4.04	4.08	5.97	10.94	4.01	4.03	4.72	4.14	4.11
9	4.38	4.21	4.03	4.03	4.07	5.93	8.17	4.02	4.03	4.67	4.14	4.40
10	4.32	4.21	4.03	4.03	4.07	5.91	7.14	4.02	4.03	4.52	4.18	4.47
11	4.22	4.21	4.03	4.03	4.07	5.90	6.53	4.05	4.03	4.44	4.21	4.25
12	4.21	4.21	4.11	4.03	4.07	4.89	5.42	4.09	4.03	4.19	4.22	4.25
13	4.22	4.20	4.16	4.02	4.07	4.03	4.73	4.07	4.04	4.04	4.20	4.22
14	4.22	4.21	4.16	4.02	4.07	4.02	4.72	4.07	4.17	4.05	5.06	4.12
15	4.22	4.20	4.15	4.02	4.08	4.03	4.72	4.08	---	4.04	6.13	4.11
16	4.22	4.19	4.16	4.01	4.08	4.06	4.41	4.08	---	4.05	5.53	4.11
17	4.22	4.20	3.97	4.00	3.92	4.08	4.26	4.08	---	4.03	4.72	4.30
18	4.22	4.20	3.84	4.00	4.52	4.08	4.09	4.07	---	4.03	4.14	4.38
19	4.22	4.20	3.77	4.00	4.19	4.69	4.00	4.07	---	4.02	4.14	4.35
20	4.21	4.19	3.70	3.81	3.77	4.98	4.01	4.08	---	4.04	4.13	4.33
21	4.22	4.19	---	3.74	5.51	5.15	4.01	4.08	---	4.06	4.13	4.22
22	4.21	4.18	3.69	3.83	7.10	5.35	4.01	4.08	---	4.07	4.12	4.22
23	4.21	4.18	---	3.80	6.49	7.17	4.01	4.07	3.94	4.10	4.05	4.23
24	4.22	4.18	4.15	3.78	5.94	7.90	4.02	4.07	3.99	4.12	3.95	4.14
25	4.22	4.17	4.15	3.77	5.93	9.27	4.01	4.07	---	4.12	3.95	3.99
26	4.22	3.88	4.15	3.89	5.67	9.59	4.02	4.07	---	4.06	3.95	3.99
27	4.22	3.89	4.15	4.07	4.98	9.48	4.02	4.08	5.06	4.03	3.95	4.00
28	4.22	4.16	4.15	4.07	4.96	7.75	4.02	4.07	5.04	4.03	3.94	4.00
29	4.22	4.17	4.15	4.07	---	4.93	4.02	4.07	4.80	4.03	3.94	4.00
30	4.22	4.16	4.14	3.86	---	8.44	4.02	4.08	4.45	4.03	3.95	4.10
31	4.22	---	4.14	3.74	---	7.55	---	4.07	---	4.03	3.97	---
MEAN	4.52	4.18	---	3.98	4.57	5.79	6.60	4.06	---	4.22	4.24	4.16
MAX	7.14	4.22	---	4.14	7.10	9.59	14.39	4.09	---	4.96	6.13	4.47
MIN	4.06	3.88	---	3.74	3.77	4.02	4.00	4.01	---	4.02	3.94	3.96

02098198 HAW RIVER BELOW B. EVERETT JORDAN LAKE DAM NEAR MONCURE, NC--Continued



PRECIPITATION RECORDS

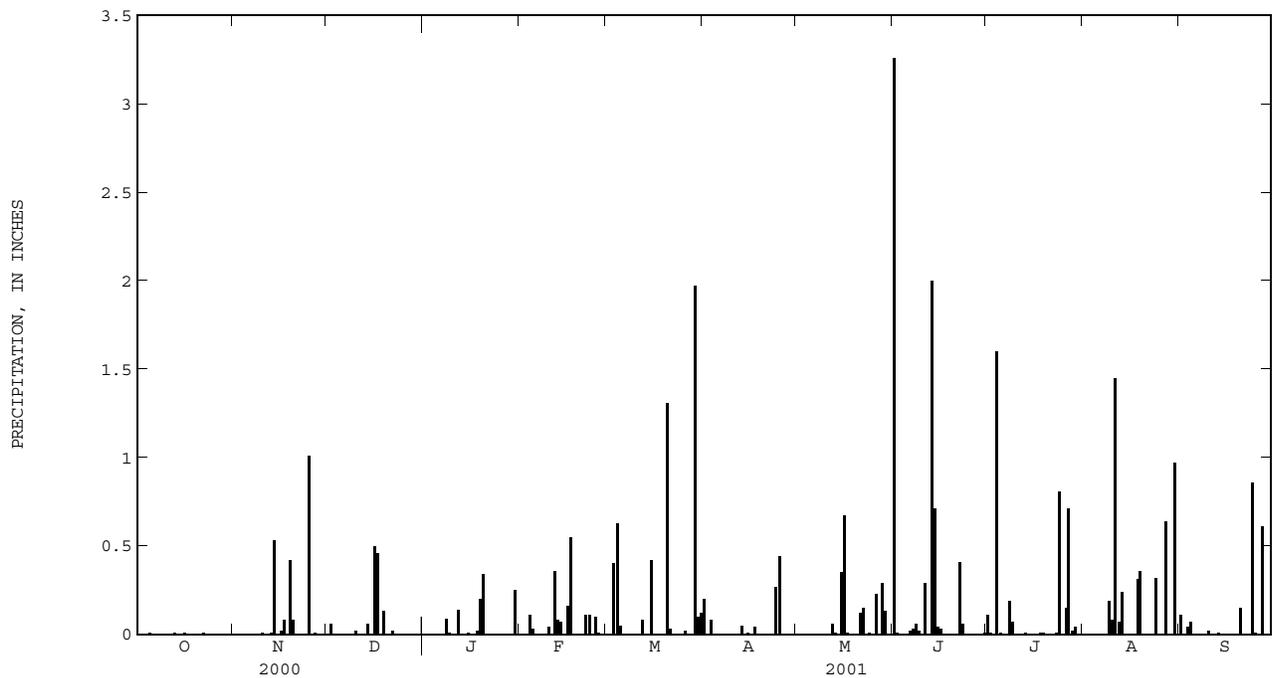
PERIOD OF RECORD.--October 1998 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at site.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.20	.00	3.26	.11	.00	.11
2	.00	.00	.06	.00	.00	.00	.00	.00	.01	.01	.00	.00
3	.00	.00	.00	.00	.00	.40	.08	.00	.00	.00	.00	.04
4	.00	.00	.00	.00	.11	.63	.00	.00	.00	1.60	.00	.07
5	.01	.00	.00	.00	.03	.05	.00	.00	.00	.01	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00
8	.00	.00	.00	.09	.00	.00	.00	.00	.06	.19	.00	.00
9	.00	.00	.00	.01	.00	.00	.00	.00	.02	.07	.19	.00
10	.00	.01	.02	.00	.04	.00	.00	.00	.00	.00	.08	.02
11	.00	.00	.00	.00	.00	.00	.00	.00	.29	.00	1.45	.00
12	.00	.00	.00	.14	.36	.08	.00	.06	.00	.00	.07	.00
13	.01	.01	.00	.00	.08	.00	.05	.01	2.00	.01	.24	.01
14	.00	.53	.06	.00	.07	.00	.00	.00	.71	.00	.00	.00
15	.00	.00	.00	.01	.00	.42	.01	.35	.04	.00	.00	.00
16	.01	.02	.50	.00	.16	.00	.00	.67	.03	.00	.00	.00
17	.00	.08	.46	.00	.55	.00	.04	.01	.00	.00	.00	.00
18	.00	.00	.00	.02	.00	.00	.00	.00	.00	.01	.31	.00
19	.00	.42	.13	.20	.00	.00	.00	.00	.00	.01	.36	.00
20	.00	.08	.00	.34	.00	1.31	.00	.00	.00	.00	.00	.15
21	.00	.00	.00	.00	.00	.03	.00	.12	.00	.00	.00	.00
22	.01	.00	.02	.00	.11	.00	.00	.15	.41	.00	.00	.00
23	.00	.00	.00	.00	.11	.00	.00	.00	.06	.01	.00	.00
24	.00	.00	.00	.00	.00	.00	.27	.01	---	.81	.32	.86
25	.00	1.01	.00	.00	.10	.00	.44	.00	---	.00	.00	.01
26	.00	.00	.00	.00	.01	.02	.00	.23	---	.15	.00	.00
27	.00	.01	.00	.00	.00	.00	.00	.00	.00	.71	.64	.61
28	.00	.00	.00	.00	.00	.00	.00	.29	.00	.02	.00	.00
29	.00	.00	.00	.00	---	1.97	.00	.13	.00	.04	.00	.00
30	.00	.00	.00	.25	---	.10	.00	.00	.01	.00	.97	.00
31	.00	---	.00	.00	---	.12	---	.00	---	.00	.00	---
TOTAL	0.04	2.17	1.25	1.06	1.73	5.13	1.09	2.03	---	3.76	4.63	1.88





Gaging station at Mallard Creek below Stony Creek near Harrisburg, North Carolina.

CAPE FEAR RIVER BASIN

02099000 EAST FORK DEEP RIVER NEAR HIGH POINT, NC

LOCATION.--Lat 36°02'15", long 79°56'46", Guilford County, Hydrologic Unit 03030003, on right bank 5 ft upstream from bridge on Secondary Road 1541, 3.3 mi upstream from High Point Dam, and 5.2 mi northeast of High Point College, High Point.

DRAINAGE AREA.--14.8 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1928 to March 1994, October 1997 to current year.

REVISED RECORDS.--WSP 1723: 1929(M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 764.02 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good below 100 ft<sup>3</sup>/s and poor above including those for estimated daily discharges. Maximum discharge, 6,300 ft<sup>3</sup>/s, gage height, 10.87 ft, from floodmark, from rating curve extended above 1,600 ft<sup>3</sup>/s on basis of contracted-opening measurement of peak flow. Minimum discharge for current water year also occurred Aug. 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	5.8	6.8	5.1	10	12	249	6.1	23	5.7	11	16
2	9.1	5.8	6.5	5.1	8.3	11	52	5.9	21	5.8	8.7	14
3	9.0	5.8	6.0	4.8	6.9	12	39	5.7	7.6	5.0	6.5	12
4	8.7	5.9	5.7	4.9	6.1	68	28	5.4	5.5	7.4	5.3	19
5	7.9	6.0	6.5	6.7	5.8	48	19	5.4	4.7	15	4.4	14
6	7.6	5.7	6.1	5.0	5.7	22	16	5.3	81	6.1	4.5	12
7	6.8	6.1	6.7	5.1	5.5	17	14	4.9	41	4.9	5.8	11
8	5.9	7.3	6.7	11	5.2	15	12	4.8	12	20	3.5	11
9	6.2	13	5.6	10	5.2	13	11	5.1	7.3	14	2.9	11
10	6.2	14	5.4	6.0	7.5	9.2	11	7.0	5.6	7.0	2.7	16
11	6.4	8.2	5.5	5.4	5.4	e8.3	10	9.1	4.7	5.6	33	12
12	6.1	5.7	5.8	5.6	7.7	8.9	10	9.8	4.5	4.4	17	8.7
13	6.0	4.7	5.5	5.5	10	14	11	11	10	5.4	7.9	7.4
14	5.8	16	7.5	5.4	11	10	11	8.3	18	4.6	6.7	6.5
15	6.4	10	7.0	5.5	12	68	9.5	7.9	8.1	3.9	4.5	6.1
16	6.0	7.7	24	5.5	21	34	9.2	30	6.7	4.3	3.9	5.9
17	5.5	7.1	61	5.1	402	18	8.4	20	5.7	4.8	3.7	5.5
18	5.7	5.6	19	16	33	13	8.2	9.4	5.3	8.6	10	4.6
19	5.7	5.9	16	137	20	11	7.8	7.1	5.1	7.2	9.1	4.8
20	5.7	7.2	e13	141	16	84	7.8	6.5	4.6	4.3	5.1	16
21	4.9	5.6	e9.4	36	14	241	7.9	6.7	4.0	3.5	4.1	12
22	5.5	4.6	7.9	18	15	69	7.8	6.8	7.9	3.1	3.7	10
23	5.7	4.3	e6.6	14	15	25	7.8	13	19	2.8	3.5	9.5
24	7.1	4.4	6.1	12	15	17	12	5.9	6.6	2.9	35	45
25	6.3	21	e6.5	9.8	48	14	62	7.2	8.5	3.0	8.8	26
26	5.8	23	e6.2	8.0	29	12	18	155	6.0	46	6.1	11
27	6.0	13	5.8	7.2	17	11	10	21	24	78	5.4	7.6
28	6.4	11	6.0	6.3	14	9.9	8.2	16	9.1	21	6.9	6.6
29	6.7	9.4	5.6	6.0	---	452	6.9	12	9.5	61	5.8	5.4
30	5.7	7.9	5.5	15	---	148	6.3	8.7	8.5	37	5.7	5.1
31	5.6	---	5.1	12	---	136	---	6.6	---	11	7.4	---
TOTAL	202.0	257.7	297.0	540.0	771.3	1631.3	690.8	433.6	384.5	413.3	248.6	351.7
MEAN	6.52	8.59	9.58	17.4	27.5	52.6	23.0	14.0	12.8	13.3	8.02	11.7
MAX	9.6	23	61	141	402	452	249	155	81	78	35	45
MIN	4.9	4.3	5.1	4.8	5.2	8.3	6.3	4.8	4.0	2.8	2.7	4.6
CFSM	.44	.58	.65	1.18	1.86	3.56	1.56	.95	.87	.90	.54	.79
IN.	.51	.65	.75	1.36	1.94	4.10	1.74	1.09	.97	1.04	.62	.88

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2001,® BY WATER YEAR (WY)

	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	11.8	11.6	16.2	24.6	27.7	26.7	21.1	15.6	12.4	12.6	12.5	14.4																																																													
MAX	79.5	39.2	48.6	82.9	83.0	106	71.6	58.8	61.5	97.5	55.9	124																																																													
(WY)	1960	1980	1933	1978	1979	1975	1987	1978	1969	1975	1949	2000																																																													
MIN	1.88	2.35	3.53	4.32	6.48	6.76	5.52	4.57	3.41	2.93	2.87	1.74																																																													
(WY)	1942	1942	1942	1942	1931	1967	1942	1941	1986	1977	1941	1954																																																													

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

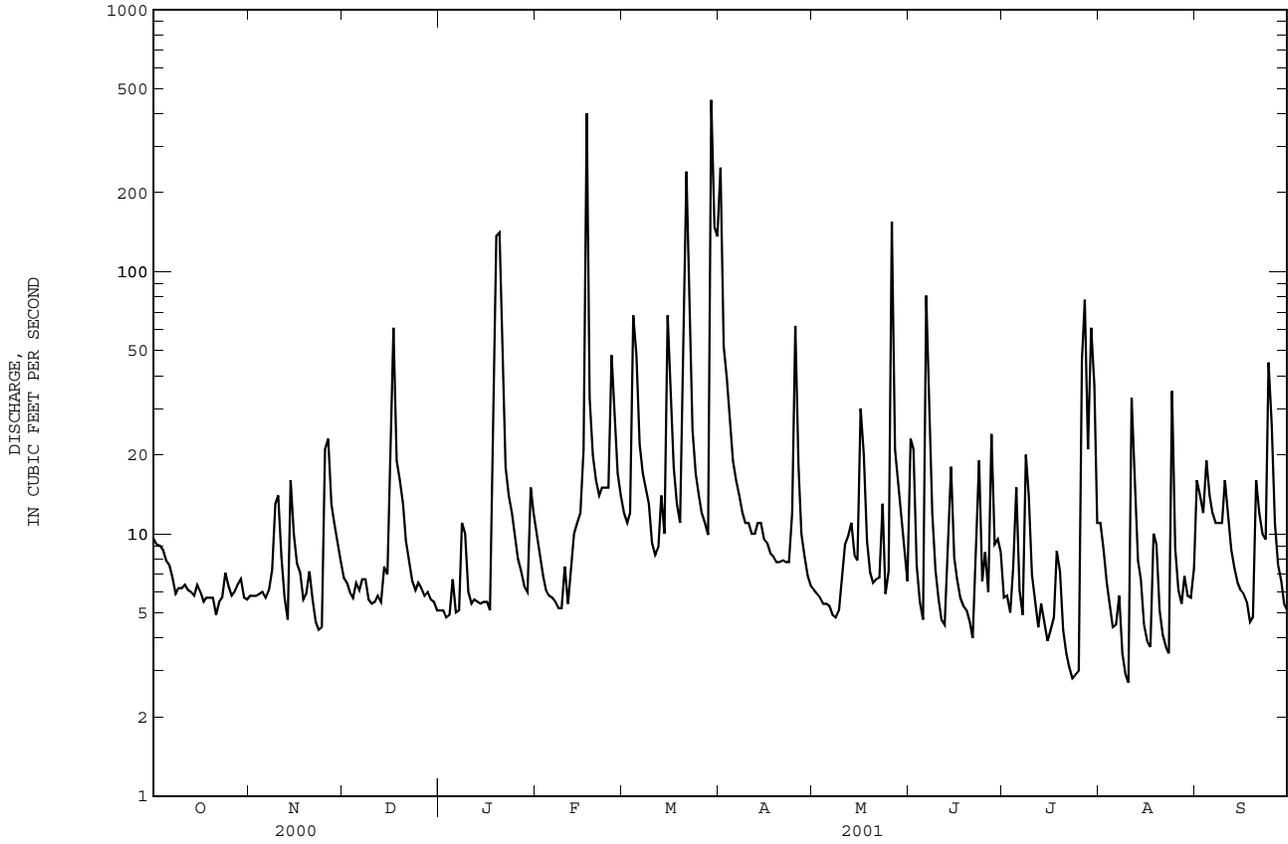
FOR 2001 WATER YEAR

WATER YEARS 1929 - 2001®

ANNUAL TOTAL	8974.1	6221.8	
ANNUAL MEAN	24.5	17.0	17.2
HIGHEST ANNUAL MEAN			34.1
LOWEST ANNUAL MEAN			7.28
HIGHEST DAILY MEAN	1290	Sep 15	452
LOWEST DAILY MEAN	2.5	Jul 11	2.7
ANNUAL SEVEN-DAY MINIMUM	3.2	May 11	3.8
MAXIMUM PEAK FLOW			2530
MAXIMUM PEAK STAGE			8.76
INSTANTANEOUS LOW FLOW			2.5*
ANNUAL RUNOFF (CFSM)	1.66		1.15
ANNUAL RUNOFF (INCHES)	22.56		15.64
10 PERCENT EXCEEDS	38		24
50 PERCENT EXCEEDS	8.1		7.6
90 PERCENT EXCEEDS	4.7		4.9

e Estimated.  
® See PERIOD OF RECORD.  
\* See REMARKS.

02099000 EAST FORK DEEP RIVER NEAR HIGH POINT, NC--Continued



CAPE FEAR RIVER BASIN

02099500 DEEP RIVER NEAR RANDLEMAN, NC

LOCATION.--Lat 35°54'06", long 79°51'05", Randolph County, Hydrologic Unit 03030003, on left bank 500 ft downstream of bridge on Secondary Road 1929, 0.2 mi downstream of Coltranés Mill, 0.5 mi south of Guilford County line, 4.8 mi upstream from Muddy Creek, and 7 mi north of Randleman.

DRAINAGE AREA.--125 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1928 to current year.

REVISED RECORDS.--WSP 782: 1929-30. WSP 1383: 1934-35, 1941. WSP 1723: 1929(M). WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 638.11 ft above sea level (levels by U.S. Army Corps of Engineers). Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Diurnal fluctuation at times during periods of low flow caused by Coltranés Mill. Some regulation by Oak Hollow Reservoir (station 02098495) and High Point Lake (station 02099096). City of High Point diverted an average of 22.2 ft<sup>3</sup>/s for municipal water supply, 19.2 ft<sup>3</sup>/s was discharged as treated effluent into Richland Creek upstream from station and 5.6 ft<sup>3</sup>/s into Rich Fork Creek in Pee Dee River basin. Maximum discharge for period of record from rating curve extended above 7,100 ft<sup>3</sup>/s on basis of contracted-opening measurement of peak flow at bridge 1.5 mi upstream; maximum gage height for period of record from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	29	32	24	46	78	1070	37	96	26	40	25
2	42	27	32	24	42	67	605	37	102	67	35	24
3	39	29	31	23	38	66	288	37	54	29	e29	24
4	36	28	30	28	35	333	221	35	41	26	e24	24
5	34	29	30	34	33	316	149	34	35	60	e21	25
6	31	30	30	34	31	208	118	33	33	32	e20	24
7	29	30	32	32	30	130	97	33	58	27	e22	24
8	28	33	30	32	28	88	85	33	56	29	e26	23
9	26	35	30	37	28	73	74	33	49	40	24	23
10	30	45	29	29	31	65	66	34	36	30	24	28
11	28	36	28	27	31	58	60	35	31	27	64	37
12	27	34	28	27	34	54	57	34	29	28	53	24
13	28	32	29	30	59	72	57	32	30	26	34	23
14	29	69	31	28	51	69	59	31	94	26	30	22
15	28	51	33	27	55	195	56	33	38	26	30	22
16	27	36	36	26	82	295	56	40	31	25	28	21
17	28	33	80	26	1110	170	55	56	27	24	27	21
18	30	34	46	31	370	114	52	38	25	25	78	20
19	25	34	37	102	191	80	48	33	24	36	41	20
20	31	41	42	298	127	113	44	31	26	30	31	23
21	31	39	34	186	95	815	42	52	26	27	28	25
22	30	34	32	101	84	542	37	42	26	26	26	24
23	29	33	29	65	96	254	38	39	61	25	25	23
24	32	30	28	52	98	160	39	33	33	24	43	113
25	33	67	27	46	178	117	106	32	47	24	37	66
26	31	102	25	44	239	92	96	237	37	137	30	29
27	30	47	27	39	142	76	62	132	54	92	28	23
28	28	39	27	37	97	66	50	71	36	57	27	20
29	28	36	27	35	---	439	43	58	30	36	26	19
30	30	33	26	52	---	1340	39	44	27	104	26	18
31	29	---	24	55	---	434	---	36	---	56	25	---
TOTAL	950	1175	1002	1631	3481	6979	3869	1485	1292	1247	1002	837
MEAN	30.6	39.2	32.3	52.6	124	225	129	47.9	43.1	40.2	32.3	27.9
MAX	43	102	80	298	1110	1340	1070	237	102	137	78	113
MIN	25	27	24	23	28	54	37	31	24	24	20	18
CFSM	.25	.31	.26	.42	.99	1.80	1.03	.38	.34	.32	.26	.22
IN.	.28	.35	.30	.49	1.04	2.08	1.15	.44	.38	.37	.30	.25

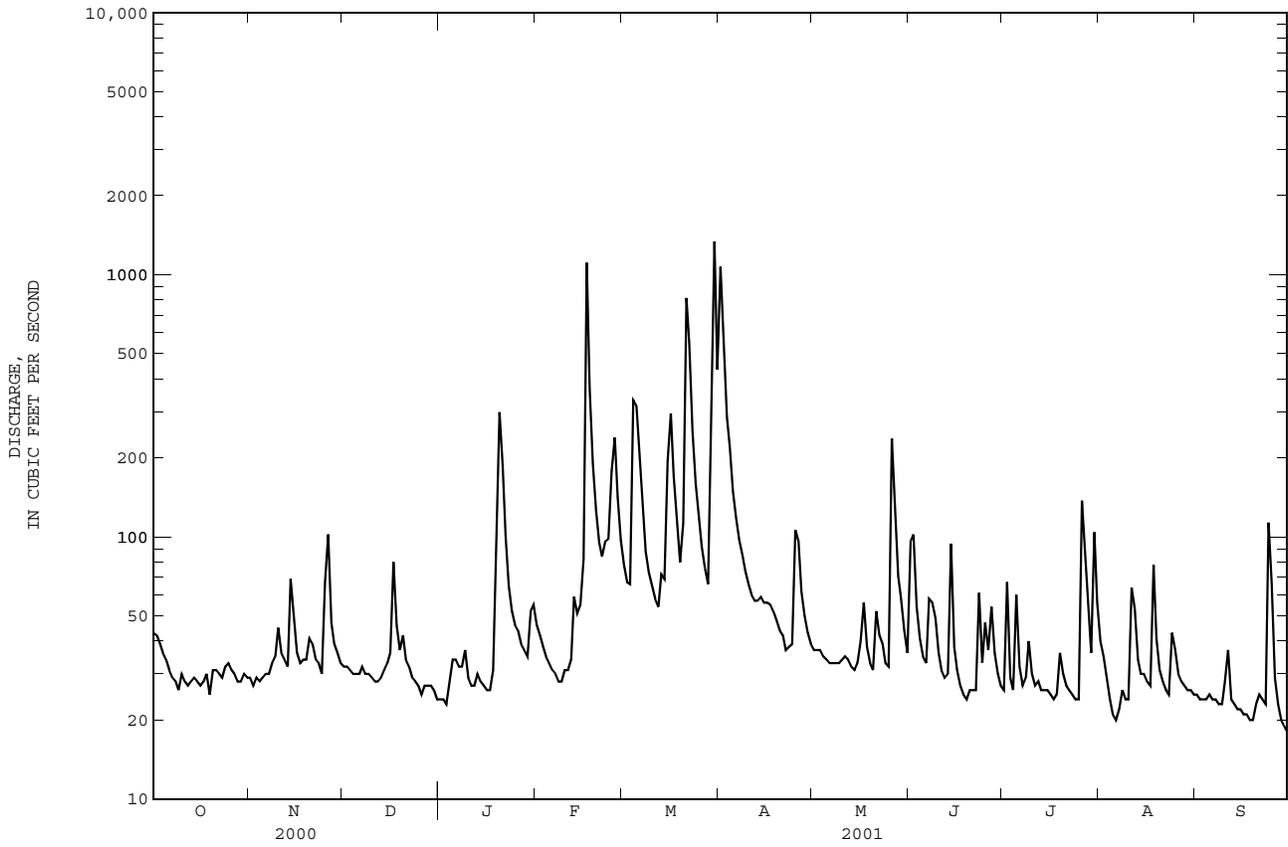
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2001, BY WATER YEAR (WY)

MEAN	77.6	80.4	124	199	229	227	175	105	76.9	79.7	74.2	86.2
MAX	474	354	389	645	584	697	529	445	351	465	311	831
(WY)	1991	1986	1933	1937	1960	1975	1936	1978	1982	1975	1949	1996
MIN	5.78	9.56	16.8	15.8	38.7	54.4	27.6	23.5	16.7	17.2	17.1	10.6
(WY)	1931	1932	1934	1942	1986	1967	1985	1977	1933	1947	1945	1941

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1929 - 2001
ANNUAL TOTAL	33963	24950	
ANNUAL MEAN	92.8	68.4	127
HIGHEST ANNUAL MEAN			230
LOWEST ANNUAL MEAN			45.9
HIGHEST DAILY MEAN	1010	Mar 17	12000
LOWEST DAILY MEAN	21	Jul 11	1.2
ANNUAL SEVEN-DAY MINIMUM	22	Jul 16	3.9
MAXIMUM PEAK FLOW		2510	20000*
MAXIMUM PEAK STAGE		13.40	32.20*
INSTANTANEOUS LOW FLOW		18	.50
ANNUAL RUNOFF (CFSM)	.74	.55	1.02
ANNUAL RUNOFF (INCHES)	10.11	7.43	13.84
10 PERCENT EXCEEDS	206	109	240
50 PERCENT EXCEEDS	39	34	51
90 PERCENT EXCEEDS	26	25	17

e Estimated.  
\* See REMARKS.

02099500 DEEP RIVER NEAR RANDLEMAN, NC--Continued



## CAPE FEAR RIVER BASIN

02100500 DEEP RIVER AT RAMSEUR, NC

LOCATION.--Lat 35°43'34", long 79°39'20", Randolph County, Hydrologic Unit 03030003, on right bank 0.2 mi downstream of Main Street bridge in Ramseur, 0.5 mi downstream of mill dam, and 1.5 mi downstream of Sandy Creek.

DRAINAGE AREA.--349 mi<sup>2</sup>.

PERIOD OF RECORD.--November 1922 to current year.

REVISED RECORDS.--WSP 1032: 1923-24, 1925(M), 1926, 1927-28(M), 1929, 1930(M), 1932-33, 1934(M), 1935, 1936-37(M), 1944(M). WSP 1383: 1923(m), 1925, 1927, 1930, 1936. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 419.50 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow slightly regulated by Oak Hollow Reservoir (station 02098495), High Point Municipal Lake (station 02099096), and small power plant reservoirs. Prior to January 1963, diurnal fluctuation caused by power plant immediately upstream from station. Town of Asheboro diverted an average of 8.4 ft<sup>3</sup>/s from Yadkin River Basin for water supply and discharged an average of 6.7 ft<sup>3</sup>/s of treated effluent upstream from the station. Maximum discharge for period of record from rating curve extended above 18,000 ft<sup>3</sup>/s, on basis of slope-area measurement of peak flow; gage height, 34.04 ft. Minimum discharge for period of record occurred frequently in 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1901 reached a stage of 28.75 ft, from floodmarks, 0.2 mi upstream; discharge, 30,000 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	63	55	65	134	176	2260	71	85	55	94	39
2	129	58	59	68	131	159	1950	85	373	30	71	40
3	41	58	66	72	118	147	755	83	208	45	65	40
4	46	58	87	68	76	578	587	83	108	88	58	40
5	96	61	56	65	72	728	410	81	91	601	e48	39
6	e46	58	58	74	90	493	322	76	69	178	e40	39
7	e44	59	64	75	89	310	289	73	69	105	e30	41
8	e42	64	68	88	85	219	250	61	86	69	33	40
9	e40	69	69	81	83	184	207	64	126	44	36	39
10	e60	76	67	92	84	158	211	68	104	41	37	39
11	e54	83	66	81	84	147	173	74	79	63	e80	36
12	58	76	68	75	95	143	163	74	57	64	e200	49
13	59	71	66	81	131	126	137	50	60	56	e160	49
14	58	78	68	83	176	152	127	65	215	51	122	43
15	57	124	73	84	190	171	131	68	180	45	66	39
16	61	102	83	78	140	603	150	58	94	41	51	37
17	58	82	253	70	2600	383	140	66	129	39	49	e34
18	63	69	260	74	1210	256	111	104	86	40	83	e32
19	76	81	156	92	472	179	108	98	69	39	237	32
20	64	134	120	722	302	174	109	64	60	39	116	33
21	54	63	77	622	241	1380	108	57	45	43	27	35
22	36	38	72	346	206	1170	98	79	42	41	e38	39
23	42	67	83	214	180	558	108	110	209	39	46	42
24	51	67	74	179	195	362	96	88	174	38	65	53
25	58	81	74	159	207	249	135	75	113	37	79	275
26	61	228	72	97	388	197	277	139	76	38	72	138
27	62	e188	71	109	308	178	180	371	84	146	55	63
28	56	137	75	119	203	158	167	191	85	126	50	46
29	56	72	75	78	---	506	113	136	84	100	47	37
30	54	67	74	74	---	4020	88	124	73	90	45	21
31	56	---	71	146	---	1100	---	89	---	121	44	---
TOTAL	1859	2532	2680	4331	8290	15364	9960	2925	3333	2552	2244	1529
MEAN	60.0	84.4	86.5	140	296	496	332	94.4	111	82.3	72.4	51.0
MAX	129	228	260	722	2600	4020	2260	371	373	601	237	275
MIN	36	38	55	65	72	126	88	50	42	30	27	21
CFSM	.17	.24	.25	.40	.85	1.42	.95	.27	.32	.24	.21	.15
IN.	.20	.27	.29	.46	.88	1.64	1.06	.31	.36	.27	.24	.16

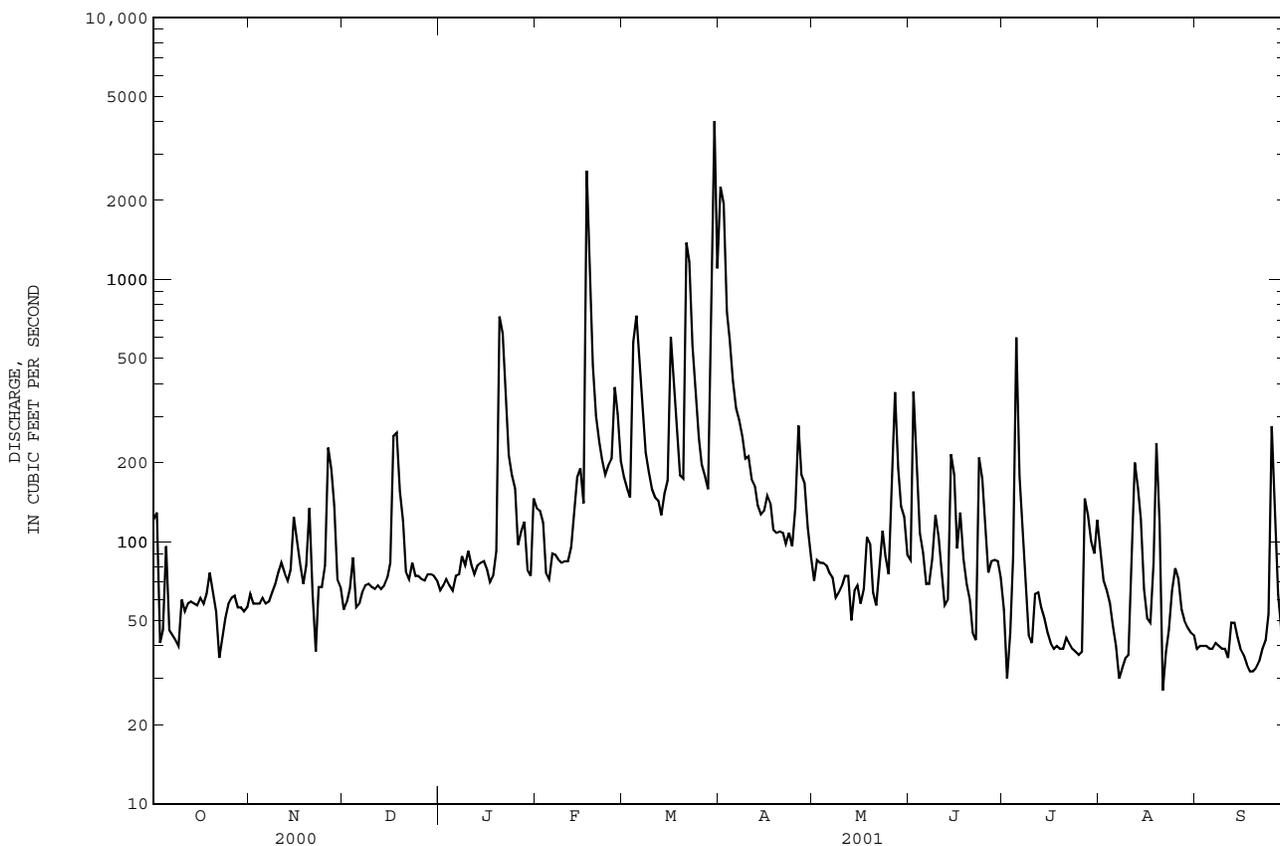
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2001, BY WATER YEAR (WY)

MEAN	207	213	340	555	655	646	494	289	211	219	203	241
MAX	1193	1237	1050	1660	1642	1842	1440	944	978	1434	896	1934
(WY)	1991	1986	1933	1937	1979	1975	1936	1978	1982	1975	1939	1928
MIN	8.69	14.1	39.1	40.8	131	144	116	71.3	48.1	36.5	32.4	17.7
(WY)	1942	1942	1934	1942	1931	1967	1967	1986	1933	1986	1956	1954

02100500 DEEP RIVER AT RAMSEUR, NC--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1923 - 2001	
ANNUAL TOTAL	89360		57599		354	
ANNUAL MEAN	244		158		665	
HIGHEST ANNUAL MEAN					1975	
LOWEST ANNUAL MEAN					155	
HIGHEST DAILY MEAN	3330	Mar 17	4020	Mar 30	27800	Sep 18 1945
LOWEST DAILY MEAN	25	Jul 22	21	Sep 30	.70	Nov 29 1941
ANNUAL SEVEN-DAY MINIMUM	30	Jul 17	35	Sep 15	3.6	Oct 19 1941
MAXIMUM PEAK FLOW			5630		43000*	
MAXIMUM PEAK STAGE			10.08		34.04*	
INSTANTANEOUS LOW FLOW			20		.40*	
ANNUAL RUNOFF (CFSM)	.70		.45		1.02	
ANNUAL RUNOFF (INCHES)	9.52		6.14		13.79	
10 PERCENT EXCEEDS	547		254		681	
50 PERCENT EXCEEDS	116		78		150	
90 PERCENT EXCEEDS	48		40		37	

e Estimated.  
 \* See REMARKS.



CAPE FEAR RIVER BASIN

0210166029 ROCKY RIVER NEAR CRUTCHFIELD CROSSROADS, NC

LOCATION.--Lat 35°48'25", long 79°31'41", Chatham County, Hydrologic Unit 03030003, on right bank at downstream side of culvert on Secondary Road 1300, and 5.5 mi west of Crutchfield Crossroads.

DRAINAGE AREA.--7.42 mi<sup>2</sup>.

REVISIONS.--WDR NC-98-1(M).

PERIOD OF RECORD.--May 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 620 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. No flow occurred several days in Aug. 1988.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	e.60	1.4	1.3	2.0	2.6	62	1.8	9.2	.65	.62	.30
2	1.1	e.60	1.2	e1.2	1.8	2.4	31	1.8	5.2	.83	.55	.35
3	.81	e.60	1.3	e1.1	1.6	2.5	12	1.7	2.6	.72	.50	.28
4	.82	e.60	1.3	e1.0	1.5	28	8.5	1.5	2.4	1.0	.43	.33
5	.81	e.60	1.3	e1.1	1.7	14	6.6	1.4	1.5	5.4	.36	.35
6	.84	e.60	1.3	1.2	1.5	6.5	5.8	1.3	1.1	1.2	.32	.25
7	e.80	e.60	1.3	1.2	1.5	5.7	5.3	1.3	.93	.81	.27	.22
8	e.70	e.70	1.3	1.4	1.5	5.1	5.0	1.3	2.3	2.0	.27	.19
9	e.70	e.70	1.2	1.5	1.4	4.4	4.5	1.2	2.1	2.3	.23	.16
10	e.70	e.80	1.3	1.3	3.4	3.8	3.9	1.3	1.0	1.5	.22	.16
11	e.70	e.90	1.3	1.3	1.5	3.5	3.4	1.2	.89	.99	.84	.16
12	e.70	e.90	1.4	1.5	2.4	3.3	3.1	1.3	.84	.77	7.5	.13
13	e.70	e.80	1.3	1.8	4.2	4.2	3.0	1.2	4.3	.59	1.3	.11
14	e.60	e.90	1.7	1.5	4.0	4.1	2.9	1.1	13	.55	1.1	.12
15	e.70	e1.7	3.6	1.5	3.6	11	2.7	1.0	5.1	.51	.87	.13
16	e.60	e1.1	2.9	1.4	2.9	9.4	2.7	1.7	2.5	.46	.47	.12
17	e.70	e.80	41	1.2	90	5.0	2.4	2.0	2.1	.42	.33	.12
18	e.70	e.80	4.5	1.4	14	3.6	2.5	1.6	1.4	.50	1.1	.11
19	e.60	e1.1	3.4	2.3	6.6	2.9	2.3	1.4	.89	.61	4.8	.10
20	e.50	e1.5	3.3	19	4.9	12	2.3	1.3	.78	.50	1.1	.11
21	e.40	e1.0	2.2	5.5	3.8	63	2.3	3.0	.66	.41	.58	1.2
22	e.50	1.1	2.0	3.3	3.4	17	2.3	1.5	2.7	.38	.40	.30
23	e.60	1.0	1.7	2.4	4.6	7.2	2.2	1.6	13	.31	.35	.14
24	e.60	.86	1.5	2.2	4.7	5.3	2.1	1.1	2.4	.34	2.0	.17
25	e.60	4.6	1.5	1.9	5.4	4.4	7.7	.98	1.6	.48	.89	1.3
26	e.70	4.8	1.3	1.8	5.6	3.8	3.9	3.3	1.4	.82	.42	.26
27	e.60	1.9	1.5	1.8	3.6	3.2	2.8	2.3	1.0	2.3	.28	.13
28	e.60	1.7	1.6	1.5	2.9	2.8	2.4	1.5	.90	1.6	.24	.13
29	e.60	1.5	1.4	1.5	---	50	2.0	1.8	.80	.78	.22	.12
30	e.60	1.4	1.4	2.5	---	72	1.9	1.3	.81	1.7	.25	.10
31	e.60	---	1.3	2.5	---	18	---	1.2	---	1.1	.48	---
TOTAL	21.68	36.76	94.7	72.1	186.0	380.7	201.5	47.98	85.40	32.53	29.29	7.65
MEAN	.70	1.23	3.05	2.33	6.64	12.3	6.72	1.55	2.85	1.05	.94	.25
MAX	1.5	4.8	41	19	90	72	62	3.3	13	5.4	7.5	1.3
MIN	.40	.60	1.2	1.0	1.4	2.4	1.9	.98	.66	.31	.22	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2001, BY WATER YEAR (WY)

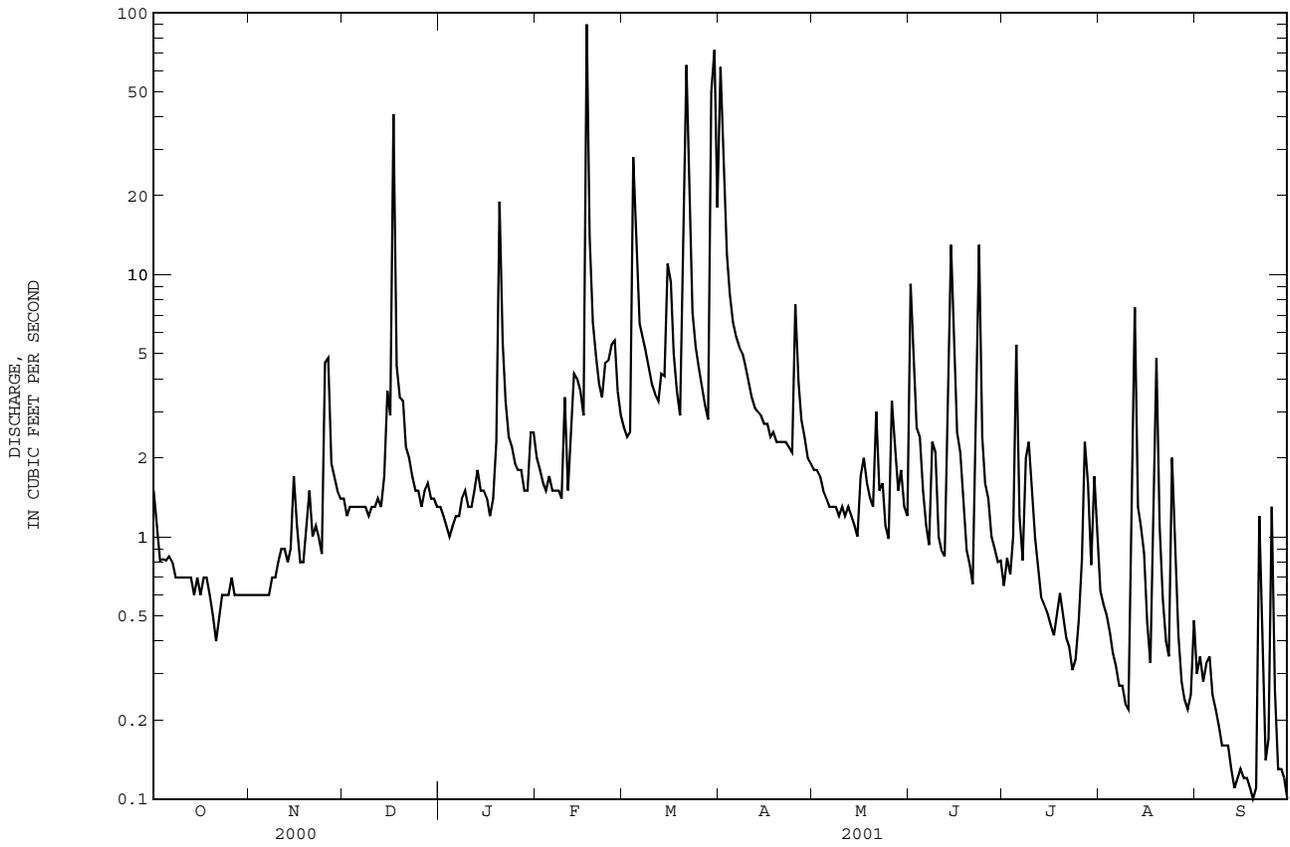
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	5.45	4.94	4.98	13.7	13.6	16.5	9.55	5.21	3.77	3.34	1.65	5.00		
MAX	17.1	18.2	10.6	37.3	32.9	42.4	22.0	19.2	20.5	14.8	8.61	23.7		
(WY)	1990	1996	1990	1998	1998	1998	1997	1990	1995	1989	1994	1996		
MIN	.28	.42	1.29	2.33	4.63	4.86	1.94	1.55	.44	.45	.33	.25		
(WY)	1999	1999	1995	2001	1999	1999	1995	2001	1988	1998	1998	2001		

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1988 - 2001

ANNUAL TOTAL	1766.01	1196.29		
ANNUAL MEAN	4.83	3.28	7.35	
HIGHEST ANNUAL MEAN			12.8	1998
LOWEST ANNUAL MEAN			3.28	2001
HIGHEST DAILY MEAN	63	Jan 31	90	Feb 17
LOWEST DAILY MEAN	.19	Jul 11	.10	Sep 19
ANNUAL SEVEN-DAY MINIMUM	.31	Aug 20	.12	Sep 13
MAXIMUM PEAK FLOW			185	Mar 29
MAXIMUM PEAK STAGE			4.70	Mar 29
INSTANTANEOUS LOW FLOW			.06	Sep 27
10 PERCENT EXCEEDS	11		5.1	14
50 PERCENT EXCEEDS	1.5		1.3	2.1
90 PERCENT EXCEEDS	.46		.33	.34

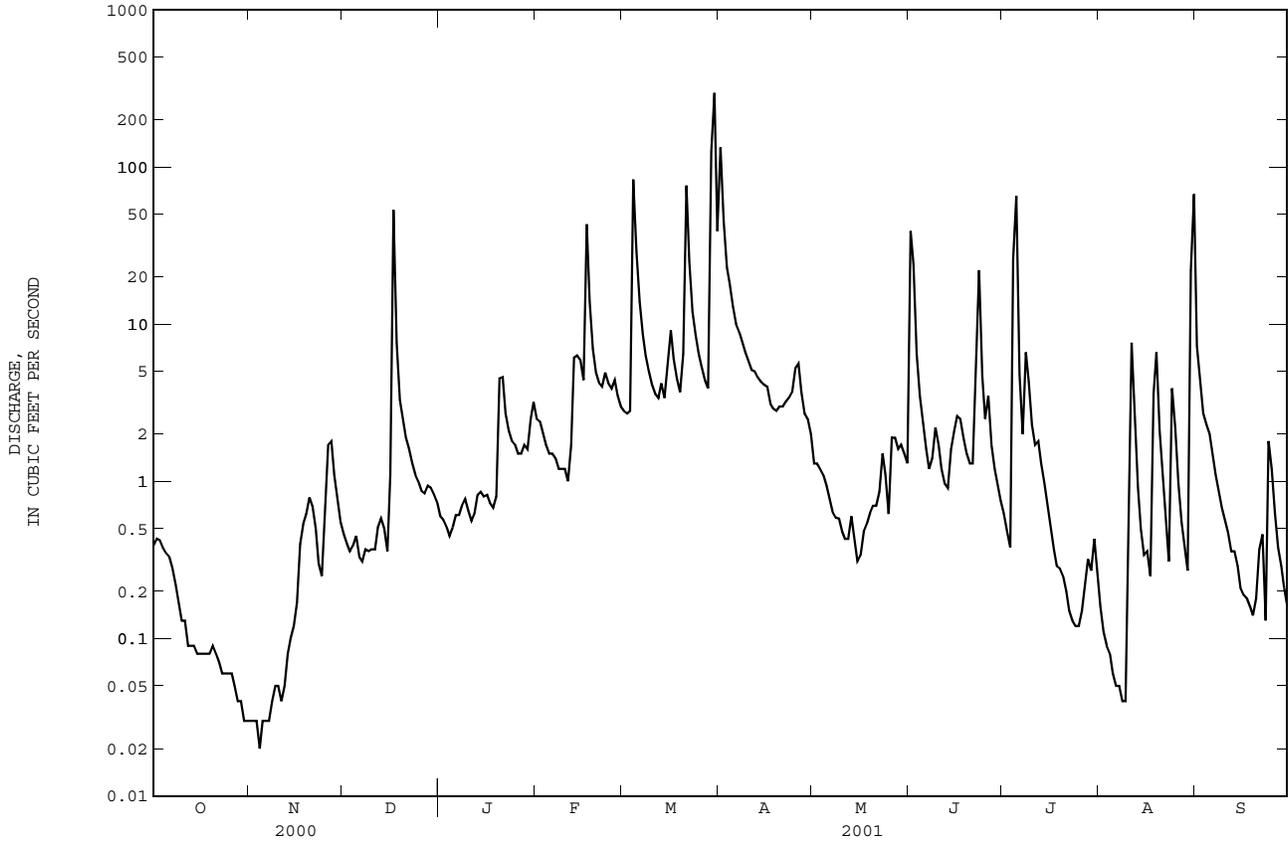
e Estimated.  
\* See REMARKS.

0210166029 ROCKY RIVER NEAR CRUTCHFIELD CROSSROADS, NC--Continued



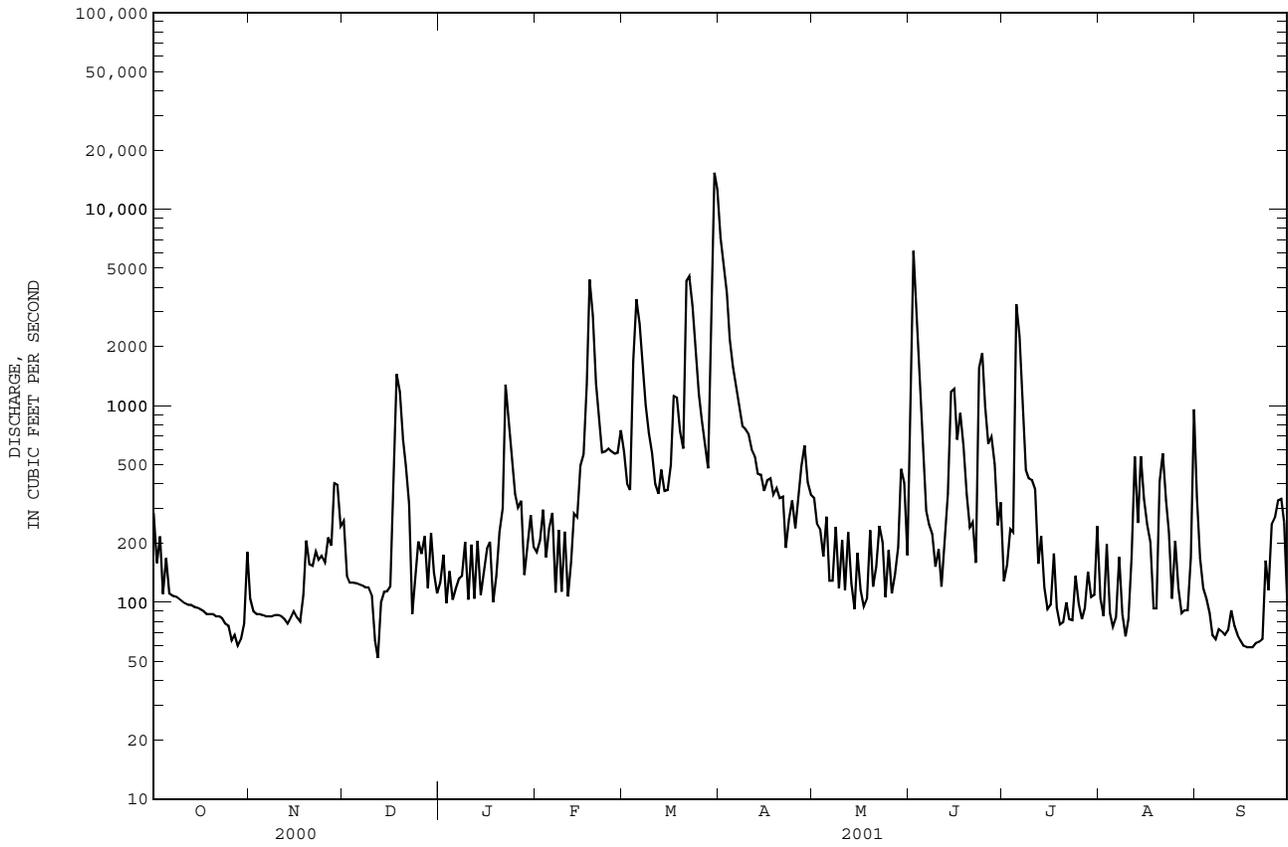


02101800 TICK CREEK NEAR MOUNT VERNON SPRINGS, NC--Continued





02102000 DEEP RIVER AT MONCURE, NC--Continued





0210215985 CAPE FEAR RIVER AT STATE HIGHWAY 42 NEAR BRICKHAVEN, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE) (01147)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
OCT 31...	109	<.14	2.2	E1	<2.6	<.43	<31	8.7	23	42
DEC 18...	--	--	--	--	--	--	--	8.9	10	43
FEB 20...	--	--	--	--	--	--	--	12	59	239
APR 27...	176	<.14	E.9	E1	<2.6	<.43	<31	7.5	--	--
JUN 27...	--	--	--	--	--	--	--	9.8	42	260
AUG 21...	--	--	--	--	--	--	--	8.3	4	13

CAPE FEAR RIVER BASIN

02102192 BUCKHORN CREEK NEAR CORINTH, NC

LOCATION.--Lat 35°33'34", long 78°58'25", Chatham County, Hydrologic Unit 03030004, on left bank at upstream side of bridge on State Highway 42, 0.2 mi downstream of White Oak Creek, 1.2 mi downstream of Harris Lake, and 2 mi east of Corinth.

DRAINAGE AREA.--76.3 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1972 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 154.63 ft above sea level. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Since Dec. 1, 1980, considerable regulation by Harris Lake (station 02102190). Maximum discharge prior to regulation: 6,920 ft<sup>3</sup>/s, Feb. 2, 1973; gage height: 20.02 ft. Minimum discharge prior to regulation: 0.01 ft<sup>3</sup>/s, Sept. 2, 1976. Minimum discharge for the current water year also occurred Nov. 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	1.7	2.3	1.9	1.9	2.8	309	11	18	32	21	34
2	6.3	1.7	2.3	1.9	1.8	2.8	386	9.6	79	28	18	30
3	4.7	1.7	2.5	1.8	1.8	3.1	344	8.2	76	22	15	27
4	4.0	1.6	2.3	1.9	1.8	15	307	6.5	67	84	12	24
5	3.6	1.8	2.2	2.0	2.3	8.8	268	5.3	58	790	9.8	21
6	3.4	1.7	2.2	2.0	2.0	6.1	233	5.5	51	697	7.8	18
7	5.3	1.6	2.2	2.1	1.9	4.8	206	4.2	42	568	6.1	14
8	6.4	1.5	2.1	2.2	1.8	4.1	182	2.3	36	480	4.9	12
9	2.8	1.5	2.0	2.3	1.8	3.7	159	1.8	33	422	3.8	10
10	2.0	1.6	2.0	2.0	1.9	3.5	139	1.6	28	418	22	8.4
11	2.0	1.5	2.0	1.9	1.7	3.3	123	1.6	23	347	392	7.9
12	1.9	1.3	2.0	1.9	2.4	3.1	103	1.5	20	292	828	6.2
13	1.9	1.2	1.9	2.2	2.9	3.3	91	2.7	25	243	657	4.9
14	1.9	2.4	2.0	1.8	2.5	3.0	80	1.6	147	203	606	6.0
15	1.8	1.9	2.1	1.9	2.4	4.4	66	1.4	290	168	516	5.3
16	1.6	1.3	2.1	1.8	2.4	5.0	60	4.2	269	139	436	3.9
17	1.7	1.5	5.5	1.8	7.0	3.8	51	3.1	257	113	362	2.8
18	1.8	1.4	3.2	1.8	5.3	3.4	42	2.3	224	91	311	2.8
19	1.9	1.7	2.8	2.0	3.9	3.0	34	2.1	189	78	287	2.8
20	2.0	2.6	2.7	3.5	3.5	13	28	2.0	157	64	247	2.9
21	1.9	2.1	2.4	2.8	3.3	83	24	1.7	131	51	214	3.0
22	1.7	1.6	2.4	2.4	3.7	72	21	1.7	110	40	180	3.0
23	1.8	1.5	2.2	2.2	4.1	71	19	2.3	106	33	151	3.1
24	1.8	1.3	2.1	2.1	4.2	68	18	1.6	103	29	135	3.6
25	2.0	3.6	2.1	2.0	3.5	65	29	1.3	105	24	115	4.3
26	2.0	4.0	1.9	1.9	3.8	61	26	1.7	88	22	93	3.4
27	2.0	2.7	2.0	1.9	3.3	54	20	1.8	69	37	77	3.3
28	2.0	2.6	2.1	2.1	2.9	47	18	1.8	58	37	67	3.4
29	2.0	2.4	1.9	1.8	---	158	16	2.5	47	32	55	4.0
30	1.8	2.3	1.9	2.2	---	280	14	2.0	38	30	44	4.1
31	1.7	---	1.9	2.1	---	256	---	1.5	---	25	39	---
TOTAL	86.8	57.3	71.3	64.2	81.8	1315.0	3416	98.4	2944	5639	5932.4	279.1
MEAN	2.80	1.91	2.30	2.07	2.92	42.4	114	3.17	98.1	182	191	9.30
MAX	9.1	4.0	5.5	3.5	7.0	280	386	11	290	790	828	34
MIN	1.6	1.2	1.9	1.8	1.7	2.8	14	1.3	18	22	3.8	2.8

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2001,® BY WATER YEAR (WY)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	
MEAN	21.5	23.1	32.2	66.8	102	129	88.1	40.6	27.9	27.2	25.6	29.3										
MAX	137	146	143	241	348	421	312	184	138	182	199	335										
(WY)	2000	1996	1984	1984	1998	1998	1993	1989	1984	2001	1986	1996										
MIN	.70	.81	1.40	2.07	1.37	1.66	1.13	1.56	.67	.34	.65	.88										
(WY)	1982	1992	1992	2001	1992	1992	1992	1992	1981	1981	1998	1981										

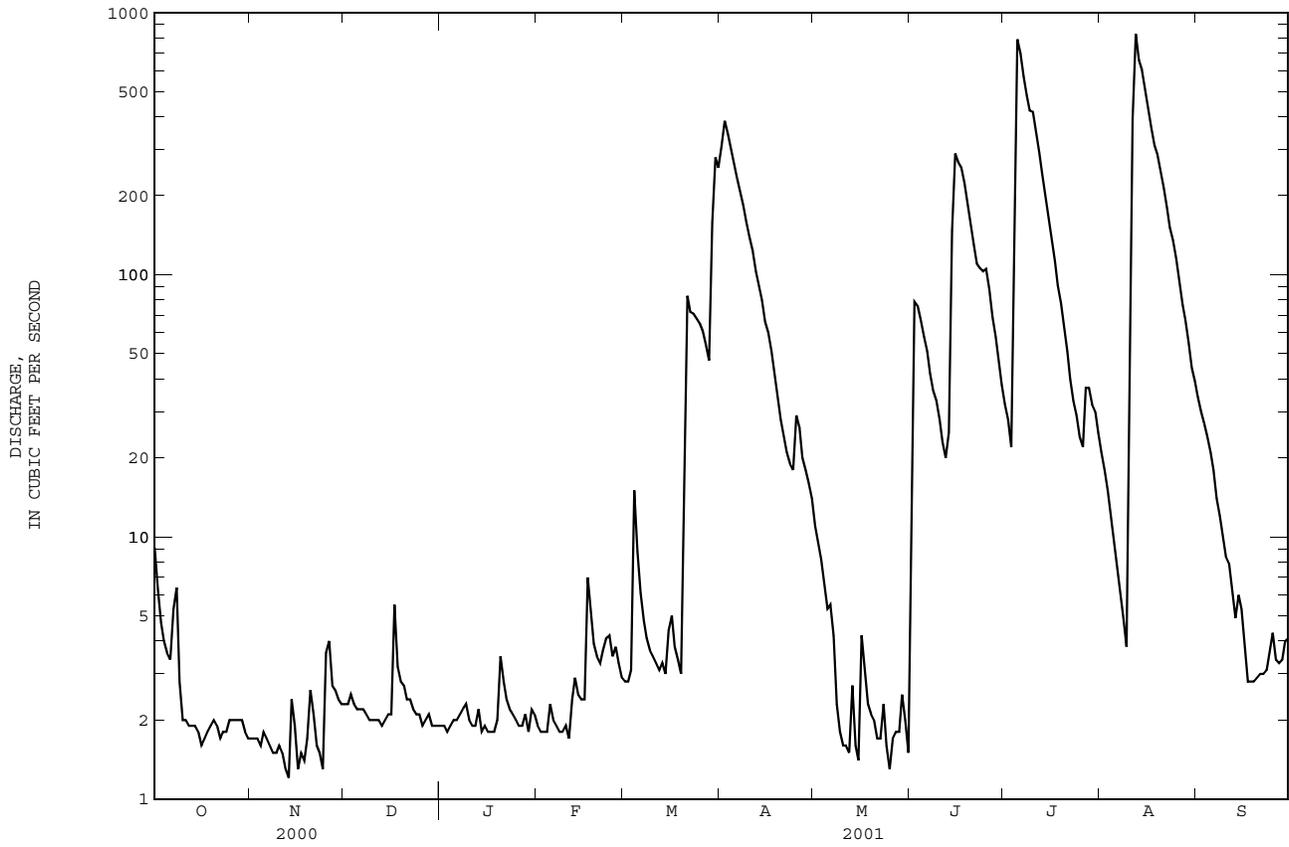
SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1981 - 2001®

ANNUAL TOTAL	14137.27	19985.3	
ANNUAL MEAN	38.6	54.8	50.9
HIGHEST ANNUAL MEAN			126
LOWEST ANNUAL MEAN			2.47
HIGHEST DAILY MEAN	314	Feb 1	828
LOWEST DAILY MEAN	.57	Aug 25	1.2
ANNUAL SEVEN-DAY MINIMUM	.76	Aug 21	1.5
MAXIMUM PEAK FLOW			1410
MAXIMUM PEAK STAGE			9.25
INSTANTANEOUS LOW FLOW			1.2*
10 PERCENT EXCEEDS	147		181
50 PERCENT EXCEEDS	5.4		3.8
90 PERCENT EXCEEDS	1.6		1.8

® Regulated period only (1981-2001).

\* See REMARKS.

02102192 BUCKHORN CREEK NEAR CORINTH, NC--Continued



## CAPE FEAR RIVER BASIN

02102500 CAPE FEAR RIVER AT LILLINGTON, NC

LOCATION.--Lat 35°24'22", long 78°48'48", Harnett County, Hydrologic Unit 03030004, on right bank 60 ft downstream of downstream bridge on U.S. Highway 401, 1,860 ft downstream of Southern Railway bridge, 0.5 mi north of Lillington, 1 mile downstream of Neal Creek, and at mile 178.

DRAINAGE AREA.--3,464 mi<sup>2</sup>.

PERIOD OF RECORD.--December 1923 to current year.

REVISED RECORDS.--WSP 1002: 1930 (M). WSP 1032: 1942 (m). WSP 1303: 1944 (M). WSP 1333: 1945. WSP 1383:

GAGE.--Water-stage recorder. Datum of gage is 104.62 ft above sea level. Dec. 6, 1923, to Oct. 7, 1927, nonrecording gage and Oct. 8, 1927, to Dec. 2, 1975, water-stage recorder at site 60 ft upstream in bridge pier at same datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Some regulation at high flows, December 1972 to August 1981, caused by temporary storage in B. Everett Jordan Lake. Flow regulated since Sept. 1981 by B. Everett Jordan Lake (station 02098197). Diurnal fluctuation and slight regulation at low flow caused by power plants upstream from station. Fluctuation and regulation by Buckhorn Reservoir, 13 mi upstream from station, ended in December 1962. Prior to regulation, maximum discharge: 150,000 ft<sup>3</sup>/s, Sept. 19, 1945, from rating curve extended above 76,000 ft<sup>3</sup>/s; gage height: 33.19 ft, from floodmark; minimum discharge: 11 ft<sup>3</sup>/s, Oct. 14, 15, 1954; gage height: -0.17 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4270	697	837	657	523	2110	10500	825	669	1140	773	1070
2	4150	634	768	698	684	1940	10100	745	8350	990	579	798
3	4150	621	706	705	796	1670	15400	699	4560	698	559	614
4	3160	626	698	650	726	1770	15100	649	5110	720	682	581
5	707	636	692	628	755	4190	16000	619	5340	6250	639	631
6	661	623	596	604	834	4170	15500	662	4940	4120	590	602
7	620	623	603	601	743	4670	14300	574	3660	3120	597	572
8	556	625	590	624	675	3940	11400	542	758	2230	631	547
9	708	636	580	662	715	3560	6980	614	682	1860	582	537
10	755	642	582	645	687	3340	5640	554	620	2040	559	1100
11	718	617	577	601	708	3140	4320	587	630	1630	1410	717
12	620	615	578	650	669	2640	3590	602	598	1340	3170	688
13	634	623	617	617	854	1070	1800	672	676	893	2200	681
14	638	688	629	640	837	1060	1710	594	2520	867	2250	597
15	628	687	647	582	1000	949	1580	570	4190	771	4060	602
16	629	650	667	631	1130	1200	1500	726	2030	688	3400	541
17	609	656	874	635	1390	1410	1230	687	1660	663	2060	484
18	606	644	1180	621	3810	1800	1100	622	1620	672	1180	744
19	630	727	1690	563	4300	1670	901	601	1220	637	1230	656
20	609	833	1150	761	2060	2170	913	674	2390	579	1100	642
21	643	765	875	653	1940	6560	876	665	2400	576	1470	652
22	638	749	765	1110	5040	6810	820	694	1750	584	1190	639
23	618	734	523	1330	4720	7500	672	756	1650	572	975	643
24	624	722	554	1020	3420	6930	763	653	2620	640	780	808
25	592	824	720	807	3350	7840	934	613	2100	688	670	799
26	617	1080	751	632	3300	8370	868	635	1600	718	698	761
27	607	663	778	814	2190	8010	927	615	2360	895	631	723
28	602	822	746	749	2140	7040	1090	637	2250	994	732	793
29	610	1050	722	650	---	3730	1050	821	1930	726	597	705
30	597	886	743	781	---	14600	816	950	1200	763	547	605
31	635	---	688	584	---	14300	---	901	---	703	1050	---
TOTAL	32841	21398	23126	21905	49996	140159	148380	20758	72083	39767	37591	20532
MEAN	1059	713	746	707	1786	4521	4946	670	2403	1283	1213	684
MAX	4270	1080	1690	1330	5040	14600	16000	950	8350	6250	4060	1100
MIN	556	615	523	563	523	949	672	542	598	572	547	484

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2001,\* BY WATER YEAR (WY)

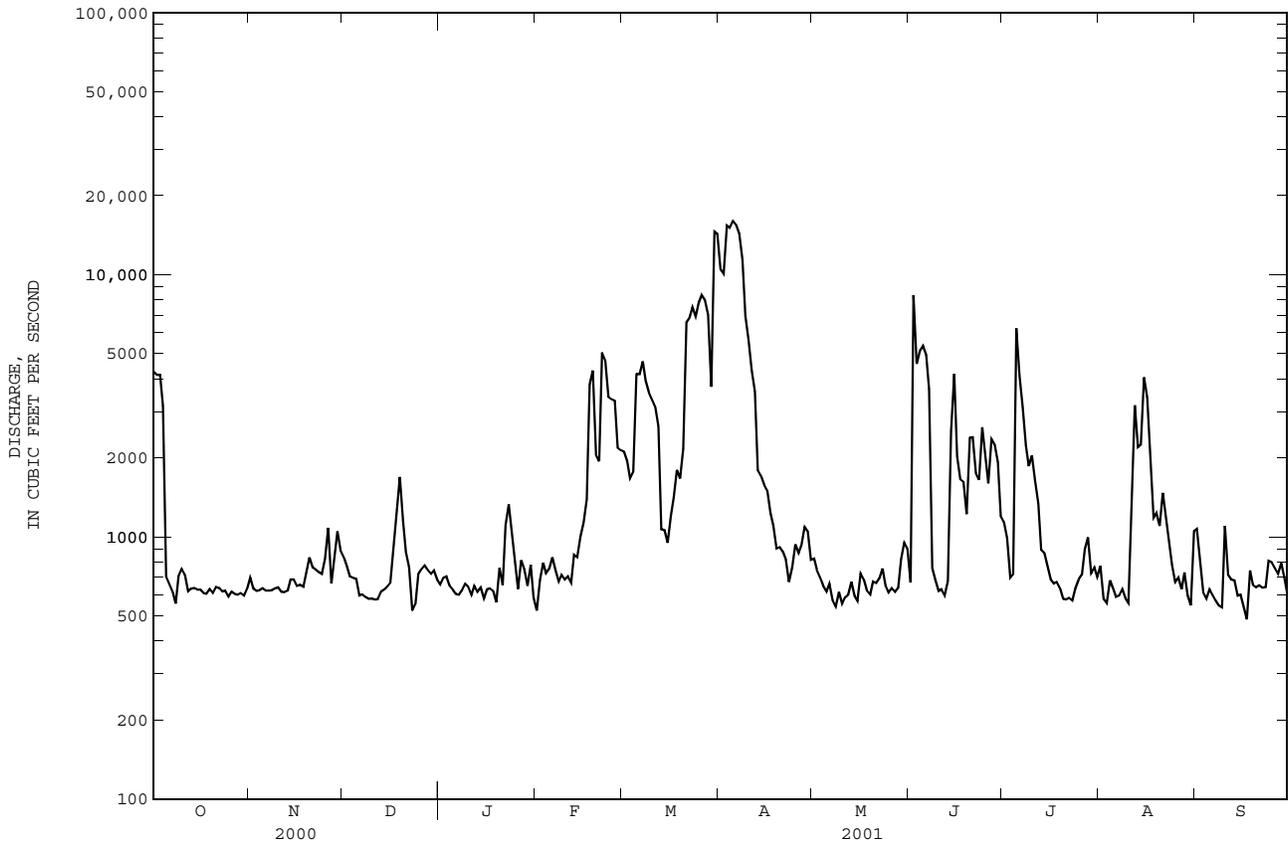
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	1984	1934	2618	5344	6421	7419	4944	2588	2238	1734	1590	1932						
MAX	6442	7919	8595	11750	16440	15710	11670	7784	12510	5694	5448	13920						
(WY)	1990	1986	1984	1998	1998	1993	1993	1989	1982	1995	1985	1996						
MIN	621	522	723	707	1786	1628	969	670	551	604	634	596						
(WY)	1999	1999	1995	2001	2001	1988	1985	2001	1999	1999	1983	1990						

SUMMARY STATISTICS

	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1982 - 2001*	
ANNUAL TOTAL	831496		628536			
ANNUAL MEAN	2272		1722		3380	
HIGHEST ANNUAL MEAN					6167	
LOWEST ANNUAL MEAN					1488	
HIGHEST DAILY MEAN	13800		16000		41400	
LOWEST DAILY MEAN	415		484		210	
ANNUAL SEVEN-DAY MINIMUM	476		583		223	
MAXIMUM PEAK FLOW			19500		51800	
MAXIMUM PEAK STAGE			11.41		18.97	
INSTANTANEOUS LOW FLOW			385		190	
10 PERCENT EXCEEDS	5200		4150		9830	
50 PERCENT EXCEEDS	1050		743		1240	
90 PERCENT EXCEEDS	597		597		605	

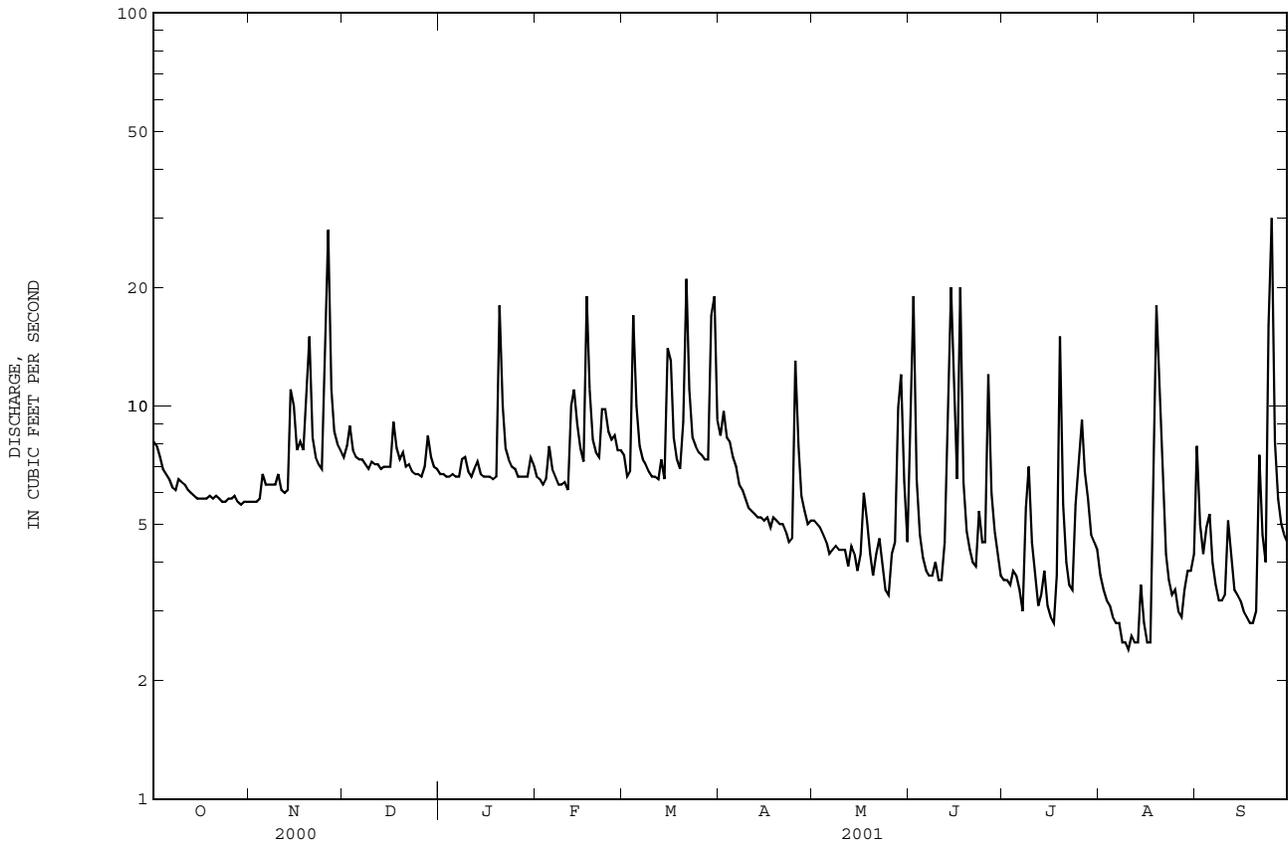
\* See REMARKS.

02102500 CAPE FEAR RIVER AT LILLINGTON, NC--Continued





02102908 FLAT CREEK NEAR INVERNESS, NC--Continued



PRECIPITATION RECORDS

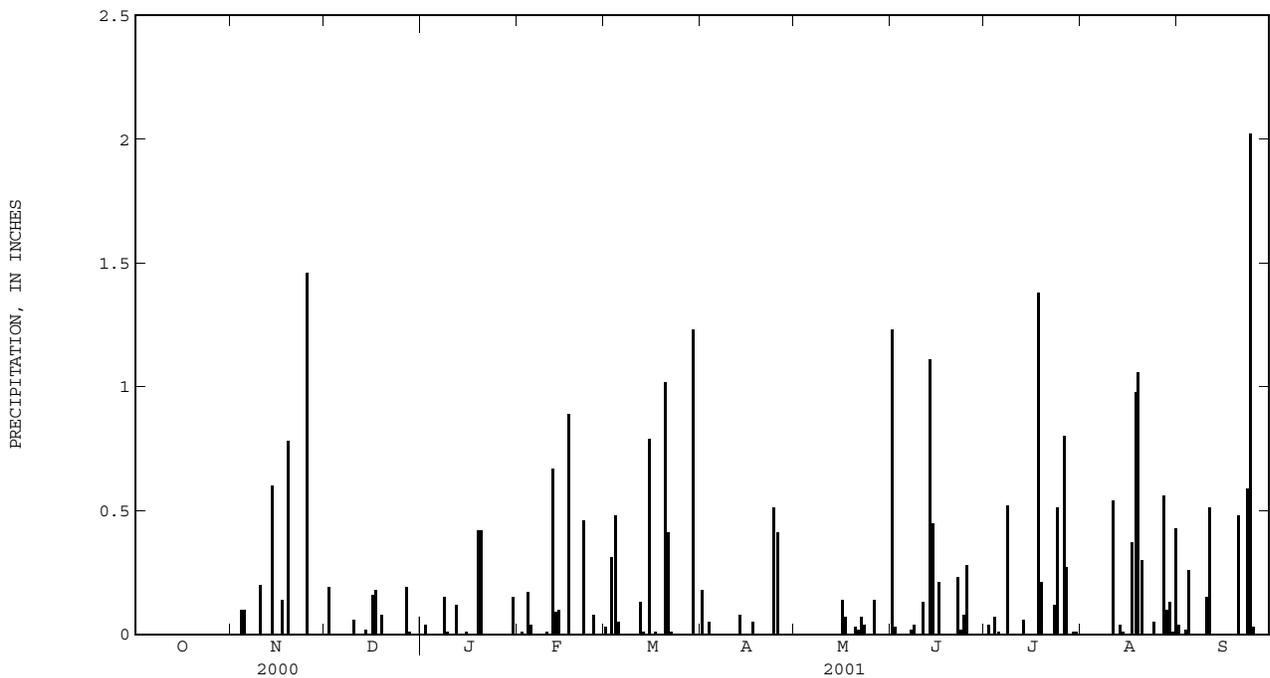
PERIOD OF RECORD.--April 2000 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and data collection platform.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.03	.18	.00	1.23	.00	.00	.04
2	.00	.00	.19	.04	.01	.00	.00	.00	.03	.04	.00	.00
3	.00	.00	.00	.00	.00	.31	.05	.00	.00	.00	.00	.02
4	.00	.10	.00	.00	.17	.48	.00	.00	.00	.07	.00	.26
5	.00	.10	.00	.00	.04	.05	.00	.00	.00	.01	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00
8	.00	.00	.00	.15	.00	.00	.00	.00	.04	.52	.00	.00
9	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.20	.06	.00	.01	.00	.00	.00	.00	.00	.00	.15
11	.00	.00	.00	.00	.00	.00	.00	.00	.13	.00	.54	.51
12	.00	.00	.00	.12	.67	.13	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.09	.01	.08	.00	1.11	.06	.04	.00
14	.00	.60	.02	.00	.10	.00	.00	.00	.45	.00	.01	.00
15	.00	.00	.00	.01	.00	.79	.00	.00	.00	.00	.00	.00
16	.00	.00	.16	.00	.00	.00	.00	.14	.21	.00	.00	.00
17	.00	.14	.18	.00	.89	.01	.05	.07	.00	.00	.37	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.38	.98	.00
19	.00	.78	.08	.42	.00	.00	.00	.00	.00	.21	1.06	.00
20	.00	.00	.00	.42	.00	1.02	.00	.03	.00	.00	.30	.48
21	.00	.00	.00	.00	.00	.41	.00	.02	.00	.00	.00	.00
22	.00	.00	.00	.00	.46	.01	.00	.07	.23	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.04	.02	.12	.00	.59
24	.00	.00	.00	.00	.00	.00	.51	.00	.08	.51	.05	2.02
25	.00	1.46	.00	.00	.08	.00	.41	.00	.28	.00	.00	.03
26	.00	.00	.00	.00	.00	.00	.00	.14	.00	.80	.00	.00
27	.00	.00	.19	.00	.00	.00	.00	.00	.00	.27	.56	.00
28	.00	.00	.01	.00	.00	.00	.00	---	.00	.00	.10	.00
29	.00	.00	.00	.00	---	1.23	.00	---	.00	.01	.13	.00
30	.00	.00	.00	.15	---	.00	.00	.00	.00	.01	.01	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.43	---
TOTAL	0.00	3.38	0.89	1.32	2.52	4.48	1.28	---	3.83	4.01	4.58	4.10





Gaging station at Long Creek near Rhyne, North Carolina.

## CAPE FEAR RIVER BASIN

02104000 CAPE FEAR RIVER AT FAYETTEVILLE, NC

LOCATION.--Lat 35°02'49", long 78°51'36", Cumberland County, Hydrologic Unit 03030004, at State Highway 24 bridge at Fayetteville, 700 ft upstream of Atlantic Coast Railroad bridge, 0.3 mi downstream of Cross Creek.

DRAINAGE AREA.--4,395 mi<sup>2</sup>.

PERIOD OF RECORD.-- Discharge records January 1889 to September 1917, and October 1928 to September 1940. October 1986 to current year.

GAGE.--Water-stage recorder. Datum of gage is 20.52 ft above sea level. Satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum, 48.3 ft, Sept. 24, 1945.

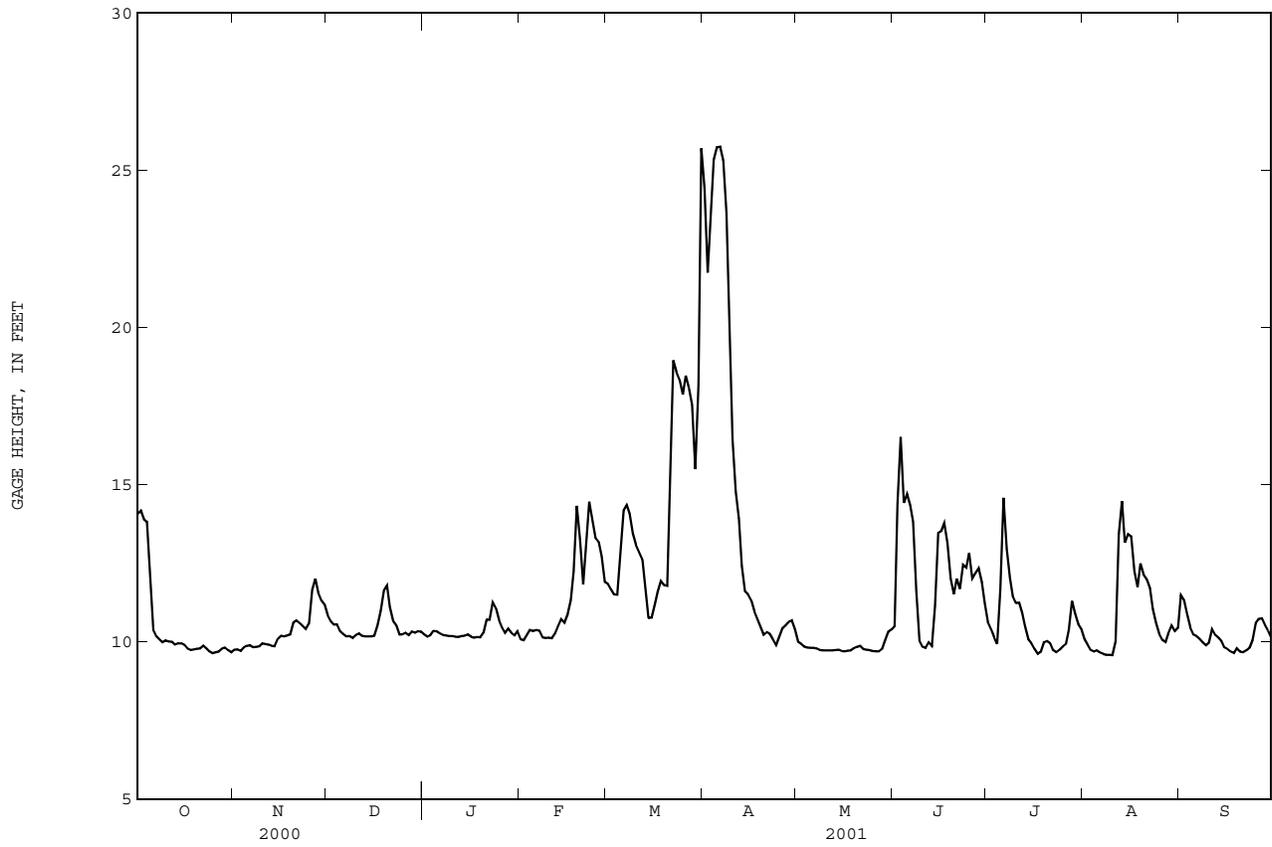
EXTREMES FOR PERIOD OF RECORD.--Maximum, 46.17 ft, Sept. 7, 1996; minimum not determined

EXTREMES FOR CURRENT YEAR.--Maximum, 26.06 ft, Mar. 31; minimum, 9.57 ft, Aug. 9, 10, 11.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.06	9.74	10.83	10.23	10.08	11.84	24.42	9.99	10.49	10.62	10.09	11.48
2	14.16	9.75	10.64	10.16	10.05	11.65	21.73	9.93	14.38	10.40	9.91	11.32
3	13.88	9.70	10.54	10.20	10.22	11.50	23.62	9.84	16.50	10.13	9.73	10.85
4	13.81	9.81	10.55	10.34	10.37	11.49	25.32	9.81	14.41	9.92	9.68	10.44
5	11.89	9.86	10.33	10.33	10.34	12.84	25.72	9.80	14.69	11.66	9.72	10.22
6	10.38	9.88	10.24	10.26	10.37	14.16	25.74	9.80	14.34	14.57	9.65	10.18
7	10.17	9.82	10.17	10.21	10.35	14.34	25.29	9.78	13.82	12.96	9.61	10.09
8	10.07	9.83	10.18	10.20	10.14	14.06	23.61	9.73	11.62	12.04	9.58	9.97
9	9.97	9.85	10.12	10.18	10.12	13.43	19.91	9.72	10.04	11.45	9.58	9.88
10	10.04	9.94	10.21	10.18	10.13	13.07	16.43	9.72	9.83	11.23	9.57	9.96
11	10.00	9.92	10.26	10.16	10.11	12.85	14.78	9.72	9.79	11.24	10.00	10.40
12	9.99	9.90	10.19	10.15	10.26	12.62	13.91	9.72	9.97	10.90	13.41	10.22
13	9.90	9.86	10.17	10.18	10.48	11.71	12.42	9.73	9.85	10.47	14.47	10.13
14	9.94	9.85	10.17	10.19	10.71	10.75	11.60	9.74	11.15	10.08	13.14	10.02
15	9.94	10.09	10.17	10.23	10.60	10.76	11.50	9.70	13.45	9.94	13.41	9.81
16	9.89	10.19	10.19	10.16	10.86	11.18	11.31	9.69	13.51	9.76	13.34	9.76
17	9.77	10.17	10.51	10.13	11.31	11.58	10.96	9.71	13.77	9.61	12.24	9.68
18	9.73	10.20	10.97	10.15	12.23	11.93	10.73	9.72	13.13	9.67	11.74	9.63
19	9.75	10.23	11.61	10.14	14.32	11.80	10.48	9.79	12.01	9.97	12.48	9.78
20	9.77	10.60	11.78	10.28	13.25	11.78	10.22	9.83	11.51	10.02	12.13	9.68
21	9.78	10.67	11.09	10.70	11.82	15.56	10.30	9.86	12.00	9.94	11.98	9.66
22	9.87	10.59	10.66	10.69	13.00	18.94	10.25	9.76	11.67	9.73	11.69	9.72
23	9.79	10.50	10.52	11.26	14.45	18.57	10.08	9.74	12.44	9.66	11.03	9.81
24	9.69	10.40	10.23	11.07	13.84	18.32	9.89	9.73	12.35	9.74	10.59	10.05
25	9.63	10.57	10.23	10.68	13.28	17.86	10.16	9.70	12.82	9.84	10.25	10.58
26	9.66	11.64	10.28	10.46	13.16	18.45	10.43	9.69	12.00	9.92	10.06	10.72
27	9.68	12.00	10.21	10.28	12.72	18.07	10.51	9.69	12.17	10.37	9.98	10.74
28	9.77	11.56	10.32	10.41	11.90	17.53	10.62	9.77	12.32	11.29	10.27	10.52
29	9.81	11.31	10.28	10.28	---	15.48	10.67	10.04	11.89	10.89	10.51	10.35
30	9.73	11.18	10.33	10.20	---	18.14	10.39	10.31	11.23	10.55	10.34	10.13
31	9.66	---	10.32	10.33	---	25.69	---	10.38	---	10.41	10.44	---
MEAN	10.46	10.32	10.46	10.34	11.45	14.45	15.10	9.81	12.30	10.61	10.99	10.19
MAX	14.16	12.00	11.78	11.26	14.45	25.69	25.74	10.38	16.50	14.57	14.47	11.48
MIN	9.63	9.70	10.12	10.13	10.05	10.75	9.89	9.69	9.79	9.61	9.57	9.63

02104000 CAPE FEAR RIVER AT FAYETTEVILLE, NC--Continued



CAPE FEAR RIVER BASIN

02104220 ROCKFISH CREEK AT RAEFORD, NC

LOCATION.--Lat 34°59'55", long 79°12'55", Hoke County, Hydrologic Unit 03030004, at upstream side of bridge on U.S. Highway 401, 1.0 mi downstream of Nicholsons Creek, and 1.0 mile north of Raeford.

DRAINAGE AREA.--93.1 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 178 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	69	108	86	86	73	142	66	77	47	47	78
2	84	69	102	86	82	73	116	65	154	46	44	69
3	80	70	106	84	81	75	109	62	143	48	42	59
4	78	70	102	83	80	117	104	61	85	46	40	57
5	77	76	95	84	91	137	99	59	64	50	40	64
6	74	81	92	85	90	116	93	57	56	48	38	57
7	72	77	90	85	84	96	88	56	52	44	38	49
8	70	78	89	87	81	88	84	55	57	48	38	46
9	70	78	87	95	79	85	82	55	57	90	38	44
10	70	79	87	90	80	84	78	55	55	72	37	50
11	71	78	89	85	79	81	74	55	50	58	36	52
12	71	75	89	86	95	79	73	55	54	50	36	60
13	71	75	86	93	132	87	73	54	61	45	36	48
14	72	92	84	89	119	86	71	53	133	47	45	44
15	70	125	87	86	104	108	70	51	151	44	46	43
16	68	110	87	85	95	154	70	52	112	42	42	41
17	67	98	105	83	122	140	70	93	154	41	39	40
18	68	100	117	83	147	106	70	96	194	40	44	40
19	70	102	105	81	131	91	70	73	103	48	113	39
20	69	145	101	115	105	90	69	61	70	53	113	39
21	69	140	96	140	97	144	69	63	61	46	80	51
22	70	110	92	122	102	158	68	61	59	42	66	68
23	69	96	89	101	118	145	66	59	65	41	55	52
24	68	90	86	93	108	112	65	57	72	49	48	68
25	69	112	86	89	100	97	101	52	93	64	49	150
26	70	181	84	85	99	90	118	54	76	64	46	174
27	70	200	85	83	91	86	92	56	66	80	43	164
28	72	181	100	82	77	84	78	70	62	65	43	83
29	70	138	101	81	---	108	72	139	56	55	42	63
30	69	104	93	85	---	158	68	124	51	52	48	56
31	69	---	88	93	---	159	---	79	---	50	56	---
TOTAL	2220	3099	2908	2805	2755	3307	2502	2048	2543	1615	1528	1948
MEAN	71.6	103	93.8	90.5	98.4	107	83.4	66.1	84.8	52.1	49.3	64.9
MAX	84	200	117	140	147	159	142	139	194	90	113	174
MIN	67	69	84	81	77	73	65	51	50	40	36	39
CFSM	.77	1.11	1.01	.97	1.06	1.15	.90	.71	.91	.56	.53	.70
IN.	.89	1.24	1.16	1.12	1.10	1.32	1.00	.82	1.02	.65	.61	.78

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2001, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	119	120	117	146	147	157	139	107	93.4	93.9	96.1	110		
MAX	207	169	186	209	291	289	305	182	175	224	176	247		
(WY)	2000	1990	1990	1998	1998	1998	1998	1989	1989	1989	1989	1996		
MIN	71.6	87.7	84.0	90.5	94.7	97.0	83.4	66.1	58.5	52.1	49.3	59.9		
(WY)	2001	1991	1989	2001	1992	1992	2001	2001	1999	2001	2001	1992		

SUMMARY STATISTICS

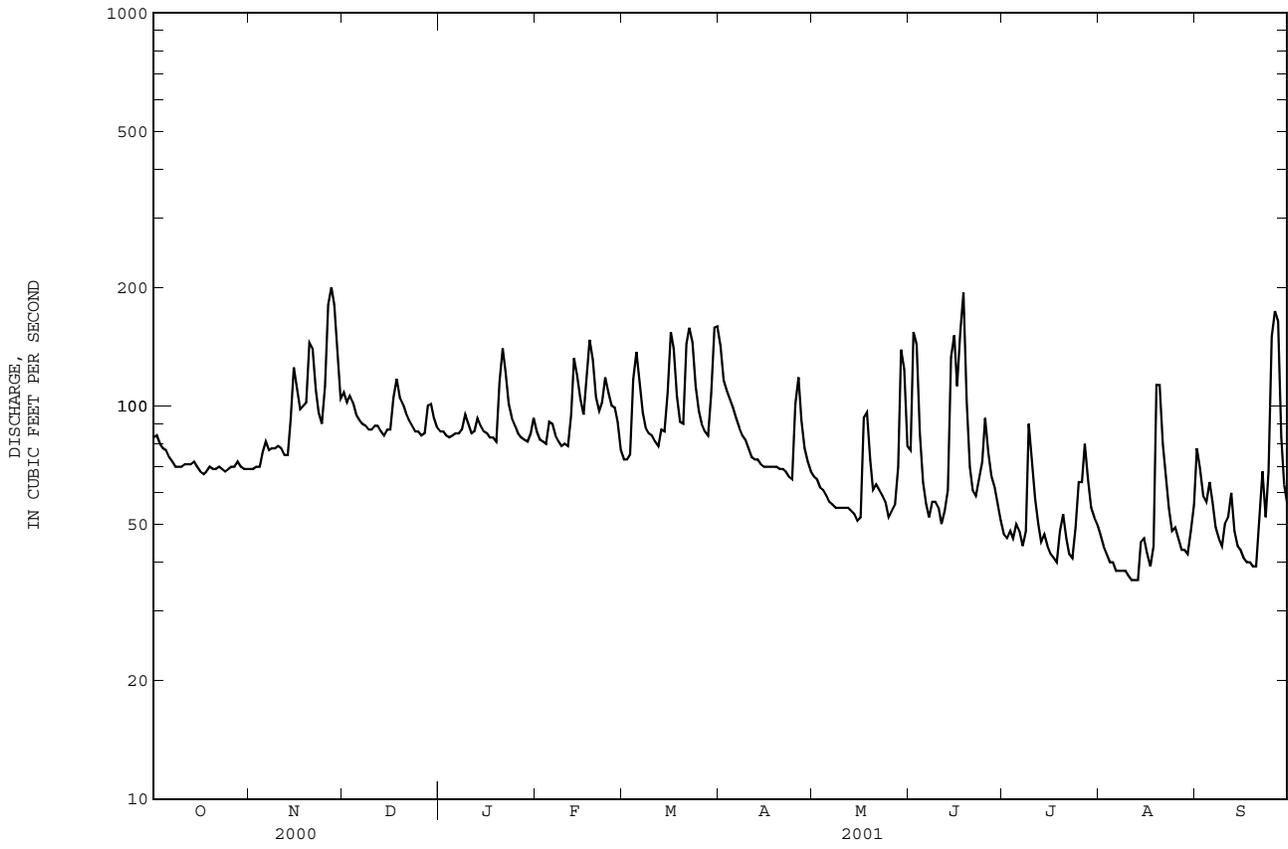
FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1988 - 2001

ANNUAL TOTAL	44742	29278		
ANNUAL MEAN	122	80.2	121	1998
HIGHEST ANNUAL MEAN			167	2001
LOWEST ANNUAL MEAN			80.2	
HIGHEST DAILY MEAN	460	Sep 24	200	Nov 27
LOWEST DAILY MEAN	58	Jun 12	36	Aug 11
ANNUAL SEVEN-DAY MINIMUM	63	Jun 8	37	Aug 7
MAXIMUM PEAK FLOW			204	Jun 18
MAXIMUM PEAK STAGE			5.76	Jun 18
INSTANTANEOUS LOW FLOW			36	Aug 11
ANNUAL RUNOFF (CFSM)	1.31	.86		1.30
ANNUAL RUNOFF (INCHES)	17.88	11.70		17.60
10 PERCENT EXCEEDS	196	117		199
50 PERCENT EXCEEDS	99	77		99
90 PERCENT EXCEEDS	68	46		58

02104220 ROCKFISH CREEK AT RAEFORD, NC--Continued



## CAPE FEAR RIVER BASIN

02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC

LOCATION.--Lat 34°50'05", long 78°49'27", Bladen County, Hydrologic Unit 03030005, on right bank 100 ft upstream from William O. Huske Lock, 1 mi downstream of Cumberland-Bladen County line, 7 mi north of Tar Heel, 9 mi upstream from Phillips Creek, and at river mile 123.

DRAINAGE AREA.--4,852 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1937 to current year. Prior to October 1964, published as "Cape Fear River at Lock 3 near Tarheel".

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder and concrete lock and dam control. Datum of gage is 28.97 ft above sea level. Prior to Jan. 8, 1939, nonrecording gage on upper lock wall 100 ft downstream at same datum. Auxiliary water-stage recorder 1.8 mi downstream of base gage; prior to Jan. 14, 1943, auxiliary nonrecording gage 400 ft downstream on lower end of lock wall; Jan. 14, 1943, to Sept. 30, 1953, auxiliary water-stage recorder at site 600 ft downstream. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Slight regulation at high flow, December 1972 to August 1981, caused by temporary storage in B. Everett Jordan Lake. Flow regulated since September 1981 by B. Everett Jordan Lake (station 02098197). Slight diurnal fluctuation and some regulation for short periods at low flow caused by power plants above station. Prior to regulation, maximum discharge not determined; minimum discharge, 170 ft<sup>3</sup>/s, Sep. 20, 1950. Minimum discharge during regulation from unknown source.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5470	966	2100	1530	1430	3040	17400	1290	1680	1870	1270	2470
2	5520	978	1890	1470	1370	2880	13100	1210	5460	1670	1150	2450
3	5110	931	1820	1470	1550	2770	16300	1120	8820	1370	986	1980
4	5080	1060	1780	1590	1680	2790	19000	1030	6010	1170	927	1580
5	3300	1110	1520	1600	1650	4010	18500	1130	6230	2440	969	1380
6	1620	e1130	1440	1560	1630	5780	18400	1140	5900	6400	921	1350
7	1400	e1070	1390	1520	1640	5910	17700	1070	5280	4400	845	1260
8	1300	1080	1400	1510	1460	5630	15100	805	3180	3290	773	1160
9	1200	1080	1390	1490	1420	4870	10300	817	1420	2640	784	1080
10	1210	1190	1510	1460	1480	4470	7620	864	1200	2340	749	1090
11	1160	1200	1510	1450	1450	4200	6240	816	1140	2390	1070	1520
12	1190	1180	1430	1460	1600	3900	5130	936	1330	2070	4350	1390
13	1120	1140	1420	1530	1810	3040	3750	1070	1190	1680	6140	1290
14	1160	1050	1430	1510	2000	2040	2800	1020	2370	1320	4530	1210
15	1180	1220	1460	1540	1880	1980	2670	814	4900	1180	4670	1040
16	1140	1390	1480	1470	2120	2420	2460	814	5140	1010	4740	982
17	1000	1390	1690	1430	2620	2920	2140	954	5450	863	3540	898
18	953	1440	2180	1450	3480	3250	1910	1010	4910	894	2760	835
19	978	1450	2760	1440	6040	3120	1710	1140	3540	1200	3770	971
20	988	1690	3060	1560	4950	2940	1460	1200	2750	1270	3380	895
21	1000	1860	2320	1970	3200	7140	1590	1190	3260	1200	3150	883
22	1110	1820	1910	2000	4160	11400	1570	1030	2930	1000	2860	942
23	1050	1760	1800	2470	6130	10700	1400	1010	3730	920	2170	1030
24	892	1690	1530	2330	5550	10400	1130	1020	3590	973	1740	1210
25	768	1750	1530	2000	4770	9660	1340	901	4240	1050	1430	1710
26	887	2860	1530	1780	4600	10200	1640	902	3380	1110	1240	1840
27	914	3280	1450	1610	4130	10000	1710	919	3290	1400	1170	1880
28	1010	2800	1590	1720	3160	9340	1900	1010	3630	2370	1360	1670
29	1060	2450	1580	1620	---	7340	1960	1300	3200	2060	1620	1520
30	960	2400	1620	1480	---	8930	1730	1530	2510	1700	1480	1330
31	895	---	1620	1600	---	21900	---	1670	---	1590	1520	---
TOTAL	52625	46415	53140	50620	78960	188970	199660	32732	111660	56840	68064	40846
MEAN	1698	1547	1714	1633	2820	6096	6655	1056	3722	1834	2196	1362
MAX	5520	3280	3060	2470	6130	21900	19000	1670	8820	6400	6140	2470
MIN	768	931	1390	1430	1370	1980	1130	805	1140	863	749	835

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2001,\* BY WATER YEAR (WY)

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	3083	3022	4004	7616	8829	10050	6758	3688	3277	2852	2554	3060								
MAX	10230	10190	11360	17240	24770	21520	15410	11770	14200	9262	7358	18950								
(WY)	2000	1996	1984	1998	1998	1998	1993	1989	1982	1995	1984	1996								
MIN	979	1146	1547	1633	2799	3078	1508	1056	914	958	943	935								
(WY)	1987	1999	1999	2001	1986	1988	1986	2001	1999	1986	1999	1990								

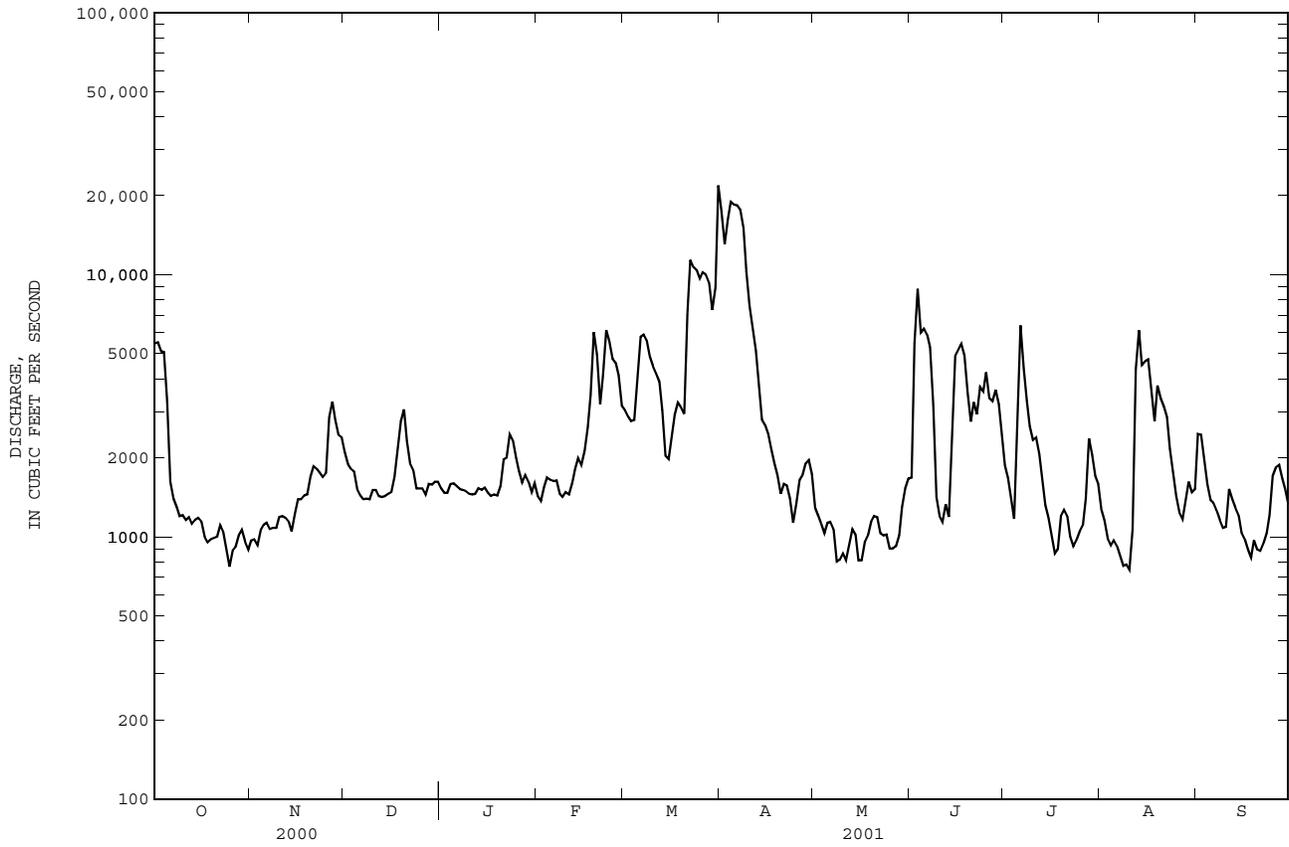
SUMMARY STATISTICS

	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1982 - 2001*	
ANNUAL TOTAL	1331541		980532			
ANNUAL MEAN	3638		2686		4880	
HIGHEST ANNUAL MEAN					8328	
LOWEST ANNUAL MEAN					2426	
HIGHEST DAILY MEAN	20700	Feb 1	21900	Mar 31	60000	Sep 8 1996
LOWEST DAILY MEAN	521	May 17	749	Aug 10	154	Aug 13 1999
ANNUAL SEVEN-DAY MINIMUM	702	May 15	853	Aug 4	429	Oct 4 1981
MAXIMUM PEAK FLOW			24300		Mar 31	
MAXIMUM PEAK STAGE			11.20		Apr 6	
INSTANTANEOUS LOW FLOW			709		26.75	
10 PERCENT EXCEEDS	7950		5460		13000	
50 PERCENT EXCEEDS	2060		1580		2360	
90 PERCENT EXCEEDS	1000		972		1000	

e Estimated.

\* Regulated period only (1982-2001). See REMARKS.

02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC--Continued



## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1947, 1955, 2000 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 2000 to current year.

pH: June 2000 to current year.

WATER TEMPERATURE: June 2000 to current year.

DISSOLVED OXYGEN: June 2000 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION: June 2000 to current year

TURBIDITY: October 2000 to September 2001.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry from June 2000 to current year.

REMARKS.--Station operated in cooperation with the Middle Cape Fear River Association. The constituents were monitored at approximately 10 ft above the streambed. Beginning October 1, 2000 dissolved oxygen, percent saturation is computed using a barometric pressure of 760mm Hg. Daily records of water temperature for water years 1947 and 1955 are available in the files of the District Office in Raleigh, NC.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	192, September 9, 2000	56, June 19, 2001
pH, standard units	8.9, January 30, 31, 2001	6.0, June 19, 2001
WATER TEMPERATURE, °C	31.0, August 12, 13, 2001	2.6, January 5, 6, 2001
DISSOLVED OXYGEN, mg/L	13.4, January 30, 2001	2.9, August 21, 2000
DISSOLVED OXYGEN, PERCENT SATURATION,%	130, July 16, 2000	36, August 21, 2000
TURBIDITY, NTU	350, March 31, 2001	3, November 21, 2000, January 30, 31, 2001

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	180, August 12	56, June 19
pH, standard units	8.9, January 30, 31	6.0, June 19
WATER TEMPERATURE, °C	31.0, August 12, 13	2.6, January 5, 6
DISSOLVED OXYGEN, mg/L	13.4, January 30	3.2, August 10
DISSOLVED OXYGEN, PERCENT SATURATION,%	112, August 12	41, August 10
TURBIDITY, NTU	350, March 31	3, November 21, January 30, 31

CAPE FEAR RIVER BASIN

02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	94	87	89	130	125	127	100	95	96	152	142	147
2	100	94	98	131	129	130	115	100	107	152	148	150
3	108	98	103	131	129	130	134	114	124	148	139	143
4	---	---	---	132	129	130	143	134	139	139	136	137
5	---	---	---	133	130	131	137	132	135	149	138	143
6	119	117	119	134	129	131	145	131	138	150	145	148
7	118	116	117	138	131	135	154	145	150	145	141	144
8	117	115	116	139	135	137	156	154	155	141	125	130
9	117	113	115	138	132	134	158	156	157	130	125	127
10	114	107	111	137	132	135	166	158	161	---	---	---
11	110	106	108	140	137	138	167	163	165	138	135	136
12	108	106	107	139	135	137	165	160	162	138	135	136
13	108	106	107	141	135	137	165	163	164	141	138	140
14	107	106	107	142	138	140	166	162	163	143	140	141
15	114	107	111	141	138	139	166	148	158	144	140	142
16	117	113	115	146	138	144	149	144	146	140	136	138
17	117	115	116	146	129	136	147	144	146	145	139	142
18	117	115	116	131	127	128	153	145	150	146	143	145
19	119	116	117	142	131	136	160	153	157	146	145	145
20	119	117	118	142	130	135	160	148	156	146	143	144
21	117	116	117	130	120	127	148	139	142	150	144	146
22	118	116	116	120	117	118	170	145	159	148	136	143
23	122	118	119	125	119	123	171	167	170	141	136	137
24	128	118	124	130	125	127	167	162	164	144	134	141
25	127	124	126	129	120	126	167	164	165	134	121	124
26	126	124	125	121	115	117	167	160	162	---	---	---
27	125	124	125	121	109	113	162	155	160	---	---	---
28	125	124	124	123	113	120	155	133	144	---	---	---
29	126	125	125	121	114	118	136	131	133	---	---	---
30	127	125	126	114	97	104	140	136	139	---	---	---
31	129	125	127	---	---	---	142	136	138	132	127	128
MONTH	---	---	---	146	97	129	171	95	149	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	133	126	129	128	126	127	74	66	69	100	98	99
2	135	133	133	128	125	126	78	66	73	106	100	102
3	135	129	132	129	127	128	72	64	68	116	106	112
4	140	131	135	127	124	126	80	72	77	120	115	118
5	140	133	137	124	117	120	88	79	83	123	120	122
6	133	129	131	118	112	115	104	88	97	122	120	121
7	135	132	134	120	110	116	114	104	106	124	120	123
8	141	133	137	126	103	113	120	114	118	128	121	123
9	142	140	141	126	122	124	122	120	121	130	122	126
10	140	137	139	129	124	126	122	116	120	130	123	128
11	145	139	141	138	129	134	118	116	117	129	122	126
12	145	136	140	142	138	140	119	118	118	124	120	121
13	138	129	133	142	138	140	123	119	122	128	124	126
14	129	112	123	142	139	141	124	121	122	131	126	130
15	118	111	114	139	133	136	124	118	121	138	130	134
16	124	118	121	134	124	131	118	114	117	141	138	139
17	123	113	118	124	109	114	115	109	113	142	138	140
18	114	110	112	109	97	103	109	105	107	147	140	142
19	124	111	118	100	92	96	109	104	106	153	147	149
20	139	124	134	101	92	96	110	108	110	154	148	151
21	138	122	132	103	86	97	110	108	109	149	143	145
22	126	116	119	94	81	88	113	110	111	144	141	143
23	127	118	125	97	69	84	117	113	115	146	140	142
24	123	115	121	100	69	82	118	115	116	146	144	146
25	131	121	127	101	92	95	118	114	116	144	139	141
26	131	129	130	104	95	100	118	113	116	147	142	144
27	132	128	130	120	104	114	114	106	109	151	145	148
28	131	126	129	132	120	128	109	105	107	149	146	148
29	---	---	---	135	127	132	110	104	108	150	145	148
30	---	---	---	127	115	120	104	100	103	151	145	149
31	---	---	---	115	64	83	---	---	---	150	133	141
MONTH	145	110	129	142	64	115	124	64	106	154	98	133

## CAPE FEAR RIVER BASIN

02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN									
1	142	133	138	117	102	110	111	104	108	127	105	117
2	142	105	131	126	117	123	110	106	108	105	87	92
3	169	114	149	128	126	127	106	104	105	94	86	88
4	128	79	98	127	120	123	117	105	111	100	94	98
5	127	78	95	122	119	120	119	117	118	100	97	99
6	156	117	137	134	116	125	122	117	119	99	96	97
7	168	156	164	130	82	104	131	121	126	99	94	97
8	166	159	161	82	67	72	137	130	134	101	97	99
9	160	159	160	81	67	72	143	137	140	101	99	100
10	160	157	158	89	81	87	153	143	148	106	99	103
11	159	157	158	113	89	101	161	151	156	115	105	110
12	162	157	160	117	113	115	180	161	172	119	115	117
13	158	148	156	125	117	121	178	69	110	119	116	118
14	148	117	128	129	124	127	85	71	81	124	116	119
15	124	104	116	130	128	129	91	81	84	132	124	129
16	127	114	122	133	129	130	94	84	88	135	131	133
17	124	73	97	136	130	134	128	94	114	132	129	130
18	73	59	67	138	135	136	146	128	140	132	129	131
19	60	56	57	138	135	137	147	117	138	133	129	131
20	68	60	63	139	136	137	117	87	108	139	133	138
21	80	68	74	139	118	135	89	83	86	145	139	142
22	100	80	87	118	102	106	89	87	88	151	144	149
23	116	100	111	114	103	109	88	82	85	152	150	151
24	115	102	109	131	113	121	91	81	87	154	151	153
25	107	76	96	136	131	133	101	91	97	156	152	154
26	99	71	85	136	124	131	109	101	105	159	147	155
27	105	99	102	126	121	123	115	109	112	147	135	138
28	105	90	96	143	124	133	127	115	120	142	137	140
29	90	80	83	144	129	139	131	124	128	142	131	138
30	102	86	94	129	114	125	132	129	131	131	118	124
31	---	---	---	114	104	106	129	124	126	---	---	---
MONTH	169	56	115	144	67	119	180	69	115	159	86	123

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN									
1	6.9	6.8	6.9	7.2	7.2	7.2	6.9	6.8	6.8	7.1	7.0	7.1
2	7.0	6.9	7.0	7.2	7.0	7.1	6.9	6.8	6.9	7.1	7.0	7.0
3	7.1	7.0	7.0	7.1	7.0	7.1	7.1	6.9	7.0	7.0	6.9	7.0
4	---	---	---	7.1	7.1	7.1	7.1	7.1	7.1	6.9	6.9	6.9
5	7.2	7.2	7.2	7.1	7.1	7.1	7.1	7.1	7.1	7.0	6.9	7.0
6	7.2	7.2	7.2	7.1	7.1	7.1	7.1	7.1	7.1	7.0	7.0	7.0
7	7.2	7.1	7.2	7.2	7.1	7.1	7.2	7.1	7.2	7.0	6.9	7.0
8	7.2	7.0	7.1	7.2	7.1	7.1	7.2	7.2	7.2	6.9	6.8	6.8
9	7.1	7.0	7.0	7.2	7.0	7.0	7.2	7.2	7.2	6.8	6.8	6.8
10	7.0	7.0	7.0	7.1	7.0	7.1	7.2	7.2	7.2	---	---	---
11	7.0	7.0	7.0	7.1	7.1	7.1	7.2	7.2	7.2	7.1	7.1	7.1
12	7.1	7.0	7.1	7.1	7.0	7.1	7.2	7.2	7.2	7.2	7.1	7.1
13	7.1	7.0	7.1	7.1	7.1	7.1	7.2	7.2	7.2	7.2	7.1	7.1
14	7.1	7.0	7.1	7.1	7.0	7.0	7.2	7.2	7.2	7.2	7.1	7.1
15	7.1	7.1	7.1	7.0	7.0	7.0	7.2	7.2	7.2	7.2	7.2	7.2
16	7.2	7.1	7.1	7.1	7.0	7.0	7.2	7.2	7.2	7.3	7.2	7.2
17	7.1	7.0	7.1	7.1	7.0	7.0	7.2	7.1	7.2	7.4	7.3	7.3
18	7.1	7.0	7.1	7.1	7.0	7.0	7.2	7.2	7.2	7.4	7.3	7.4
19	7.1	7.0	7.1	7.1	7.0	7.0	7.2	7.1	7.2	7.6	7.3	7.4
20	7.1	7.1	7.1	7.0	7.0	7.0	7.2	7.1	7.2	8.1	7.4	7.5
21	7.1	7.1	7.1	7.1	7.0	7.0	7.1	7.1	7.1	7.6	7.4	7.5
22	7.2	7.1	7.1	7.0	7.0	7.0	7.2	7.0	7.1	7.5	7.4	7.4
23	7.2	7.1	7.2	7.1	7.0	7.1	7.1	7.1	7.1	7.6	7.4	7.5
24	7.2	7.1	7.2	7.1	7.1	7.1	7.1	7.1	7.1	7.5	7.3	7.4
25	7.2	7.0	7.1	7.1	7.0	7.1	7.1	7.1	7.1	7.3	7.1	7.1
26	7.2	7.1	7.1	7.1	7.0	7.0	7.1	7.1	7.1	---	---	---
27	7.2	7.1	7.1	7.0	6.9	7.0	7.1	7.0	7.1	---	---	---
28	7.2	7.1	7.2	7.0	6.9	7.0	7.0	7.0	7.0	---	---	---
29	7.2	7.1	7.2	7.0	6.9	6.9	7.0	7.0	7.0	---	---	---
30	7.2	7.1	7.2	6.9	6.8	6.9	7.0	7.0	7.0	---	---	---
31	7.2	7.1	7.2	---	---	---	7.0	7.0	7.0	8.9	8.6	8.7
MONTH	---	---	---	7.2	6.8	7.0	7.2	6.8	7.1	---	---	---

CAPE FEAR RIVER BASIN

02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	8.8	8.5	8.6	7.1	7.0	7.1	6.5	6.4	6.4	6.8	6.7	6.8
2	8.6	8.2	8.5	7.2	7.1	7.1	6.6	6.4	6.5	6.9	6.8	6.8
3	8.3	7.8	8.0	7.1	7.1	7.1	6.7	6.4	6.5	7.0	6.8	6.9
4	7.8	7.6	7.7	7.1	6.9	7.1	6.7	6.6	6.6	7.1	6.9	7.0
5	7.6	7.5	7.5	6.9	6.8	6.9	6.8	6.6	6.7	7.4	7.0	7.1
6	7.5	7.4	7.4	6.9	6.8	6.9	6.8	6.7	6.8	7.4	6.9	7.1
7	7.6	7.4	7.5	6.9	6.8	6.9	6.9	6.8	6.8	7.2	7.0	7.1
8	7.7	7.5	7.5	6.9	6.8	6.8	7.0	6.8	6.9	7.2	7.0	7.1
9	7.8	7.6	7.6	6.9	6.8	6.9	6.9	6.8	6.8	7.2	7.0	7.1
10	7.9	7.5	7.6	6.9	6.9	6.9	6.9	6.8	6.8	7.2	7.0	7.1
11	7.6	7.3	7.4	7.0	6.9	7.0	6.9	6.8	6.9	7.1	7.0	7.0
12	7.4	7.2	7.3	7.0	7.0	7.0	7.0	6.8	6.9	7.1	6.9	7.0
13	7.3	7.2	7.2	7.1	7.0	7.0	7.0	6.8	6.9	7.0	6.9	6.9
14	7.2	7.1	7.2	7.2	7.1	7.1	6.9	6.8	6.9	7.2	6.9	7.0
15	7.1	7.0	7.1	7.2	7.1	7.1	6.9	6.7	6.8	7.1	6.9	7.0
16	7.3	7.1	7.2	7.1	6.9	7.0	6.8	6.7	6.7	7.2	6.9	7.0
17	7.3	7.2	7.3	6.9	6.9	6.9	6.7	6.7	6.7	7.1	6.8	6.9
18	7.3	7.1	7.2	6.9	6.8	6.9	6.7	6.7	6.7	6.9	6.8	6.8
19	7.2	7.1	7.2	6.8	6.8	6.8	6.7	6.7	6.7	6.9	6.8	6.9
20	7.3	7.2	7.2	6.9	6.8	6.8	6.8	6.7	6.7	6.8	6.8	6.8
21	7.2	7.0	7.2	6.8	6.6	6.8	6.8	6.7	6.7	6.9	6.8	6.8
22	7.1	7.0	7.0	6.7	6.6	6.7	6.8	6.7	6.8	7.3	6.9	7.0
23	7.1	7.0	7.1	6.7	6.4	6.6	6.8	6.7	6.8	7.6	7.0	7.2
24	7.2	7.0	7.1	6.8	6.5	6.6	6.8	6.7	6.8	7.7	7.2	7.4
25	7.2	7.1	7.1	6.8	6.6	6.8	6.8	6.7	6.8	7.4	7.0	7.2
26	7.1	7.1	7.1	6.9	6.7	6.8	6.9	6.7	6.8	7.3	7.0	7.2
27	7.2	7.1	7.1	7.0	6.8	6.9	6.8	6.7	6.7	7.5	7.0	7.3
28	7.2	7.1	7.2	7.1	6.8	7.1	6.9	6.8	6.8	7.3	7.1	7.2
29	---	---	---	7.1	7.0	7.0	6.8	6.8	6.8	7.3	7.0	7.1
30	---	---	---	7.0	6.9	6.9	6.8	6.7	6.8	7.2	7.0	7.0
31	---	---	---	6.9	6.4	6.6	---	---	---	7.0	6.8	6.9
MONTH	8.8	7.0	7.4	7.2	6.4	6.9	7.0	6.4	6.8	7.7	6.7	7.0
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.3	7.0	7.0	6.9	6.6	6.7	6.6	6.5	6.6	6.7	6.6	6.6
2	7.1	6.6	7.0	7.0	6.8	6.8	6.6	6.6	6.6	6.6	6.4	6.5
3	6.9	6.7	6.8	6.9	6.8	6.8	6.6	6.5	6.6	6.5	6.4	6.5
4	6.8	6.1	6.5	6.9	6.7	6.8	6.6	6.5	6.6	6.6	6.5	6.5
5	6.7	6.2	6.5	7.0	6.8	6.9	6.7	6.6	6.6	6.6	6.5	6.5
6	6.8	6.5	6.7	6.9	6.8	6.9	6.7	6.6	6.6	6.6	6.5	6.5
7	6.9	6.8	6.9	6.8	6.6	6.7	6.7	6.6	6.7	6.6	6.5	6.5
8	6.9	6.7	6.9	6.6	6.4	6.5	6.7	6.6	6.6	6.6	6.5	6.5
9	6.9	6.8	6.9	6.6	6.4	6.5	6.8	6.6	6.7	6.6	6.5	6.5
10	6.9	6.8	6.8	6.7	6.6	6.6	6.8	6.7	6.8	6.6	6.5	6.5
11	6.8	6.8	6.8	6.9	6.7	6.8	7.3	6.8	6.9	6.7	6.6	6.6
12	6.9	6.8	6.8	7.1	6.9	7.0	7.9	7.1	7.4	6.8	6.6	6.7
13	6.9	6.8	6.8	7.0	6.9	7.0	7.2	6.2	6.5	6.8	6.7	6.7
14	6.9	6.6	6.7	7.1	6.9	7.0	6.4	6.2	6.3	6.8	6.7	6.7
15	6.8	6.5	6.7	7.1	6.9	7.0	6.5	6.2	6.4	6.8	6.8	6.8
16	6.8	6.6	6.8	7.0	6.7	6.8	6.5	6.3	6.4	6.9	6.8	6.8
17	6.8	6.2	6.6	6.8	6.6	6.7	6.8	6.5	6.7	6.8	6.8	6.8
18	6.4	6.1	6.3	6.9	6.6	6.7	6.8	6.7	6.8	6.8	6.6	6.7
19	6.2	6.0	6.1	7.0	6.7	6.9	6.8	6.6	6.7	7.0	6.6	6.8
20	6.2	6.1	6.1	7.1	6.8	6.9	6.7	6.4	6.6	6.8	6.6	6.7
21	6.4	6.2	6.3	7.0	6.6	6.8	6.5	6.3	6.4	6.8	6.6	6.7
22	6.6	6.4	6.5	6.6	6.4	6.5	6.5	6.3	6.5	6.7	6.6	6.7
23	6.9	6.6	6.7	6.6	6.5	6.6	6.5	6.4	6.4	6.8	6.7	6.7
24	6.9	6.5	6.6	6.9	6.6	6.7	6.5	6.3	6.4	6.9	6.7	6.8
25	6.6	6.4	6.5	6.9	6.7	6.8	6.6	6.4	6.4	6.8	6.8	6.8
26	6.6	6.3	6.5	6.9	6.7	6.8	6.7	6.5	6.5	6.8	6.7	6.8
27	6.7	6.6	6.6	6.7	6.6	6.7	6.9	6.6	6.8	6.8	6.6	6.7
28	6.7	6.5	6.6	6.8	6.6	6.7	7.6	6.8	7.0	6.8	6.7	6.8
29	6.6	6.4	6.5	6.8	6.7	6.8	7.3	6.8	6.9	6.8	6.7	6.8
30	6.7	6.5	6.6	6.7	6.6	6.7	7.1	6.9	7.0	6.8	6.7	6.7
31	---	---	---	6.6	6.5	6.6	6.9	6.7	6.7	---	---	---
MONTH	7.3	6.0	6.6	7.1	6.4	6.8	7.9	6.2	6.6	7.0	6.4	6.7

## CAPE FEAR RIVER BASIN

02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	20.7	20.5	20.6	17.0	16.6	16.8	9.7	9.4	9.5	3.3	3.0	3.2
2	21.1	20.7	20.9	16.6	16.0	16.2	9.4	9.0	9.3	3.2	3.0	3.1
3	21.4	20.6	21.0	16.0	15.5	15.7	9.0	8.0	8.5	3.1	2.8	3.0
4	---	---	---	15.7	15.4	15.5	8.0	7.3	7.6	3.0	2.7	2.9
5	22.3	21.6	21.9	15.9	15.4	15.6	7.3	6.7	6.9	3.0	2.6	2.8
6	23.0	22.2	22.4	15.4	15.1	15.2	6.7	6.4	6.5	3.0	2.6	2.8
7	23.0	22.4	22.6	15.6	15.1	15.2	6.4	6.1	6.2	3.2	2.8	3.0
8	22.4	21.1	21.7	15.7	15.3	15.4	6.3	5.9	6.1	3.3	3.2	3.3
9	21.1	20.2	20.6	16.0	15.5	15.7	6.2	5.9	6.1	3.6	3.3	3.5
10	20.2	19.0	19.6	17.0	16.0	16.5	6.3	6.1	6.2	---	---	---
11	19.0	18.0	18.4	16.6	16.2	16.4	6.6	6.3	6.4	4.2	3.7	3.9
12	18.0	17.2	17.5	16.7	16.1	16.3	7.2	6.6	7.0	4.5	4.2	4.3
13	17.3	16.7	17.0	16.2	15.9	16.0	7.3	7.0	7.2	5.0	4.5	4.7
14	17.1	16.5	16.7	16.0	15.5	15.8	7.7	7.3	7.4	5.7	5.0	5.3
15	16.8	16.3	16.4	15.5	14.8	15.1	8.0	7.7	7.8	6.5	5.7	6.1
16	16.8	16.2	16.3	14.8	14.4	14.5	8.1	8.0	8.0	7.0	6.4	6.7
17	17.0	16.3	16.5	14.4	13.5	13.9	8.8	8.1	8.6	7.4	7.0	7.2
18	17.5	16.8	17.0	13.5	12.8	13.1	8.8	8.5	8.7	8.0	7.4	7.7
19	18.0	17.2	17.5	12.8	11.9	12.4	8.7	8.3	8.5	9.0	8.0	8.5
20	18.1	17.6	17.8	11.9	11.0	11.4	8.3	7.8	8.0	9.8	8.9	9.3
21	18.4	17.8	17.9	11.0	9.9	10.5	7.8	6.9	7.2	9.5	9.2	9.4
22	18.6	17.9	18.2	9.9	9.0	9.4	6.9	6.3	6.6	9.5	9.2	9.4
23	18.6	18.1	18.3	9.0	8.6	8.8	6.3	5.7	6.0	9.2	8.2	8.7
24	18.7	18.0	18.3	8.7	8.2	8.4	5.7	5.1	5.3	8.2	7.7	8.1
25	18.6	18.2	18.3	8.2	8.0	8.1	5.1	4.4	4.7	7.7	7.1	7.3
26	18.7	18.2	18.3	8.4	8.1	8.3	4.4	3.9	4.0	---	---	---
27	18.5	18.0	18.2	9.1	8.4	8.8	3.9	3.8	3.8	---	---	---
28	18.8	18.1	18.4	9.6	9.1	9.4	3.8	3.5	3.6	---	---	---
29	18.6	18.0	18.2	9.9	9.6	9.8	3.5	3.2	3.4	---	---	---
30	18.0	17.6	17.8	9.9	9.7	9.8	3.4	3.3	3.4	---	---	---
31	17.6	17.0	17.3	---	---	---	3.3	3.0	3.1	7.9	7.3	7.5
MONTH	---	---	---	17.0	8.0	13.1	9.7	3.0	6.5	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	8.2	7.8	8.0	11.7	11.3	11.5	12.1	11.5	11.8	19.2	18.6	18.8
2	8.5	8.2	8.3	11.8	11.5	11.7	12.4	11.8	12.1	19.4	19.0	19.2
3	8.7	8.4	8.5	12.3	11.8	12.1	12.3	11.8	12.1	20.0	19.3	19.7
4	8.5	8.3	8.4	12.4	12.0	12.2	12.3	12.0	12.1	20.6	20.0	20.3
5	8.6	8.3	8.4	12.4	12.0	12.1	12.4	11.8	12.1	21.2	20.5	20.9
6	8.6	8.2	8.5	12.0	10.8	11.4	12.9	11.8	12.3	21.9	20.9	21.3
7	8.8	8.3	8.5	10.8	9.8	10.3	13.8	12.4	13.0	21.7	21.3	21.4
8	9.0	8.5	8.7	9.8	9.1	9.4	14.9	13.4	14.0	21.7	21.4	21.5
9	9.3	8.8	8.9	10.2	9.6	9.8	15.9	14.6	15.1	21.8	21.5	21.6
10	10.2	9.2	9.6	10.5	9.9	10.3	17.4	15.9	16.5	22.0	21.7	21.9
11	10.0	9.6	9.8	11.1	10.4	10.8	18.5	17.4	17.9	22.2	21.9	22.0
12	9.9	9.7	9.8	11.0	10.8	10.9	19.2	18.5	18.8	22.5	22.1	22.2
13	10.0	9.6	9.8	12.2	11.0	11.6	19.7	19.1	19.4	22.9	22.2	22.4
14	10.1	9.9	10.0	12.8	12.2	12.5	19.8	19.4	19.6	23.0	22.6	22.7
15	10.6	10.0	10.3	13.4	12.8	13.1	19.7	19.3	19.5	23.0	22.7	22.8
16	11.6	10.6	11.0	13.7	13.4	13.5	20.2	19.4	19.7	22.9	22.7	22.7
17	12.3	11.6	12.0	14.2	13.4	13.8	20.0	18.9	19.3	22.7	22.0	22.4
18	12.8	12.1	12.4	14.2	13.8	14.0	18.9	17.7	18.2	22.0	21.6	21.7
19	12.7	11.2	12.2	13.8	13.1	13.4	17.7	16.8	17.3	22.2	21.7	21.9
20	11.2	10.1	10.5	13.1	12.4	12.8	16.9	16.3	16.5	22.4	21.9	22.2
21	10.9	10.5	10.7	12.4	11.4	12.0	17.0	16.2	16.4	22.8	22.1	22.4
22	10.8	10.5	10.7	11.5	11.1	11.4	17.0	16.5	16.6	23.5	22.7	23.1
23	10.6	9.8	10.3	11.8	11.2	11.5	17.7	16.8	17.2	23.9	23.1	23.5
24	9.8	8.9	9.1	12.5	11.5	11.9	18.9	17.2	18.0	23.9	23.6	23.8
25	10.1	9.1	9.6	12.4	11.8	12.1	19.0	18.4	18.9	24.1	23.8	23.9
26	10.9	10.0	10.5	12.2	11.8	12.0	19.2	18.6	18.9	24.4	24.0	24.3
27	11.5	10.9	11.2	12.0	11.4	11.7	19.9	18.8	19.1	24.7	24.3	24.5
28	11.6	11.5	11.5	11.8	11.3	11.6	20.0	18.9	19.2	24.6	24.4	24.4
29	---	---	---	11.7	11.5	11.6	19.6	19.2	19.4	24.6	24.1	24.3
30	---	---	---	12.3	11.6	11.9	19.7	18.6	19.0	24.6	23.8	24.0
31	---	---	---	12.2	11.3	11.6	---	---	---	24.6	23.8	24.0
MONTH	12.8	7.8	9.9	14.2	9.1	11.8	20.2	11.5	16.7	24.7	18.6	22.3

02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN									
1	24.5	23.9	24.1	29.0	27.9	28.2	26.0	25.3	25.6	26.9	26.5	26.6
2	24.4	23.8	24.1	29.4	28.5	28.7	26.0	25.5	25.7	26.5	26.2	26.3
3	23.8	23.1	23.5	28.7	28.2	28.4	26.0	25.7	25.8	26.2	25.8	25.9
4	23.1	22.6	22.9	28.6	28.1	28.3	26.2	25.9	26.1	25.9	25.6	25.8
5	24.6	23.0	23.8	28.5	28.0	28.1	26.7	26.1	26.4	26.0	25.4	25.6
6	24.5	24.1	24.3	28.2	27.6	27.9	26.9	26.5	26.7	26.1	25.5	25.7
7	24.8	24.0	24.4	28.0	26.7	27.1	27.0	26.8	26.9	25.9	25.4	25.5
8	24.8	24.5	24.7	26.7	25.9	26.1	27.3	26.8	27.0	25.8	25.3	25.5
9	24.7	24.4	24.6	26.4	25.9	26.1	27.7	27.1	27.4	25.8	25.4	25.6
10	24.7	24.4	24.5	27.0	26.2	26.5	28.4	27.5	28.0	26.0	25.4	25.5
11	24.8	24.5	24.6	27.9	26.6	27.1	29.7	28.1	28.8	26.3	25.6	25.8
12	25.2	24.7	24.9	28.6	27.5	27.9	31.0	29.5	30.2	26.4	25.7	26.0
13	26.0	25.2	25.5	28.5	27.7	28.2	31.0	26.6	28.1	26.2	25.7	25.9
14	25.7	25.2	25.4	28.3	27.6	27.9	27.3	26.7	27.1	26.0	25.2	25.6
15	26.4	25.2	25.7	28.3	27.4	27.7	27.6	26.9	27.2	25.2	24.4	24.7
16	26.4	25.6	26.0	27.6	27.2	27.3	27.5	27.1	27.3	24.4	23.7	24.0
17	25.9	25.0	25.4	27.5	27.0	27.2	28.1	27.5	27.8	23.7	23.2	23.4
18	26.1	25.2	25.6	27.3	27.0	27.1	28.2	27.3	27.9	23.4	22.7	22.9
19	26.0	25.6	25.8	27.8	27.2	27.5	27.3	26.7	26.9	22.9	22.4	22.6
20	26.9	26.0	26.4	27.9	27.5	27.7	26.9	26.1	26.7	22.7	22.4	22.5
21	27.5	26.4	26.9	27.7	27.3	27.5	26.6	26.0	26.3	22.8	22.4	22.6
22	27.9	27.0	27.4	27.6	26.9	27.1	26.9	26.2	26.5	23.1	22.6	22.9
23	27.8	27.5	27.6	27.3	27.0	27.2	27.1	26.4	26.6	23.6	23.0	23.3
24	27.5	25.5	26.4	27.9	27.2	27.6	27.2	26.6	26.8	24.2	23.4	23.8
25	25.5	24.8	25.1	28.1	27.7	27.8	27.5	26.8	27.1	24.4	24.0	24.2
26	25.7	24.9	25.2	28.1	27.8	27.9	27.3	26.8	27.0	24.2	23.5	23.8
27	26.3	25.7	25.9	27.8	27.3	27.6	27.4	27.0	27.2	23.5	22.8	23.1
28	26.8	26.2	26.6	27.5	27.2	27.3	28.0	27.2	27.4	22.8	22.2	22.5
29	27.4	26.6	26.9	27.4	26.6	26.9	27.8	27.4	27.6	22.2	21.3	21.6
30	28.2	27.4	27.8	26.6	25.9	26.3	27.6	27.2	27.4	21.3	20.3	20.8
31	---	---	---	26.0	25.5	25.7	27.4	26.8	27.0	---	---	---
MONTH	28.2	22.6	25.4	29.4	25.5	27.4	31.0	25.3	27.1	26.9	20.3	24.3

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.2	6.7	7.1	8.9	8.6	8.7	12.2	11.6	11.9
2	---	---	---	6.9	5.9	6.4	9.0	8.7	8.8	12.1	11.6	11.8
3	---	---	---	7.4	6.7	7.0	9.4	8.7	9.1	12.1	11.7	11.9
4	---	---	---	7.4	6.8	7.1	9.6	9.2	9.4	12.2	11.7	11.9
5	7.1	6.7	6.9	7.6	6.9	7.3	9.9	9.5	9.7	12.6	11.8	12.1
6	7.0	6.5	6.7	7.7	7.1	7.4	10.1	9.8	10.0	12.6	12.1	12.3
7	7.1	6.4	6.7	7.7	7.2	7.5	10.4	10.0	10.2	12.5	12.0	12.2
8	6.7	6.4	6.6	7.5	7.1	7.3	10.6	10.2	10.4	12.4	11.9	12.1
9	6.8	6.3	6.5	7.4	6.9	7.2	10.9	10.5	10.6	12.2	11.8	12.0
10	6.8	6.3	6.5	7.5	6.9	7.2	11.0	10.6	10.7	---	---	---
11	7.0	6.6	6.8	7.3	6.7	7.0	11.0	10.6	10.7	12.1	11.9	12.0
12	7.3	6.8	7.0	7.2	6.4	6.8	10.9	10.5	10.7	12.1	11.9	12.0
13	7.4	6.9	7.1	6.7	6.2	6.5	10.8	10.5	10.6	12.0	11.8	11.9
14	7.4	7.0	7.2	6.6	6.1	6.4	10.8	10.3	10.5	11.9	11.7	11.8
15	7.7	7.2	7.4	6.8	6.2	6.5	10.7	10.2	10.4	11.9	11.6	11.7
16	7.7	7.4	7.6	6.7	6.2	6.5	10.5	10.2	10.4	11.9	11.6	11.8
17	7.8	7.5	7.6	6.8	6.3	6.6	10.6	10.2	10.4	12.0	11.7	11.8
18	7.8	7.4	7.6	7.1	6.5	6.8	10.6	10.2	10.4	11.8	11.5	11.6
19	7.8	7.4	7.6	7.3	6.7	7.1	11.0	10.1	10.3	11.9	11.4	11.6
20	7.6	7.2	7.4	7.6	6.9	7.2	10.4	9.8	10.1	12.2	11.3	11.6
21	7.6	7.1	7.3	7.8	7.2	7.6	10.5	9.9	10.2	11.6	11.1	11.3
22	7.7	7.0	7.2	8.1	7.7	7.9	10.8	10.2	10.5	11.4	10.8	10.9
23	7.4	6.9	7.1	8.4	8.0	8.2	11.0	10.5	10.7	11.4	10.7	11.0
24	7.5	6.9	7.1	8.6	8.2	8.4	11.4	10.7	11.0	11.2	10.9	11.0
25	7.4	6.8	7.1	9.0	8.4	8.7	11.6	11.0	11.2	11.0	10.6	10.8
26	7.5	6.9	7.1	9.3	8.8	9.0	11.8	11.2	11.5	---	---	---
27	7.5	7.0	7.2	9.2	8.7	9.0	11.9	11.2	11.5	---	---	---
28	7.7	6.9	7.2	9.1	8.4	8.7	12.0	11.5	11.8	---	---	---
29	7.6	7.1	7.3	8.7	8.2	8.4	12.3	11.8	12.0	---	---	---
30	7.4	6.9	7.1	8.8	8.3	8.6	12.2	11.8	11.9	---	---	---
31	7.4	7.0	7.2	---	---	---	12.2	11.7	12.0	13.2	12.4	12.8
MONTH	---	---	---	9.3	5.9	7.4	12.3	8.6	10.5	---	---	---

## CAPE FEAR RIVER BASIN

02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	12.8	12.1	12.5	9.9	9.5	9.7	9.4	9.0	9.2	7.2	6.7	7.0
2	12.4	11.4	12.0	10.2	9.7	9.9	9.2	8.9	9.0	7.7	6.7	7.1
3	11.8	11.1	11.5	10.1	9.6	9.8	9.5	9.0	9.3	7.6	6.6	7.2
4	11.4	10.6	11.0	10.0	9.4	9.7	9.8	9.3	9.6	7.7	6.4	6.9
5	10.9	10.4	10.6	9.6	9.3	9.4	9.9	9.6	9.8	8.2	6.2	6.9
6	10.8	10.2	10.4	10.2	9.4	9.8	10.0	9.7	9.9	8.1	6.2	6.7
7	11.0	10.4	10.7	10.2	9.8	10.0	9.9	9.5	9.7	8.1	6.5	7.1
8	11.2	10.6	10.9	10.4	10.0	10.2	9.6	9.1	9.4	7.4	6.4	6.9
9	11.5	10.8	11.1	10.4	10.1	10.2	9.3	8.8	9.0	7.3	6.1	6.7
10	11.7	10.7	11.1	10.4	9.9	10.2	8.9	8.3	8.6	7.1	5.8	6.4
11	11.3	10.5	10.9	10.4	9.8	10.1	8.5	7.9	8.2	6.3	5.4	6.0
12	11.0	9.8	10.4	10.4	10.0	10.2	8.2	7.7	8.0	6.3	5.3	5.7
13	10.5	9.8	10.2	10.6	9.9	10.2	8.0	7.4	7.7	6.7	5.2	6.0
14	10.5	9.7	10.1	10.6	9.9	10.3	7.9	7.1	7.5	7.6	5.6	6.4
15	10.1	9.3	9.6	10.4	9.8	10.1	7.7	6.9	7.2	7.5	6.1	6.8
16	10.1	9.4	9.7	10.0	9.4	9.7	7.3	6.7	7.0	7.9	6.8	7.2
17	10.2	9.6	9.8	9.8	8.9	9.4	7.2	6.4	6.9	7.4	6.0	6.7
18	9.7	8.9	9.4	9.6	8.9	9.3	7.2	6.5	6.9	6.0	5.6	5.7
19	9.2	8.7	9.0	9.4	8.9	9.1	7.2	6.6	6.9	6.1	5.1	5.7
20	9.6	9.1	9.3	9.5	8.9	9.2	7.6	6.8	7.1	5.7	4.7	5.1
21	9.3	9.0	9.1	9.8	9.2	9.5	7.5	6.8	7.1	5.8	4.6	5.1
22	9.3	8.9	9.1	9.9	9.4	9.6	7.6	6.9	7.3	7.3	5.6	6.4
23	9.3	9.0	9.2	9.8	9.3	9.6	8.1	7.0	7.4	7.8	6.1	6.7
24	9.9	9.2	9.6	9.7	9.3	9.5	7.8	7.0	7.4	7.7	6.5	7.2
25	10.1	9.6	9.8	9.7	9.3	9.5	7.5	6.8	7.3	7.4	5.9	6.6
26	9.9	9.6	9.8	9.8	9.3	9.5	7.6	6.3	7.1	6.9	5.6	6.5
27	9.9	9.6	9.7	10.1	9.6	9.8	7.2	6.2	6.7	7.3	5.9	6.6
28	9.8	9.5	9.6	10.4	9.8	10.1	7.4	6.6	6.9	6.9	5.9	6.4
29	---	---	---	10.4	9.8	10.1	7.1	6.6	6.8	6.7	5.7	6.1
30	---	---	---	10.0	9.6	9.8	7.5	6.6	7.0	6.4	5.4	5.7
31	---	---	---	9.8	9.2	9.3	---	---	---	6.2	4.4	5.1
MONTH	12.8	8.7	10.2	10.6	8.9	9.8	10.0	6.2	7.9	8.2	4.4	6.4
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.1	5.8	6.2	6.8	5.1	5.6	5.4	4.7	4.9	5.4	4.4	4.9
2	6.9	5.6	6.2	7.0	5.6	6.0	5.4	4.4	4.8	5.0	4.4	4.8
3	5.8	4.7	5.2	6.2	5.6	5.8	4.8	4.1	4.5	5.1	4.6	4.8
4	5.2	4.8	4.9	6.0	5.0	5.5	4.6	3.8	4.2	4.9	4.4	4.7
5	5.3	4.7	5.0	6.6	5.1	5.7	5.3	3.8	4.2	5.0	4.4	4.7
6	6.0	5.2	5.7	6.3	4.8	5.6	4.9	3.7	4.2	5.3	4.4	4.7
7	6.3	5.9	6.1	4.9	4.3	4.6	4.8	3.8	4.2	5.3	4.5	4.8
8	6.2	5.3	5.7	4.7	4.4	4.5	4.4	3.6	3.9	5.3	4.4	4.7
9	5.6	4.8	5.2	4.7	4.3	4.5	4.6	3.3	3.9	5.8	4.7	5.1
10	5.4	4.5	4.9	4.7	4.3	4.5	4.7	3.2	4.0	5.5	4.7	5.0
11	5.0	4.2	4.6	5.8	4.5	4.9	6.6	3.5	4.6	5.8	4.9	5.2
12	5.4	4.4	5.0	5.8	4.7	5.2	8.3	5.6	6.9	6.4	5.2	5.5
13	6.1	4.9	5.3	5.5	4.4	4.7	5.8	3.9	4.5	6.4	5.2	5.6
14	5.5	4.5	5.0	5.5	4.3	4.6	4.7	3.9	4.4	6.2	5.2	5.6
15	6.0	4.8	5.3	5.6	4.3	4.7	5.2	4.0	4.5	5.9	5.4	5.6
16	5.4	4.5	4.9	5.6	4.8	5.3	5.2	4.2	4.7	6.0	5.2	5.5
17	5.2	4.7	4.9	5.9	5.1	5.4	5.2	4.1	4.5	6.2	5.3	5.5
18	5.2	4.6	4.9	7.1	5.2	5.9	5.0	4.0	4.5	6.5	5.5	5.9
19	5.1	4.5	4.8	7.6	5.9	6.8	4.9	3.7	4.4	7.8	6.2	7.0
20	5.1	4.7	4.9	7.8	6.7	7.2	4.8	3.8	4.3	6.9	5.7	6.3
21	5.4	4.7	5.0	7.3	5.9	6.6	5.0	4.1	4.5	6.3	5.6	5.9
22	5.5	5.1	5.3	6.1	4.8	5.3	5.1	4.3	4.7	6.0	5.3	5.7
23	6.1	5.2	5.5	6.1	5.1	5.6	5.5	4.3	4.9	6.1	5.4	5.7
24	5.8	4.8	5.2	6.9	5.6	6.3	5.7	4.5	5.3	6.6	5.3	5.8
25	5.7	5.0	5.3	6.7	5.5	6.0	6.3	5.3	5.6	6.0	5.3	5.7
26	5.6	5.0	5.4	6.2	5.2	5.7	6.6	5.2	5.8	5.5	4.6	5.0
27	5.7	5.1	5.4	6.0	5.3	5.6	7.7	6.5	7.1	5.1	4.2	4.6
28	5.7	5.1	5.3	6.9	5.7	6.2	8.6	6.9	7.5	5.3	4.6	5.0
29	5.6	5.0	5.3	6.5	5.1	5.5	8.3	6.2	7.0	5.4	4.9	5.1
30	5.8	5.2	5.5	5.6	4.8	5.2	7.2	6.0	6.7	5.6	5.0	5.3
31	---	---	---	5.1	4.6	4.8	6.3	4.9	5.4	---	---	---
MONTH	7.1	4.2	5.3	7.8	4.3	5.5	8.6	3.2	5.0	7.8	4.2	5.3

02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	75	69	73	78	75	76	91	87	89
2	---	---	---	71	60	65	79	76	77	90	87	88
3	---	---	---	74	68	70	80	76	78	90	87	88
4	---	---	---	74	69	71	80	77	79	91	87	89
5	82	77	79	77	70	73	81	79	80	93	88	90
6	82	76	78	77	71	74	83	80	81	93	90	91
7	83	74	78	77	72	75	84	81	82	93	89	91
8	78	72	75	76	71	74	86	82	84	93	89	91
9	75	71	73	74	69	72	88	84	86	92	89	90
10	74	69	71	78	71	74	89	85	87	---	---	---
11	75	70	72	75	68	72	89	86	87	93	91	92
12	77	72	74	74	65	70	89	87	88	93	91	92
13	78	71	74	69	63	66	90	87	88	94	92	93
14	77	72	74	67	62	64	91	86	88	95	92	94
15	79	73	76	68	61	64	90	86	88	97	93	95
16	80	76	78	66	61	64	89	86	88	98	94	96
17	80	77	78	66	61	64	92	87	89	100	96	98
18	81	77	79	67	62	65	92	87	89	99	97	98
19	81	77	79	69	63	66	95	86	88	103	97	99
20	80	75	78	70	64	66	88	83	85	108	99	101
21	81	75	77	70	65	68	87	83	85	101	97	99
22	82	74	77	71	68	69	88	84	86	99	94	96
23	80	73	76	73	69	71	89	85	86	97	92	95
24	81	73	76	73	70	71	90	84	87	95	91	93
25	79	73	75	76	72	74	90	86	87	93	88	90
26	81	74	76	79	74	77	90	86	88	---	---	---
27	80	74	77	79	76	77	90	86	88	---	---	---
28	83	73	77	79	74	76	91	87	89	---	---	---
29	81	75	78	77	73	74	92	89	90	---	---	---
30	78	73	75	78	73	76	92	88	90	---	---	---
31	78	73	75	---	---	---	92	88	89	111	104	107
MONTH	---	---	---	79	60	70	95	75	86	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	108	102	105	92	87	89	86	84	85	79	72	75
2	105	98	102	95	89	92	85	83	84	84	73	77
3	102	94	98	94	90	92	89	84	87	83	72	78
4	97	91	94	93	88	91	92	87	90	86	72	76
5	93	89	91	90	86	88	93	89	91	92	69	78
6	92	87	89	93	80	89	94	91	92	92	70	76
7	95	89	92	91	88	89	94	91	93	92	74	80
8	97	91	94	92	88	89	93	90	91	84	73	78
9	100	93	96	93	89	91	92	88	90	84	69	76
10	104	95	98	93	88	91	90	86	88	82	66	73
11	100	93	96	94	88	91	89	84	87	73	62	68
12	97	86	92	94	90	92	87	82	86	73	61	66
13	93	87	90	98	90	94	87	81	83	78	60	69
14	93	86	89	100	94	97	87	77	82	89	65	75
15	89	83	86	99	94	97	84	75	79	88	69	79
16	92	85	89	96	90	93	81	73	77	92	79	83
17	95	88	91	94	86	91	78	70	75	86	68	77
18	90	84	89	94	87	90	77	69	73	69	64	66
19	86	82	84	91	85	88	75	69	72	70	58	65
20	85	82	83	90	84	87	79	69	73	66	54	58
21	84	81	82	90	86	88	78	69	73	67	53	60
22	84	81	82	90	86	88	78	71	75	86	66	75
23	83	80	82	90	86	88	85	73	77	92	72	79
24	86	81	84	91	85	88	85	74	78	92	77	85
25	88	85	86	90	87	89	81	74	78	88	71	78
26	90	86	88	91	86	88	83	68	76	82	67	78
27	90	87	89	93	88	91	78	68	73	88	71	80
28	90	87	88	96	90	93	81	72	75	83	71	76
29	---	---	---	97	90	93	77	72	74	80	68	73
30	---	---	---	93	88	91	82	71	75	77	64	68
31	---	---	---	92	84	86	---	---	---	74	52	61
MONTH	108	80	90	100	80	90	94	68	81	92	52	74



CAPE FEAR RIVER BASIN

02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC--Continued

TURBIDITY (NTU), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	10	5.0	7.2	31	23	27	250	180	200	---	---	---
2	13	6.0	8.0	28	22	24	200	110	150	15	6.6	12
3	17	6.0	8.9	27	21	24	130	96	110	16	7.0	10
4	11	7.0	8.8	27	22	24	130	120	130	49	6.0	10
5	13	6.0	7.6	36	23	28	130	100	110	28	8.0	12
6	12	6.0	7.5	43	31	36	110	75	86	34	11	14
7	10	5.0	6.9	52	37	43	82	64	72	30	12	18
8	10	5.0	6.6	64	40	52	65	49	54	99	13	17
9	11	5.0	8.2	47	31	39	58	35	44	18	10	14
10	15	6.0	8.7	36	27	32	39	25	32	30	9.0	14
11	15	9.0	11	32	25	28	30	19	25	24	12	17
12	15	10	12	29	22	25	25	15	18	37	16	22
13	15	11	13	26	20	23	25	13	16	29	16	21
14	18	11	13	25	20	22	21	12	15	30	19	25
15	18	14	15	29	20	22	18	11	14	60	10	22
16	18	14	16	26	20	22	17	11	13	96	11	20
17	22	14	18	31	19	22	---	---	---	54	16	24
18	32	16	21	24	18	20	18	11	14	59	25	30
19	48	29	37	26	21	23	20	13	15	44	22	27
20	40	24	30	30	21	24	25	15	18	140	30	37
21	46	24	36	160	27	67	48	14	20	43	33	37
22	43	30	36	200	120	160	24	14	19	50	35	41
23	87	33	52	130	86	100	34	14	21	53	32	40
24	100	50	71	130	72	97	41	18	22	190	30	42
25	57	37	46	86	69	78	30	18	22	58	34	43
26	43	33	37	87	73	80	35	11	19	49	34	39
27	41	29	34	90	61	72	17	8.3	12	91	34	40
28	34	27	30	68	44	57	16	9.0	13	96	35	42
29	---	---	---	50	31	40	16	10	13	64	30	35
30	---	---	---	100	30	45	---	---	---	280	32	53
31	---	---	---	350	100	240	---	---	---	160	35	44
MONTH	100	5.0	22	350	18	51	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	62	36	41	---	---	---	31	20	25	22	10	15
2	260	40	84	---	---	---	43	20	24	22	14	17
3	260	84	150	---	---	---	43	20	26	18	11	15
4	---	---	---	---	---	---	36	22	26	19	10	14
5	88	43	67	---	---	---	33	21	26	23	11	15
6	63	29	44	75	30	52	37	20	25	21	7.2	13
7	37	20	27	59	32	45	54	19	27	18	6.1	8.8
8	46	18	24	53	39	47	30	16	21	12	6.4	8.7
9	78	15	22	56	32	36	18	11	14	15	8.1	10
10	29	16	21	38	28	33	13	6.0	9.3	14	9.9	12
11	34	19	26	34	24	29	13	5.1	7.9	14	11	12
12	39	23	31	29	18	23	24	5.4	13	15	10	12
13	31	21	26	25	17	20	69	22	50	19	11	12
14	51	21	30	24	12	19	42	24	31	17	12	13
15	42	27	34	32	13	20	40	24	30	18	12	14
16	53	27	36	---	---	---	42	21	30	21	14	16
17	91	28	56	---	---	---	51	17	25	19	15	17
18	89	46	60	36	14	19	70	17	26	26	15	19
19	59	38	50	36	13	16	55	21	31	21	13	17
20	40	25	33	19	11	14	59	28	37	17	8.7	13
21	42	23	28	21	12	15	76	26	36	18	11	14
22	32	23	26	46	13	20	31	20	25	23	10	14
23	34	21	25	24	13	18	35	18	23	18	10	13
24	69	24	48	24	9.4	15	42	11	18	28	11	15
25	48	37	41	20	9.3	13	22	12	15	34	15	20
26	41	33	37	18	9.7	14	25	13	17	27	18	22
27	40	28	32	22	12	16	24	12	15	21	15	18
28	40	29	34	44	15	20	22	9.4	13	34	13	16
29	54	28	42	56	14	23	28	9.3	12	21	10	15
30	35	25	30	---	---	---	19	7.9	12	24	13	17
31	---	---	---	36	22	28	73	10	15	---	---	---
MONTH	---	---	---	---	---	---	76	5.1	23	34	6.1	15

CAPE FEAR RIVER BASIN

02105769 CAPE FEAR RIVER AT LOCK 1 NEAR KELLY, NC

LOCATION.--Lat 34°24'15", long 78°17'38", Bladen County, Hydrologic Unit 03030005, on right bank near upstream end of Lock 1, 1.3 mi upstream from Natmore Creek, 2.0 mi upstream from bridge on State Highway 11, 4.6 mi southeast of Kelly, and at river mile 67.

DRAINAGE AREA.--5,255 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1969 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder with concrete lock and dam control. Datum of gage is 2.90 ft below sea level (U.S. Army Corps of Engineers bench mark). Satellite telemetry at station.

REMARKS.--Records good. Slight regulation at high flow December 1972 to August 1981, caused by storage in B. Everett Jordan Lake. Flow regulated since September 1981 by B. Everett Jordan Lake (station 02098197). Slight diurnal fluctuation and some regulation for short periods at low flow caused by power plants upstream from station. The City of Wilmington diverted an average of 24.9 ft<sup>3</sup>/s for municipal water supply, most of which was returned downstream of station as treated effluent. Prior to regulation, maximum discharge: 57,000 ft<sup>3</sup>/s, March 3, 1979; gage height: 24.92 ft, from floodmarks. Minimum discharge prior to regulation, 406 ft<sup>3</sup>/s, July 1, 1981.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6630	891	2620	1760	1110	3320	15900	1530	1700	2410	1470	2140
2	6510	1020	2330	1680	1280	3240	16900	1270	3170	1940	1210	2940
3	6390	1050	2190	1630	1490	3200	16400	1150	8410	1730	1010	2770
4	6140	991	2110	1730	1680	3440	16600	1090	8660	1590	995	2320
5	5590	1030	2090	1780	1890	3840	17400	1090	7140	1530	962	1920
6	3250	1050	1840	1750	1960	5710	18000	1090	6780	4700	963	1690
7	2000	1110	1680	1650	1610	6730	18500	1030	6050	6010	733	1550
8	1650	1040	1610	1640	979	6930	18500	962	5200	4630	677	1450
9	1480	1060	1700	1580	1060	6270	17800	772	2650	3460	819	1330
10	1370	1220	1690	1460	1550	5540	15400	786	1440	2700	838	1300
11	1380	1240	1710	1440	1550	5010	11400	812	988	2410	819	1580
12	1310	1230	1850	1460	1550	4610	7800	867	883	2310	1850	1710
13	1280	1130	1840	1610	1700	4090	5990	1000	1010	2010	5800	1580
14	1330	1110	1720	1640	1790	2880	4040	1020	1440	1700	6410	1480
15	1340	1290	1690	1680	2060	2370	3140	940	3880	1420	5320	1340
16	1270	1500	1710	1710	2160	2820	2840	828	7370	1180	5500	1190
17	1230	1630	1770	1660	2600	3190	2560	828	7520	920	4990	1090
18	1220	1600	1830	1440	3200	3500	2170	944	7120	780	3640	970
19	1150	1620	1780	1450	4820	3630	1880	1060	5830	820	4280	960
20	1200	1840	2780	1650	6380	3330	1620	1120	3950	1060	4500	1070
21	1210	2190	3240	1870	4820	5590	1550	1170	3460	1280	4590	1030
22	1200	2210	2660	2100	3480	10200	1600	1090	3540	1200	4460	1010
23	1180	2040	2180	2140	5640	12100	1520	1050	3550	994	3380	993
24	1100	1900	1910	2530	6910	12300	1260	982	4030	907	2520	1070
25	1090	1890	1680	2360	6110	12000	1200	911	4340	924	2000	1500
26	1020	2660	1680	1920	5430	11600	1520	938	4390	955	1550	1850
27	1080	3580	1760	1830	4900	11700	1670	957	3470	1070	1390	2020
28	1120	3760	1850	1730	4070	11300	1840	991	3660	1950	1440	1980
29	1120	3250	1860	1810	---	10700	1940	1220	3680	2520	1700	1780
30	1100	2960	1810	1470	---	9260	1860	1450	3200	2130	1780	1600
31	1000	---	1820	1060	---	12300	---	1660	---	1730	1730	---
TOTAL	65940	51092	60990	53220	83779	202700	230800	32608	128511	60970	79326	47213
MEAN	2127	1703	1967	1717	2992	6539	7693	1052	4284	1967	2559	1574
MAX	6630	3760	3240	2530	6910	12300	18500	1660	8660	6010	6410	2940
MIN	1000	891	1610	1060	979	2370	1200	772	883	780	677	960

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2001,\* BY WATER YEAR (WY)

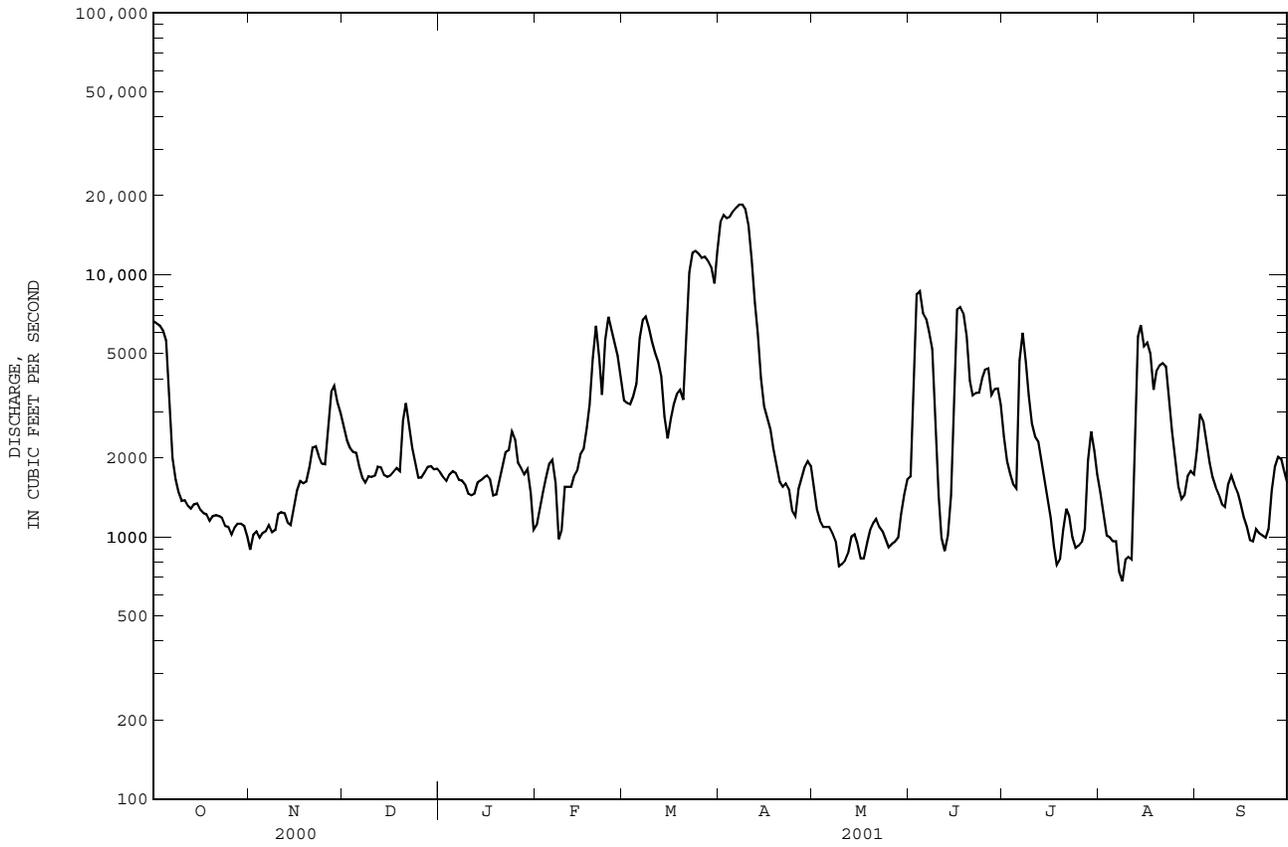
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	3626	3330	4597	8444	9875	11120	7953	4109	3744	3070	2933	3838								
MAX	15080	11390	11050	17180	27780	23830	17730	12110	15070	10860	7883	22580								
(WY)	2000	1996	1984	1998	1998	1998	1993	1989	1982	1995	1984	1996								
MIN	1023	1118	1783	1717	2992	3629	1667	1052	1044	1039	1024	985								
(WY)	1999	1999	1999	2001	2001	1988	1986	2001	1999	1998	1999	1990								

SUMMARY STATISTICS

	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1982 - 2001*	
ANNUAL TOTAL	1613720		1097149			
ANNUAL MEAN	4409		3006		5530	
HIGHEST ANNUAL MEAN					8529	
LOWEST ANNUAL MEAN					2865	
HIGHEST DAILY MEAN	18400	Feb 4	18500	Apr 7	47600	Sep 11 1996
LOWEST DAILY MEAN	647	May 17	677	Aug 8	445	Oct 9 1981
ANNUAL SEVEN-DAY MINIMUM	802	May 15	830	Aug 5	463	Oct 4 1981
MAXIMUM PEAK FLOW			18700		48300	
MAXIMUM PEAK STAGE			20.13		24.29	
INSTANTANEOUS LOW FLOW			635		380	
10 PERCENT EXCEEDS	10300		6380		14900	
50 PERCENT EXCEEDS	2480		1730		2810	
90 PERCENT EXCEEDS	1100		995		1070	

\* Regulated period only (1982-2001). See REMARKS.

02105769 CAPE FEAR RIVER AT LOCK 1 NEAR KELLY, NC--Continued



CAPE FEAR RIVER BASIN

02105769 CAPE FEAR RIVER AT LOCK 1 NEAR KELLY, NC--Continued

PRECIPITATION RECORDS

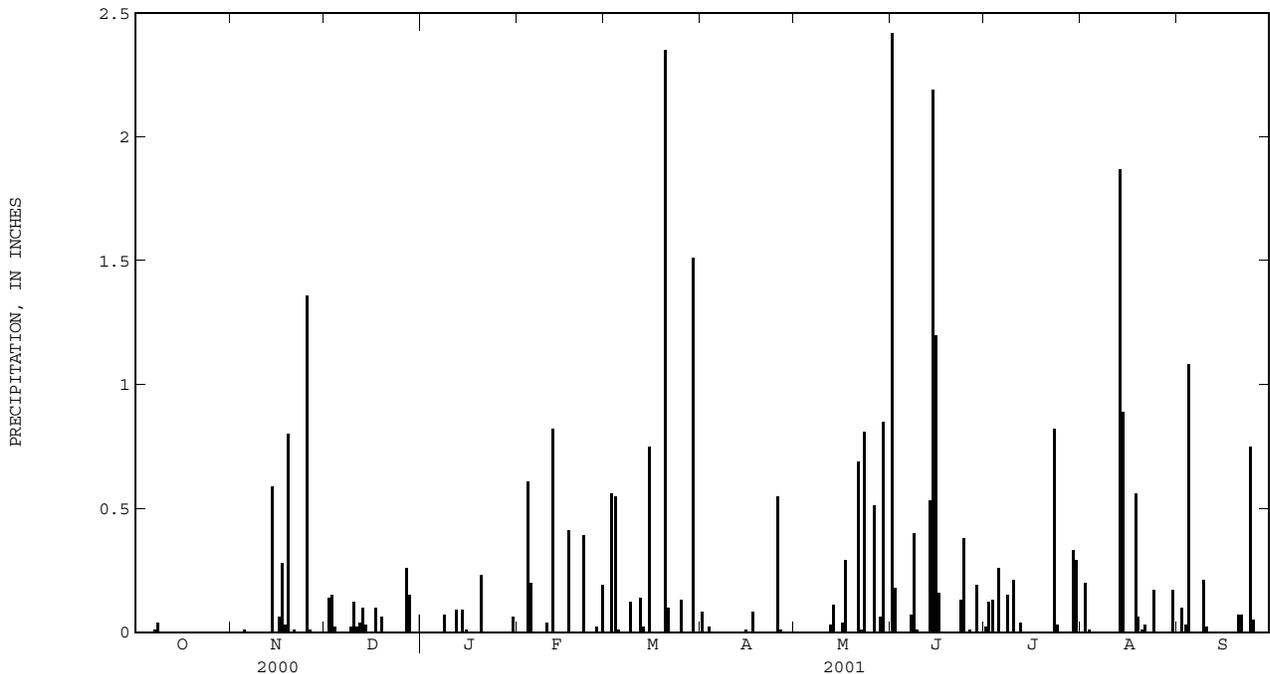
PERIOD OF RECORD.--November 1998 to current year. Records from November 1998 to September 1999 are unpublished and available in the USGS District Office, Raleigh, NC.

INSTRUMENTATION.--Tipping-bucket raingage and data collection platform.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.08	.00	2.42	.02	.00	.00
2	.00	.00	.14	.00	.00	.00	.00	.00	.18	.12	.20	.10
3	.00	.00	.15	.00	.00	.56	.02	.00	.00	.13	.01	.03
4	.00	.00	.02	.00	.61	.55	.00	.00	.00	.00	.00	1.08
5	.00	.01	.00	.00	.20	.01	.00	.00	.00	.26	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.01	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00
8	.04	.00	.00	.07	.00	.00	.00	.00	.40	.15	.00	.00
9	.00	.00	.02	.00	.00	.12	.00	.00	.01	.00	.00	.21
10	.00	.00	.12	.00	.04	.00	.00	.00	.00	.21	.00	.02
11	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	---
12	.00	.00	.04	.09	.82	.14	.00	.03	.00	.04	.00	.00
13	.00	.00	.10	.00	.00	.02	.00	.11	.53	.00	1.87	.00
14	.00	.59	.03	.09	.00	.00	.00	.00	2.19	.00	.89	.00
15	.00	.00	.00	.01	.00	.75	.01	.00	1.20	.00	.00	.00
16	.00	.06	.00	.00	.00	.00	.00	.04	.16	.00	.00	.00
17	.00	.28	.10	.00	.41	.00	.08	.29	.00	.00	.00	.00
18	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.56	.00
19	.00	.80	.06	.00	.00	.00	.00	.00	.00	.00	.06	.00
20	.00	.00	.00	.23	.00	2.35	.00	.00	.00	.00	.01	.07
21	.00	.01	.00	.00	.00	.10	.00	.69	.00	.00	.03	.07
22	.00	.00	.00	.00	.39	.00	.00	.01	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.81	.13	.82	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.38	.03	.17	.75
25	.00	1.36	.00	.00	.00	.13	.55	.00	.00	.00	.00	.05
26	.00	.01	.00	.00	.02	.00	.01	.51	.01	.00	.00	.00
27	.00	.00	.26	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.15	.00	.19	.00	.00	.06	.19	.00	.00	.00
29	.00	.00	.00	.00	---	1.51	.00	.85	.00	.33	.00	.00
30	.00	.00	.00	.06	---	.00	.00	.00	.00	.29	.17	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.05	3.15	1.21	0.55	2.68	6.24	0.75	3.40	7.87	2.40	3.97	---





USGS hydrographer making a wading discharge measurement below dam at Cullasaja River near Highlands, North Carolina.

## CAPE FEAR RIVER BASIN

02105900 HOOD CREEK NEAR LELAND, NC

LOCATION.--Lat 34°16'43", long 78°07'34", Brunswick County, Hydrologic Unit 03030005, on right bank at downstream side of bridge on U.S. Highway 74-76, 0.4 mi downstream from Pasture Pond Branch, 1 mi southeast of Maco, and 4.8 mi northwest of Leland.

DRAINAGE AREA.--21.6 mi<sup>2</sup>.

PERIOD OF RECORD.--Occasional low-flow measurements water years 1950-56, and annual maximum, water years 1953-56. October 1956 to September 1973. October 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 12.22 ft above sea level. Prior to Nov. 28, 1956, crest-stage gage at site 150 ft upstream at datum 9.60 ft lower. Nov. 29, 1956 to Apr. 24, 1969, water-stage recorder 150 ft upstream at datum 0.19 ft higher. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Maximum gage height for period of record from floodmark. Low flows possibly affected by tide. Minimum discharge for period of record, no flow, also occurred Sept. 10,11, 1997. Minimum discharge for current water year also occurred May 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	10	24	22	15	19	94	11	3.7	10	15	96
2	34	10	20	20	15	18	70	9.0	5.8	12	13	39
3	30	9.7	24	20	14	18	55	8.6	5.8	15	13	20
4	26	9.0	32	19	17	55	45	7.8	6.4	20	49	21
5	23	9.2	29	18	28	86	38	7.6	7.0	22	30	147
6	21	9.1	25	19	28	54	33	6.1	7.6	19	17	121
7	19	9.0	22	18	23	36	29	5.2	8.4	19	21	45
8	20	9.0	21	18	20	29	26	4.8	9.4	21	27	21
9	20	8.9	20	18	19	25	23	5.0	9.8	21	17	15
10	19	8.5	23	18	18	24	21	4.4	9.6	20	13	18
11	18	8.0	30	17	16	22	19	3.9	8.9	19	11	19
12	17	7.4	30	18	22	20	17	3.3	8.4	24	9.9	16
13	16	7.1	27	18	48	59	16	2.8	8.4	26	9.2	12
14	14	8.4	29	18	45	92	14	2.1	19	22	25	8.8
15	14	9.4	30	18	34	72	13	2.0	26	19	79	6.9
16	14	9.8	29	16	28	100	13	1.8	25	17	29	5.5
17	13	10	28	16	26	84	12	2.4	20	16	15	4.4
18	13	9.3	26	15	24	55	12	2.3	17	14	13	3.5
19	13	12	25	15	22	39	11	2.0	15	13	16	2.8
20	13	22	23	18	20	79	11	1.6	13	14	13	3.5
21	13	21	22	22	19	863	11	1.3	12	12	11	8.1
22	13	12	22	22	18	433	12	1.1	11	12	17	8.0
23	14	9.6	20	19	21	225	13	1.1	11	14	15	5.2
24	14	8.6	20	18	21	147	12	.84	13	16	11	4.6
25	14	55	19	17	19	106	13	.67	15	16	9.6	5.1
26	14	392	18	16	18	86	14	1.0	16	16	7.9	4.7
27	13	189	18	15	17	70	14	1.3	15	16	7.4	4.2
28	13	103	23	15	17	56	14	2.0	14	15	6.9	3.6
29	12	58	27	14	---	66	12	3.2	13	28	7.4	3.1
30	11	36	26	15	---	141	11	3.3	11	24	31	2.7
31	11	---	23	15	---	131	---	3.3	---	17	96	---
TOTAL	538	1080.0	755	547	632	3310	698	112.81	365.2	549	655.3	674.7
MEAN	17.4	36.0	24.4	17.6	22.6	107	23.3	3.64	12.2	17.7	21.1	22.5
MAX	39	392	32	22	48	863	94	11	26	28	96	147
MIN	11	7.1	18	14	14	18	11	.67	3.7	10	6.9	2.7
CFSM	.80	1.67	1.13	.82	1.04	4.94	1.08	.17	.56	.82	.98	1.04
IN.	.93	1.86	1.30	.94	1.09	5.70	1.20	.19	.63	.95	1.13	1.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2001,<sup>®</sup> BY WATER YEAR (WY)

MEAN	31.3	21.0	28.1	47.3	55.1	56.5	31.5	18.9	23.7	39.3	50.1	60.7
MAX	115	52.6	74.5	93.8	177	111	115	137	143	133	153	534
(WY)	2000	1960	1973	1964	1998	1959	1961	1999	1961	1996	1969	1999
MIN	1.48	3.51	3.39	9.95	11.5	12.4	3.69	1.67	.32	.73	.15	.51
(WY)	1968	1966	1966	1957	1957	1967	1967	1995	1960	1957	1957	1963

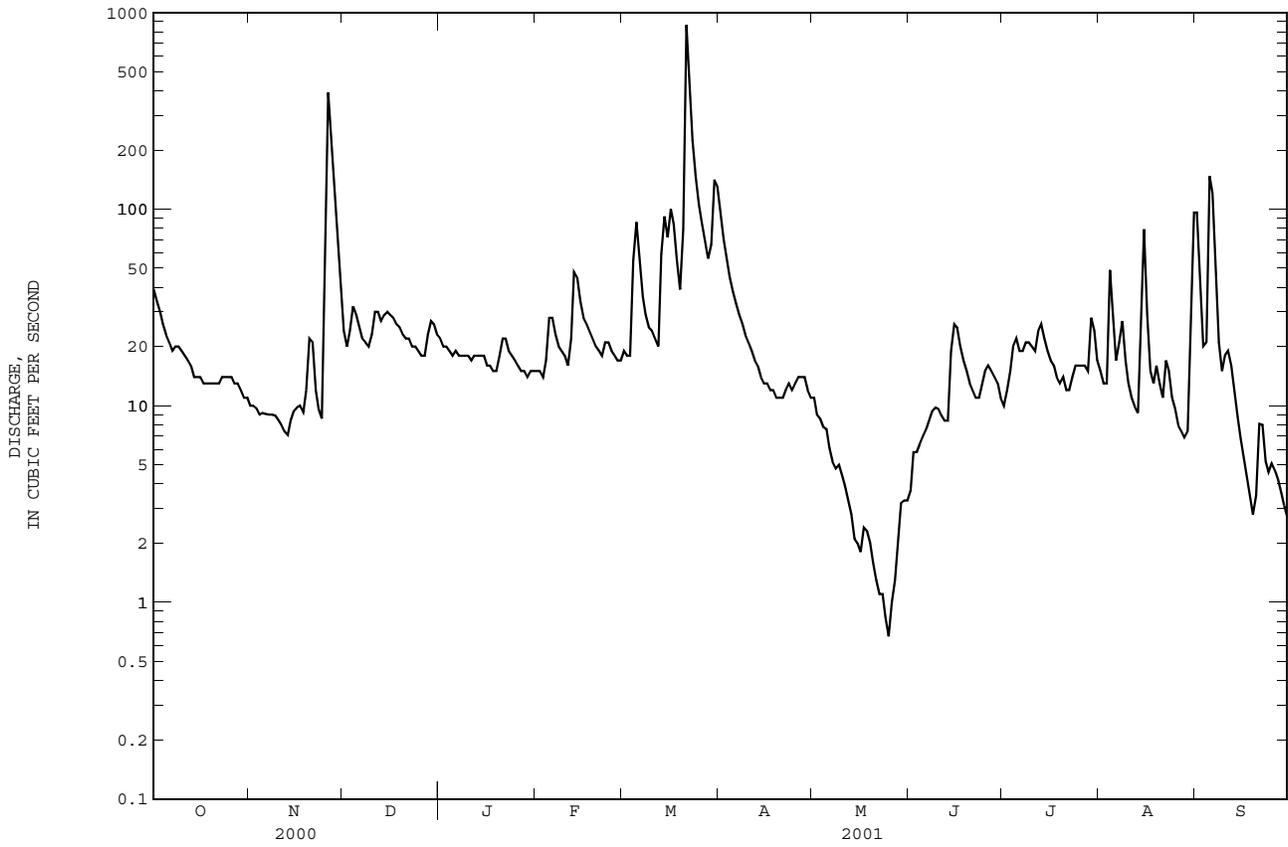
SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1957 - 2001<sup>®</sup>

ANNUAL TOTAL	16273.8	9917.01	
ANNUAL MEAN	44.5	27.2	38.5
HIGHEST ANNUAL MEAN			80.6
LOWEST ANNUAL MEAN			15.6
HIGHEST DAILY MEAN	822	Sep 24	863
LOWEST DAILY MEAN	1.2	May 20	.67
ANNUAL SEVEN-DAY MINIMUM	1.6	May 15	1.0
MAXIMUM PEAK FLOW			1020
MAXIMUM PEAK STAGE			8.29
INSTANTANEOUS LOW FLOW			.53*
ANNUAL RUNOFF (CFSM)	2.06		1.26
ANNUAL RUNOFF (INCHES)	28.03		17.08
10 PERCENT EXCEEDS	98		46
50 PERCENT EXCEEDS	18		16
90 PERCENT EXCEEDS	8.6		5.2

<sup>®</sup> See PERIOD OF RECORD.

\* See REMARKS.

02105900 HOOD CREEK NEAR LELAND, NC--Continued



CAPE FEAR RIVER BASIN

02106500 BLACK RIVER NEAR TOMAHAWK, NC

LOCATION.--Lat 34°45'17", long 78°17'21", Sampson County, Hydrologic Unit 03030006, on left bank 30 ft upstream from bridge on State Highway 411, 0.2 mi downstream of Clear Run Swamp, and 3.8 mi northeast of Tomahawk.

DRAINAGE AREA.--676 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1951 to current year.

REVISED RECORDS.--WSP 1723: 1955(M). WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 24.61 ft above sea level. Nonrecording gage on downstream side of bridge Oct. 1, 1951 to June 29, 1961. Water-stage recorder was at present site at datum of 24.26 ft June 30, 1961 to Sept. 30, 1964. Satellite telemetry at station

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum gage height for period of record, from floodmarks.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1928 reached a stage of 22.0 ft, present datum; discharge, 14,500 ft<sup>3</sup>/s and floods in 1945 and 1948 reached a stage of 17.6 ft, present datum; discharge, 5,420 ft<sup>3</sup>/s, from information furnished by North Carolina State Highway Commission.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1040	142	696	429	286	561	1570	162	308	261	522	692
2	995	e143	633	401	273	512	1550	150	583	218	490	788
3	948	139	597	383	270	471	1380	139	838	184	422	663
4	872	140	609	364	277	583	1140	128	746	296	384	570
5	782	146	614	352	365	888	1010	117	632	272	322	534
6	700	154	586	348	472	897	944	109	536	231	267	502
7	626	154	543	349	449	774	879	100	465	205	230	474
8	554	154	504	347	410	662	786	89	419	176	201	449
9	496	151	475	346	377	586	686	81	375	166	172	431
10	452	153	467	345	350	540	610	72	340	165	146	559
11	406	155	522	330	331	499	533	66	305	156	122	604
12	363	150	598	321	325	463	477	62	261	164	111	575
13	314	146	669	329	417	438	435	77	222	217	106	475
14	277	156	616	340	493	421	399	97	292	241	321	419
15	253	213	615	342	477	425	369	77	1090	226	594	384
16	238	254	575	362	453	657	337	75	1480	183	561	352
17	221	255	547	354	463	703	313	106	1660	150	417	320
18	208	267	567	343	722	616	298	127	1490	129	370	294
19	198	285	552	329	791	538	286	128	1290	111	1150	270
20	191	447	529	340	691	491	268	119	1090	99	1480	249
21	182	596	513	395	592	986	256	106	957	88	1620	233
22	174	539	490	413	567	1460	248	95	885	79	1670	238
23	169	486	466	385	781	1690	233	85	826	73	1670	232
24	167	439	441	368	877	1850	220	78	739	76	1610	215
25	158	419	425	347	807	1910	220	73	587	104	1460	289
26	155	645	399	330	716	1740	237	69	562	127	1190	357
27	155	842	385	323	638	1380	237	65	501	131	858	322
28	156	817	429	315	587	1160	211	81	409	202	643	292
29	146	821	504	302	---	1110	193	203	357	259	544	277
30	142	783	488	290	---	1310	175	352	310	327	505	261
31	140	---	468	293	---	1500	---	329	---	509	520	---
TOTAL	11878	10191	16522	10815	14257	27821	16500	3617	20555	5825	20678	12320
MEAN	383	340	533	349	509	897	550	117	685	188	667	411
MAX	1040	842	696	429	877	1910	1570	352	1660	509	1670	788
MIN	140	139	385	290	270	421	175	62	222	73	106	215
CFSM	.57	.50	.79	.52	.75	1.33	.81	.17	1.01	.28	.99	.61
IN.	.65	.56	.91	.60	.78	1.53	.91	.20	1.13	.32	1.14	.68

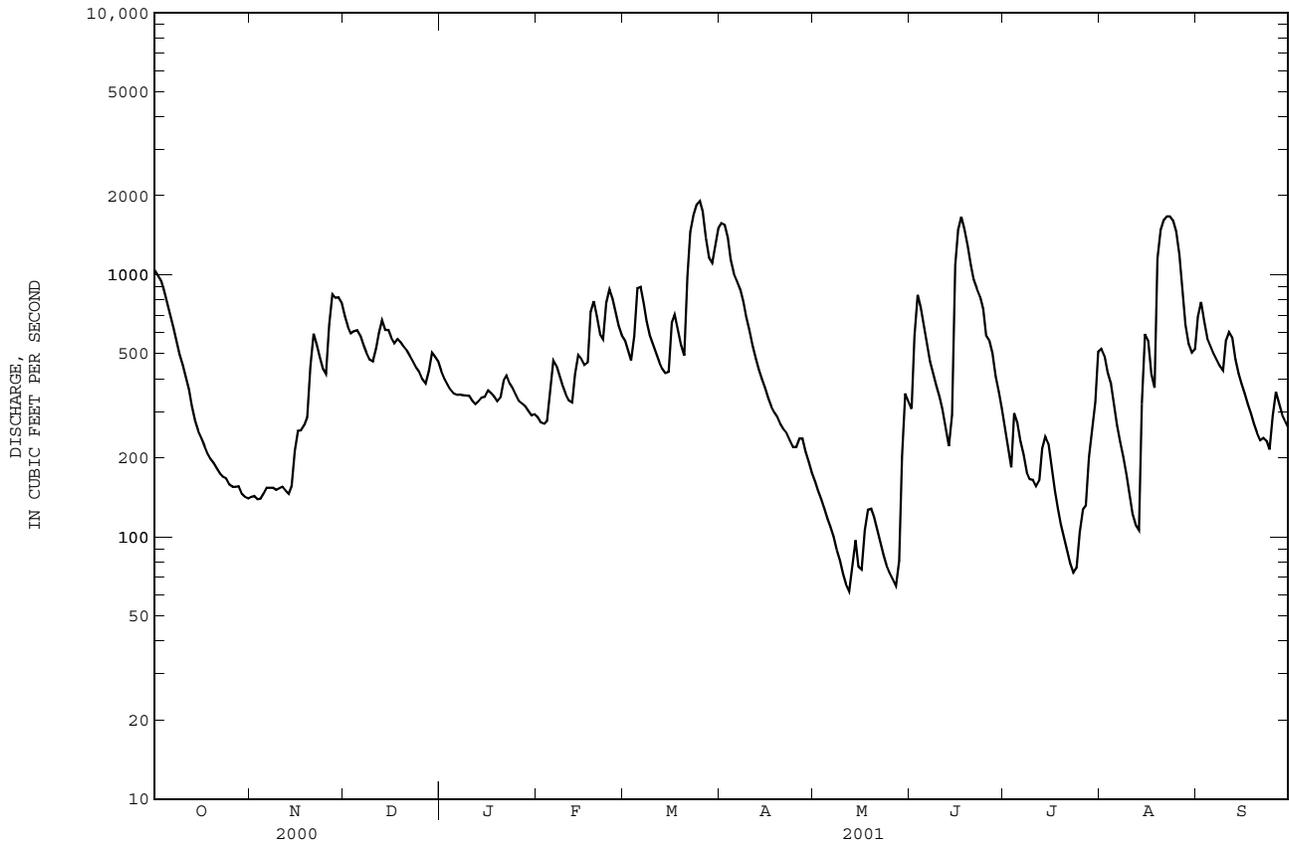
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2001, BY WATER YEAR (WY)

	543	501	713	1151	1334	1433	1056	531	477	480	692	728
MEAN	543	501	713	1151	1334	1433	1056	531	477	480	692	728
MAX	4421	1412	2164	2903	4212	3410	3070	1687	3089	2088	2810	5812
(WY)	2000	1963	1993	1993	1998	1983	1973	1978	1995	1965	1974	1999
MIN	29.6	57.1	238	287	448	460	225	117	113	68.0	25.2	13.4
(WY)	1955	1974	1989	1986	1989	1981	1981	2001	1985	1998	1954	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1952 - 2001
ANNUAL TOTAL	274573	170979	
ANNUAL MEAN	750	468	801
HIGHEST ANNUAL MEAN			1300
LOWEST ANNUAL MEAN			327
HIGHEST DAILY MEAN	2950	Feb 3	27300
LOWEST DAILY MEAN	126	May 21	8.9
ANNUAL SEVEN-DAY MINIMUM	142	Oct 29	9.9
MAXIMUM PEAK FLOW			28500
MAXIMUM PEAK STAGE		10.88	27.14*
INSTANTANEOUS LOW FLOW		60	8.5
ANNUAL RUNOFF (CFSM)	1.11	.69	1.18
ANNUAL RUNOFF (INCHES)	15.11	9.41	16.09
10 PERCENT EXCEEDS	1600	892	1780
50 PERCENT EXCEEDS	582	370	520
90 PERCENT EXCEEDS	170	129	107

e Estimated.  
\* See REMARKS.

02106500 BLACK RIVER NEAR TOMAHAWK, NC--Continued



## CAPE FEAR RIVER BASIN

02108000 NORTHEAST CAPE FEAR RIVER NEAR CHINQUAPIN, NC

LOCATION.--Lat 34°49'40", long 77°50'00", Duplin County, Hydrologic Unit 03030007, on right bank 540 ft downstream of bridge on State Highway 41, 0.5 mi downstream of Muddy Creek, and 1.2 mi west of Chinquapin.

DRAINAGE AREA.--599 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1940 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 17.28 ft above sea level (levels by U.S. Army Corps of Engineers). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Oct. 11, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1908 reached a stage of 22.6 ft at old bridge site 1,000 ft upstream from gage. Flood in 1928 reached a stage 0.8 ft lower than the flood in 1908, from information by North Carolina State Highway Commission.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1720	91	561	395	282	690	1840	285	372	306	902	505
2	1480	89	503	382	275	647	1900	267	774	264	956	494
3	1280	89	481	369	270	604	1800	247	1090	221	880	473
4	1100	89	517	355	271	752	1640	228	1150	186	775	428
5	932	88	563	343	356	1030	1480	212	1110	166	671	380
6	771	88	585	338	451	1100	1350	189	947	159	561	344
7	636	92	575	334	491	1060	1210	164	677	136	454	314
8	529	93	551	328	489	976	1090	141	461	109	341	292
9	452	95	522	324	461	857	978	118	364	88	261	274
10	398	93	509	318	425	745	871	103	333	81	209	260
11	355	90	530	310	388	647	779	92	320	76	152	276
12	324	87	553	302	361	570	699	84	289	71	e150	282
13	298	86	585	302	389	524	635	101	258	69	e300	280
14	280	88	610	302	425	482	580	116	234	58	e400	273
15	262	105	661	303	441	475	529	110	322	49	e550	254
16	244	139	666	311	446	633	488	158	552	43	e650	215
17	229	165	657	320	472	706	455	199	798	37	644	171
18	211	189	627	315	594	714	434	208	930	34	637	138
19	200	221	581	312	665	659	420	218	1010	29	953	110
20	185	297	543	319	685	604	402	214	1030	26	1160	99
21	170	364	505	353	657	2270	386	191	983	25	1280	100
22	158	403	475	377	633	4640	364	161	934	25	1310	99
23	147	425	450	382	785	5590	342	133	881	24	1310	97
24	137	427	426	375	853	5560	319	111	829	30	1320	96
25	122	423	403	364	862	5140	309	93	744	32	1320	118
26	113	584	384	345	838	4480	328	78	631	41	1280	150
27	106	679	370	324	779	3670	352	80	507	61	1160	175
28	104	713	382	307	719	2800	358	107	417	71	980	185
29	100	697	408	297	---	2070	344	213	370	99	758	191
30	96	633	413	286	---	1800	312	345	340	343	600	192
31	94	---	408	284	---	1760	---	383	---	695	505	---
TOTAL	13233	7722	16004	10276	14763	54255	22994	5349	19657	3654	23429	7265
MEAN	427	257	516	331	527	1750	766	173	655	118	756	242
MAX	1720	713	666	395	862	5590	1900	383	1150	695	1320	505
MIN	94	86	370	284	270	475	309	78	234	24	150	96
CFSM	.71	.43	.86	.55	.88	2.92	1.28	.29	1.09	.20	1.26	.40
IN.	.82	.48	.99	.64	.92	3.37	1.43	.33	1.22	.23	1.46	.45

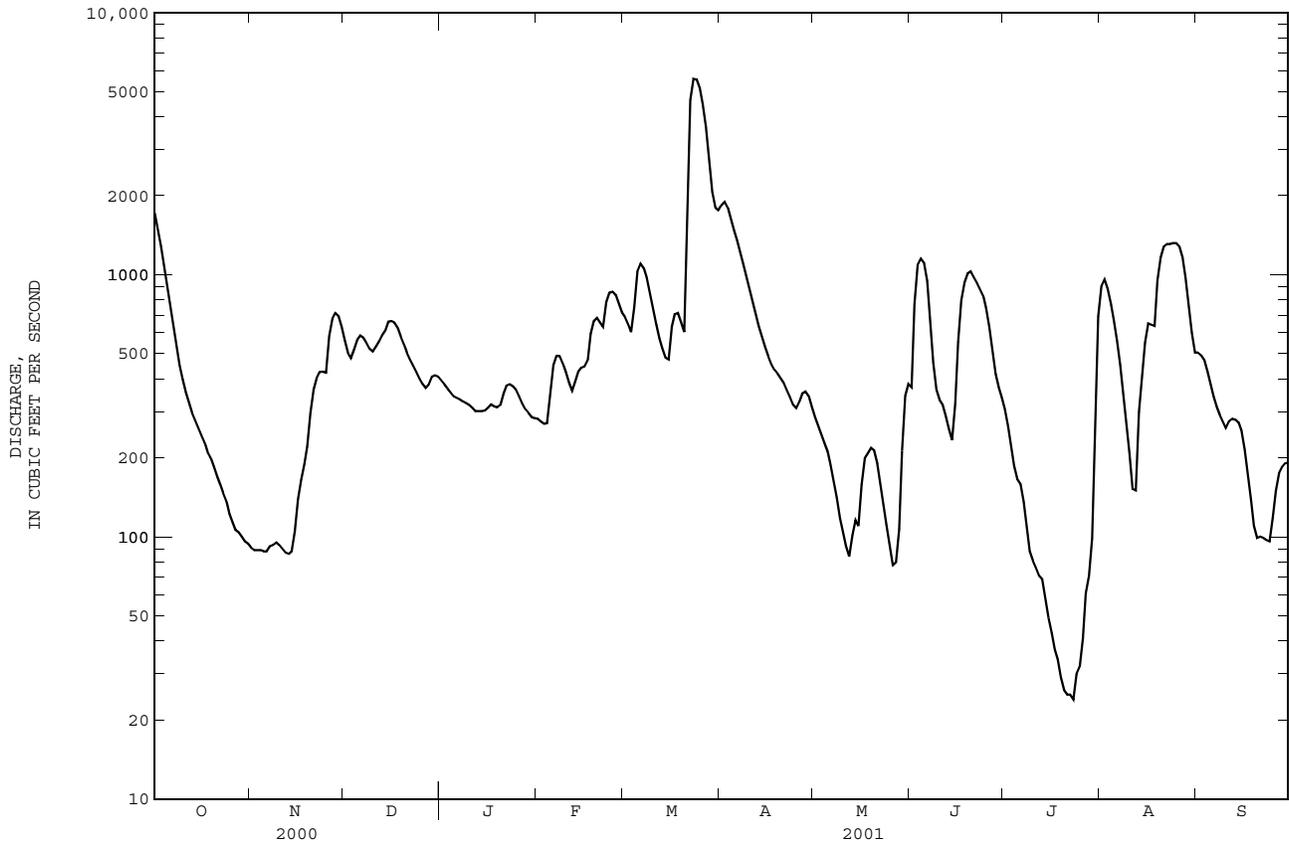
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

MEAN	467	425	662	1070	1216	1235	839	463	397	541	672	692
MAX	3237	1852	2225	2548	4399	3506	2958	1901	1953	3922	2681	7329
(WY)	2000	1948	1949	1993	1998	1983	1973	1969	1961	1962	1955	1999
MIN	7.59	15.6	59.6	158	249	261	145	64.9	17.3	25.9	13.8	11.0
(WY)	1955	1955	1955	1955	1955	1955	1986	1995	1994	1954	1954	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1940 - 2001	
ANNUAL TOTAL	260453		198601			
ANNUAL MEAN	712		544		722	
HIGHEST ANNUAL MEAN					1243	
LOWEST ANNUAL MEAN					279	
HIGHEST DAILY MEAN	3320	Jan 28	5590	Mar 23	29900	Sep 18 1999
LOWEST DAILY MEAN	30	Jul 21	24	Jul 23	5.3	Oct 10 1954
ANNUAL SEVEN-DAY MINIMUM	38	Jul 15	27	Jul 19	5.5	Oct 8 1954
MAXIMUM PEAK FLOW			5680	Mar 23	30700	Sep 18 1999
MAXIMUM PEAK STAGE			14.02	Mar 23	23.51	Sep 18 1999
INSTANTANEOUS LOW FLOW			22	Jul 22	5.3*	Oct 10 1954
ANNUAL RUNOFF (CFSM)	1.19		.91		1.21	
ANNUAL RUNOFF (INCHES)	16.18		12.33		16.38	
10 PERCENT EXCEEDS	1570		1040		1700	
50 PERCENT EXCEEDS	481		370		404	
90 PERCENT EXCEEDS	90		93		59	

e Estimated.

02108000 NORTHEAST CAPE FEAR RIVER NEAR CHINQUAPIN, NC--Continued



## CAPE FEAR RIVER BASIN

02108566 NORTHEAST CAPE FEAR RIVER NEAR BURGAW, NC

LOCATION.--Lat 34°35'55", long 77°52'32", Pender County, Hydrologic Unit 03030007, on left bank at State Highway 53 bridge, 3.9 mi above Holly Shelter Creek and 4.5 mi east of Burgaw.

DRAINAGE AREA.--920 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1999 to September 2000. Records for September 1999 are unpublished and available in the USGS District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is mean sea level. Satellite telemetry at station.

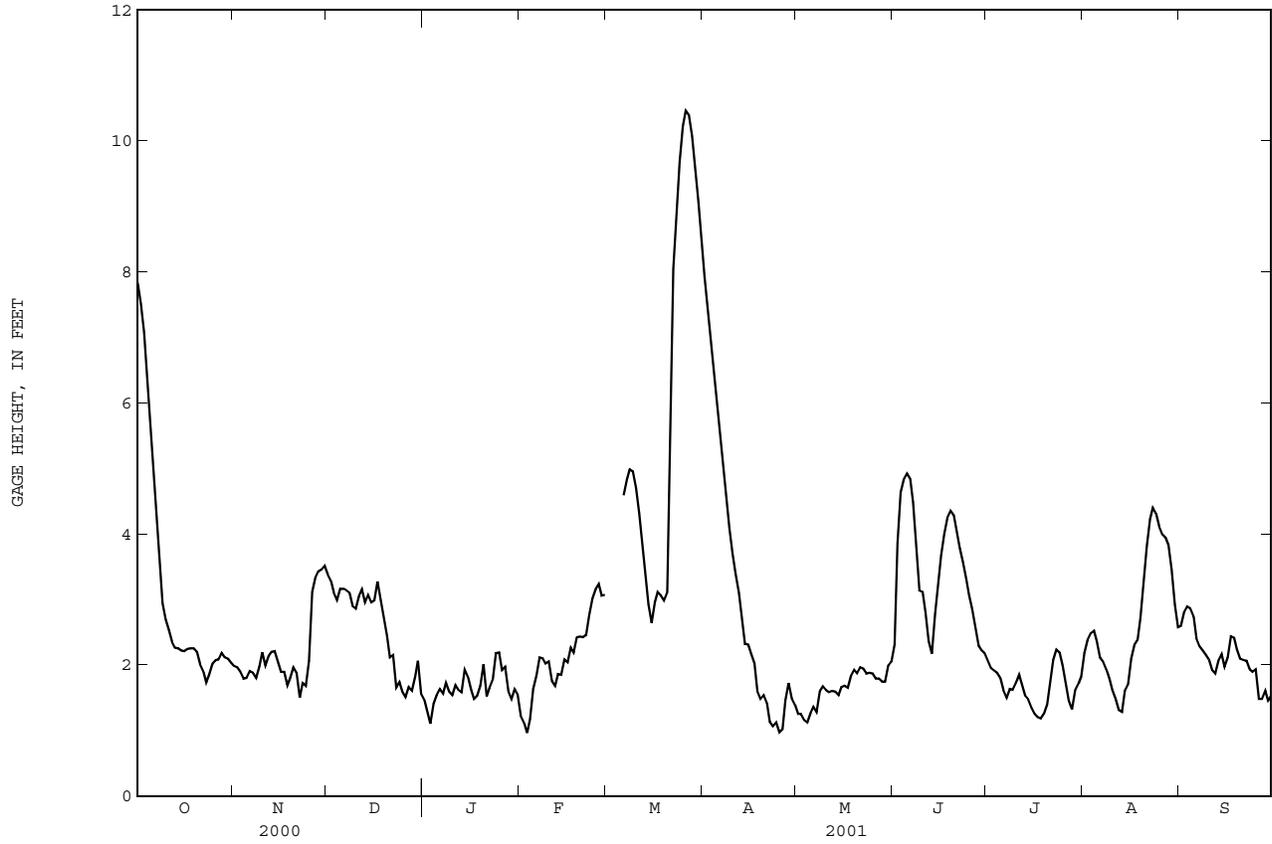
EXTREMES FOR PERIOD OF RECORD.--Maximum, 22.77 ft, Sept. 20, 1999; minimum, -0.01 ft, Apr. 26, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum, 10.48 ft, Mar. 26, 27; minimum -0.01 ft, Apr. 26.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

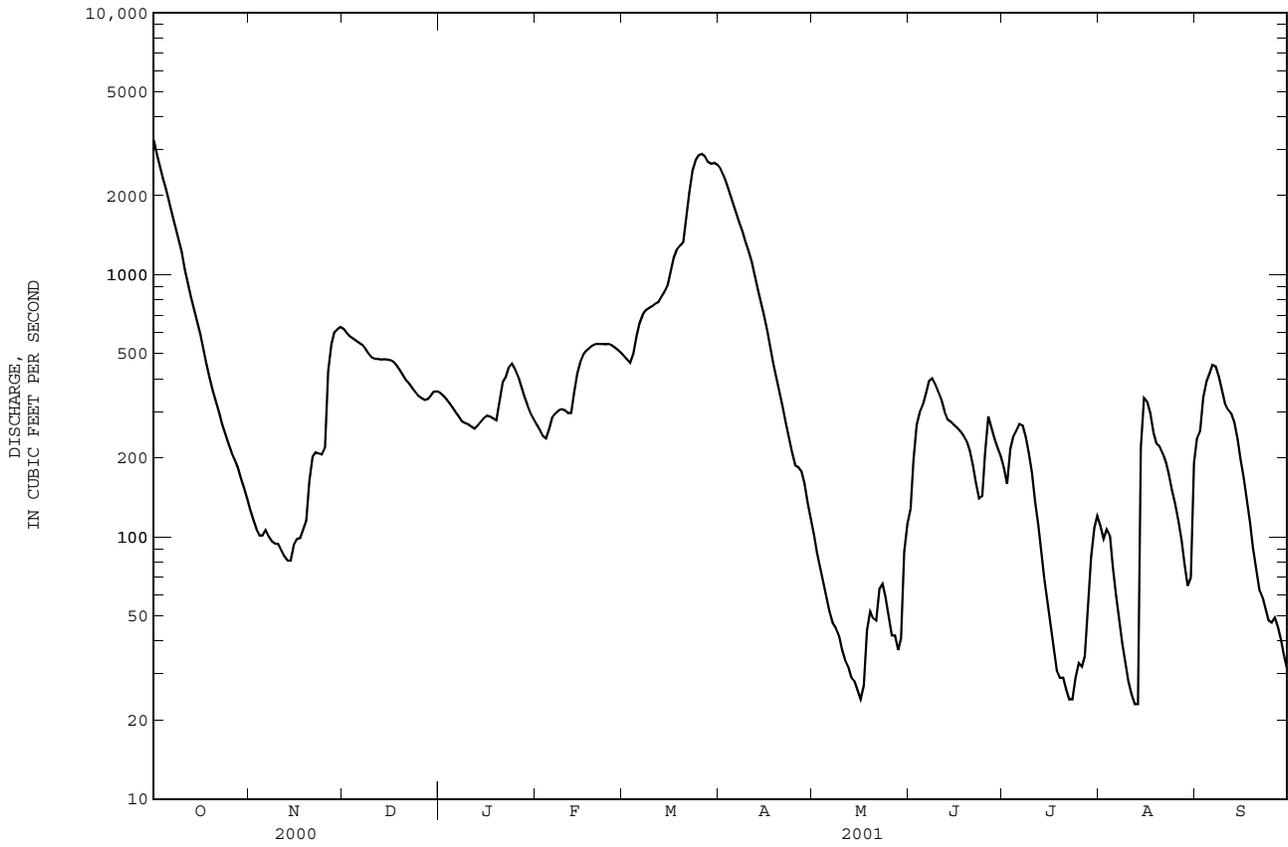
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.83	1.98	3.38	1.47	1.22	---	7.93	1.25	2.31	2.06	2.18	2.59
2	7.51	1.96	3.28	1.27	1.12	---	7.48	1.25	3.85	1.95	2.38	2.80
3	7.08	1.89	3.10	1.10	.96	---	7.02	1.16	4.63	1.91	2.48	2.89
4	6.51	1.79	2.99	1.40	1.17	---	6.53	1.12	4.83	1.88	2.52	2.86
5	5.82	1.80	3.16	1.54	1.63	---	6.01	1.26	4.92	1.80	2.36	2.74
6	5.09	1.90	3.16	1.63	1.83	4.59	5.52	1.36	4.84	1.61	2.11	2.40
7	4.29	1.88	3.14	1.56	2.11	4.82	5.05	1.28	4.48	1.50	2.05	2.28
8	3.54	1.80	3.10	1.72	2.10	4.98	4.56	1.59	3.85	1.63	1.93	2.22
9	2.94	1.97	2.90	1.59	2.02	4.95	4.09	1.67	3.13	1.62	1.78	2.15
10	2.69	2.19	2.86	1.54	2.05	4.70	3.70	1.61	3.11	1.72	1.61	2.08
11	2.53	1.99	3.05	1.69	1.75	4.31	3.38	1.58	2.80	1.85	1.48	1.92
12	2.35	2.13	3.15	1.62	1.68	3.82	3.10	1.60	2.36	1.68	1.31	1.87
13	2.26	2.20	2.95	1.58	1.86	3.42	2.75	1.59	2.17	1.53	1.28	2.06
14	2.25	2.21	3.07	1.93	1.85	2.92	2.32	1.54	2.77	1.47	1.60	2.16
15	2.22	2.05	2.95	1.82	2.08	2.64	2.31	1.66	3.25	1.35	1.70	1.97
16	2.21	1.89	2.98	1.62	2.04	2.95	2.16	1.68	3.67	1.25	2.09	2.11
17	2.24	1.89	3.27	1.48	2.26	3.11	2.02	1.65	4.00	1.20	2.30	2.43
18	2.25	1.69	2.98	1.53	2.19	3.06	1.60	1.83	4.25	1.18	2.38	2.41
19	2.25	1.80	2.70	1.68	2.42	2.98	1.48	1.92	4.35	1.25	2.72	2.23
20	2.20	1.96	2.44	2.01	2.43	3.10	1.54	1.87	4.28	1.39	3.28	2.09
21	2.01	1.88	2.11	1.52	2.42	6.49	1.42	1.96	4.05	1.76	3.81	2.07
22	1.90	1.50	2.15	1.65	2.45	8.04	1.13	1.94	3.77	2.07	4.22	2.06
23	1.73	1.72	1.65	1.77	2.76	8.92	1.06	1.87	3.56	2.23	4.40	1.93
24	1.86	1.68	1.73	2.18	3.01	9.68	1.12	1.88	3.31	2.19	4.31	1.89
25	2.02	2.06	1.59	2.19	3.15	10.22	.97	1.87	3.06	1.98	4.11	1.93
26	2.07	3.11	1.51	1.92	3.23	10.46	1.02	1.79	2.84	1.69	3.99	1.48
27	2.08	3.33	1.66	1.97	3.06	10.39	1.46	1.79	2.57	1.45	3.94	1.48
28	2.18	3.42	1.60	1.60	3.07	10.07	1.72	1.74	2.29	1.32	3.83	1.60
29	2.11	3.45	1.81	1.48	---	9.58	1.49	1.74	2.22	1.61	3.45	1.45
30	2.09	3.51	2.06	1.63	---	9.06	1.39	1.99	2.18	1.71	2.92	1.53
31	2.03	---	1.56	1.55	---	8.47	---	2.05	---	1.82	2.57	---
MEAN	3.17	2.15	2.58	1.65	2.14	---	3.11	1.65	3.46	1.67	2.68	2.12
MAX	7.83	3.51	3.38	2.19	3.23	---	7.93	2.05	4.92	2.23	4.40	2.89
MIN	1.73	1.50	1.51	1.10	.96	---	.97	1.12	2.17	1.18	1.28	1.45

02108566 NORTHEAST CAPE FEAR RIVER NEAR BURGAW, NC--Continued



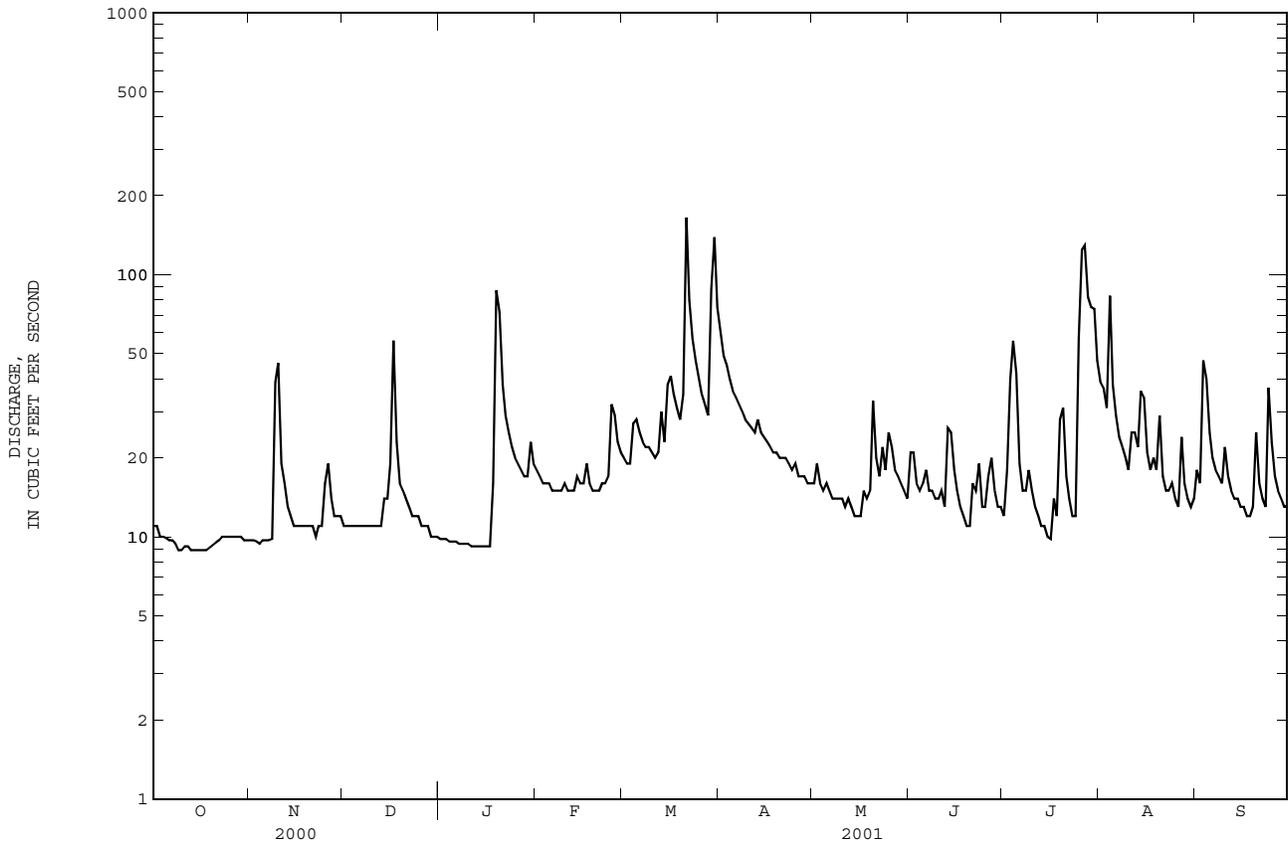


02109500 WACCAMAW RIVER AT FREELAND, NC--Continued





02111000 YADKIN RIVER AT PATTERSON, NC--Continued



PEE DEE RIVER BASIN

02111000 YADKIN RIVER AT PATTERSON, NC--Continued

PRECIPITATION RECORDS

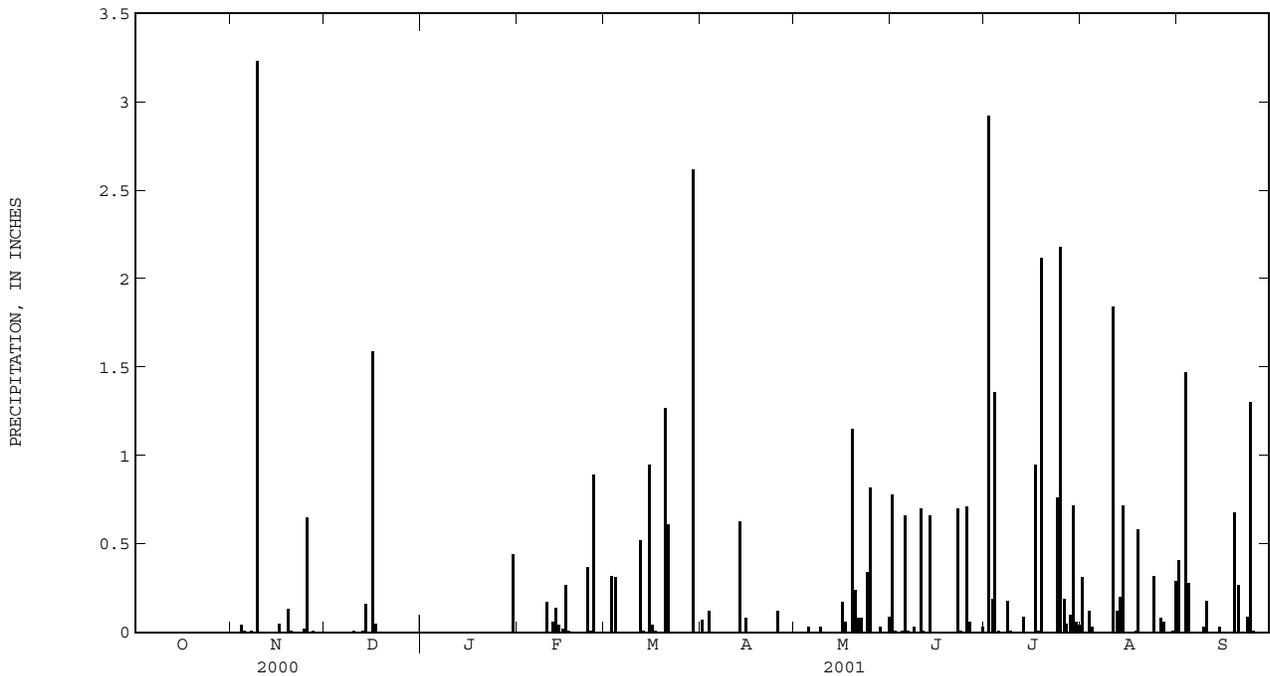
PERIOD OF RECORD.--October 1999 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at site.

REMARKS.--Gage is operated in cooperation with U.S. Army Corps of Engineers, Wilmington District. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.07	.00	.78	.00	.31	.41
2	.00	.00	.00	.00	.00	.00	.00	.00	.01	2.92	.00	.00
3	.00	.00	.00	.00	.00	.32	.12	.00	.00	.19	.12	1.47
4	.00	.04	.00	.00	.00	.31	.00	.00	.01	1.36	.03	.28
5	.00	.01	.00	.00	.00	.00	.00	.03	.66	.01	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.03	.18	.00	.00
9	.00	3.23	.00	.00	.00	.00	.00	.03	.00	.01	.00	.03
10	.00	.00	.01	.00	.17	.00	.00	.00	.70	.00	.00	.18
11	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	1.84	.00
12	.00	.00	.00	.00	.06	.52	.00	.00	.00	.00	.12	.00
13	.00	.00	.01	.00	.14	.01	.63	.00	.66	.09	.20	.00
14	.00	.00	.16	.00	.04	.00	.00	.00	.00	.00	.72	.03
15	.00	.00	.00	.00	.02	.95	.08	.00	.00	.00	.00	.00
16	.00	.05	1.59	.00	.27	.04	.00	.17	.00	.00	.00	.00
17	.00	.00	.05	.00	.01	.01	.00	.06	.00	.95	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.00
19	.00	.13	.00	.00	.00	.00	.00	1.15	.00	2.12	.58	.68
20	.00	.01	.00	.00	.00	1.27	.00	.24	.00	.00	.00	.27
21	.00	.00	.00	.00	.00	.61	.00	.08	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.08	.70	.00	.00	.00
23	.00	.00	.00	.00	.37	.00	.00	.00	.01	.00	.00	.09
24	.00	.02	.00	.00	.01	.00	.00	.34	.00	.76	.32	1.30
25	.00	.65	.00	.00	.89	.00	.12	.82	.71	2.18	.00	.01
26	.00	.00	.00	.00	.00	.00	.00	.00	.06	.19	.08	.00
27	.00	.01	.00	.00	.00	.00	.00	.00	.00	.05	.06	.00
28	.00	.00	.00	.00	.00	.00	.00	.03	.00	.10	.00	.00
29	.00	.00	.00	.00	---	2.62	.00	.00	.00	.72	.00	.00
30	.00	.00	.00	.44	---	.00	.00	.00	.03	.06	.01	.00
31	.00	---	.00	.00	---	.00	---	.09	---	.04	.29	---
TOTAL	0.00	4.16	1.82	0.44	1.98	6.66	1.02	3.12	4.38	11.94	4.69	4.75



361210081333001 TRIPLETT RAINGAGE

LOCATION.--Lat 36°12'10", long 81°33'30", Watauga County, Hydrologic Unit 03040101, 60 ft west of Secondary Road 1570, 0.3 mi north of Triplett, and 1.7 mi south of Blue Ridge Parkway.

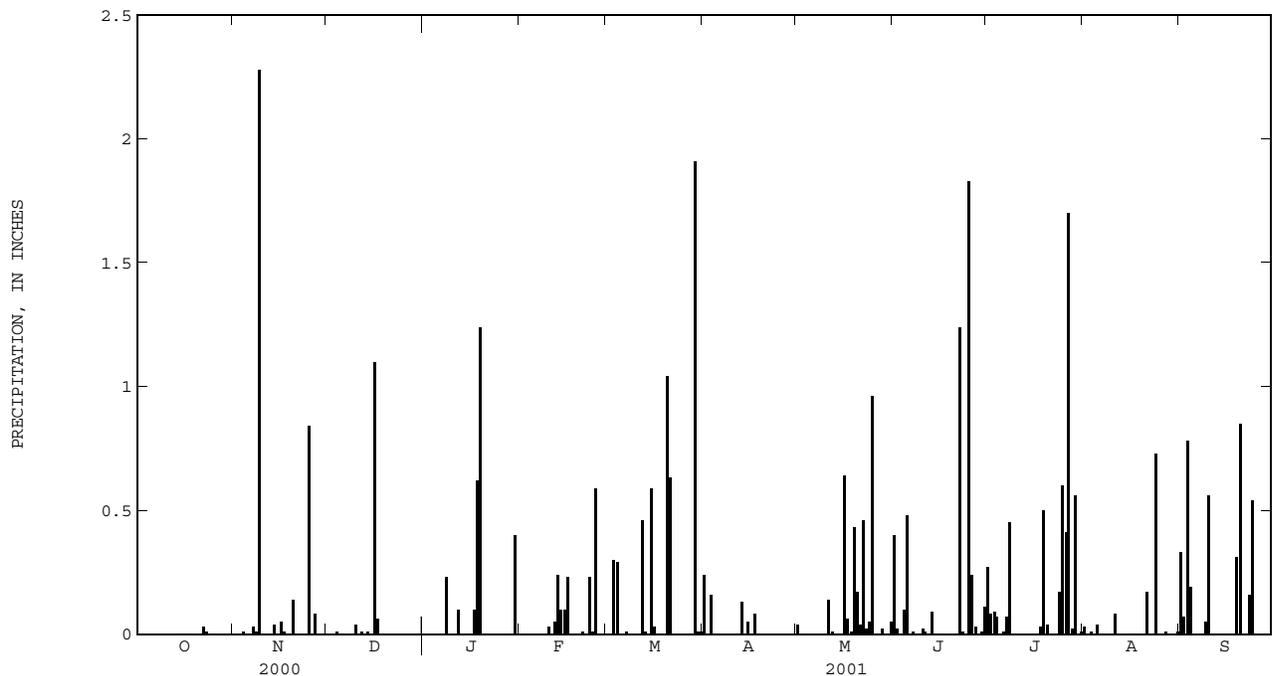
PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at site.

REMARKS.--Gage is operated in cooperation with U.S. Army Corps of Engineers, Wilmington District. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.24	.04	.40	.27	.03	.33
2	.00	.00	.00	.00	.00	.00	.00	.00	.02	.08	.00	.07
3	.00	.00	.00	.00	.00	.30	.16	.00	.00	.09	.01	.78
4	.00	.01	.01	.00	.00	.29	.00	.00	.10	.07	.00	.19
5	.00	.00	.00	.00	.00	.00	.00	.00	.48	.00	.04	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
7	.00	.03	.00	.00	.00	.01	.00	.00	.01	.07	.00	.00
8	.00	.01	.00	.23	.00	.00	.00	.00	.00	.45	.00	.00
9	.00	2.28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
10	.00	.00	.04	.00	.03	.00	.00	.00	.02	.00	.00	.56
11	.00	.00	.00	.00	.00	.00	.00	.14	.01	.00	.08	.00
12	.00	.00	.01	.10	.05	.46	.00	.01	.00	.00	.00	.00
13	.00	.00	.00	.00	.24	.01	.13	.00	.09	.00	.00	.00
14	.00	.04	.01	.00	.10	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.10	.59	.05	.00	.00	.00	.00	.00
16	.00	.05	1.10	.00	.23	.03	.00	.64	.00	.00	.00	.00
17	.00	.01	.06	.10	.00	.00	.08	.06	.00	.00	.00	.00
18	.00	.00	.00	.62	.00	.00	.00	.01	.00	.03	.00	.00
19	.00	.00	.00	1.24	.00	.00	.00	.43	.00	.50	.00	.31
20	.00	.14	.00	.00	.00	1.04	.00	.17	.00	.04	.00	.85
21	.00	.00	.00	.00	.01	.63	.00	.04	.00	.00	.17	.00
22	.03	.00	.00	.00	.00	.00	.00	.46	1.24	.00	.00	.00
23	.01	.00	.00	.00	.23	.00	.00	.02	.01	.00	.00	.16
24	.00	.00	.00	.00	.01	.00	.00	.05	.00	.17	.73	.54
25	.00	.84	.00	.00	.59	.00	.00	.96	1.83	.60	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.24	.41	.00	.00
27	.00	.08	.00	.00	.00	.00	.00	.00	.03	1.70	.01	.00
28	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02	.00	.00
29	.00	.00	.00	.00	---	1.91	.00	.00	.01	.56	.00	.00
30	.00	.00	.00	.40	---	.01	.00	.00	.11	.00	.00	.00
31	.00	---	.00	.00	---	.01	---	.05	---	.01	.01	---
TOTAL	0.04	3.49	1.23	2.69	1.59	5.29	0.66	3.10	4.60	5.08	1.08	3.84



## PEE DEE RIVER BASIN

02111180 ELK CREEK AT ELKVILLE, NC

LOCATION.--Lat 36°04'16", long 81°24'13", Wilkes County, Hydrologic Unit 03040101, on left bank 700 ft upstream from bridge on State Highway 268 in Elkville, and 3,400 ft upstream from mouth.

DRAINAGE AREA.--48.1 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1965 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 1,082.40 ft above sea level. Satellite telemetry at station.

REMARKS --Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record, from rating curve extended above 3,200 ft<sup>3</sup>/s on basis of contracted-opening computation. Minimum discharge for period of record, result of freezeup. Minimum discharge for current water year, result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Aug. 13, 1940, reached a stage of about 22 ft; discharge, about 70,000 ft<sup>3</sup>/s, on basis of several contracted-opening and slope-area measurements. A discharge of 6.0 ft<sup>3</sup>/s was measured Sept. 19, 1956.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	13	16	e14	24	30	125	28	34	26	98	28
2	15	14	16	e14	23	28	97	29	41	26	82	30
3	15	14	16	e14	23	27	84	26	28	112	60	37
4	15	14	16	e14	22	42	75	25	24	70	53	52
5	14	14	15	e14	21	46	67	24	24	93	44	37
6	14	14	16	e13	21	41	62	30	26	45	38	30
7	13	14	15	e13	20	37	59	26	26	34	34	28
8	13	15	15	e13	20	33	56	25	24	31	32	26
9	13	41	15	e13	20	32	54	25	23	36	30	26
10	14	98	15	e13	21	30	51	24	21	30	27	36
11	14	29	15	e13	20	28	49	24	22	27	28	41
12	14	21	15	e13	20	29	48	26	21	25	44	29
13	13	19	15	e13	20	42	51	26	28	24	45	26
14	12	18	18	e13	23	34	47	24	39	22	45	25
15	12	16	21	e13	24	49	45	24	25	21	32	25
16	12	16	22	e13	24	68	44	24	22	20	29	24
17	13	16	83	e13	28	58	42	47	20	20	29	24
18	13	16	e30	e20	24	51	43	36	19	20	31	23
19	13	15	e24	129	22	46	40	51	19	22	31	23
20	13	16	e21	131	22	44	40	81	19	38	41	39
21	14	16	e19	62	22	242	40	49	23	29	28	34
22	14	16	e17	46	23	155	34	44	25	25	25	26
23	14	16	e17	37	23	101	33	60	46	23	24	24
24	14	16	e16	31	25	76	33	43	26	24	32	70
25	14	19	e16	29	42	62	33	51	30	50	29	49
26	14	29	e15	26	51	55	31	60	141	168	25	30
27	15	21	e15	27	39	49	29	45	81	264	28	26
28	14	19	e15	26	34	44	29	38	43	177	30	23
29	14	18	e14	24	---	147	28	35	31	123	25	20
30	13	17	e14	30	---	401	27	30	27	115	24	19
31	13	---	e14	27	---	176	---	28	---	105	24	---
TOTAL	424	620	591	871	701	2303	1496	1108	978	1845	1147	930
MEAN	13.7	20.7	19.1	28.1	25.0	74.3	49.9	35.7	32.6	59.5	37.0	31.0
MAX	16	98	83	131	51	401	125	81	141	264	98	70
MIN	12	13	14	13	20	27	27	24	19	20	24	19
CFSM	.28	.43	.40	.58	.52	1.54	1.04	.74	.68	1.24	.77	.64
IN.	.33	.48	.46	.67	.54	1.78	1.16	.86	.76	1.43	.89	.72

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2001, BY WATER YEAR (WY)

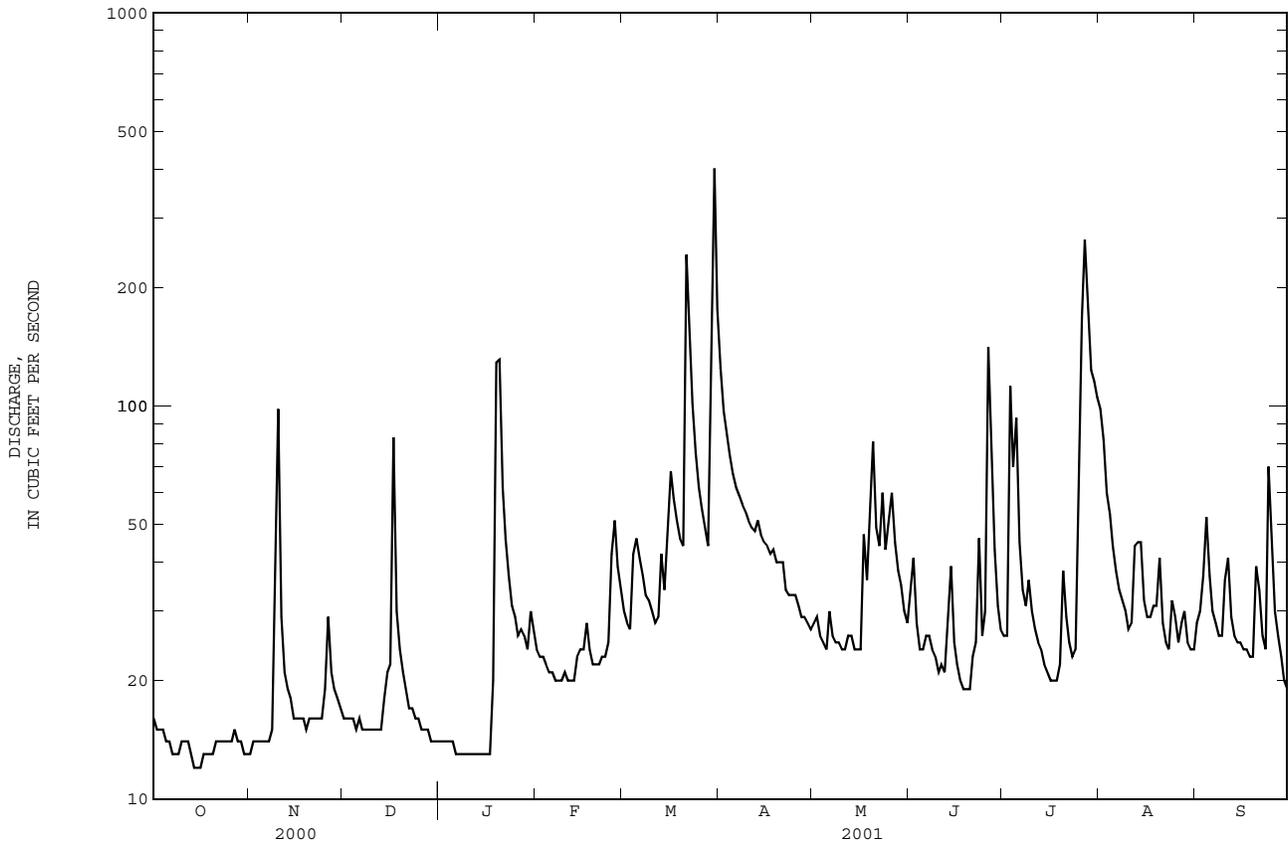
	MEAN	MAX	(WY)	MIN	(WY)
74.8	88.2	86.1	105	120	149
141	110	98.6	68.8	78.9	62.5
298	365	193	323	250	317
379	291	226	185	384	257
1991	1978	1974	1995	1966	1993
1980	1973	1992	1989	1994	1979
13.7	19.8	19.1	22.5	25.0	47.9
49.9	35.7	21.7	17.6	18.9	21.0
2001	1982	2001	1981	2001	1988
2001	2001	1988	1988	1988	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1966 - 2001
ANNUAL TOTAL	15634	13014	
ANNUAL MEAN	42.7	35.7	98.5
HIGHEST ANNUAL MEAN			154
LOWEST ANNUAL MEAN			35.7
HIGHEST DAILY MEAN	461	Mar 20	5890
LOWEST DAILY MEAN	12	Oct 14	12
ANNUAL SEVEN-DAY MINIMUM	13	Oct 13	13
MAXIMUM PEAK FLOW			18700*
MAXIMUM PEAK STAGE		2.75	Mar 29
INSTANTANEOUS LOW FLOW		8.8*	Jan 10
ANNUAL RUNOFF (CFSM)	.89	.74	2.05
ANNUAL RUNOFF (INCHES)	12.09	10.06	27.82
10 PERCENT EXCEEDS	83	60	169
50 PERCENT EXCEEDS	32	26	68
90 PERCENT EXCEEDS	14	14	28

e Estimated.

\* See REMARKS.

02111180 ELK CREEK AT ELKVILLE, NC--Continued



## PEE DEE RIVER BASIN

02111391 W. KERR SCOTT RESERVOIR AT DAM NEAR WILKESBORO, NC

LOCATION.--Lat 36°08'04", long 80°13'30", Wilkes County, Hydrologic Unit 03040101, at W. Kerr Scott Dam on Yadkin River, 0.1 mi upstream from Fish Trap Creek, 2.0 mi upstream from Millers Creek, and 4.0 mi west of Wilkesboro.

DRAINAGE AREA.--367 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1962 to current year.

GAGE.--Water-stage recorder and staff gage at dam. Datum of gage is 1,000 ft above sea level. U.S. Army Corps of Engineers telephone and satellite telemetry at station.

REMARKS.--Records good except those for no gage-height. Lake is used for flood control, low-flow augmentation, recreation, and water supply. Some storage was affected during construction in July 1962, but gates were closed Aug. 22, 1962. Reservoir reached normal pool elevation on Jan. 19, 1963. Total capacity at elevation 1,075.0 ft is 6,664,680,000 ft<sup>3</sup> of which 4,878,720,000 ft<sup>3</sup> is controlled flood storage.

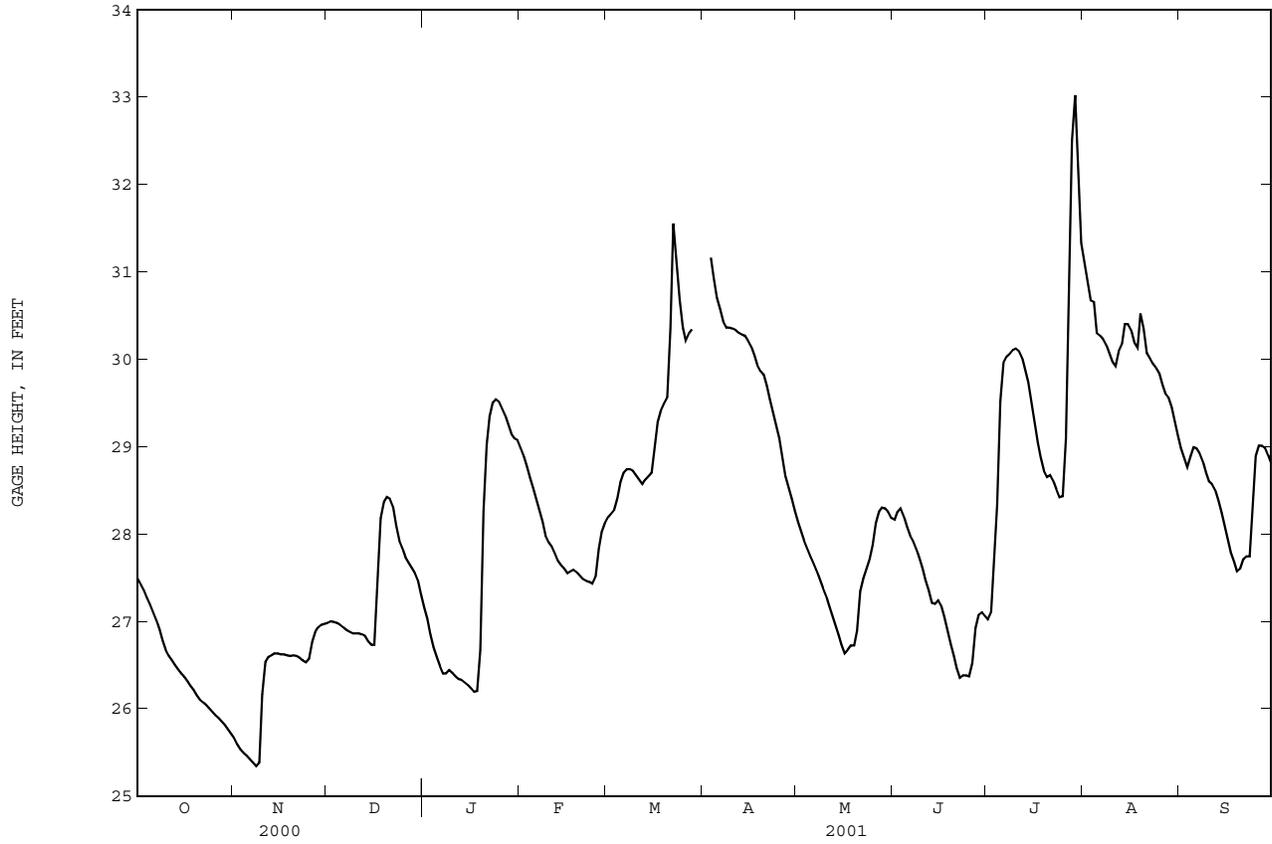
EXTREMES FOR PERIOD OF RECORD.--Maximum, 61.20 ft, Nov. 7, 1977; minimum, 19.85 ft, Nov. 26, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum, 33.20 ft, Jul. 29; minimum, 25.32 ft, Nov. 8, 9.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.49	25.66	26.98	27.15	28.98	28.19	---	28.13	28.16	27.02	31.10	28.98
2	27.42	25.59	27.00	27.02	28.88	28.23	---	28.03	28.25	27.10	30.88	28.87
3	27.35	25.53	26.99	26.85	28.76	28.27	31.16	27.92	28.29	27.73	30.67	28.76
4	27.27	25.49	26.98	26.70	28.64	28.40	30.93	27.83	28.20	28.33	30.65	28.88
5	27.19	25.46	26.96	26.59	28.52	28.59	30.70	27.74	28.08	29.52	30.30	28.99
6	27.10	25.42	26.93	26.49	28.39	28.70	30.57	27.67	27.98	29.96	30.27	28.98
7	27.01	25.38	26.90	26.40	28.26	28.74	30.43	27.58	27.92	30.03	30.23	28.92
8	26.90	25.34	26.88	26.40	28.13	28.74	30.36	27.48	27.83	30.06	30.16	28.83
9	26.78	25.38	26.86	26.44	27.98	28.72	30.36	27.38	27.72	30.10	30.06	28.70
10	26.67	26.16	26.86	26.41	27.90	28.67	30.35	27.29	27.60	30.12	29.97	28.60
11	26.60	26.53	26.86	26.37	27.85	28.62	30.33	27.18	27.47	30.09	29.92	28.57
12	26.55	26.59	26.85	26.34	27.77	28.57	30.30	27.07	27.35	30.01	30.09	28.50
13	26.50	26.61	26.83	26.33	27.69	28.62	30.28	26.96	27.21	29.88	30.17	28.38
14	26.45	26.63	26.77	26.30	27.64	28.66	30.27	26.84	27.20	29.73	30.40	28.24
15	26.40	26.63	26.73	26.27	27.60	28.70	30.21	26.73	27.24	29.51	30.40	28.10
16	26.36	26.62	26.73	26.23	27.55	29.02	30.14	26.63	27.18	29.27	30.33	27.94
17	26.31	26.62	27.54	26.19	27.57	29.28	30.04	26.67	27.05	29.04	30.19	27.78
18	26.26	26.61	28.18	26.20	27.59	29.41	29.93	26.72	26.89	28.87	30.13	27.68
19	26.21	26.60	28.36	26.67	27.56	29.49	29.86	26.72	26.74	28.72	30.52	27.57
20	26.15	26.61	28.42	28.26	27.52	29.56	29.82	26.89	26.60	28.65	30.35	27.60
21	26.10	26.60	28.40	29.02	27.48	30.35	29.69	27.34	26.46	28.67	30.07	27.71
22	26.07	26.58	28.31	29.34	27.46	31.55	29.54	27.49	26.35	28.61	30.01	27.74
23	26.04	26.55	28.09	29.50	27.45	31.15	29.39	27.60	26.38	28.51	29.95	27.74
24	26.00	26.53	27.92	29.54	27.43	30.68	29.24	27.70	26.38	28.42	29.90	28.27
25	25.96	26.57	27.84	29.51	27.51	30.36	29.09	27.87	26.37	28.43	29.84	28.89
26	25.92	26.76	27.73	29.44	27.83	30.21	28.86	28.12	26.52	29.09	29.71	29.01
27	25.89	26.88	27.67	29.36	28.02	30.29	28.66	28.25	26.92	30.74	29.60	29.01
28	25.85	26.93	27.61	29.25	28.12	30.34	28.53	28.30	27.07	32.50	29.56	28.98
29	25.81	26.96	27.55	29.14	---	---	28.40	28.29	27.10	33.02	29.45	28.90
30	25.76	26.97	27.47	29.09	---	---	28.26	28.25	27.06	32.15	29.29	28.80
31	25.71	---	27.30	29.07	---	---	---	28.18	---	31.33	29.12	---
MEAN	26.45	26.29	27.37	27.54	27.93	---	---	27.51	27.25	29.52	30.11	28.46
MAX	27.49	26.97	28.42	29.54	28.98	---	---	28.30	28.29	33.02	31.10	29.01
MIN	25.71	25.34	26.73	26.19	27.43	---	---	26.63	26.35	27.02	29.12	27.57

02111391 W. KERR SCOTT RESERVOIR AT DAM NEAR WILKESBORO, NC--Continued



PEE DEE RIVER BASIN

361554081191701 WILBAR RAINGAGE

LOCATION.--Lat 36°15'54", long 81°19'17", Wilkes County, Hydrologic Unit 03040101, 300 ft northeast of NC Hwy 16, 2.0 mi northwest of Wilbar, and 4.0 mi southwest of Horse Gap.

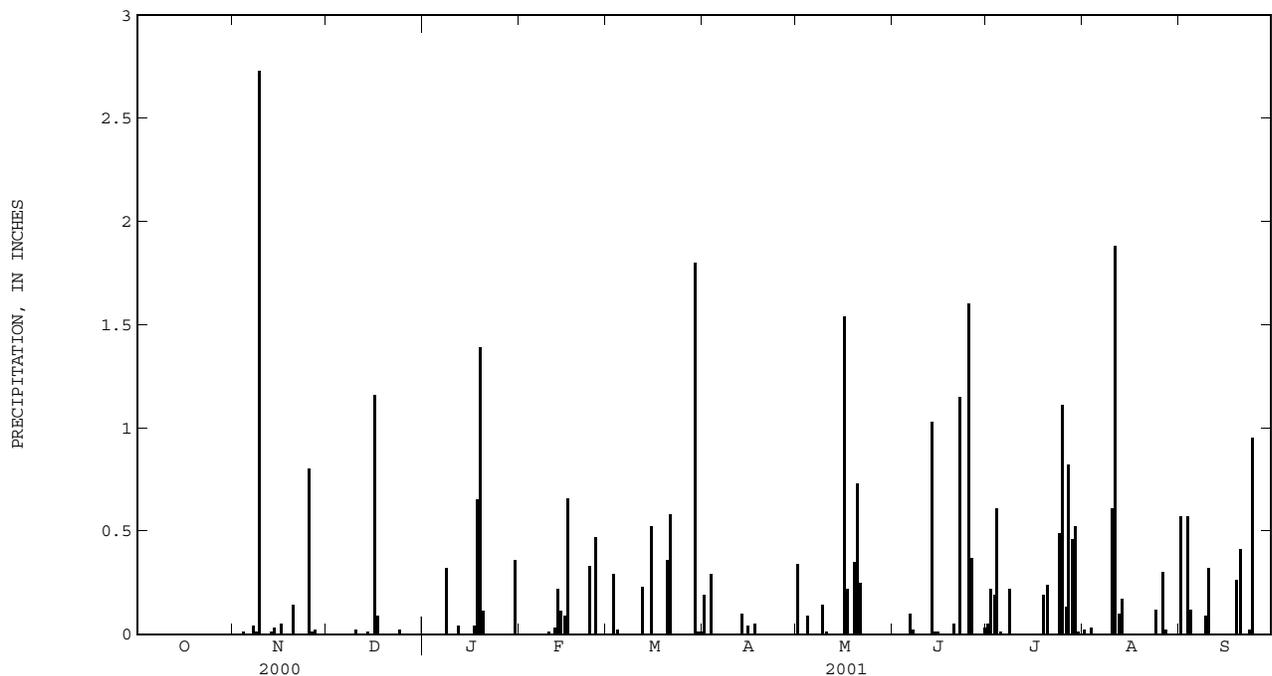
PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at site.

REMARKS.--Gage is operated in cooperation with U.S. Army Corps of Engineers, Wilmington District. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.19	.34	.00	.05	.02	.57
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.22	.00	.00
3	.00	.00	.00	.00	.00	.29	.29	.00	.00	.19	.03	.57
4	.00	.01	.00	.00	.00	.02	.00	.09	.00	.61	.00	.12
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00
7	.00	.04	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00
8	.00	.01	.00	.32	.00	.00	.00	.00	.00	.22	.00	.00
9	.00	2.73	.00	.00	.00	.00	.00	.14	.00	.00	.00	.09
10	.00	.00	.02	.00	.01	.00	.00	.01	.00	.00	.61	.32
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.88	.00
12	.00	.00	.00	.04	.03	.23	.00	.00	.00	.00	.10	.00
13	.00	.01	.00	.00	.22	.00	.10	.00	1.03	.00	.17	.00
14	.00	.03	.01	.00	.11	.00	.00	.00	.01	.00	.00	.00
15	.00	.00	.00	.00	.09	.52	.04	.00	.01	.00	---	.00
16	.00	.05	1.16	.00	.66	.00	.00	1.54	.00	.00	---	.00
17	.00	.00	.09	.04	.00	.00	.05	.22	.00	.00	---	.00
18	.00	.00	.00	.65	.00	.00	.00	.00	.00	.00	---	.00
19	.00	.00	.00	1.39	.00	.00	.00	.35	.00	.19	---	.26
20	.00	.14	.00	.11	.00	.36	.00	.73	.05	.24	---	.41
21	.00	.00	.00	.00	.00	.58	.00	.25	.00	.00	---	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	1.15	.00	.00	.00
23	.00	.00	.00	.00	.33	.00	.00	.00	.00	.00	.00	.02
24	.00	.00	.02	.00	.00	.00	.00	.00	.00	.49	.12	.95
25	.00	.80	.00	.00	.47	.00	.00	.00	1.60	1.11	.00	.00
26	.00	.01	.00	.00	.00	.00	.00	.00	.37	.13	.30	.00
27	.00	.02	.00	.00	.00	.00	.00	.00	.00	.82	.02	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.46	.00	.00
29	.00	.00	.00	.00	---	1.80	.00	.00	.00	.52	.00	.00
30	.00	.00	.00	.36	---	.01	.00	.00	.03	.01	.00	.00
31	.00	---	.00	.00	---	.01	---	.00	---	.00	.00	---
TOTAL	0.00	3.85	1.30	2.91	1.92	3.82	0.67	3.67	4.37	5.27	---	3.31





Gaging station at Abbotts Creek at Lexington, North Carolina.

## PEE DEE RIVER BASIN

02111500 REDDIES RIVER AT NORTH WILKESBORO, NC

LOCATION.--Lat 36°10'29", long 81°10'09", Wilkes County, Hydrologic Unit 03040101, on left bank 550 ft upstream from bridge on Secondary Road 1517, 1.4 mi upstream from North Wilkesboro municipal dam, 1.2 mi northwest of North Wilkesboro, and 2.3 mi upstream from mouth.

DRAINAGE AREA.--89.2 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 1433: 1944. WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 978.62 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Slight diurnal fluctuation at low flow during growing season. Maximum discharge for period of record, from rating curve extended above 5,600 ft<sup>3</sup>/s on basis of computation of peak flow over dam; gage height: 22.02 ft. Minimum discharge for current water year, result of freezeup.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	32	38	e32	48	54	138	45	54	39	58	41
2	36	32	38	e32	46	51	115	60	59	39	52	41
3	36	33	38	e32	45	51	110	46	48	48	47	38
4	35	33	37	e31	44	72	104	43	44	44	55	55
5	34	34	40	e31	44	70	93	44	45	62	44	42
6	34	33	40	e31	44	60	87	45	48	41	41	36
7	33	33	37	e31	43	56	82	42	45	36	38	34
8	31	35	36	e31	42	54	77	40	44	38	36	33
9	31	50	36	e30	42	53	73	41	42	46	39	32
10	32	194	37	e30	44	50	70	41	39	39	34	39
11	33	54	37	e30	41	49	68	39	38	36	e150	38
12	32	44	36	e29	42	49	66	39	37	32	135	33
13	32	41	35	e29	42	64	67	37	40	31	81	31
14	32	40	42	e29	49	52	63	35	77	30	111	30
15	32	39	46	e28	47	68	61	35	44	28	59	30
16	31	38	48	e28	48	88	60	41	40	27	49	29
17	31	39	193	e28	76	73	57	110	36	27	45	28
18	31	37	72	e40	56	64	56	59	34	27	44	28
19	31	37	58	189	51	59	55	49	33	34	66	28
20	32	39	e46	194	49	59	54	54	32	54	50	43
21	33	37	e42	100	48	296	53	214	38	36	40	40
22	36	35	e39	74	49	167	53	100	36	32	36	32
23	34	37	e37	63	48	114	51	98	68	29	35	31
24	34	37	e35	58	52	91	50	69	40	28	37	99
25	34	44	e34	54	76	79	50	84	54	43	34	59
26	34	70	e33	49	79	71	48	90	81	114	32	39
27	34	47	e33	50	63	66	47	68	66	134	35	35
28	33	42	e33	47	58	62	46	59	46	100	42	32
29	33	40	e33	46	---	259	45	56	40	119	33	31
30	32	39	e33	57	---	480	44	50	38	117	31	30
31	32	---	e32	53	---	179	---	47	---	74	33	---
TOTAL	1025	1345	1374	1586	1416	3060	2043	1880	1386	1584	1622	1137
MEAN	33.1	44.8	44.3	51.2	50.6	98.7	68.1	60.6	46.2	51.1	52.3	37.9
MAX	37	194	193	194	79	480	138	214	81	134	150	99
MIN	31	32	32	28	41	49	44	35	32	27	31	28
CFSM	.37	.50	.50	.57	.57	1.11	.76	.68	.52	.57	.59	.42
IN.	.43	.56	.57	.66	.59	1.28	.85	.78	.58	.66	.68	.47

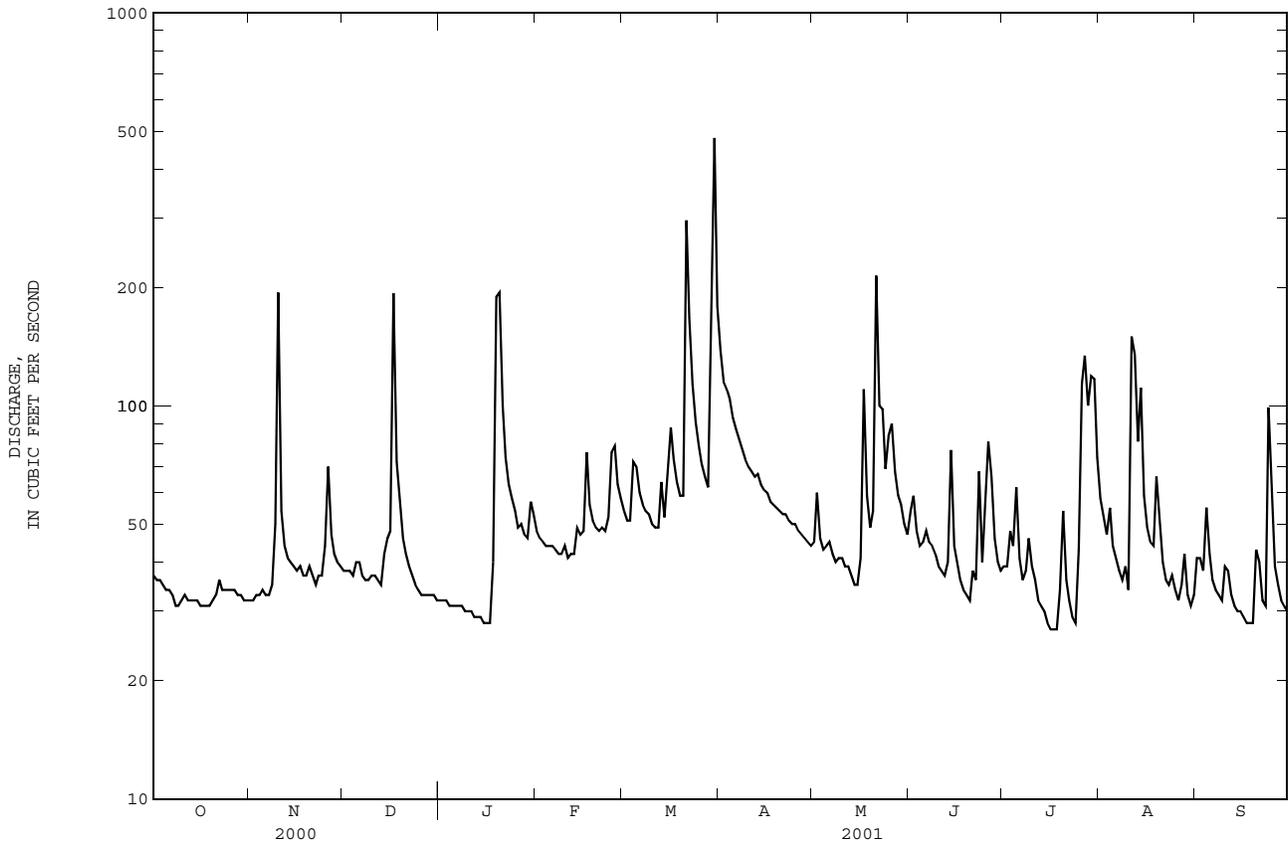
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	109	117	128	143	163	192	192	158	144	120	122	112																																																		
MAX	309	379	273	374	386	405	536	353	412	335	587	479																																																		
(WY)	1977	1978	1974	1996	1960	1975	1980	1973	1976	1941	1940	1945																																																		
MIN	33.1	44.8	44.3	44.5	50.6	77.3	68.1	60.6	46.2	43.0	31.0	30.8																																																		
(WY)	2001	2001	2001	1956	2001	1940	2001	2001	2001	1986	1956	1954																																																		

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1940 - 2001
ANNUAL TOTAL	24704	19458	
ANNUAL MEAN	67.5	53.3	141
HIGHEST ANNUAL MEAN			218
LOWEST ANNUAL MEAN			53.3
HIGHEST DAILY MEAN	454	Mar 20	480
LOWEST DAILY MEAN	31	Oct 8	27
ANNUAL SEVEN-DAY MINIMUM	31	Oct 13	29
MAXIMUM PEAK FLOW			1340
MAXIMUM PEAK STAGE			4.60
INSTANTANEOUS LOW FLOW			23*
ANNUAL RUNOFF (CFSM)	.76	.60	1.59
ANNUAL RUNOFF (INCHES)	10.30	8.11	21.55
10 PERCENT EXCEEDS	114	81	228
50 PERCENT EXCEEDS	53	42	110
90 PERCENT EXCEEDS	34	31	59

e Estimated.  
\* See REMARKS.

02111500 REDDIES RIVER AT NORTH WILKESBORO, NC--Continued



## PEE DEE RIVER BASIN

02112000 YADKIN RIVER AT WILKESBORO, NC

LOCATION.--Lat 36°09'09", long 81°08'45", Wilkes County, Hydrologic Unit 03040101, on right bank 150 ft upstream from bridge on State Highways 18 and 268 between North Wilkesboro and Wilkesboro, 150 ft downstream of Reddies River, 0.5 mi northeast of Wilkesboro, and 382 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--504 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1903 to June 1909, October 1920 to current year. Prior to October 1928, published as "Yadkin River at North Wilkesboro".

REVISED RECORDS.--WSP 1433: 1903-09, 1922, 1925-26(M), 1930, 1932, 1934, 1946-48(M), drainage area at former site. WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 942.35 ft above sea level. Apr. 10, 1903, to June 30, 1909, and Oct. 17, 1920, to Apr. 10, 1929, nonrecording gage at site 1.2 mi downstream at different datum. Apr. 11, 1929, to Jan. 9, 1930, nonrecording gage at present site and datum. U.S. Army Corps of Engineers telephone and satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated since 1962 by W. Kerr Scott Reservoir (station 02111391) 5.5 mi upstream. Prior to regulation maximum discharge: 160,000 ft<sup>3</sup>/s, Aug. 14, 1940, from rating curve extended above 20,000 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow; gage height: 37.6 ft, from floodmarks.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1916 reached a stage of 34.5 ft present site and datum, from floodmark; discharge, 116,000 ft<sup>3</sup>/s, from rating curve extended as explained above.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	251	198	196	e224	380	301	1290	352	292	295	765	351
2	242	204	214	e224	368	292	1020	356	287	288	772	349
3	242	204	228	e222	367	296	860	313	301	307	601	321
4	240	204	220	e222	366	338	813	286	327	336	740	321
5	238	205	216	e220	362	328	699	286	340	415	587	291
6	237	203	221	e220	358	329	629	294	329	321	361	288
7	235	200	233	e218	356	339	589	282	319	310	351	287
8	236	204	211	e218	354	347	508	281	310	320	345	303
9	229	267	214	e216	362	343	434	282	310	321	339	321
10	222	443	217	e216	317	342	429	281	310	321	320	337
11	202	253	214	e214	308	342	421	275	306	342	434	314
12	196	235	209	e214	314	344	420	280	299	338	415	301
13	196	222	229	e212	317	367	430	278	299	347	364	299
14	196	212	297	e212	326	345	422	252	360	369	414	297
15	200	208	290	e212	322	381	416	250	337	398	372	299
16	198	208	309	e210	326	372	409	279	307	393	359	300
17	194	211	567	e210	374	358	400	359	307	370	342	274
18	193	212	e300	e280	323	353	399	270	298	328	348	252
19	192	214	e280	574	309	339	312	260	281	333	678	257
20	194	215	e260	607	304	353	376	298	276	343	683	288
21	195	209	e250	395	303	e800	414	554	280	302	442	252
22	200	207	e250	342	305	885	413	317	334	303	278	239
23	201	209	e246	370	301	1260	405	292	344	291	287	242
24	196	212	e240	388	305	835	401	257	281	271	295	514
25	196	245	e236	399	370	842	402	314	299	290	295	299
26	199	280	e230	387	357	449	479	302	429	455	313	259
27	199	234	e230	391	325	384	345	270	322	573	292	271
28	200	221	e228	384	314	378	341	283	270	505	293	276
29	202	222	e228	379	---	850	342	304	266	992	308	287
30	200	221	e226	402	---	2060	338	292	285	1710	319	297
31	196	---	e226	388	---	1810	---	286	---	1080	333	---
TOTAL	6517	6782	7715	9370	9393	17362	15156	9285	9305	13567	13045	8986
MEAN	210	226	249	302	335	560	505	300	310	438	421	300
MAX	251	443	567	607	380	2060	1290	554	429	1710	772	514
MIN	192	198	196	210	301	292	312	250	266	271	278	239
†	-40	+46	-11	+40	-21	+94	-97	-1	-26	+96	-52	-7

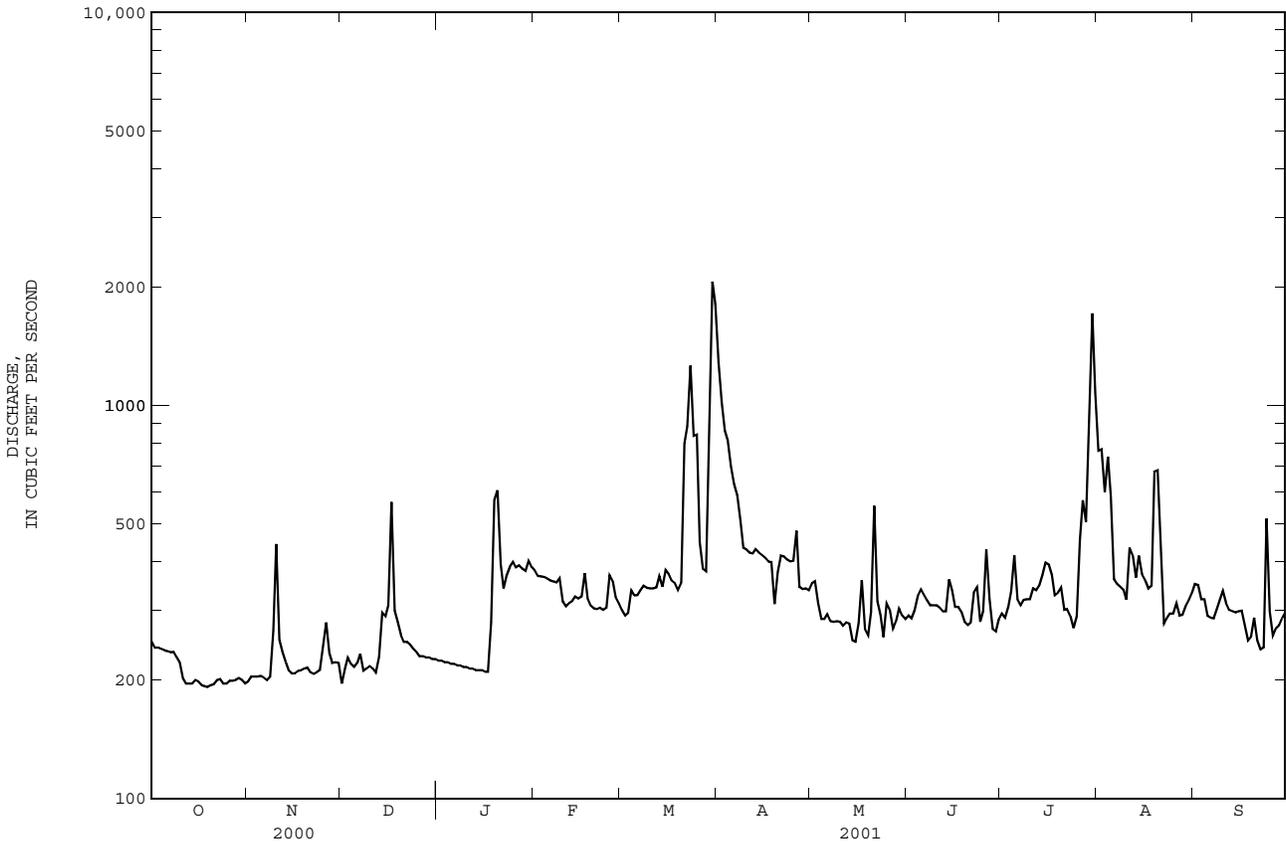
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2001,\* BY WATER YEAR (WY)

	670	713	748	885	974	1180	1133	938	859	661	702	588
MEAN	670	713	748	885	974	1180	1133	938	859	661	702	588
MAX	1834	2571	1619	1965	1832	2346	2868	1954	1963	1191	2239	1948
(WY)	1991	1978	1974	1995	1990	1993	1980	1973	1975	1989	1994	1979
MIN	191	226	249	302	335	441	435	300	293	234	194	209
(WY)	1989	2001	2001	2001	2001	1988	1986	2001	1988	1988	1988	1988

02112000 YADKIN RIVER AT WILKESBORO, NC--Continued

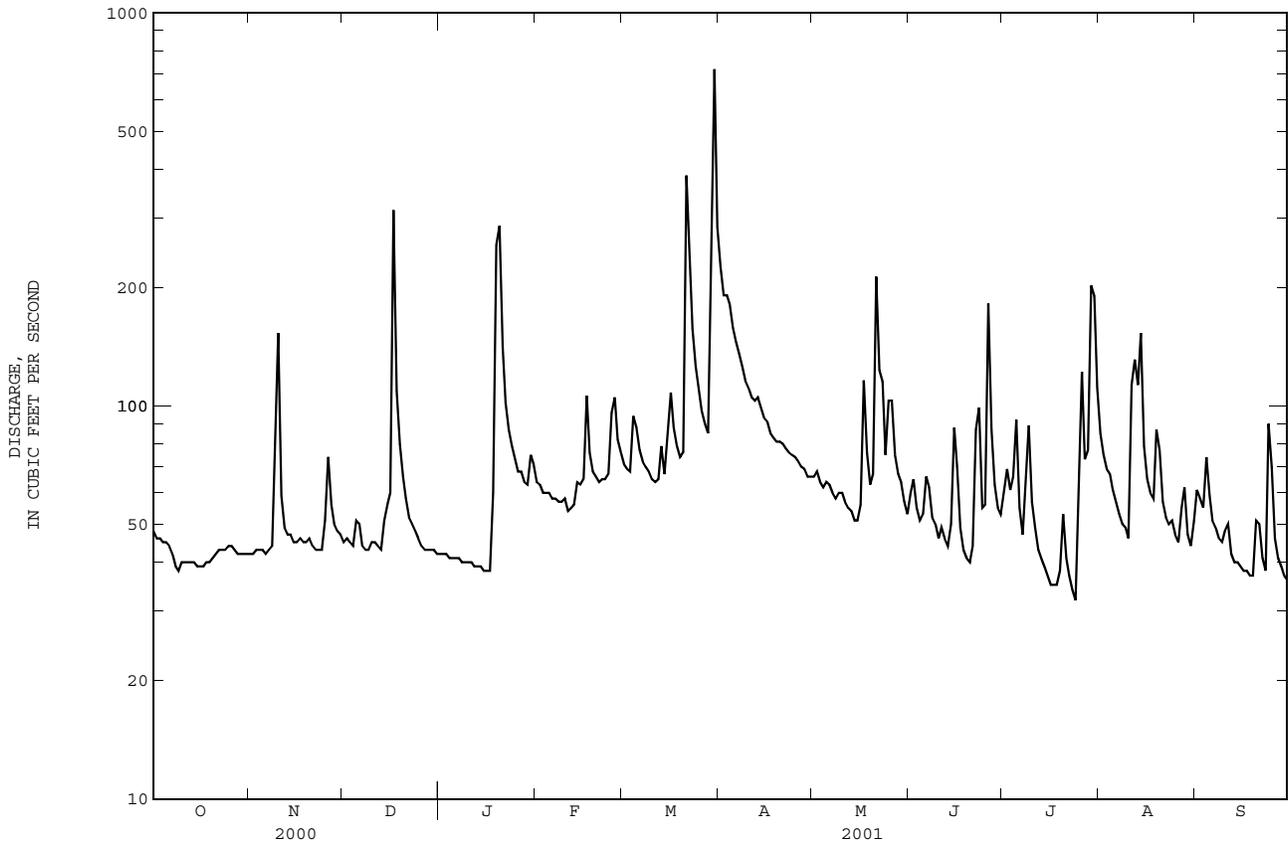
SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1963 - 2001*	
ANNUAL TOTAL	146536		126483		837 (UNADJUSTED)	
ANNUAL MEAN	400		347		1220 1973	
HIGHEST ANNUAL MEAN			#349		347 2001	
HIGHEST DAILY MEAN	2830	Mar 21	2060	Mar 30	7990	Aug 10 1970
LOWEST DAILY MEAN	192	Oct 19	192	Oct 19	114	Dec 8 1970
ANNUAL SEVEN-DAY MINIMUM	195	Oct 15	195	Oct 15	166	Aug 17 1988
MAXIMUM PEAK FLOW			3190	Mar 30	12800	Apr 10 1983
MAXIMUM PEAK STAGE			5.47	Mar 30	16.22	Apr 10 1983
INSTANTANEOUS LOW FLOW			87	Apr 19	54	Oct 21 1997
10 PERCENT EXCEEDS	663		445		1400	
50 PERCENT EXCEEDS	320		303		640	
90 PERCENT EXCEEDS	210		210		343	

- e Estimated.
- † Change in contents, equivalent in cubic feet per second, in W. Kerr Scott Reservoir, provided by U.S. Army Corps of Engineers.
- ‡ Adjusted for change in W. Kerr Scott Reservoir.
- \* For regulated period only (1963-2001). See REMARKS.





02112120 ROARING RIVER NEAR ROARING RIVER, NC--Continued



## PEE DEE RIVER BASIN

02112250 YADKIN RIVER AT ELKIN, NC

LOCATION.--Lat 36°14'30", long 80°50'49", Yadkin County, Hydrologic Unit 03040101, on right bank at downstream side of bridge on U.S. Highway 21 at Elkin, 0.3 mi downstream of Elkin River, and 362 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--869 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1964 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 866.03 ft above sea level. Prior to Aug. 28, 1964, nonrecording gage on upstream side of bridge at same datum. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Considerable regulation by W. Kerr Scott Reservoir (station 02111391). Maximum gage height for period of record, from graph based on hourly gage-height readings and floodmark.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1916 reached a stage of 36.0 ft, from information by North Carolina State Highway Commission. Flood of August 1940 reached a stage of 37.5 ft. A discharge of 172 ft<sup>3</sup>/s was measured on Sept. 19, 1956.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	441	344	384	e454	594	557	1980	656	488	443	1050	550
2	423	359	371	e450	583	535	1600	708	518	433	1070	583
3	414	361	402	e448	570	531	1380	646	466	484	960	534
4	408	362	391	e446	571	634	1310	604	473	456	901	589
5	400	366	377	e444	569	650	1210	594	499	654	1050	526
6	398	355	392	e442	562	591	1110	606	572	483	656	477
7	393	351	403	e440	558	576	1060	590	566	431	620	459
8	388	362	392	e438	552	583	983	578	487	475	604	448
9	377	436	385	e436	565	576	883	585	473	553	591	467
10	373	878	395	e434	548	569	857	579	455	461	565	487
11	354	513	397	e434	501	561	835	573	444	466	628	517
12	346	433	383	e432	510	562	819	564	432	429	853	455
13	345	413	375	e432	510	629	834	561	422	437	710	437
14	354	392	452	e430	542	586	819	530	459	429	888	428
15	358	380	488	e430	540	647	797	516	486	459	689	427
16	351	377	496	e428	543	754	795	539	519	450	620	421
17	339	387	1280	e428	688	658	769	787	443	442	584	413
18	343	387	727	e480	608	628	763	651	415	404	592	373
19	342	391	591	1120	549	595	742	585	399	399	879	372
20	348	397	532	1740	531	588	676	593	376	457	935	463
21	352	376	507	912	525	e1650	774	1090	370	399	828	424
22	365	371	e490	706	528	1340	767	686	475	384	511	384
23	362	381	e480	646	530	1650	753	603	881	366	503	370
24	351	385	e485	654	533	1290	739	503	470	359	520	926
25	352	416	e480	641	638	1070	743	610	430	443	498	706
26	355	538	e475	621	735	879	763	657	730	781	507	446
27	359	454	e470	621	615	672	733	527	678	824	496	422
28	358	410	e466	606	581	654	675	482	459	777	527	410
29	359	397	e462	598	---	1390	665	509	403	825	495	409
30	351	389	e458	640	---	4610	658	480	400	2210	496	403
31	345	---	e456	636	---	2800	---	458	---	1630	522	---
TOTAL	11404	12361	14842	18067	15879	30015	27492	18650	14688	18243	21348	14326
MEAN	368	412	479	583	567	968	916	602	490	588	689	478
MAX	441	878	1280	1740	735	4610	1980	1090	881	2210	1070	926
MIN	339	344	371	428	501	531	658	458	370	359	495	370

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001, BY WATER YEAR (WY)

	1108	1128	1217	1469	1607	1892	1844	1521	1360	1069	1130	980
MEAN	1108	1128	1217	1469	1607	1892	1844	1521	1360	1069	1130	980
MAX	2911	3871	2591	3129	2978	3885	4510	2887	2942	1922	3323	2910
(WY)	1991	1978	1974	1978	1990	1975	1980	1973	1975	1989	1994	1979
MIN	368	412	479	583	567	745	737	602	490	433	361	416
(WY)	2001	2001	2001	2001	2001	1988	1986	2001	2001	1988	1988	1988

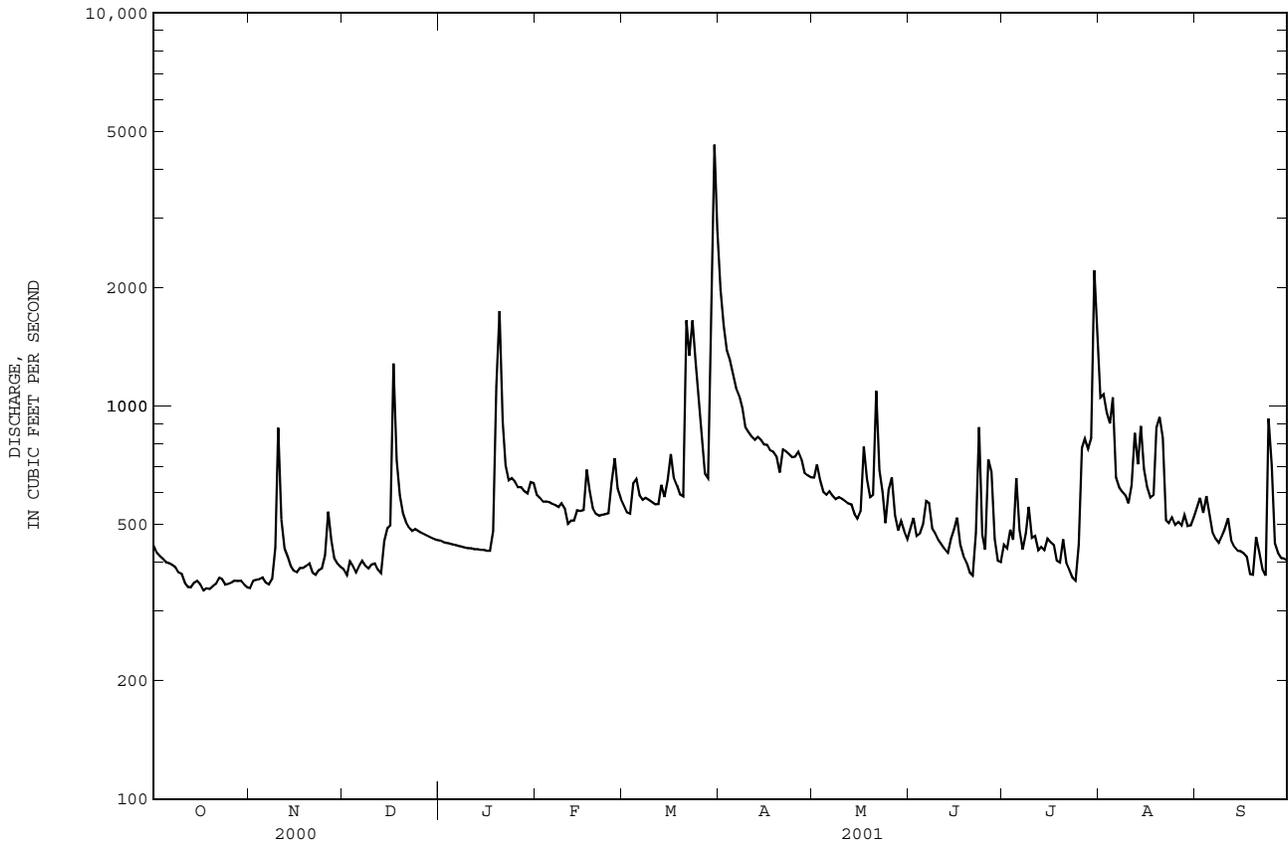
SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1964 - 2001

ANNUAL TOTAL	261981	217315		
ANNUAL MEAN	716	595	1363	
HIGHEST ANNUAL MEAN			1951	1973
LOWEST ANNUAL MEAN			595	2001
HIGHEST DAILY MEAN	4210	Mar 21	4610	Mar 30
LOWEST DAILY MEAN	339	Oct 17	339	Oct 17
ANNUAL SEVEN-DAY MINIMUM	347	Oct 13	347	Oct 13
MAXIMUM PEAK FLOW			7450	Mar 30
MAXIMUM PEAK STAGE			9.85	Mar 30
INSTANTANEOUS LOW FLOW			330	Oct 17
10 PERCENT EXCEEDS	1150		865	
50 PERCENT EXCEEDS	590		509	
90 PERCENT EXCEEDS	377		373	
				21500
				246
				257
				29100
				24.88*
				239
				2280
				1040
				580

e Estimated.

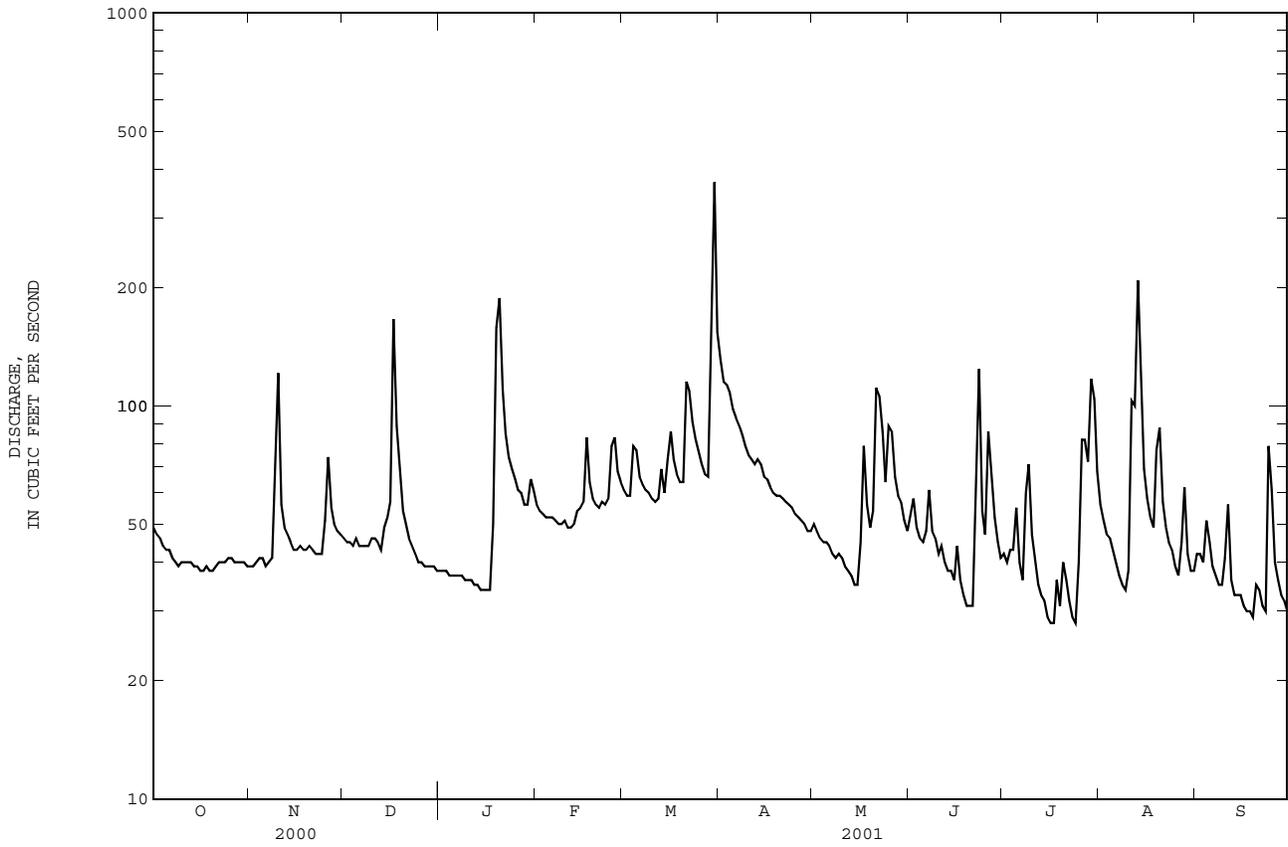
\* See REMARKS.

02112250 YADKIN RIVER AT ELKIN, NC--Continued





02112360 MITCHELL RIVER NEAR STATE ROAD, NC--Continued



## PEE DEE RIVER BASIN

02113000 FISHER RIVER NEAR COPELAND, NC

LOCATION.--Lat 36°21'26", long 80°41'10", Surry County, Hydrologic Unit 03040101, on left bank 500 ft upstream from bridge on State Highway 268, 1 mi upstream from Cody Creek, and 2 mi northwest of Copeland.

DRAINAGE AREA.--128 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1931 to current year.

REVISED RECORDS.--WSP 1303: 1933(M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 913 ft above sea level, by barometer. Prior to Sept. 5, 1936, twice daily readings at same site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some irrigation diversions at times in the growing season. Maximum discharge for period of record, from rating curve extended above 6,200 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow; gage height: 18.4 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	42	56	e47	77	98	209	65	77	59	102	53
2	53	42	55	e47	74	96	190	64	86	56	87	59
3	50	43	55	e46	71	96	172	62	75	55	77	51
4	48	44	53	e46	71	124	165	61	67	58	71	65
5	47	50	57	e46	70	122	145	61	67	97	67	59
6	46	50	52	e45	68	98	135	70	78	54	61	49
7	44	47	51	e45	67	89	130	59	106	46	55	45
8	43	47	52	e45	66	85	123	54	75	235	51	44
9	41	65	52	e44	66	83	115	55	71	184	47	44
10	41	175	55	e44	68	80	109	54	61	85	43	46
11	42	80	56	e44	66	79	113	50	57	66	90	61
12	41	62	53	e43	65	79	105	48	53	55	114	45
13	41	57	51	e43	66	99	110	47	50	50	147	39
14	41	54	57	e42	70	89	108	44	53	47	129	37
15	43	53	64	e42	75	98	99	42	53	43	73	37
16	42	52	69	e42	79	139	96	92	71	40	61	37
17	39	52	253	e42	131	113	91	146	50	37	55	34
18	40	51	142	65	107	100	89	100	43	37	59	32
19	40	52	102	201	89	92	85	79	39	38	106	32
20	40	54	e66	342	82	90	84	84	38	47	314	38
21	41	51	e60	182	79	127	85	132	36	62	101	42
22	48	49	e56	128	78	148	84	271	97	45	72	37
23	45	50	e54	108	79	118	80	193	203	38	63	35
24	42	51	e52	97	81	106	77	124	80	35	60	168
25	45	58	e50	89	112	100	76	141	64	49	54	117
26	50	109	e49	82	144	95	73	155	139	89	51	58
27	46	80	e49	80	107	91	71	112	311	95	53	47
28	45	65	e48	78	97	89	71	97	104	115	53	43
29	45	60	e48	75	---	277	67	91	76	196	47	40
30	44	58	e48	84	---	966	66	79	63	283	49	40
31	41	---	e47	87	---	265	---	72	---	139	50	---
TOTAL	1369	1803	2012	2451	2305	4331	3223	2804	2443	2535	2462	1534
MEAN	44.2	60.1	64.9	79.1	82.3	140	107	90.5	81.4	81.8	79.4	51.1
MAX	55	175	253	342	144	966	209	271	311	283	314	168
MIN	39	42	47	42	65	79	66	42	36	35	43	32
CFSM	.35	.47	.51	.62	.64	1.09	.84	.71	.64	.64	.62	.40
IN.	.40	.52	.58	.71	.67	1.26	.94	.81	.71	.74	.72	.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2001, BY WATER YEAR (WY)

	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955
MEAN	146	148	167	201	215	248	243	196	174	146	150	140	140	140	140	140	140	140	140	140	140	140	140	140
MAX	580	344	365	526	539	667	746	387	491	397	510	735	735	735	735	735	735	735	735	735	735	735	735	735
(WY)	1938	1935	1974	1936	1960	1993	1983	1950	1947	1943	1940	1979	1979	1979	1979	1979	1979	1979	1979	1979	1979	1979	1979	1979
MIN	40.2	53.7	58.1	54.4	68.8	103	103	77.6	47.5	31.3	24.6	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
(WY)	1942	1932	1956	1956	1934	1981	1981	1941	1956	1986	1981	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954	1954

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

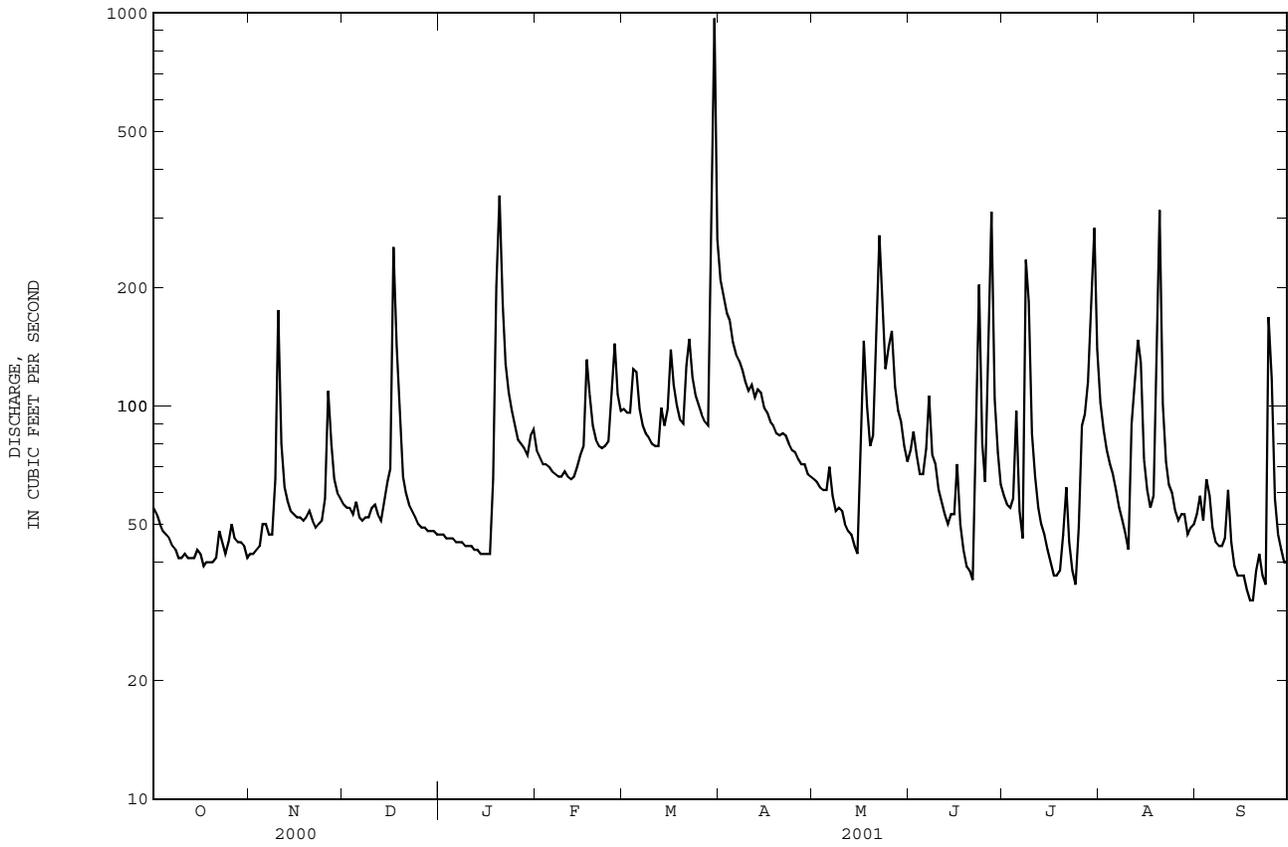
WATER YEARS 1932 - 2001

ANNUAL TOTAL	35153	29272		
ANNUAL MEAN	96.0	80.2	181	
HIGHEST ANNUAL MEAN			281	1979
LOWEST ANNUAL MEAN			80.2	2001
HIGHEST DAILY MEAN	717	Mar 21	966	Mar 30
LOWEST DAILY MEAN	39	Aug 23	32	Sep 18
ANNUAL SEVEN-DAY MINIMUM	41	Oct 14	35	Sep 14
MAXIMUM PEAK FLOW			2460	Mar 30
MAXIMUM PEAK STAGE			6.31	Mar 30
INSTANTANEOUS LOW FLOW			29	Sep 19
ANNUAL RUNOFF (CFSM)	.75	.63		1.42
ANNUAL RUNOFF (INCHES)	10.22	8.51		19.23
10 PERCENT EXCEEDS	159	130		288
50 PERCENT EXCEEDS	77	62		135
90 PERCENT EXCEEDS	45	42		66

e Estimated.

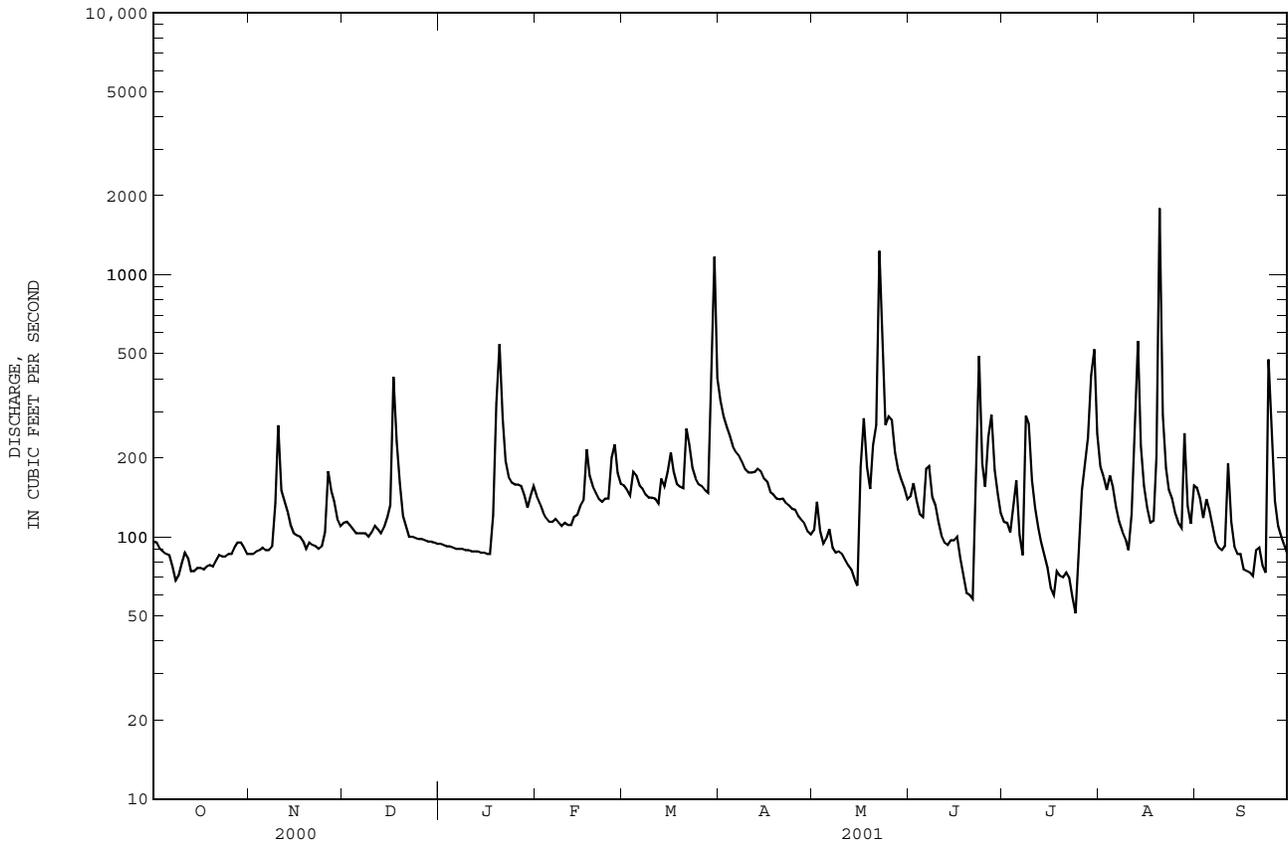
\* See REMARKS.

02113000 FISHER RIVER NEAR COPELAND, NC--Continued



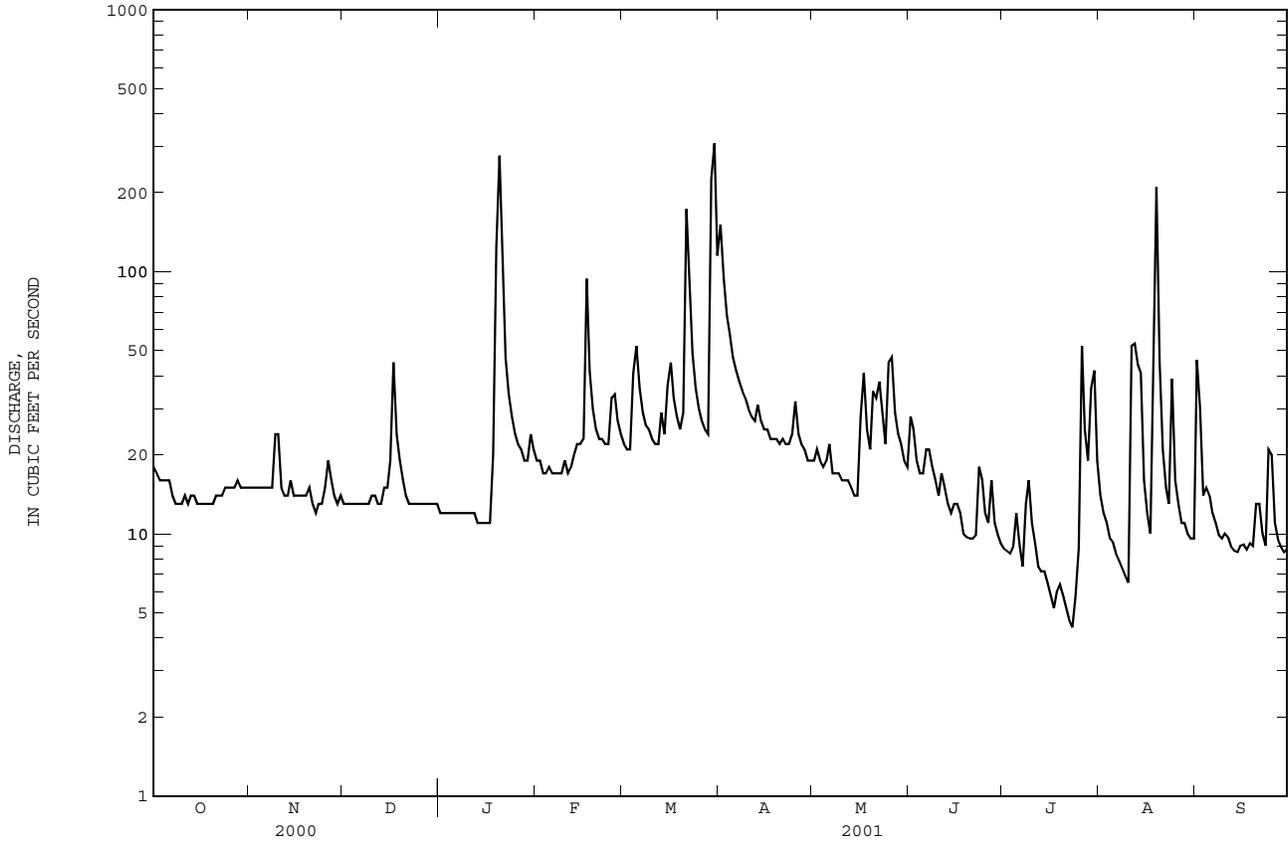


02113850 ARARAT RIVER AT ARARAT, NC--Continued





02114450 LITTLE YADKIN RIVER AT DALTON, NC--Continued



## PEE DEE RIVER BASIN

02115360 YADKIN RIVER AT ENON, NC

LOCATION.--Lat 36°07'55", long 80°26'39", Forsyth County, Hydrologic Unit 03040101, on left bank 50 ft upstream from bridge on Secondary Road 1525, 1.5 mi east of Enon, 4 mi upstream from Forbush Creek, and 324 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--1,694 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1964 to current year.

REVISED RECORDS.--WDR NC-72-1: 1970 (M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 701.71 ft above sea level. Prior to Nov. 6, 1968, nonrecording gage on downstream side of bridge at same site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Some regulation by W. Kerr Scott Reservoir (station 02111391). Minimum discharge for period of record also occurred Sept. 1, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 15, 1940, reached a stage of 737.5 ft (35.8 ft above gage datum), from information by U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	852	645	690	e786	1050	1060	3790	1030	959	753	1840	902
2	838	648	677	e784	997	1010	3180	1070	1060	790	1420	976
3	806	669	660	e782	966	987	2540	1070	1010	774	1370	922
4	786	677	689	e780	947	1180	2410	991	906	831	1190	896
5	769	679	676	e778	948	1430	2160	937	909	950	1310	984
6	750	681	668	e776	940	1270	1960	973	1070	1060	1180	849
7	733	673	685	e774	923	1100	1830	949	1350	791	875	779
8	709	676	694	e772	915	1050	1730	903	1100	809	823	738
9	697	741	677	e770	902	1030	1600	893	962	1590	792	720
10	686	1240	678	e768	934	1000	1470	898	900	1100	767	752
11	693	1380	706	e766	886	984	1420	877	866	875	749	838
12	674	836	698	e764	849	969	1400	856	827	811	1440	886
13	659	739	668	e762	874	1060	1410	835	793	753	1660	740
14	652	725	684	e760	912	1120	1430	815	777	733	1810	693
15	668	689	801	e758	948	1080	1350	770	853	706	1320	673
16	670	666	863	e754	966	1480	1320	863	886	719	998	669
17	658	674	1510	e748	1340	1360	1280	1290	877	697	896	654
18	643	677	2160	800	1430	1180	1240	1430	755	690	1020	647
19	643	668	1220	1480	1120	1100	1220	1080	705	670	1780	606
20	635	694	1060	4650	1020	1050	1160	1100	678	653	2960	647
21	644	686	892	2760	971	e1600	1170	1200	647	731	1810	765
22	657	650	e840	1660	957	2790	1220	2580	650	669	1220	698
23	673	645	e820	1330	975	2140	1200	1970	1780	624	879	633
24	668	656	e810	1220	957	2200	1200	1370	1330	599	938	774
25	661	686	e800	1170	1030	1680	1250	1270	925	616	856	2460
26	667	890	e798	1110	1460	1610	1170	1620	938	1540	793	1020
27	674	1010	e796	1070	1300	1220	1210	1330	1820	1380	785	726
28	674	814	e794	1050	1130	1100	1090	1120	1270	1540	852	670
29	666	738	e792	1020	---	1470	1060	1040	910	1460	886	633
30	662	710	e790	1050	---	9690	1040	1020	794	2810	787	626
31	652	---	e788	1130	---	4810	---	937	---	2700	798	---
TOTAL	21519	22562	26084	34582	28647	52810	47510	35087	29307	31424	36804	24576
MEAN	694	752	841	1116	1023	1704	1584	1132	977	1014	1187	819
MAX	852	1380	2160	4650	1460	9690	3790	2580	1820	2810	2960	2460
MIN	635	645	660	748	849	969	1040	770	647	599	749	606

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001, BY WATER YEAR (WY)

	2000	2015	2270	2784	2935	3514	3319	2784	2438	1903	1966	1740
MEAN	2000	2015	2270	2784	2935	3514	3319	2784	2438	1903	1966	1740
MAX	5371	5128	4814	5725	5645	7862	7337	4989	5435	3485	5611	5810
(WY)	1991	1978	1974	1978	1990	1993	1980	1973	1972	1989	1970	1979
MIN	689	752	841	1051	1023	1443	1390	1132	748	654	623	815
(WY)	1989	2001	2001	1981	2001	1981	1985	2001	1988	1986	1988	1988

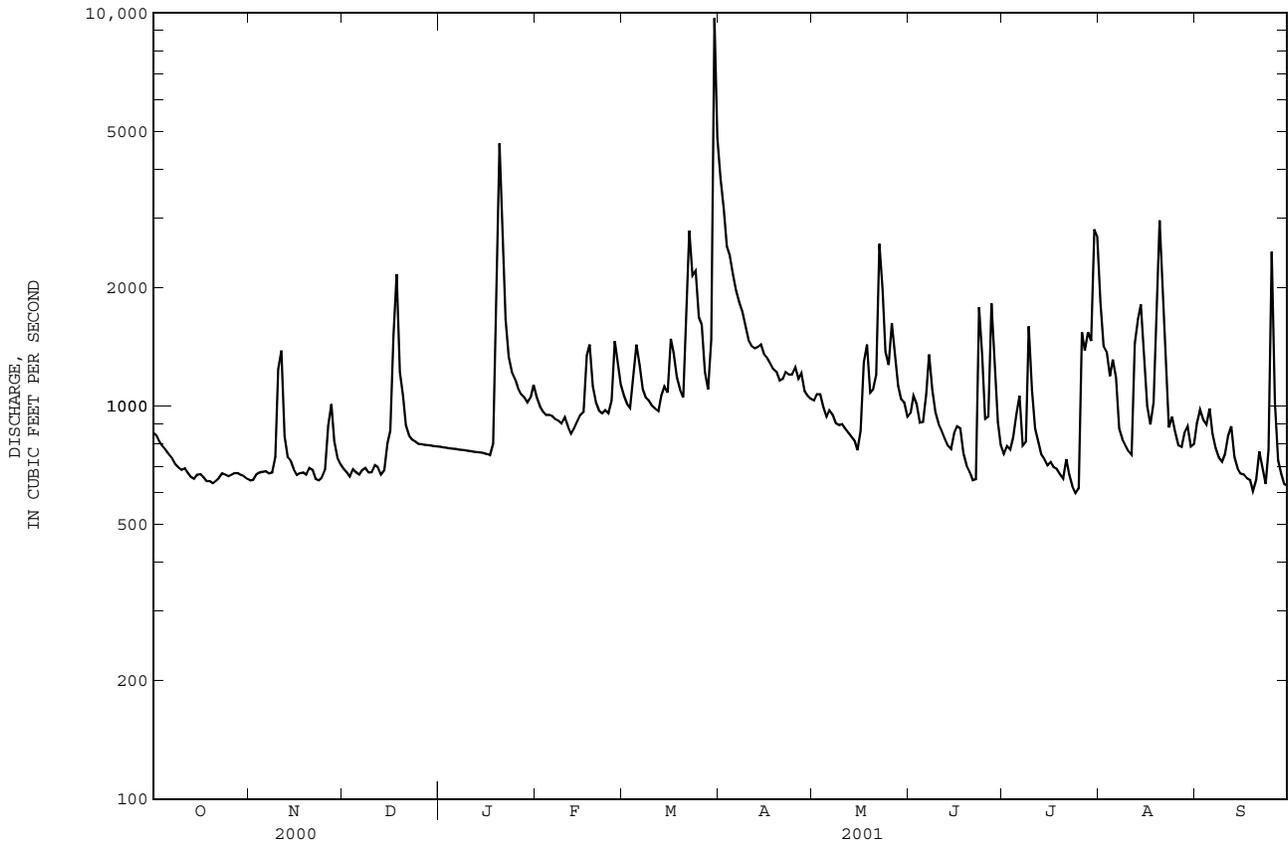
SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1964 - 2001

ANNUAL TOTAL	467413	390912	
ANNUAL MEAN	1277	1071	2467
HIGHEST ANNUAL MEAN			3605
LOWEST ANNUAL MEAN			1071
HIGHEST DAILY MEAN	8580	Mar 21	48400
LOWEST DAILY MEAN	625	Aug 24	368
ANNUAL SEVEN-DAY MINIMUM	650	Oct 16	384
MAXIMUM PEAK FLOW			14300
MAXIMUM PEAK STAGE		14.46	Mar 30
INSTANTANEOUS LOW FLOW		592	Jul 24
10 PERCENT EXCEEDS	2150		4150
50 PERCENT EXCEEDS	1100		1880
90 PERCENT EXCEEDS	674		1010

e Estimated.

\* See REMARKS.

02115360 YADKIN RIVER AT ENON, NC--Continued



PEE DEE RIVER BASIN

02115360 YADKIN RIVER AT ENON, NC--Continued

PRECIPITATION RECORDS

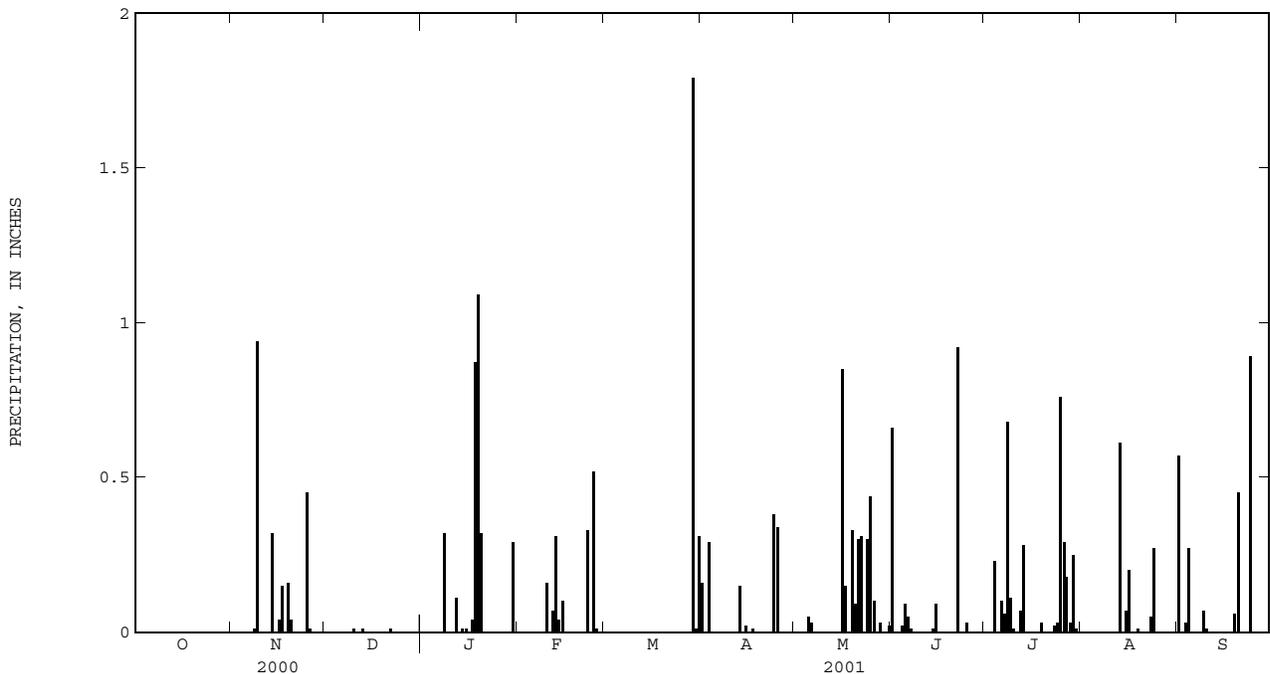
PERIOD OF RECORD.--October 2000 to September 2001.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at site.

REMARKS.--Gage is operated in cooperation with the Winston-Salem/Forsyth County Utilities Commission, Yadkin Inc., and the U.S. Army Corps of Engineers, Wilmington District. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.16	.00	.66	.00	.00	.57
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.29	.00	.00	.00	.00	.03
4	.00	.00	.00	.00	.00	.00	.00	.00	.02	.23	.00	.27
5	.00	.00	.00	.00	.00	.00	.00	.05	.09	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.03	.05	.10	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.01	.06	.00	.00
8	.00	.01	.00	.32	.00	.00	.00	.00	.00	.68	.00	.00
9	.00	.94	.00	.00	.00	.00	.00	.00	.00	.11	.00	.07
10	.00	.00	.01	.00	.16	.00	.00	.00	.00	.01	.00	.01
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.11	.07	.00	.00	.00	.00	.07	.00	.00
13	.00	.00	.01	.00	.31	.00	.15	.00	.00	.28	.61	.00
14	.00	.32	.00	.01	.04	.00	.00	.00	.01	.00	.00	.00
15	.00	.00	.00	.01	.10	.00	.02	.00	.09	.00	.07	.00
16	.00	.04	.00	.00	---	.00	.00	.85	.00	.00	.20	.00
17	.00	.15	.00	.04	---	.00	.01	.15	.00	.00	.00	.00
18	.00	.00	.00	.87	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.16	.00	1.09	.00	.00	.00	.33	.00	.03	.01	.06
20	.00	.04	.00	.32	.00	.00	.00	.09	.00	.00	.00	.45
21	.00	.00	.00	.00	.00	.00	.00	.30	.00	.00	.00	.00
22	.00	.00	.01	.00	.00	.00	.00	.31	.92	.00	.00	.00
23	.00	.00	.00	.00	.33	.00	.00	.00	.00	.02	.05	.00
24	.00	.00	.00	.00	.00	.00	.38	.30	.00	.03	.27	.89
25	.00	.45	.00	.00	.52	.00	.34	.44	.03	.76	.00	.00
26	.00	.01	.00	.00	.01	.00	.00	.10	.00	.29	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.03	.00	.03	.00	.00
29	.00	.00	.00	.00	---	1.79	.00	.00	.00	.25	.00	.00
30	.00	.00	.00	.29	---	.01	.00	.00	.00	.01	.00	.00
31	.00	---	.00	.00	---	.31	---	.02	---	.00	.00	---
TOTAL	0.00	2.12	0.03	3.06	---	2.11	1.35	3.00	1.88	3.14	1.21	2.35

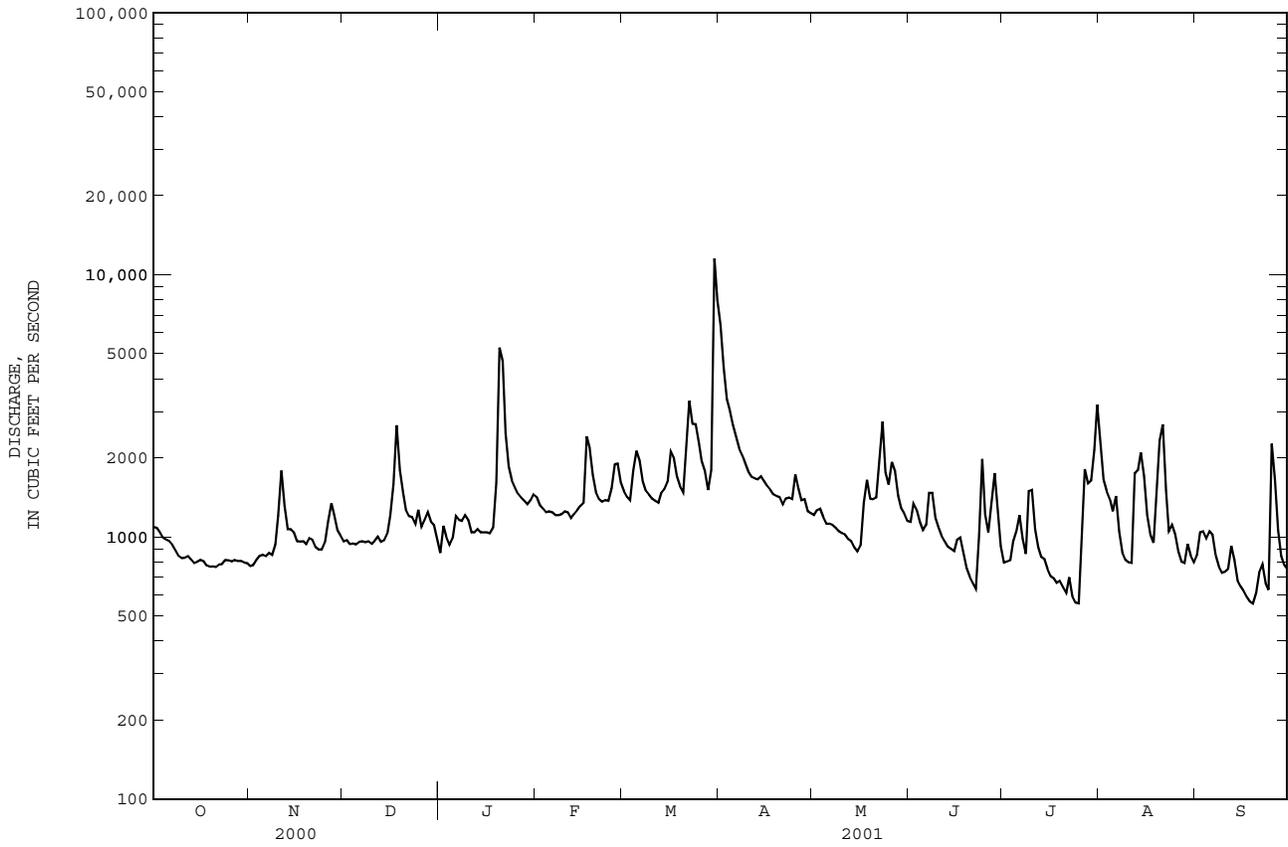




Twelve Mile Creek near Waxhaw, North Carolina.



02116500 YADKIN RIVER AT YADKIN COLLEGE, NC--Continued



## PEE DEE RIVER BASIN

02116500 YADKIN RIVER AT YADKIN COLLEGE, NC--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1944, 1951 to 1995, 1997 to 2001 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1964 to September 1967, October 1970 to September 1978, February 1979 to September 1989.

WATER TEMPERATURE: October 1943 to September 1944, October 1950 to September 1951, October 1955 to September 1967, October 1970 to September 1989.

SUSPENDED-SEDIMENT DISCHARGE: January 1951 to June 1995.

INSTRUMENTATION.--Water-quality monitor from October 1970 to September 1975.

REMARKS.--Station operated as part of NASQAN network from March 1979 to September 1992. Miscellaneous water-quality data published for water years 1947-49, 1955. Daily records of specific conductance for water years 1956-64 and specific conductance and water temperature for water years 1990 through 1995 are available in files of District office in Raleigh.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 815 microsiemens, Aug. 26, 1971; minimum recorded, 20 microsiemens, Nov. 2, 16, 28, Dec. 1, 6, 7, 1971.

WATER TEMPERATURE: Maximum daily, 35.0°C, July 20, 1986; minimum daily, 0.0°C, on many days during most winter months.

SEDIMENT CONCENTRATION: Maximum daily mean, 2,970 mg/L, May 26, 1952; minimum daily mean, 1 mg/L, Dec. 3, 1953.

SEDIMENT LOAD: Maximum daily, 182,000 tons, June 22, 1972; minimum daily, 3 tons, Dec. 3, 1953.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
OCT				
27...	1500	801	12	25
NOV				
08...	1130	827	6	15
15...	1430	994	6	15
22...	1545	910	4	8.6
30...	1515	1020	4	12
DEC				
07...	1230	976	4	9.8
13...	1530	976	3	8.2
18...	1400	3060	30	250
29...	0900	1110	6	17
JAN				
10...	1400	1110	2	5.4
19...	1415	1610	16	70
26...	1500	1460	71	279
FEB				
02...	1405	1290	11	38
11...	1330	1190	18	57
17...	1115	2900	27	211
25...	1600	1440	10	39
MAR				
02...	1300	1390	14	54
08...	1400	1480	12	46
13...	1500	1530	15	63
18...	1430	1660	24	108
23...	1400	2500	24	160
30...	0815	9970	858	23100
30...	1130	12600	1390	47300
30...	1300	13700	1450	53700
30...	1530	14800	1440	57500
MAY				
09...	1540	1050	41	117
09...	1640	1050	27	78
JUN				
27...	1258	1610	98	428
AUG				
23...	1620	939	46	117



Gaging station at Cape Fear River at William O. Huske Lock near Tarheel, North Carolina.

## PEE DEE RIVER BASIN

02118000 SOUTH YADKIN RIVER NEAR MOCKSVILLE, NC

LOCATION.--Lat 35°50'41", long 80°39'34", Rowan County, Hydrologic Unit 03040102, on right bank 90 ft downstream of bridge on Secondary Road 1972, 1 mi upstream from Little Creek, 4 mi downstream of Fifth Creek, 4.5 mi upstream from Hunting Creek, and 6.5 mi southwest of Mocksville.

DRAINAGE AREA.--306 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1938 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 663.62 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. The City of Statesville diverted an average of 7.9 ft<sup>3</sup>/s for water supply and waste treatment dilution. The Energy United Water Corporation withdrew an average of 2.0 ft<sup>3</sup>/s for water supply. Maximum discharge for period of record also occurred Mar. 2, 1987. Minimum discharge for period of record also occurred July 24, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Oct. 3, 1929, reached a stage of 22.6 ft, from floodmark established by local resident (discharge, about 22,000 ft<sup>3</sup>/s).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	73	84	e101	137	154	585	112	91	59	110	53
2	73	74	83	e100	126	142	427	117	133	145	93	65
3	71	74	83	e99	119	136	344	111	144	87	83	67
4	69	76	81	e99	116	185	313	107	101	87	76	88
5	67	77	80	e98	119	229	276	102	90	618	72	91
6	64	75	79	e97	118	215	253	100	85	335	69	83
7	62	75	85	e97	112	175	237	99	81	166	64	65
8	59	77	85	e96	110	157	223	102	84	121	60	57
9	58	84	84	e96	109	148	209	97	82	136	55	52
10	59	111	84	e95	114	139	198	98	80	118	52	51
11	59	127	90	e94	120	132	187	94	72	93	56	49
12	62	101	85	e94	124	128	179	89	68	83	81	44
13	63	86	83	e94	119	145	173	86	67	75	89	45
14	62	89	83	e93	121	154	185	82	62	77	67	40
15	61	86	91	93	125	191	185	80	59	73	126	35
16	60	81	105	91	127	270	170	82	72	65	77	33
17	60	83	155	94	235	242	159	98	68	59	62	32
18	59	83	215	101	224	201	147	123	57	56	56	31
19	58	82	168	140	175	174	144	116	52	55	55	31
20	57	91	132	370	145	162	142	97	49	66	53	38
21	58	87	e121	437	134	467	140	101	46	68	54	44
22	59	83	e118	274	129	672	138	127	45	60	48	49
23	61	80	e115	209	131	411	135	127	53	54	41	44
24	65	81	e113	180	130	290	134	103	136	52	41	46
25	67	85	e111	163	159	237	182	105	124	56	43	140
26	68	108	e110	147	210	208	179	133	208	83	42	158
27	69	128	e109	139	199	189	145	157	199	144	38	79
28	69	105	e107	133	170	173	131	127	115	188	36	55
29	70	93	e105	128	---	388	122	109	82	199	42	42
30	72	87	e103	135	---	1920	115	99	66	162	42	36
31	72	---	e102	144	---	1090	---	90	---	141	47	---
TOTAL	1988	2642	3249	4331	3957	9524	6157	3270	2671	3781	1930	1743
MEAN	64.1	88.1	105	140	141	307	205	105	89.0	122	62.3	58.1
MAX	75	128	215	437	235	1920	585	157	208	618	126	158
MIN	57	73	79	91	109	128	115	80	45	52	36	31
CFSM	.21	.29	.34	.46	.46	1.00	.67	.34	.29	.40	.20	.19
IN.	.24	.32	.39	.53	.48	1.16	.75	.40	.32	.46	.23	.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2001, BY WATER YEAR (WY)

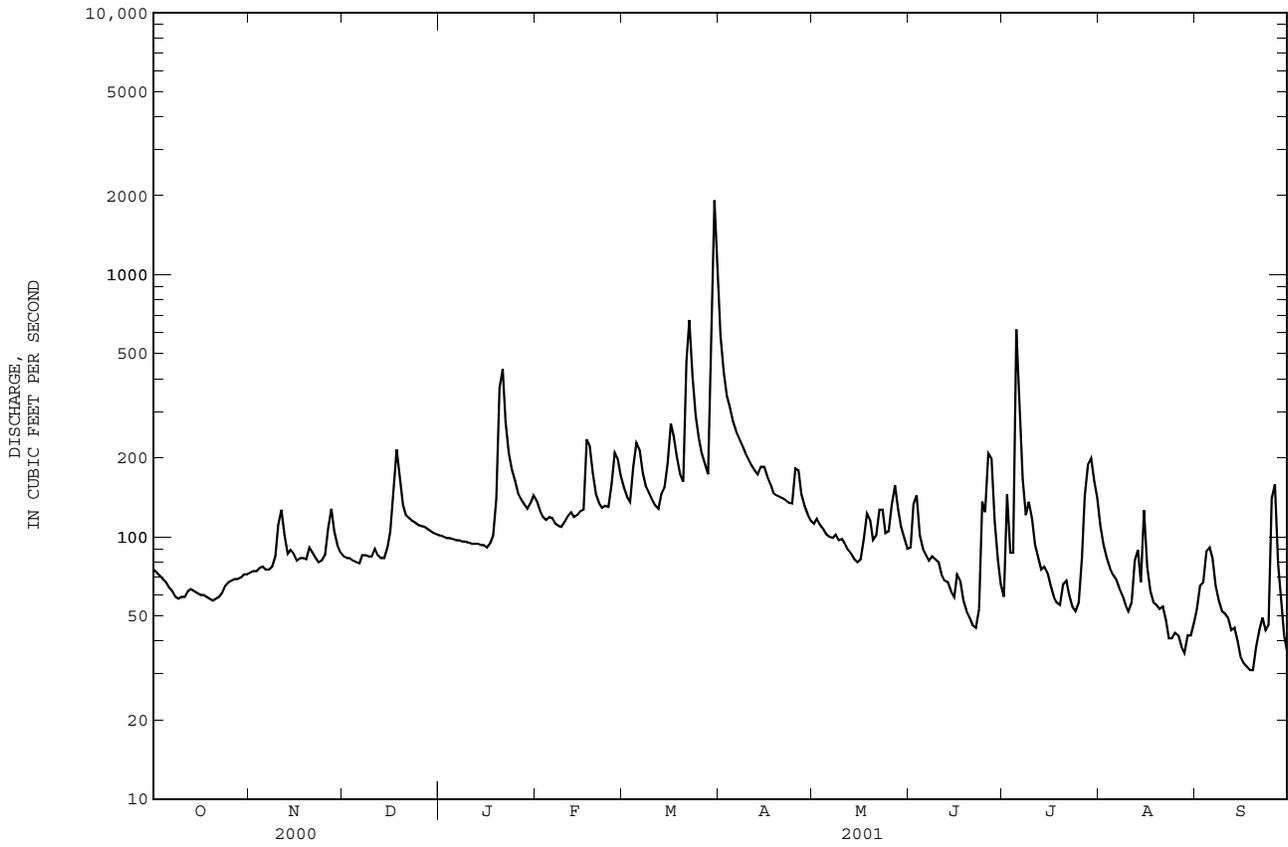
	253	259	334	423	495	541	468	363	293	230	224	228
MEAN	253	259	334	423	495	541	468	363	293	230	224	228
MAX	1246	791	738	1088	1458	1485	1110	885	774	628	706	880
(WY)	1965	1958	1962	1978	1960	1975	1958	1984	1972	1941	1970	1979
MIN	64.1	88.1	102	97.7	141	220	159	105	75.0	47.3	50.6	45.7
(WY)	2001	2001	1956	1956	2001	1955	1986	2001	1986	1986	2000	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1939 - 2001	
ANNUAL TOTAL	58926		45243			
ANNUAL MEAN	161		124		342	
HIGHEST ANNUAL MEAN					592	
LOWEST ANNUAL MEAN					124	
HIGHEST DAILY MEAN	1530	Mar 21	1920	Mar 30	9750	Mar 2 1987
LOWEST DAILY MEAN	33	Aug 23	31	Sep 18	22	Jul 22 1986
ANNUAL SEVEN-DAY MINIMUM	35	Aug 21	34	Sep 14	28	Jul 19 1986
MAXIMUM PEAK FLOW			2070		11800*	
MAXIMUM PEAK STAGE			7.97		18.88	
INSTANTANEOUS LOW FLOW			30		21*	
ANNUAL RUNOFF (CFSM)	.53		.41		1.12	
ANNUAL RUNOFF (INCHES)	7.16		5.50		15.18	
10 PERCENT EXCEEDS	294		199		585	
50 PERCENT EXCEEDS	109		95		238	
90 PERCENT EXCEEDS	57		53		117	

e Estimated.

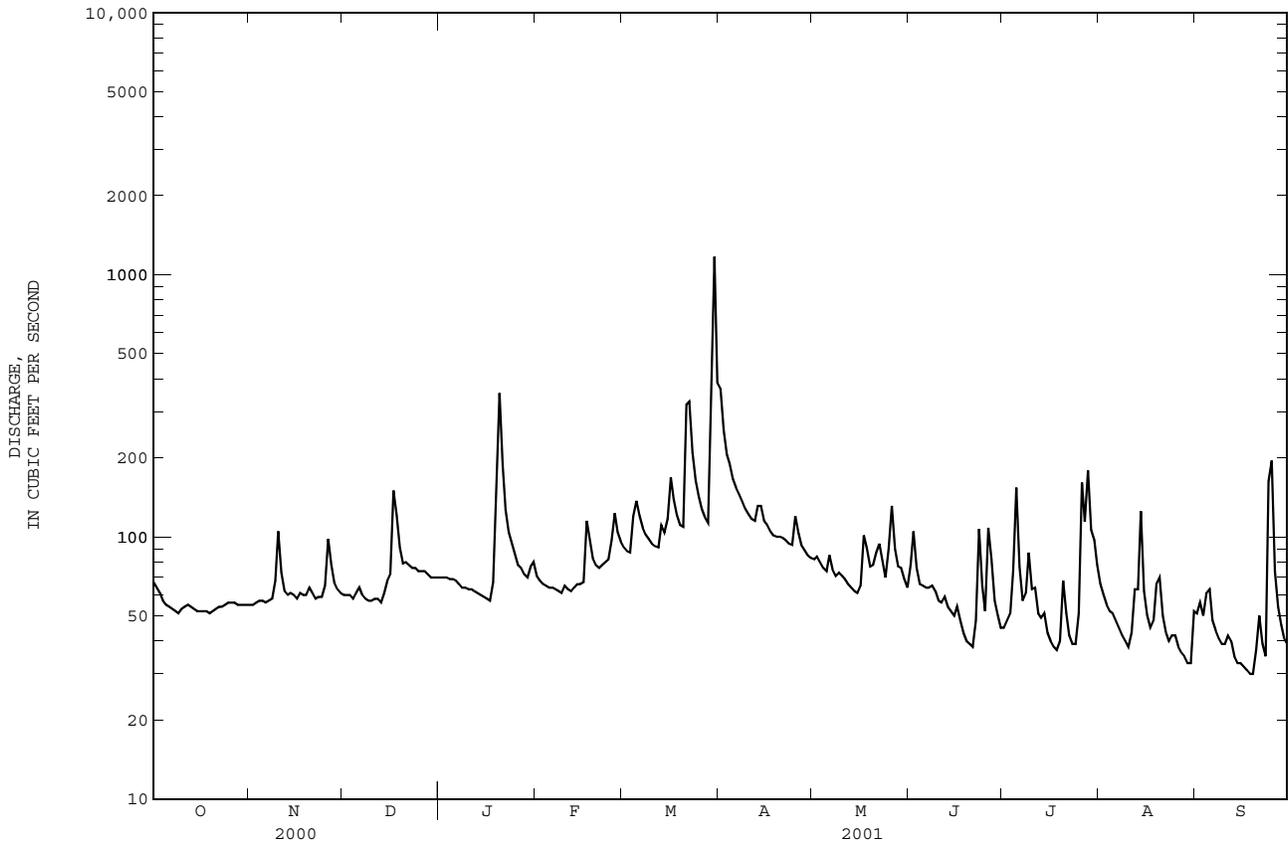
\* See REMARKS.

02118000 SOUTH YADKIN RIVER NEAR MOCKSVILLE, NC--Continued





02118500 HUNTING CREEK NEAR HARMONY, NC--Continued



PEE DEE RIVER BASIN

02120780 SECOND CREEK NEAR BARBER, NC

LOCATION.--Lat 35°43'05", long 80°35'45", Rowan County, Hydrologic Unit 03040102, on right bank 70 ft upstream from bridge on U.S. Highway 70, 1.3 mi downstream of Withrow Creek, and 2.7 mi east of Barber.

DRAINAGE AREA.--118 mi<sup>2</sup>.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-57, 1961-63. April 1979 to current year.

GAGE.--Water-stage recorder. Datum of gage is 642.31 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some diurnal fluctuation caused by industry 0.7 mi upstream. Minimum discharge for period of record and current water year also occurred Aug. 16 due to diurnal fluctuation caused by industry upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	11	16	e15	25	49	186	27	22	6.7	8.0	7.1
2	9.4	12	16	e15	25	43	130	26	40	6.5	7.2	8.1
3	9.2	12	15	e15	24	45	114	24	18	7.3	6.2	15
4	8.5	12	e15	e16	25	106	103	23	15	16	5.8	58
5	7.9	13	e15	e17	25	98	89	23	14	102	5.7	36
6	7.4	13	e17	e18	22	70	81	21	12	56	5.2	8.5
7	6.8	14	e16	e19	22	58	74	22	13	14	5.1	5.5
8	7.0	15	16	e24	21	52	67	22	16	12	5.3	6.9
9	7.3	18	16	e20	21	48	64	23	15	20	5.1	6.0
10	8.4	28	16	e18	27	42	60	21	12	12	4.8	6.1
11	7.4	16	17	e19	24	41	56	20	11	9.0	6.2	5.4
12	7.0	13	16	e20	30	40	54	18	9.4	7.0	7.9	4.5
13	6.9	13	15	e22	32	51	52	17	11	12	12	4.5
14	5.7	18	19	e20	35	41	52	15	13	11	14	4.9
15	5.4	20	20	19	35	96	49	16	28	7.2	4.4	4.9
16	5.1	14	24	19	33	128	48	16	36	6.1	3.8	4.4
17	4.9	17	49	18	211	72	43	28	12	5.6	4.2	4.4
18	5.8	17	30	20	100	58	38	21	7.6	5.7	5.3	4.5
19	6.7	15	23	53	60	51	37	17	8.3	7.6	6.2	4.6
20	7.9	21	21	178	52	53	36	21	8.2	39	4.8	7.0
21	8.8	17	e20	58	46	348	39	22	7.8	8.9	4.0	8.9
22	9.3	15	e19	37	48	170	40	22	8.0	6.1	3.6	7.7
23	10	15	e18	33	46	104	35	22	26	6.2	3.5	7.1
24	10	15	e17	31	45	81	34	16	9.0	6.3	3.8	30
25	11	19	e16	28	83	70	51	18	10	7.7	7.3	33
26	11	31	e15	29	101	62	37	38	13	33	3.8	9.3
27	11	20	e16	27	62	56	32	18	12	25	3.8	8.6
28	11	17	e18	25	54	52	31	18	8.9	9.8	3.7	8.0
29	11	16	e17	26	---	325	29	21	7.3	12	3.7	7.5
30	11	17	e16	30	---	967	28	16	6.8	13	4.1	7.2
31	11	---	e16	28	---	244	---	14	---	9.2	24	---
TOTAL	259.5	494	580	917	1334	3721	1789	646	430.3	499.9	192.5	333.6
MEAN	8.37	16.5	18.7	29.6	47.6	120	59.6	20.8	14.3	16.1	6.21	11.1
MAX	11	31	49	178	211	967	186	38	40	102	24	58
MIN	4.9	11	15	15	21	40	28	14	6.8	5.6	3.5	4.4
CFSM	.07	.14	.16	.25	.40	1.02	.51	.18	.12	.14	.05	.09
IN.	.08	.16	.18	.29	.42	1.17	.56	.20	.14	.16	.06	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2001, BY WATER YEAR (WY)

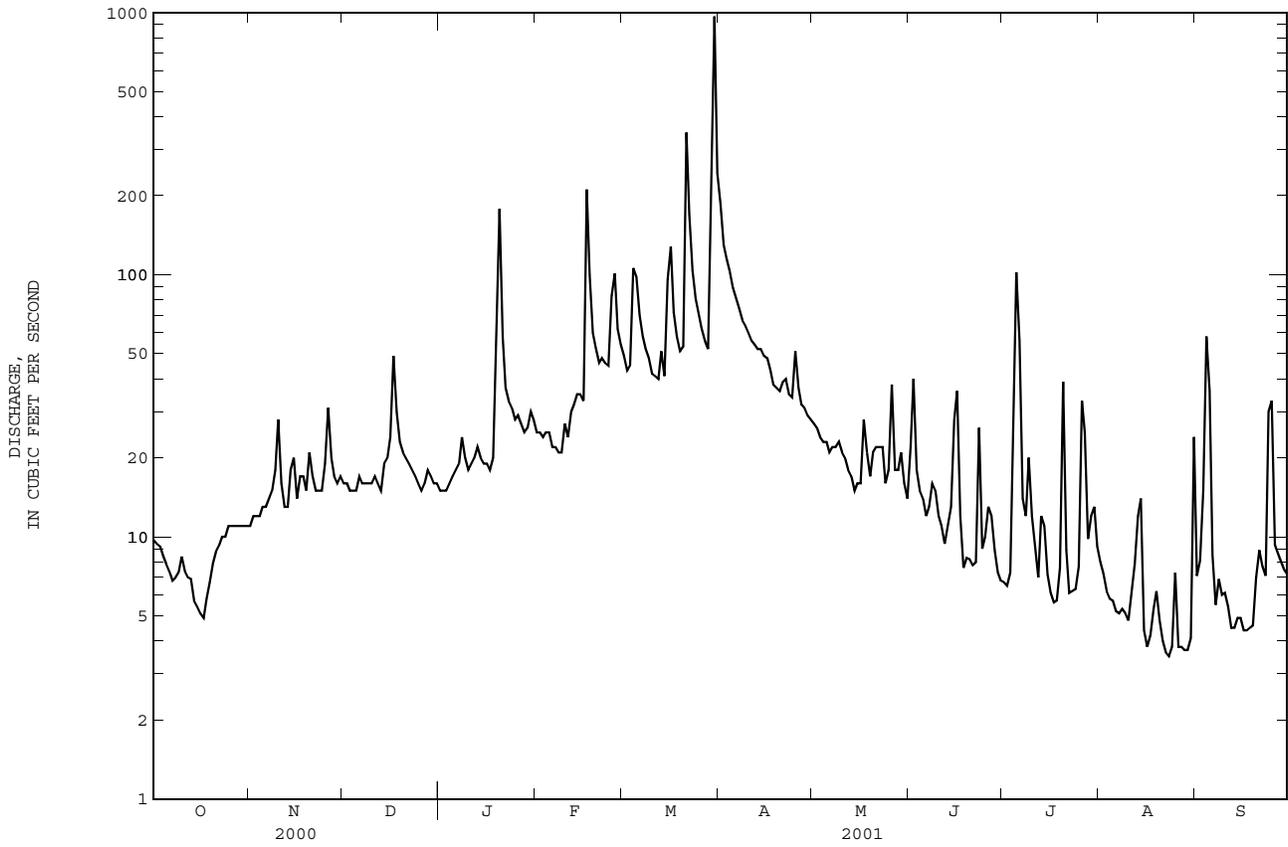
MEAN	87.7	88.4	95.3	144	169	191	142	86.2	86.4	52.9	57.9	54.7
MAX	419	262	222	317	301	476	390	178	243	98.3	304	196
(WY)	1991	1996	1984	1998	1990	1993	1987	1990	1992	1989	1995	1979
MIN	8.37	16.5	18.7	29.6	47.6	60.3	45.5	20.8	13.0	11.7	6.21	11.1
(WY)	2001	2001	2001	2001	2001	1999	1986	2001	1986	2000	2001	2001

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1979 - 2001

ANNUAL TOTAL	14590.7	11196.8	
ANNUAL MEAN	39.9	30.7	103
HIGHEST ANNUAL MEAN			171
LOWEST ANNUAL MEAN			30.7
HIGHEST DAILY MEAN	564	Mar 20	5280
LOWEST DAILY MEAN	4.6	Aug 25	3.5
ANNUAL SEVEN-DAY MINIMUM	5.2	Aug 23	4.2
MAXIMUM PEAK FLOW			1690
MAXIMUM PEAK STAGE			11.14
INSTANTANEOUS LOW FLOW			2.9*
ANNUAL RUNOFF (CFSM)	.34	.26	.87
ANNUAL RUNOFF (INCHES)	4.60	3.53	11.87
10 PERCENT EXCEEDS	79	58	163
50 PERCENT EXCEEDS	20	17	63
90 PERCENT EXCEEDS	7.1	5.8	21

e Estimated.  
\* See REMARKS.

02120780 SECOND CREEK NEAR BARBER, NC--Continued



PEE DEE RIVER BASIN

02121500 ABBOTTS CREEK AT LEXINGTON, NC

LOCATION.--Lat 35°48'23", long 80°14'05", Davidson County, Hydrologic Unit 03040103, on right bank 150 ft upstream from bridge on Secondary Road 1243, 1.5 mi southeast of Lexington, and 4.5 mi downstream of Rich Fork Creek.

DRAINAGE AREA.--174 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1940 to December 1957. October 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 630 ft above sea level, from topographic map. March 1940 to December 1957 at site 100 ft upstream at different datum. Satellite telemetry and rain gage at station.

REMARKS.--No estimated daily discharges. Records good. The City of Lexington diverted an average of 5.3 ft<sup>3</sup>/s for water supply. The City of High Point diverted water from the Cape Fear River basin and discharged an average of 5.6 ft<sup>3</sup>/s of treated sewage effluent into Rich Fork Creek, upstream from station. Maximum discharge at former site, 14,800 ft<sup>3</sup>/s, from floodmark; minimum discharge at former site 0.4 ft<sup>3</sup>/s. Minimum discharge for period of record also occurred Sept. 5, 1990. Minimum discharge for current water year also occurred Sept. 17, 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	17	19	18	43	82	722	32	31	21	18	13
2	18	15	18	18	36	71	882	31	75	77	17	10
3	18	16	19	17	33	67	418	29	45	35	19	10
4	18	15	17	18	29	208	322	28	28	57	16	11
5	17	15	16	19	28	267	201	27	24	479	13	17
6	16	14	18	20	28	180	151	24	22	91	11	16
7	17	15	18	20	26	116	131	22	19	43	11	11
8	15	18	18	25	26	90	114	21	19	35	13	11
9	13	23	18	43	25	79	100	21	30	58	11	9.3
10	13	35	18	37	30	70	90	21	23	38	11	8.5
11	15	30	17	29	35	63	84	22	16	28	38	8.9
12	17	20	17	28	36	60	75	21	16	24	61	9.8
13	17	17	17	34	58	75	71	19	25	23	25	8.8
14	16	30	19	35	57	78	81	18	103	19	47	8.1
15	17	58	20	28	56	125	66	18	39	16	36	6.8
16	15	28	26	28	71	342	62	21	54	14	18	5.8
17	16	23	79	27	675	177	56	40	28	14	14	5.7
18	17	20	72	30	538	121	50	39	17	14	26	5.9
19	16	21	36	82	168	93	45	25	15	16	40	7.4
20	16	22	31	362	112	100	44	29	15	19	17	11
21	15	27	31	291	88	527	44	30	14	14	14	26
22	14	22	26	117	82	608	43	37	22	14	12	15
23	12	19	22	74	83	286	45	35	37	11	12	12
24	15	19	20	57	82	165	56	34	30	13	14	22
25	17	26	20	49	103	126	102	26	223	15	31	70
26	19	70	17	37	231	103	113	165	91	58	14	27
27	20	41	20	34	130	90	57	144	36	61	10	13
28	18	26	21	33	98	78	45	60	32	51	9.8	9.3
29	17	22	22	31	---	222	38	54	21	24	9.9	8.6
30	16	20	20	36	---	1500	33	38	17	21	9.6	6.9
31	17	---	18	56	---	809	---	28	---	23	11	---
TOTAL	508	744	750	1733	3007	6978	4341	1159	1167	1426	609.3	404.8
MEAN	16.4	24.8	24.2	55.9	107	225	145	37.4	38.9	46.0	19.7	13.5
MAX	21	70	79	362	675	1500	882	165	223	479	61	70
MIN	12	14	16	17	25	60	33	18	14	11	9.6	5.7
CFSM	.09	.14	.14	.32	.62	1.29	.83	.21	.22	.26	.11	.08
IN.	.11	.16	.16	.37	.64	1.49	.93	.25	.25	.30	.13	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2001, BY WATER YEAR (WY)

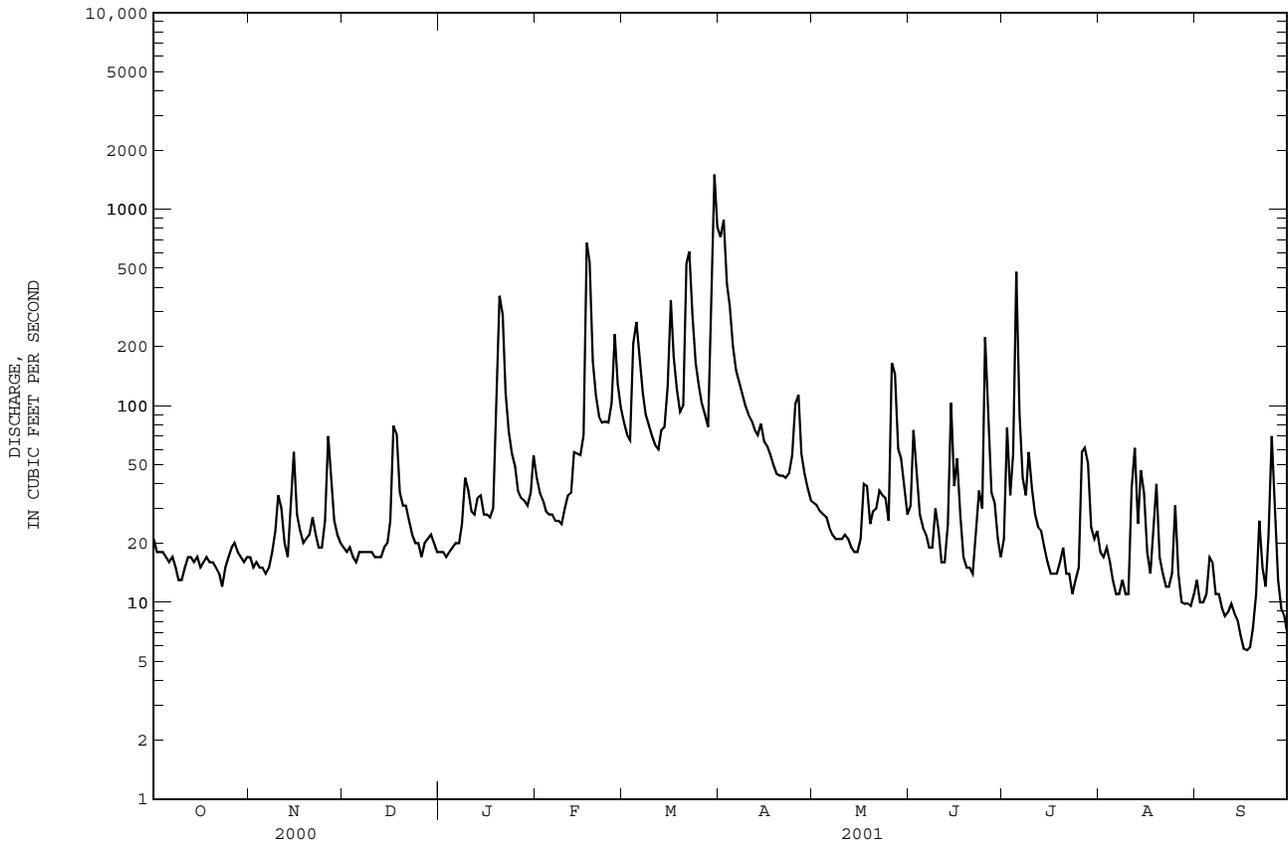
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	164	109	127	277	293	356	260	172	80.6	54.7	52.7	75.3		
MAX	731	282	319	554	753	781	506	515	182	115	102	397		
(WY)	1990	1996	1990	1998	1990	1993	1993	1989	1989	1995	1989	1996		
MIN	9.33	13.5	24.2	55.9	102	83.7	46.6	37.4	21.2	21.6	14.9	13.5		
(WY)	1999	1999	2001	2001	1999	1999	1995	2001	1999	1996	1990	2001		

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1988 - 2001

ANNUAL TOTAL	32206	22827.1		
ANNUAL MEAN	88.0	62.5	168	
HIGHEST ANNUAL MEAN			281	1990
LOWEST ANNUAL MEAN			62.5	2001
HIGHEST DAILY MEAN	945	Mar 17	1500	Mar 30
LOWEST DAILY MEAN	11	Jul 21	5.7	Sep 17
ANNUAL SEVEN-DAY MINIMUM	13	Aug 21	6.9	Sep 13
MAXIMUM PEAK FLOW			1610	Mar 30
MAXIMUM PEAK STAGE			10.42	Mar 30
INSTANTANEOUS LOW FLOW			5.5*	Sep 16
ANNUAL RUNOFF (CFSM)	.51		.36	.97
ANNUAL RUNOFF (INCHES)	6.89		4.88	13.12
10 PERCENT EXCEEDS	188		113	321
50 PERCENT EXCEEDS	45		26	71
90 PERCENT EXCEEDS	16		13	16

\* See REMARKS.

02121500 ABBOTTS CREEK AT LEXINGTON, NC--Continued



PEE DEE RIVER BASIN

02122400 HIGH ROCK LAKE PRECIPITATION

LOCATION.--Lat 35°36'02", long 80°14'06", Davidson County, Hydrologic Unit 03040103, High Rock Lake Dam.

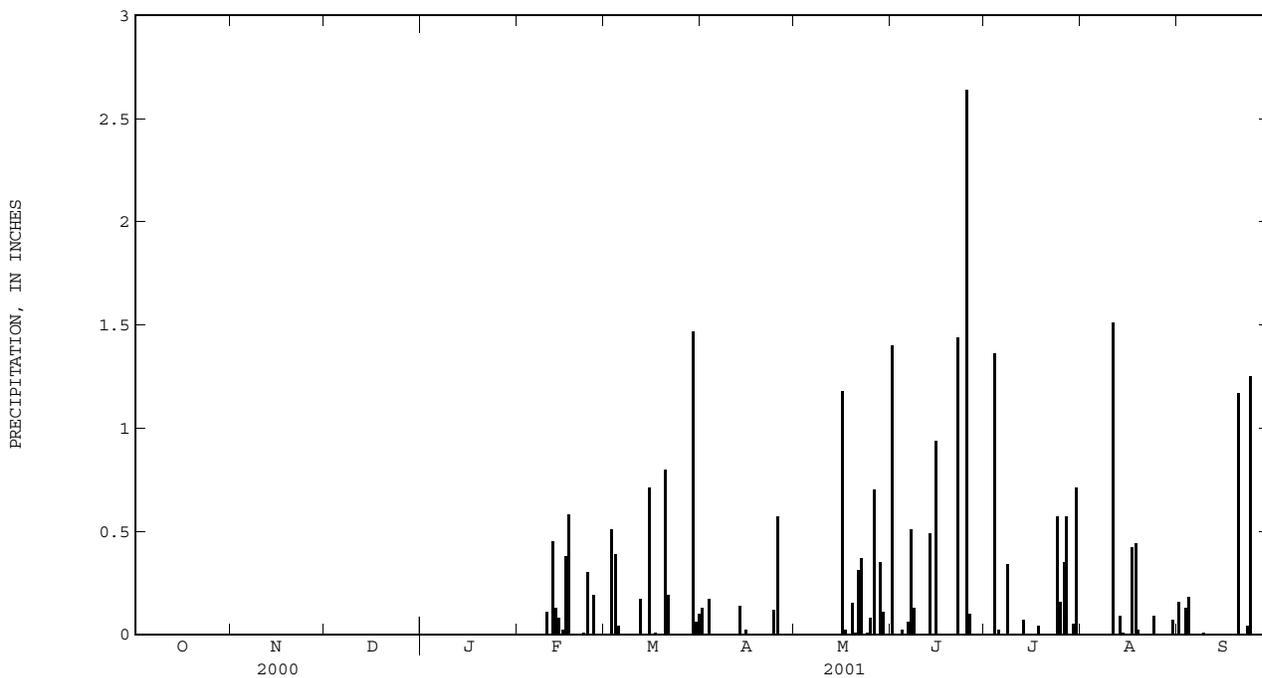
PERIOD OF RECORD.-- September 1996 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	---	---	---	.00	.00	.13	.00	1.40	.00	.00	.16
2	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	---	---	---	.00	.51	.17	.00	.00	.00	.00	.13
4	.00	---	---	---	.00	.39	.00	.00	.02	1.36	.00	.18
5	.00	---	---	---	.00	.04	.00	.00	.00	.02	.00	.00
6	.00	---	---	---	.00	.00	.00	.00	.06	.00	.00	.00
7	.00	---	---	---	.00	.00	.00	.00	.51	.00	.00	.00
8	.00	---	---	---	.00	.00	.00	.00	.13	.34	.00	.00
9	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00	.01
10	.00	---	---	---	.11	.00	.00	.00	.00	.00	.00	.00
11	.00	---	---	---	.00	.00	.00	.00	.00	.00	1.51	.00
12	.00	---	---	---	.45	.17	.00	.00	.00	.00	.00	.00
13	.00	---	---	---	.13	.00	.14	.00	.49	.07	.09	.00
14	.00	---	---	---	.08	.00	.00	.00	.00	.00	.01	.00
15	.00	---	---	---	.02	.71	.02	.00	.94	.00	.00	.00
16	.00	---	---	---	.38	.00	.00	1.18	.00	.00	.00	.00
17	.00	---	---	---	.58	.01	.00	.02	.00	.00	.42	.00
18	.00	---	---	---	.00	.00	.00	.00	.00	.04	.44	.00
19	.00	---	---	---	.00	.00	.00	.15	.00	.00	.02	.00
20	.00	---	---	---	.00	.80	.00	.01	.00	.00	.00	1.17
21	.00	---	---	---	.00	.19	.00	.31	.00	.00	.00	.00
22	.00	---	---	---	.01	.00	.00	.37	1.44	.00	.00	.00
23	.00	---	---	---	.30	.00	.00	.00	.00	.00	.00	.04
24	.00	---	---	---	.00	.00	.12	.01	.00	.57	.09	1.25
25	.00	---	---	---	.19	.00	.57	.08	2.64	.16	.00	.00
26	.00	---	---	---	.00	.00	.00	.70	.10	.35	.00	.00
27	.00	---	---	---	.00	.00	.00	.00	.00	.57	.00	.00
28	.00	---	---	---	.00	.00	.00	.35	.00	.00	.00	.00
29	.00	---	---	---	---	1.47	.00	.11	.00	.05	1.07	.00
30	.00	---	---	---	---	.06	.00	.00	.00	.71	.07	.00
31	.00	---	---	---	---	.10	---	.00	---	.00	.00	---
TOTAL	0.00	---	---	---	2.25	4.45	1.15	3.29	7.73	4.24	2.65	2.94



02122699 TUCKERTOWN RESERVOIR PRECIPITATION

LOCATION.--Lat 35°29'03", long 80°10'30", Montgomery County, Hydrologic Unit 03040102, Tuckertown Reservoir Dam.

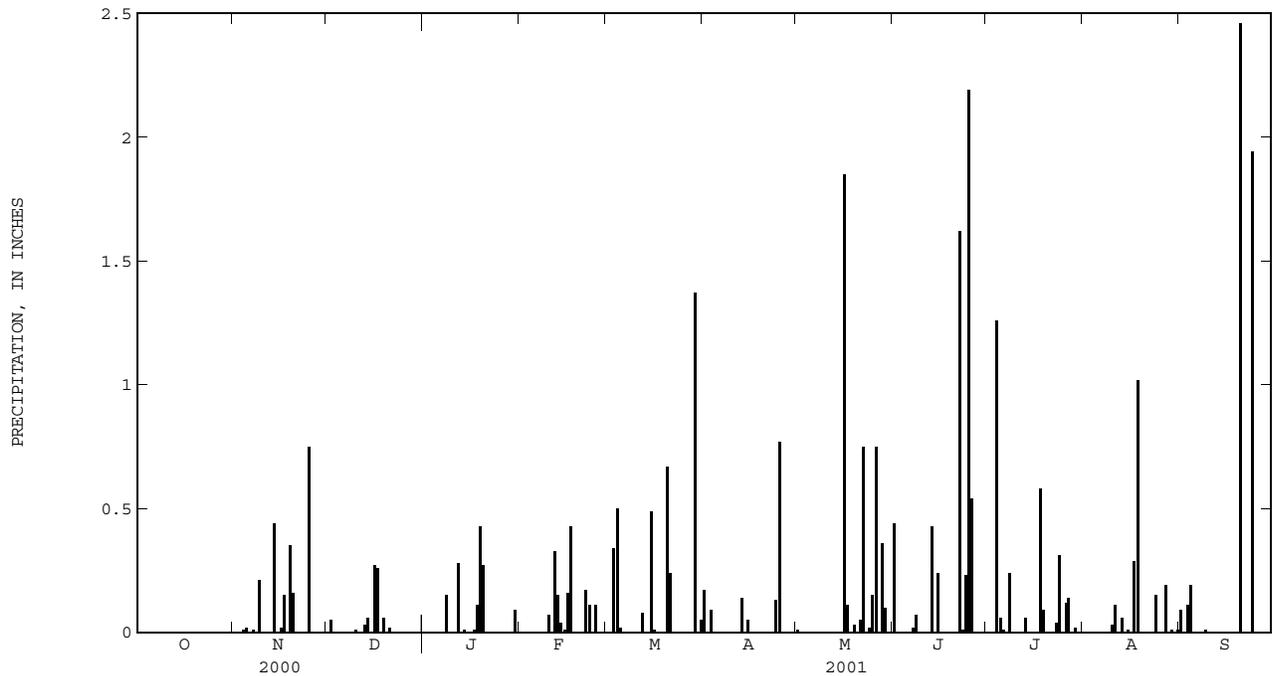
PERIOD OF RECORD.-- October 1998 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.17	.01	.44	.00	.00	.09
2	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.34	.09	.00	.00	.00	.00	.11
4	.00	.01	.00	.00	.00	.50	.00	.00	.00	1.26	.00	.19
5	.00	.02	.00	.00	.00	.02	.00	.00	.00	.06	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00
8	.00	.00	.00	.15	.00	.00	.00	.00	.07	.24	.00	.00
9	.00	.21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10	.00	.00	.01	.00	.07	.00	.00	.00	.00	.00	.03	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11	.00
12	.00	.00	.00	.28	.33	.08	.00	.00	.00	.00	.00	.00
13	.00	.00	.03	.00	.15	.00	.14	.00	.43	.06	.06	.00
14	.00	.44	.06	.01	.04	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.01	.49	.05	.00	.24	.00	.01	.00
16	.00	.02	.27	.00	.16	.01	.00	1.85	.00	.00	.00	.00
17	.00	.15	.26	.01	.43	.00	.00	.11	.00	.00	.29	.00
18	.00	.00	.00	.11	.00	.00	.00	.00	.00	.58	1.02	.00
19	.00	.35	.06	.43	.00	.00	.00	.03	.00	.09	.00	.00
20	.00	.16	.00	.27	.00	.67	.00	.00	.00	.00	.00	2.46
21	.00	.00	.02	.00	.00	.24	.00	.05	.00	.00	.00	.00
22	.00	.00	.00	.00	.17	.00	.00	.75	1.62	.00	.00	.00
23	.00	.00	.00	.00	.11	.00	.00	.00	.01	.04	.00	.00
24	.00	.00	.00	.00	.00	.00	.13	.02	.23	.31	.15	1.94
25	.00	.75	.00	.00	.11	.00	.77	.15	2.19	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.75	.54	.12	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.19	.00
28	.00	.00	.00	.00	.00	.00	.00	.36	.00	.00	.00	.00
29	.00	.00	.00	.00	---	1.37	.00	.10	.00	.02	.01	.00
30	.00	.00	.00	.09	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.05	---	.00	---	.00	.01	---
TOTAL	0.00	2.12	0.76	1.35	1.58	3.77	1.35	4.18	5.79	2.93	1.88	4.80



## PEE DEE RIVER BASIN

02123567 DUTCHMANS CREEK NEAR UWHARRIE, NC

LOCATION.--Lat 35°22'05", long 80°01'49", Montgomery County, Hydrologic Unit 03040103, near midstream at upstream end of two 6-ft corrugated metal-pipe culverts on Secondary Road 1150, 1.0 mi upstream from mouth, and 3.0 mi southwest of Uwharrie.

DRAINAGE AREA.--3.44 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1981 to September 1983, October 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 340 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum gage height for period of record, from floodmark. Minimum discharge for period of record also occurred periodically in July and Oct. 1986. Minimum discharge for current water year also occurred Sept. 16, 17, 18, 19, 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.42	.37	.53	e.86	1.1	1.5	4.1	1.2	1.4	.46	.29	.25
2	.38	.38	.54	e.86	1.0	1.4	3.3	1.2	2.2	.42	.28	.16
3	.37	.39	.56	e.89	.96	1.7	2.9	1.2	1.1	.36	.25	.15
4	.36	.43	.52	e.94	.95	8.8	2.7	1.1	.89	.49	.22	.25
5	.37	.45	.50	e.96	.97	4.3	2.4	1.0	.78	2.2	.20	.24
6	.34	.44	.52	.95	.93	2.9	2.3	.96	.71	.67	.18	.16
7	.33	.45	.52	.91	.91	2.3	2.2	.91	.75	.47	.17	.14
8	.30	.48	.52	1.1	.90	1.9	2.1	.91	.92	.61	.14	.11
9	.28	.53	.49	1.1	.90	1.8	1.9	.93	.84	.80	.12	.10
10	.29	.65	.56	.95	1.0	1.6	1.8	.89	.77	.58	.12	.11
11	.31	.54	.60	.91	.92	1.5	1.7	.84	.68	.45	.16	.09
12	.32	.48	.59	1.2	1.6	1.6	1.7	.82	.63	.37	.15	.07
13	.30	.47	.52	1.4	2.2	2.0	1.7	.78	.71	.35	.11	.06
14	.31	.91	.59	1.2	2.3	1.6	1.7	.71	1.0	.36	.10	.06
15	.30	.80	.59	1.1	1.8	3.9	1.6	.72	.87	.31	.09	.05
16	.29	.57	1.6	1.1	1.5	3.3	1.6	.85	.88	.28	.08	.04
17	.27	.82	13	1.0	14	2.4	1.4	3.5	.66	.25	.07	.04
18	.27	.75	2.2	1.0	3.6	2.0	1.4	1.2	.54	.23	1.1	.04
19	.29	.80	1.6	1.3	2.4	1.7	1.4	.98	.48	.33	1.4	.04
20	.28	1.2	1.4	4.8	2.0	2.7	1.4	.89	.44	.30	.40	.49
21	.29	1.0	1.1	2.1	1.8	7.1	1.4	.88	.44	.24	.25	.49
22	.31	.75	1.1	1.5	2.8	4.2	1.3	1.3	1.3	.20	.19	.10
23	.30	.69	.93	1.3	2.5	2.8	1.3	2.0	2.8	.23	.16	.08
24	.33	.62	.88	1.2	2.0	2.3	1.3	1.0	1.1	.78	.15	.27
25	.39	1.6	.85	1.1	2.0	2.0	2.9	.90	1.4	.97	.12	.26
26	.40	1.7	.85	1.0	2.1	1.8	1.9	1.3	1.1	.51	.11	.10
27	.41	.90	e.91	1.0	1.7	1.6	1.5	1.1	1.0	.44	.10	.07
28	.43	.68	e.89	.98	1.6	1.5	1.4	1.1	.71	.39	.08	.06
29	.42	.61	e.84	.98	---	20	1.3	1.4	.59	.37	.09	.08
30	.37	.58	e.82	1.2	---	19	1.2	1.1	.52	.39	.08	.14
31	.37	---	e.84	1.2	---	5.6	---	.88	---	.33	.19	---
TOTAL	10.40	21.04	37.96	38.09	58.44	118.8	56.8	34.55	28.21	15.14	7.15	4.30
MEAN	.34	.70	1.22	1.23	2.09	3.83	1.89	1.11	.94	.49	.23	.14
MAX	.43	1.7	13	4.8	14	20	4.1	3.5	2.8	2.2	1.4	.49
MIN	.27	.37	.49	.86	.90	1.4	1.2	.71	.44	.20	.07	.04
CFSM	.10	.20	.36	.36	.61	1.11	.55	.32	.27	.14	.07	.04
IN.	.11	.23	.41	.41	.63	1.28	.61	.37	.31	.16	.08	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2001,<sup>®</sup> BY WATER YEAR (WY)

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	3.02	2.69	2.68	5.54	6.07	7.41	5.15	2.81	1.79	1.51	1.74	1.54								
MAX	11.9	8.69	4.81	17.5	15.9	22.5	10.2	6.49	5.28	8.80	11.2	7.81								
(WY)	1991	1986	1991	1998	1998	1998	1992	1990	1994	1997	1996	1996								
MIN	.19	.70	1.22	1.23	1.83	2.86	1.41	.82	.24	.26	.23	.14								
(WY)	1987	2001	2001	2001	1986	1999	1986	1986	1986	1986	2001	2001								

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1982 - 2001<sup>®</sup>

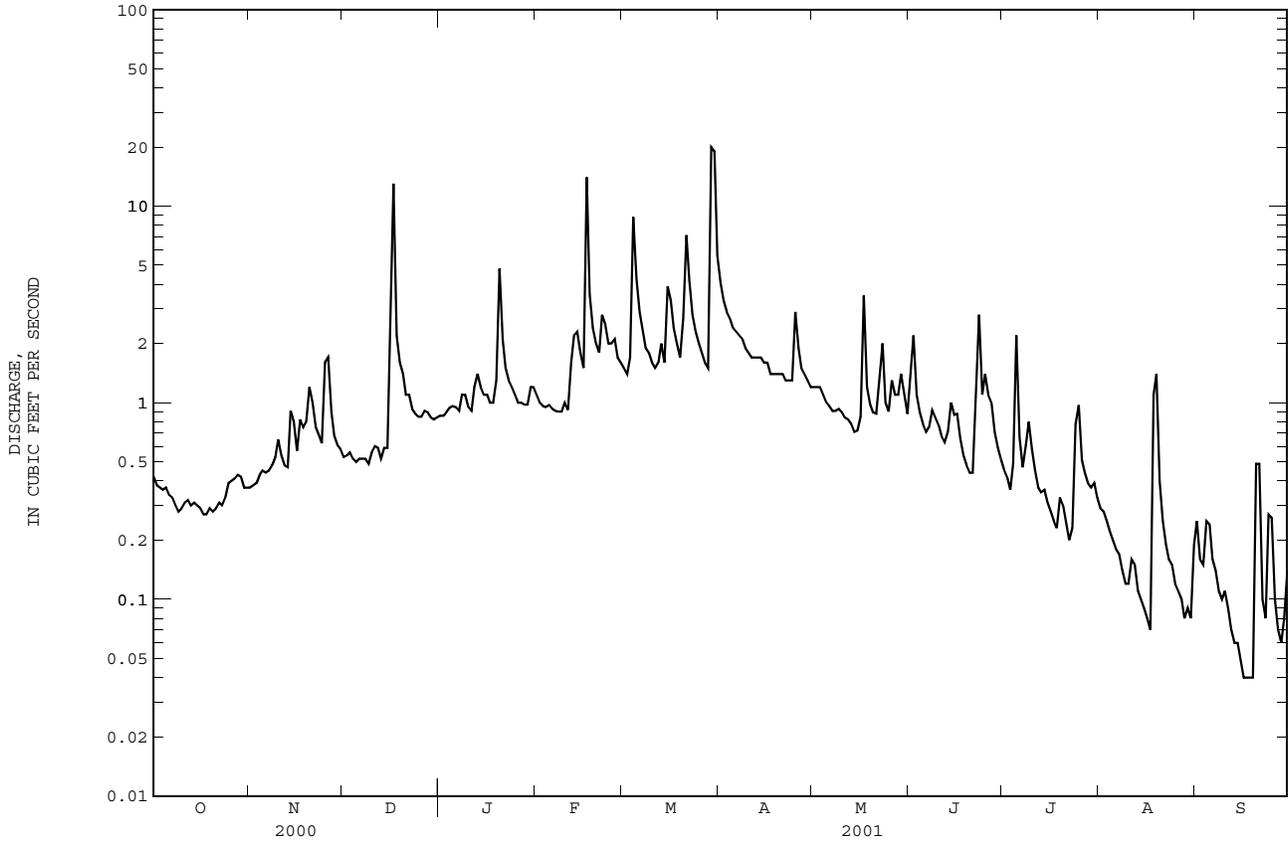
ANNUAL TOTAL	738.95	430.88	
ANNUAL MEAN	2.02	1.18	3.48
HIGHEST ANNUAL MEAN			7.16
LOWEST ANNUAL MEAN			.41
HIGHEST DAILY MEAN	22	Jan 30	206
LOWEST DAILY MEAN	.23	Aug 27	.01
ANNUAL SEVEN-DAY MINIMUM	.26	Aug 21	.03
MAXIMUM PEAK FLOW			90
MAXIMUM PEAK STAGE			3.66
INSTANTANEOUS LOW FLOW			.04*
ANNUAL RUNOFF (CFSM)	.59	.34	1.01
ANNUAL RUNOFF (INCHES)	7.99	4.66	13.76
10 PERCENT EXCEEDS	4.7	2.2	5.8
50 PERCENT EXCEEDS	.93	.85	1.7
90 PERCENT EXCEEDS	.34	.15	.36

e Estimated.

<sup>®</sup> See PERIOD OF RECORD.

\* See REMARKS.

02123567 DUTCHMANS CREEK NEAR UWHARRIE, NC--Continued



PEE DEE RIVER BASIN

0212414900 MALLARD CREEK BELOW STONY CREEK NEAR HARRISBURG, NC

LOCATION.--Lat 35°19'57", long 80°42'58", Mecklenburg County, Hydrologic Unit 03040105, on left bank on upstream side of bridge at Pavillion Blvd, 0.1 mi downstream of Stony Creek, and 3.8 mi northwest of Harrisburg.

DRAINAGE AREA.--34.6 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1994 to current year.

GAGE.--Water-stage recorder. Datum of gage is 568.40 ft above sea level, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except discharges below 1 ft<sup>3</sup>/s and those for estimated daily discharges, which are poor. Maximum discharge for period of record from contracted opening measurement of peak flow; maximum gage height for period of record from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	2.2	6.8	e5.8	7.7	15	49	6.1	30	5.4	2.0	.67
2	2.7	2.6	6.9	e5.7	6.9	12	31	5.9	16	5.6	1.8	.86
3	2.7	2.7	6.6	e5.6	6.7	26	35	5.3	6.6	8.6	1.8	85
4	2.5	2.5	6.1	e5.5	6.5	190	27	5.4	4.9	92	1.7	202
5	2.6	3.2	6.4	e5.3	6.5	48	22	5.1	4.4	50	e1.8	14
6	2.6	2.6	6.1	e5.3	6.0	24	19	4.9	3.6	7.6	1.8	4.7
7	2.4	2.3	6.2	e5.2	6.8	18	18	4.7	e10	5.0	1.8	3.0
8	2.2	2.2	6.1	19	6.2	14	16	4.6	e8.0	5.7	e1.5	2.5
9	2.4	21	6.4	10	6.6	13	15	4.8	6.2	5.2	e1.2	4.8
10	2.5	25	5.9	6.7	11	12	14	5.2	4.6	4.2	1.1	3.1
11	3.0	6.9	5.8	6.5	6.9	11	13	4.8	3.9	3.7	7.6	2.1
12	3.1	5.8	5.0	14	12	16	13	4.7	4.0	3.7	6.0	2.2
13	3.6	5.1	5.5	15	13	23	36	4.2	83	3.9	e1.2	2.2
14	2.8	34	12	7.9	19	12	16	4.0	40	3.3	e1.0	2.1
15	2.6	10	8.1	7.0	9.5	125	14	3.4	17	2.9	e2.0	2.3
16	2.5	6.2	20	6.5	8.3	47	12	3.8	8.9	2.6	e1.4	2.4
17	2.6	23	64	5.8	164	24	9.7	3.8	5.7	2.2	1.1	2.5
18	2.4	9.1	13	8.9	28	16	9.5	3.9	4.9	2.1	4.0	2.0
19	3.1	34	12	67	17	14	9.1	3.6	4.9	6.2	3.1	1.6
20	2.5	29	12	73	13	131	11	3.6	3.4	2.7	1.1	21
21	2.8	13	e7.9	31	12	463	9.1	14	3.2	2.3	.78	3.5
22	3.3	7.6	e7.9	15	53	63	8.6	25	89	2.1	.86	2.0
23	2.3	6.4	e6.9	12	22	33	7.9	15	26	2.1	.52	1.8
24	2.5	5.8	e6.4	10	15	24	8.4	9.8	9.2	9.1	1.3	239
25	2.7	88	e6.3	8.9	74	19	54	14	38	13	1.3	19
26	2.8	30	e6.3	8.6	33	17	13	39	15	17	.88	4.6
27	2.7	12	e6.2	8.1	18	14	9.2	7.7	11	3.6	.88	2.7
28	3.2	8.9	e6.2	7.8	14	12	7.8	41	53	2.7	.54	2.4
29	2.8	7.1	e5.9	7.4	---	617	6.8	24	15	2.7	.70	2.9
30	3.1	6.8	e5.9	15	---	344	6.5	9.0	6.6	2.5	.53	2.2
31	3.0	---	e5.8	9.0	---	61	---	5.7	---	2.1	.68	---
TOTAL	85.2	415.0	292.6	418.5	602.6	2458	520.6	296.0	536.0	281.8	53.97	641.13
MEAN	2.75	13.8	9.44	13.5	21.5	79.3	17.4	9.55	17.9	9.09	1.74	21.4
MAX	3.6	88	64	73	164	617	54	41	89	92	7.6	239
MIN	2.2	2.2	5.0	5.2	6.0	11	6.5	3.4	3.2	2.1	.52	.67
CFSM	.08	.40	.27	.39	.62	2.29	.50	.28	.52	.26	.05	.62
IN.	.09	.45	.31	.45	.65	2.64	.56	.32	.58	.30	.06	.69

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2001, BY WATER YEAR (WY)

	1995	1996	1997	1998	1999	2000	2001
MEAN	28.5	33.4	26.9	62.0	58.9	55.1	44.5
MAX	53.7	90.4	64.3	147	95.0	79.3	77.0
(WY)	1996	1996	1998	1998	1997	2001	1997
MIN	2.75	8.94	9.44	13.5	21.5	15.5	11.2
(WY)	2001	1999	2001	2001	2001	1999	1995

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

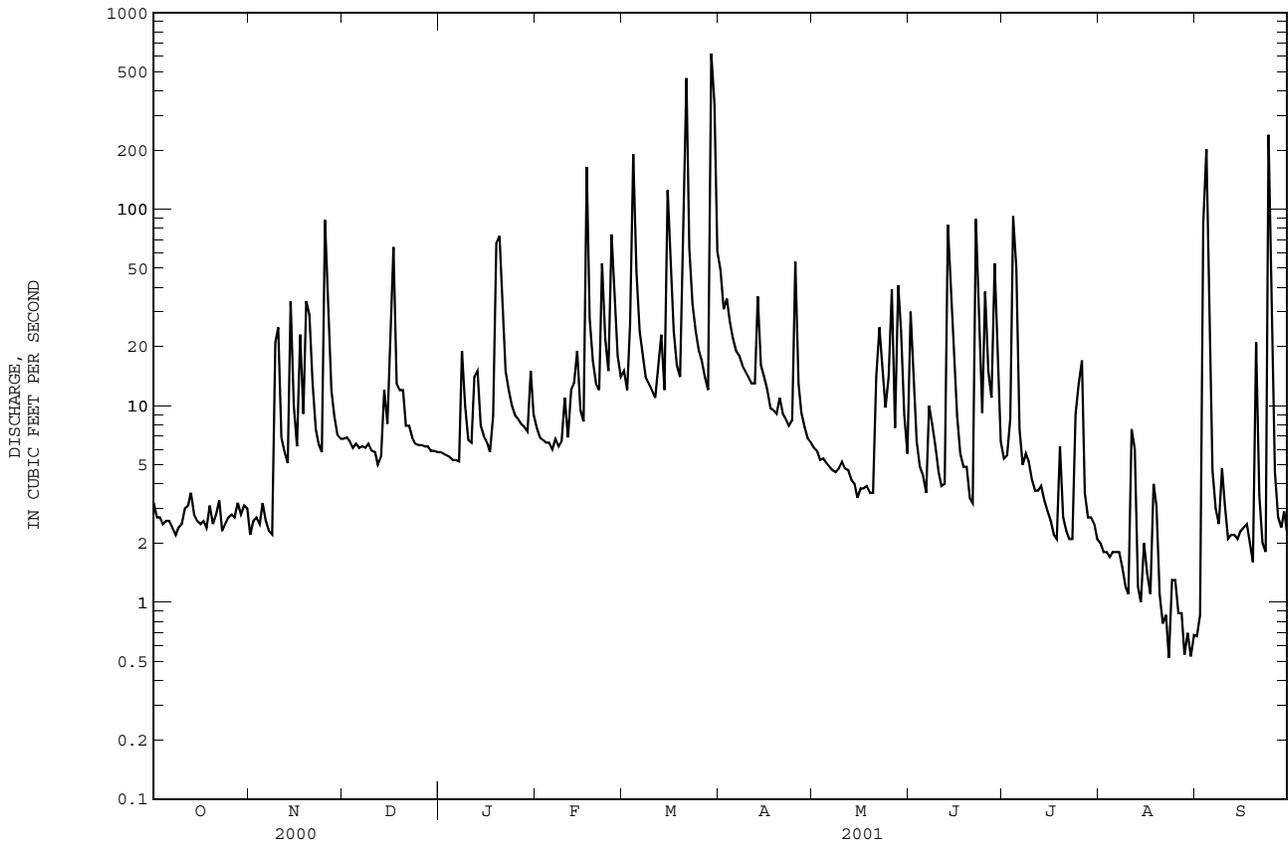
FOR 2001 WATER YEAR

WATER YEARS 1995 - 2001

ANNUAL TOTAL	10742.3	6601.40	
ANNUAL MEAN	29.4	18.1	35.1
HIGHEST ANNUAL MEAN			51.1
LOWEST ANNUAL MEAN			18.1
HIGHEST DAILY MEAN	754	Sep 23	617
LOWEST DAILY MEAN	1.0	Jul 4	.52
ANNUAL SEVEN-DAY MINIMUM	2.5	Oct 4	.69
MAXIMUM PEAK FLOW			2000
MAXIMUM PEAK STAGE			13.04
INSTANTANEOUS LOW FLOW			.15
ANNUAL RUNOFF (CFSM)	.85		.52
ANNUAL RUNOFF (INCHES)	11.55		7.10
10 PERCENT EXCEEDS	59		33
50 PERCENT EXCEEDS	9.4		6.4
90 PERCENT EXCEEDS	2.7		2.1
			3.7

e Estimated.  
\* See REMARKS.

0212414900 MALLARD CREEK BELOW STONY CREEK NEAR HARRISBURG, NC--Continued



## PEE DEE RIVER BASIN

0212414900 MALLARD CREEK BELOW STONY CREEK NEAR HARRISBURG, NC--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 2000 to September 2001

INSTRUMENTATION.--Optical backscatterance sensor.

REMARKS.--Station operated in cooperation with Mecklenburg County and City of Charlotte to characterize suspended sediment concentrations in Mallard Creek basin.

## WATER-QUALITY DATA, FOR PERIOD JANUARY 2000 TO SEPTEMBER 2001

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
JAN				
07...	1530	7.8	8	.16
10...	1530	270	453	330
11...	1600	39	27	2.9
FEB				
02...	1630	32	14	1.2
MAR				
23...	1400	32	19	1.6
APR				
28...	1323	86	184	43
MAY				
04...	1230	17	18	.84
25...	1245	4.6	9	.12
JUL				
26...	1045	7.1	33	.64
AUG				
03...	1115	8.5	64	1.5
29...	1330	4.3	5	.06
SEP				
21...	1230	8.1	17	.37
OCT				
19...	1245	3.6	4	.04
NOV				
30...	1330	6.5	8	.14
JUN				
11...	1020	3.4	36	.33
27...	0945	10	90	2.4
JUL				
06...	1225	6.8	77	1.4
13...	1400	4.5	39	.48
AUG				
23...	1125	.68	9	.02
31...	1000	.68	6	.01
SEP				
24...	1222	968	2290	5990



Gaging station at North Buffalo Creek at Westover Terrace at Greensboro, North Carolina.

## PEE DEE RIVER BASIN

0212433550 ROCKY RIVER ABOVE IRISH BUFFALO CREEK NEAR ROCKY RIVER, NC

LOCATION.--Lat 35°19'22", long 80°32'17", Cabarrus County, Hydrologic Unit 03040105, on left bank at end of maintenance road located within Rocky River Wastewater Treatment Facility, 0.40 mi above confluence with Irish Buffalo Creek, and 1.9 mi northeast of Rocky River.

DRAINAGE AREA.--278 mi<sup>2</sup>.

PERIOD OF RECORD.--April 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 500 ft above sea level (from topographic map). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. A daily average of 7.8 ft<sup>3</sup>/s for the period April to September 2000, and 8.5 ft<sup>3</sup>/s for the current water year, of treated sewage effluent from the Mallard Creek Wastewater Treatment Plant was discharged into the river approximately 7 mi upstream of the gaging station. A daily average of approximately 4.0 ft<sup>3</sup>/s for the period April 2000 to September 2000, and 3.7 ft<sup>3</sup>/s for the current water year, of treated sewage effluent from the Mooresville Wastewater Treatment Plant was discharged into the river approximately 15 mi upstream of the gaging station. Minimum discharge for period of record and current water year affected by regulation. Minimum discharge for period April to September 2000 also occurred June 6, July 23, and Aug. 30. Minimum discharge for period of record and current water year also occurred Sept. 1, 3.

DISCHARGE, CUBIC FEET PER SECOND, FOR PERIOD APRIL TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e140	154	42	49	123	68
2	---	---	---	---	---	---	e120	124	45	41	116	236
3	---	---	---	---	---	---	e130	210	42	38	85	485
4	---	---	---	---	---	---	e200	172	42	35	839	663
5	---	---	---	---	---	---	e153	119	49	34	235	275
6	---	---	---	---	---	---	e126	102	87	35	90	106
7	---	---	---	---	---	---	e115	94	54	64	62	70
8	---	---	---	---	---	---	120	88	45	87	54	60
9	---	---	---	---	---	---	490	81	41	50	49	53
10	---	---	---	---	---	---	189	78	40	41	113	47
11	---	---	---	---	---	---	138	75	38	34	86	43
12	---	---	---	---	---	---	119	69	37	131	50	42
13	---	---	---	---	---	---	152	66	37	287	41	40
14	---	---	---	---	---	---	223	89	36	109	39	40
15	---	---	---	---	---	---	775	77	35	77	33	38
16	---	---	---	---	---	---	750	62	36	53	33	34
17	---	---	---	---	---	---	346	59	37	42	33	32
18	---	---	---	---	---	---	348	57	36	36	35	35
19	---	---	---	---	---	---	258	55	36	33	160	235
20	---	---	---	---	---	---	176	54	36	45	51	117
21	---	---	---	---	---	---	147	52	35	42	38	59
22	---	---	---	---	---	---	126	120	33	32	34	151
23	---	---	---	---	---	---	115	69	33	30	33	1760
24	---	---	---	---	---	---	108	57	30	57	33	491
25	---	---	---	---	---	---	192	59	29	71	38	345
26	---	---	---	---	---	---	187	62	44	62	37	443
27	---	---	---	---	---	---	132	53	44	43	32	131
28	---	---	---	---	---	---	248	48	39	35	32	89
29	---	---	---	---	---	---	346	50	165	49	30	71
30	---	---	---	---	---	---	204	55	65	42	29	59
31	---	---	---	---	---	---	---	48	---	32	32	---
TOTAL	---	---	---	---	---	---	6873	2558	1368	1816	2695	6318
MEAN	---	---	---	---	---	---	229	82.5	45.6	58.6	86.9	211
MAX	---	---	---	---	---	---	775	210	165	287	839	1760
MIN	---	---	---	---	---	---	108	48	29	30	29	32
CFSM	---	---	---	---	---	---	.82	.30	.16	.21	.31	.76
IN.	---	---	---	---	---	---	.22	.34	.18	.24	.36	.85

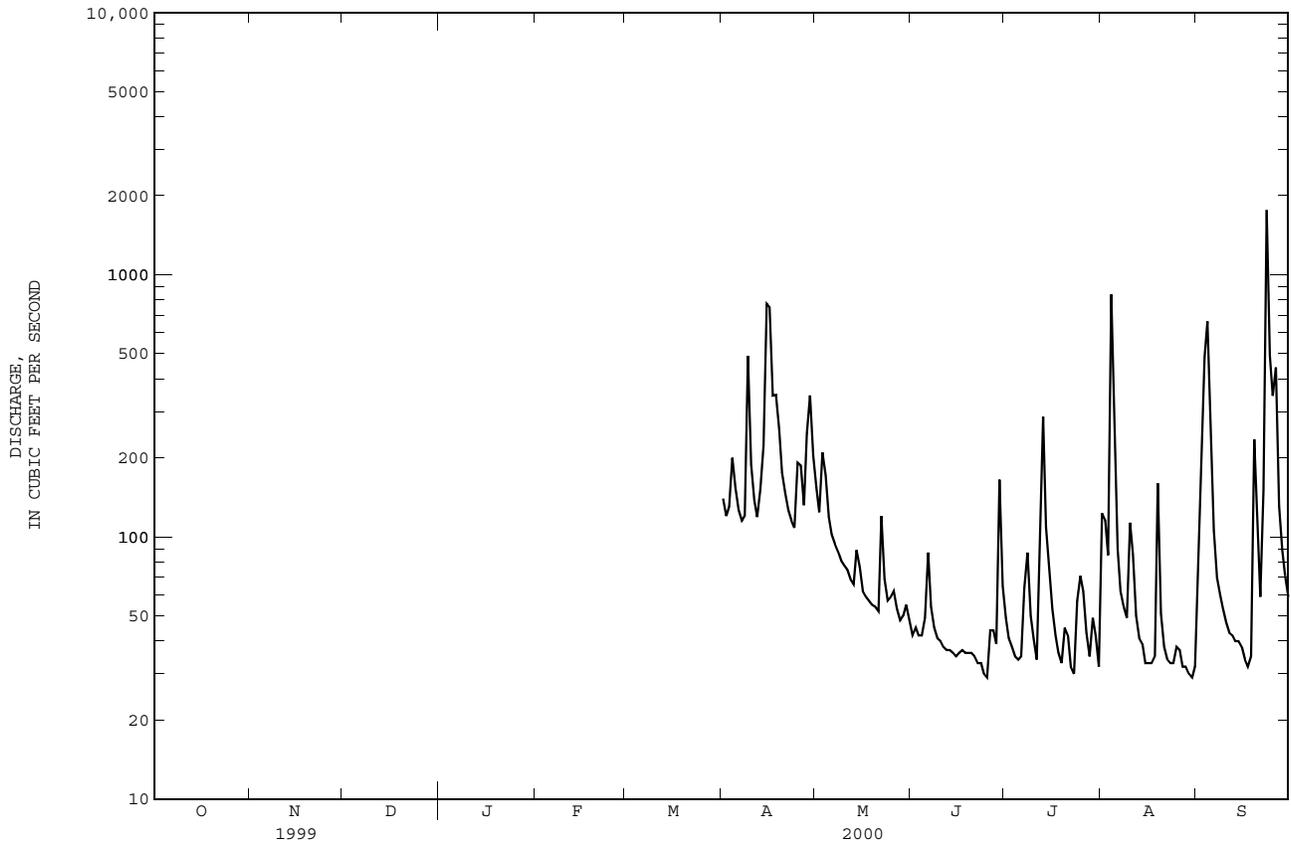
## SUMMARY STATISTICS

FOR PERIOD APRIL TO SEPTEMBER 2000

MAXIMUM PEAK FLOW	2670	Sep 23
MAXIMUM PEAK STAGE	11.77	Sep 23
INSTANTANEOUS LOW FLOW	26*	Jun 25

e Estimated.  
\* See REMARKS.

0212433550 ROCKY RIVER ABOVE IRISH BUFFALO CREEK NEAR ROCKY RIVER, NC--Continued



PEE DEE RIVER BASIN

0212433550 ROCKY RIVER ABOVE IRISH BUFFALO CREEK NEAR ROCKY RIVER, NC--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e53	35	55	e43	67	96	371	54	65	45	34	23
2	e51	34	51	e44	63	91	259	52	169	40	32	24
3	e45	34	51	e45	60	86	194	50	81	37	30	65
4	e43	34	50	e47	58	617	191	48	54	112	28	340
5	e43	36	48	e48	59	350	156	47	46	745	28	275
6	e43	38	49	e50	56	190	138	45	44	217	27	84
7	e43	36	50	e53	56	136	125	44	41	114	26	53
8	e42	37	50	56	56	111	117	42	41	70	26	43
9	e38	40	49	87	e59	101	110	43	51	70	25	36
10	e37	81	48	65	e60	92	101	44	42	60	31	40
11	e36	62	49	57	e65	86	96	42	39	50	326	34
12	e32	44	48	58	e68	84	92	41	37	45	283	31
13	32	39	46	82	e85	113	96	40	49	41	77	29
14	30	53	52	69	92	98	128	40	368	49	53	28
15	30	85	62	60	82	221	90	37	86	44	39	30
16	32	58	58	58	70	401	89	36	54	37	32	26
17	31	57	153	55	444	200	81	40	61	34	30	26
18	33	70	125	53	282	141	74	38	43	33	41	25
19	31	58	80	77	134	113	75	41	36	58	47	25
20	31	120	72	317	107	134	73	77	34	53	34	46
21	30	84	63	218	92	1470	73	59	33	56	28	65
22	32	62	60	121	136	632	70	75	84	36	25	40
23	32	52	55	92	168	276	70	111	360	33	25	31
24	30	48	e51	82	110	187	65	73	111	35	26	574
25	37	106	e47	75	136	148	130	63	476	72	27	384
26	34	247	e45	67	253	132	125	129	147	81	26	94
27	34	103	e44	66	140	115	75	94	90	80	23	55
28	34	70	e43	63	108	105	64	85	60	47	22	46
29	35	63	e42	63	---	696	59	127	173	39	22	38
30	36	57	e41	71	---	2560	56	95	65	38	22	35
31	35	---	e42	84	---	825	---	57	---	38	22	---
TOTAL	1125	1943	1779	2426	3166	10607	3443	1869	3040	2509	1517	2645
MEAN	36.3	64.8	57.4	78.3	113	342	115	60.3	101	80.9	48.9	88.2
MAX	53	247	153	317	444	2560	371	129	476	745	326	574
MIN	30	34	41	43	56	84	56	36	33	33	22	23
CFSM	.13	.23	.21	.28	.41	1.23	.41	.22	.36	.29	.18	.32
IN.	.15	.26	.24	.32	.42	1.42	.46	.25	.41	.34	.20	.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

	2000	2001	2001	2001	2001	2001	2000	2000	2001	2001	2000	2001
MEAN	36.3	64.8	57.4	78.3	113	342	172	71.4	73.5	69.8	67.9	149
MAX	36.3	64.8	57.4	78.3	113	342	229	82.5	101	80.9	86.9	211
(WY)	2001	2001	2001	2001	2001	2001	2000	2000	2001	2001	2000	2000
MIN	36.3	64.8	57.4	78.3	113	342	115	60.3	45.6	58.6	48.9	88.2
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2000	2000	2001	2001

SUMMARY STATISTICS

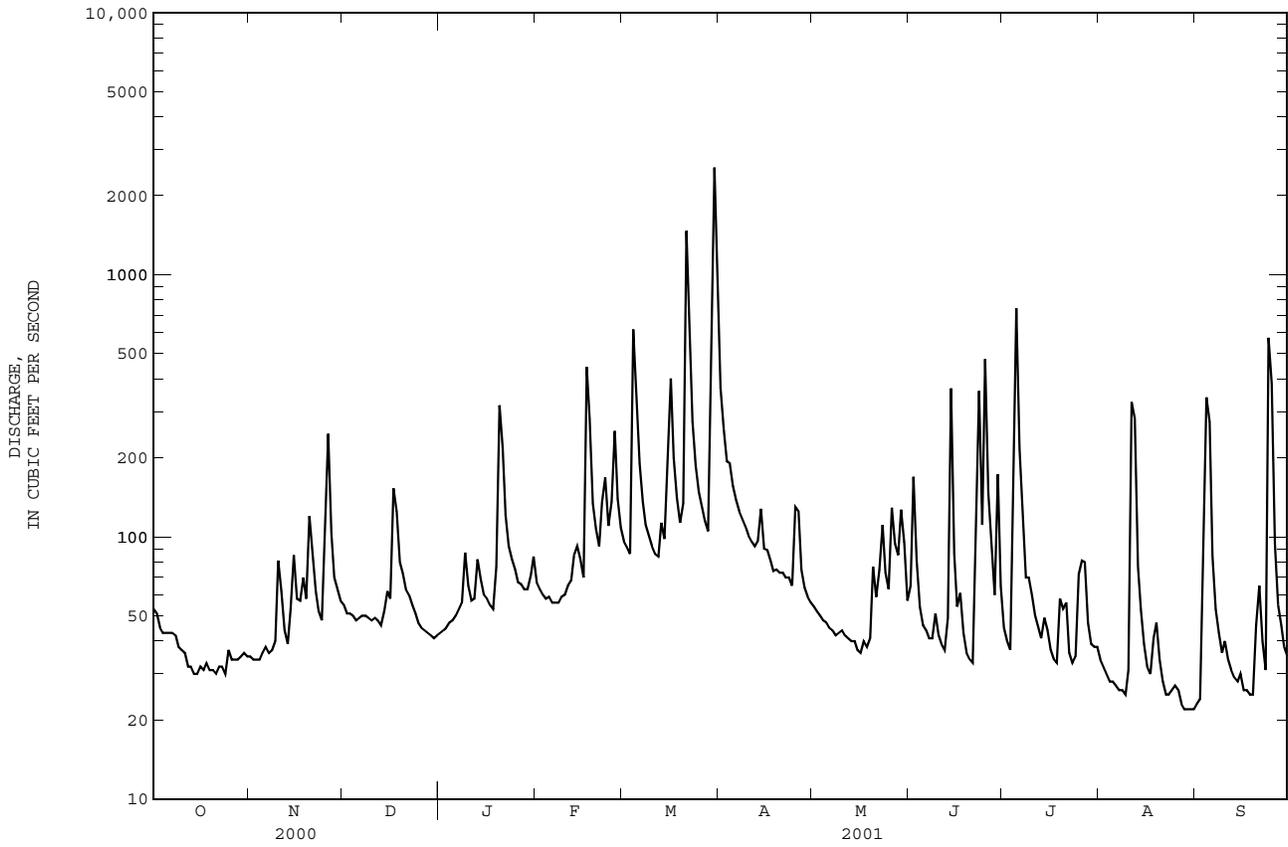
FOR 2001 WATER YEAR

WATER YEARS 2000 - 2001

ANNUAL TOTAL	36069		
ANNUAL MEAN	98.8	105	
HIGHEST ANNUAL MEAN		118	2000
LOWEST ANNUAL MEAN		98.8	2001
HIGHEST DAILY MEAN	2560	Mar 30	2560
LOWEST DAILY MEAN	22	Aug 28	22
ANNUAL SEVEN-DAY MINIMUM	23	Aug 27	23
MAXIMUM PEAK FLOW	3810	Mar 30	3810
MAXIMUM PEAK STAGE	14.67	Mar 30	14.67
INSTANTANEOUS LOW FLOW	19*	Aug 29	19*
ANNUAL RUNOFF (CFSM)	.36		.38
ANNUAL RUNOFF (INCHES)	4.83		5.15
10 PERCENT EXCEEDS	168		195
50 PERCENT EXCEEDS	56		56
90 PERCENT EXCEEDS	31		32

e Estimated.  
\* See REMARKS.

0212433550 ROCKY RIVER ABOVE IRISH BUFFALO CREEK NEAR ROCKY RIVER, NC--Continued



PEE DEE RIVER BASIN

02124692 GOOSE CREEK NEAR FAIRVIEW, NC

LOCATION.--Lat 35°09'14", long 80°32'09", Union County, Hydrologic Unit 03040105, on right bank at downstream side of culvert on U.S. Highway 601, 1.0 mi north of Fairview, and 2.0 mi above Duck Creek.

DRAINAGE AREA.--24.0 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1999 to current year.

REVISED RECORDS.--WSP 822: Drainage area. WSP 852: 1935-37(m).

GAGE.--Water-stage recorder. Elevation of gage is 475 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharge, which are poor. Maximum discharge for period of record from rating curve extended above 280 ft<sup>3</sup>/s. Minimum discharge for period of record and current water year also occurred Aug. 31, Sept. 1-3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.83	.77	1.6	1.7	2.2	3.5	21	2.2	20	.88	.69	.15
2	.83	.69	1.4	1.7	1.9	3.1	16	1.6	22	.78	.61	.17
3	.85	.43	2.9	1.7	2.0	3.3	10	1.6	4.9	.87	.56	.32
4	.64	.40	5.4	1.7	1.9	82	9.5	2.9	2.9	1.8	.48	22
5	.77	.43	5.5	1.9	1.9	27	7.1	1.6	2.5	7.2	.31	4.2
6	.74	.68	5.0	1.9	1.9	11	6.4	2.1	2.0	1.8	.28	.71
7	.73	1.3	4.4	1.8	1.8	6.4	5.5	1.9	2.2	1.1	.43	.40
8	.51	1.5	3.9	2.1	1.7	4.9	4.9	1.9	2.0	.92	.22	.37
9	.54	1.1	3.7	2.3	1.7	4.3	4.4	1.7	1.8	.85	e.20	.45
10	.47	1.0	3.5	2.0	1.8	3.7	3.9	1.8	1.7	.93	e.50	.55
11	.66	1.2	3.3	1.7	1.9	3.2	3.5	1.3	1.4	.91	5.3	.64
12	.71	1.4	3.2	2.5	1.9	3.3	3.4	1.2	1.2	.78	.55	.47
13	.67	1.2	2.8	16	3.1	6.7	3.2	1.5	4.5	.73	.31	.30
14	.61	1.4	1.8	5.4	4.4	4.3	4.3	1.7	62	1.7	.34	.27
15	.79	3.0	1.4	3.8	4.1	60	3.3	1.4	4.9	.88	.66	.35
16	.89	1.3	1.7	3.4	2.9	31	3.2	2.0	24	.70	.51	.37
17	.69	1.1	11	2.9	68	12	2.8	1.6	22	.51	.31	.27
18	.68	1.4	4.7	2.8	15	7.2	2.4	2.0	3.4	.49	.30	.27
19	.62	1.4	2.7	3.3	6.1	5.3	2.6	1.9	2.1	.52	.69	.29
20	.48	4.5	2.4	41	4.2	44	2.4	27	1.7	.64	.58	.51
21	.56	1.7	2.2	12	3.6	246	2.4	3.4	1.4	.57	.41	1.3
22	.55	1.1	2.1	5.1	18	49	2.4	1.9	1.3	.35	.34	.41
23	.64	.96	1.9	3.4	15	20	2.3	11	2.2	.27	.36	.25
24	.75	.88	1.7	3.1	6.5	12	2.1	2.4	1.6	.45	.32	84
25	.54	27	1.7	2.6	6.0	8.3	24	2.4	1.1	4.6	.29	14
26	.65	18	1.6	2.2	8.3	6.8	9.4	24	1.0	9.8	.24	1.5
27	.60	4.0	1.6	2.1	4.9	5.5	4.2	5.6	.92	1.8	.24	.76
28	.79	2.1	2.0	2.1	4.0	4.9	3.0	3.3	1.0	.81	.21	.55
29	.90	1.8	2.0	2.0	---	171	2.5	6.0	.71	.84	.19	.42
30	.95	1.6	1.8	2.2	---	158	2.4	3.9	.78	1.1	.18	.37
31	.94	---	1.7	2.7	---	32	---	2.4	---	.71	.17	---
TOTAL	21.58	85.34	92.6	141.1	196.7	1039.7	174.5	127.2	201.21	46.29	16.78	136.62
MEAN	.70	2.84	2.99	4.55	7.03	33.5	5.82	4.10	6.71	1.49	.54	4.55
MAX	.95	27	11	41	68	246	24	27	62	9.8	5.3	84
MIN	.47	.40	1.4	1.7	1.7	3.1	2.1	1.2	.71	.27	.17	.15
CFSM	.03	.12	.12	.19	.29	1.40	.24	.17	.28	.06	.02	.19
IN.	.03	.13	.14	.22	.30	1.61	.27	.20	.31	.07	.03	.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

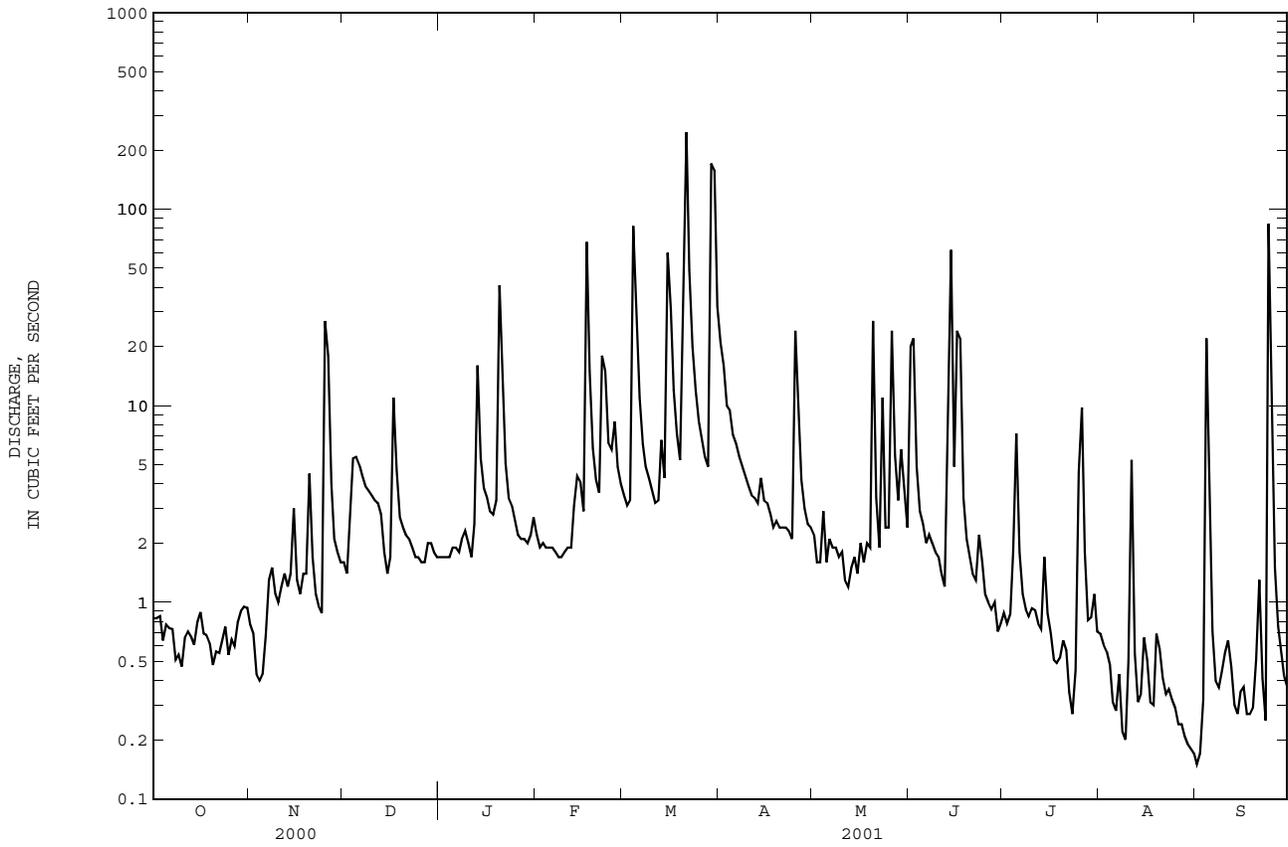
	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MEAN	.70	4.06	6.52	18.8	28.3	24.6	8.29	3.46	8.44	1.61	1.43	5.64
MAX	.70	5.27	10.0	33.1	48.8	33.5	10.8	4.10	10.2	1.72	2.31	6.73
(WY)	2001	2000	2000	2000	2000	2001	2000	2001	2000	2000	2000	2000
MIN	.70	2.84	2.99	4.55	7.03	15.7	5.82	2.81	6.71	1.49	.54	4.55
(WY)	2001	2001	2001	2001	2001	2000	2001	2000	2001	2001	2001	2001

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 2000 - 2001

ANNUAL TOTAL	4168.30	2279.62	
ANNUAL MEAN	11.4	6.25	6.25
HIGHEST ANNUAL MEAN			6.25
LOWEST ANNUAL MEAN			6.25
HIGHEST DAILY MEAN	270	Feb 14	270
LOWEST DAILY MEAN	.29	Aug 22	.15
ANNUAL SEVEN-DAY MINIMUM	.44	Aug 18	.19
MAXIMUM PEAK FLOW			671
MAXIMUM PEAK STAGE			6.95
INSTANTANEOUS LOW FLOW			.14*
ANNUAL RUNOFF (CFSM)	.47		.26
ANNUAL RUNOFF (INCHES)	6.46		3.53
10 PERCENT EXCEEDS	23		11
50 PERCENT EXCEEDS	2.6		1.8
90 PERCENT EXCEEDS	.67		.41

e Estimated.  
\* See REMARKS.

02124692 GOOSE CREEK NEAR FAIRVIEW, NC--Continued



## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2000 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1999 to current year.

pH: November 1999 to current year.

WATER TEMPERATURE: November 1999 to current year.

DISSOLVED OXYGEN: November 1999 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION: November 1999 to current year.

INSTRUMENTATION.-- Water-quality monitor with satellite telemetry from November 1999 to current year, optical backscatterance sensor from April 2000 to current year.

REMARKS.--Station operated in cooperation with North Carolina Department of Transportation to characterize water-quality and suspended sediment concentrations in the Goose Creek basin. Dissolved oxygen, percent saturation, computed using barometric pressure of 747 mm Hg.

EXTREMES FOR PERIOD OF DAILY RECORD.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	414, April 25, 2001	62, February 14, 2000
pH, standard units	8.2, March 9, 2000	6.1, March 21, 2001
WATER TEMPERATURE, °C	26.4, August 9, 2000	0.2, January 28, 2000, January 4, 2001
DISSOLVED OXYGEN, mg/L	12.9, January 27, 2000, January 3, 11, 2001	2.7, September 2, 2001
DISSOLVED OXYGEN, PERCENT SATURATION,%	116, March 9, 2000	30, October 28, 2000

EXTREMES FOR CURRENT YEAR.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	414, April 25	70, September 24
pH, standard units	7.8, February 5, March 14	6.1, March 21
WATER TEMPERATURE, °C	26.3, August 10	0.2, January 4
DISSOLVED OXYGEN, mg/L	12.9, January 3, 11	2.7, September 2
DISSOLVED OXYGEN, PERCENT SATURATION,%	110, March 14	30, October 28

02124692 GOOSE CREEK AT FAIRVIEW, NC--Continued

WATER-QUALITY DATA, FOR PERIOD APRIL 2000 TO SEPTEMBER 2001

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY) (80155)
APR				
27...	1415	6.9	12	.23
MAY				
02...	1115	5.0	9	.12
04...	1015	4.3	6	.06
04...	1045	4.3	8	.09
11...	0800	2.9	14	.11
18...	0730	2.6	31	.22
25...	0715	2.4	33	.21
JUN				
01...	1100	1.1	2	.01
08...	1000	5.0	14	.19
JUL				
13...	0945	4.6	22	.27
20...	0745	.97	31	.08
AUG				
03...	0715	3.1	36	.30
10...	1000	2.6	52	.37
17...	0900	.39	11	.01
24...	1030	.32	5	.00
OCT				
05...	0845	.84	6	.01
NOV				
14...	1345	1.4	6	.02
DEC				
20...	1215	2.4	7	.05
MAR				
21...	0900	272	463	340
21...	1015	211	292	167
21...	1145	164	198	88
JUN				
15...	1100	4.6	36	.45
22...	1245	1.2	73	.24
29...	1200	.73	83	.16
JUL				
05...	1415	6.9	62	1.1
12...	1440	.63	47	.08
19...	1520	.54	65	.09
AUG				
01...	1610	.63	11	.02
10...	1310	.46	13	.02
10...	1320	.46	6	.01
15...	1105	.73	14	.03
15...	1115	.73	16	.03
SEP				
05...	1530	2.4	70	.46
05...	1540	2.4	67	.43

## PEE DEE RIVER BASIN

02124692 GOOSE CREEK AT FAIRVIEW, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	147	142	144	328	301	306	168	162	165	244	237	240
2	152	146	149	319	306	310	179	168	173	244	243	243
3	159	152	156	328	310	316	193	179	184	244	241	243
4	167	159	163	319	314	315	225	193	209	252	242	244
5	177	167	170	319	315	317	226	148	198	247	243	245
6	182	173	178	389	317	325	148	136	143	255	246	250
7	186	182	184	322	317	319	145	130	134	260	255	258
8	190	186	188	376	320	323	131	127	129	274	246	254
9	195	190	192	374	314	323	135	126	130	246	229	238
10	200	195	197	327	320	322	136	135	135	229	217	223
11	224	200	205	322	319	321	139	135	138	238	212	215
12	210	204	206	321	319	320	152	139	140	217	204	209
13	215	208	211	319	316	317	151	140	145	223	199	212
14	217	214	215	316	303	311	181	149	152	199	174	181
15	222	217	219	313	300	308	155	149	151	179	174	176
16	228	222	225	308	289	295	157	147	154	181	177	179
17	232	228	230	289	282	285	204	149	166	184	179	182
18	236	232	234	282	278	281	204	197	200	195	180	186
19	237	236	236	278	262	268	202	197	200	205	192	196
20	256	237	241	296	263	275	197	190	195	221	179	196
21	242	240	241	263	228	238	190	182	186	181	172	176
22	248	242	245	234	228	231	183	181	182	186	178	181
23	253	248	250	235	232	234	194	183	189	193	186	187
24	259	253	256	233	231	231	205	194	200	193	189	191
25	284	259	266	233	129	214	214	205	209	211	190	196
26	272	268	270	140	112	129	219	214	216	228	200	206
27	303	272	280	151	140	145	221	218	219	225	205	210
28	287	281	283	158	150	153	224	220	221	213	211	212
29	291	286	288	159	154	157	228	223	226	233	211	217
30	304	289	293	178	159	162	231	228	229	226	213	217
31	301	295	297	---	---	---	237	231	234	226	217	219
MONTH	304	142	223	389	112	268	237	126	179	274	172	212
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	223	219	221	203	201	202	132	118	124	202	178	182
2	236	221	225	207	201	203	136	129	133	187	184	185
3	233	225	228	207	204	205	148	136	143	237	186	191
4	232	226	229	206	132	157	154	148	152	199	190	196
5	229	216	220	163	148	158	157	152	154	199	173	188
6	218	212	215	167	162	165	162	155	158	193	173	182
7	231	213	217	174	166	170	166	158	160	199	193	197
8	219	216	218	180	173	176	168	161	164	206	198	200
9	242	211	217	187	179	184	169	163	166	206	201	203
10	225	217	220	190	186	188	178	167	172	209	203	205
11	232	224	227	194	188	191	181	176	178	211	205	206
12	231	227	228	200	192	195	186	181	184	207	204	205
13	229	221	226	207	197	200	189	185	188	208	205	206
14	237	221	224	212	205	207	190	187	188	244	208	211
15	235	219	227	212	128	179	196	190	192	216	212	213
16	236	224	231	150	130	140	196	190	194	262	214	219
17	233	141	175	161	150	157	190	184	187	221	218	219
18	169	147	158	167	160	164	193	184	189	261	218	223
19	179	169	174	171	166	168	208	192	194	225	218	221
20	189	179	183	180	139	172	197	192	195	243	101	136
21	194	185	188	139	82	104	205	197	202	121	102	111
22	224	191	201	133	117	126	205	201	203	178	121	129
23	205	169	180	145	133	140	203	201	202	186	130	166
24	180	172	175	152	145	149	203	197	200	198	151	166
25	193	180	185	158	151	155	414	184	226	152	146	149
26	203	193	199	167	158	161	190	172	175	181	113	141
27	204	201	203	173	164	168	174	164	169	124	114	120
28	214	200	202	184	173	179	169	166	168	133	124	129
29	---	---	---	188	85	162	174	169	171	177	133	161
30	---	---	---	103	76	92	179	174	176	199	167	188
31	---	---	---	118	103	111	---	---	---	187	175	179
MONTH	242	141	207	212	76	165	414	118	177	262	101	182

02124692 GOOSE CREEK AT FAIRVIEW, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	220	139	173	204	196	200	163	154	158	293	287	290
2	169	138	155	211	204	207	173	163	168	292	288	290
3	171	168	169	215	210	212	183	173	178	302	273	286
4	171	164	169	218	203	214	195	183	188	374	101	258
5	164	161	162	247	193	214	199	194	196	116	100	107
6	169	164	166	260	214	246	204	199	201	122	116	119
7	176	168	172	214	169	191	215	204	209	127	122	125
8	183	176	179	169	155	161	217	214	215	133	127	129
9	191	183	187	156	151	154	---	---	---	137	133	134
10	198	191	194	153	151	152	---	---	---	149	137	142
11	203	198	200	159	153	155	224	122	152	153	147	150
12	204	202	203	167	159	162	154	125	146	154	153	154
13	203	184	200	176	164	170	152	145	151	156	154	154
14	202	82	103	222	174	197	166	152	158	158	155	156
15	132	115	125	239	222	230	217	166	190	159	158	158
16	160	89	132	243	238	240	234	217	227	160	158	159
17	125	89	110	245	242	243	241	220	237	160	158	159
18	139	125	134	247	243	245	238	218	231	161	159	160
19	145	139	142	249	245	247	253	235	247	162	159	161
20	149	145	147	255	249	251	262	253	258	162	150	158
21	157	149	152	260	255	257	266	261	264	200	152	174
22	171	157	163	261	259	260	271	266	268	209	200	205
23	188	166	172	261	257	260	275	271	272	213	209	212
24	198	188	195	257	246	253	281	275	277	220	70	152
25	212	198	202	259	218	240	283	279	282	125	100	115
26	215	212	214	332	110	172	284	281	283	134	123	128
27	217	214	215	130	112	122	286	283	285	139	134	136
28	216	203	211	137	130	134	289	285	287	140	138	139
29	203	196	199	144	137	140	290	286	288	140	138	139
30	196	192	193	148	144	146	291	288	289	142	140	141
31	---	---	---	154	148	150	292	288	290	---	---	---
MONTH	220	82	171	332	110	201	---	---	---	374	70	166

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.9	6.9	7.0	7.0	7.0	7.2	7.1	7.2	7.3	7.1	7.2
2	6.9	6.9	6.9	7.1	7.0	7.0	7.2	7.1	7.2	7.3	7.0	7.1
3	7.0	6.9	6.9	7.1	7.0	7.1	7.2	7.1	7.2	7.2	7.0	7.1
4	7.0	6.9	6.9	7.1	6.9	7.0	7.4	7.1	7.3	7.2	7.0	7.1
5	7.0	6.9	7.0	7.0	7.0	7.0	7.4	7.3	7.3	7.1	7.0	7.0
6	7.1	7.0	7.0	7.1	6.9	7.0	7.4	7.3	7.3	7.2	7.0	7.1
7	7.1	7.0	7.1	7.0	7.0	7.0	7.3	7.2	7.3	7.2	7.0	7.1
8	7.1	7.0	7.1	7.0	7.0	7.0	7.2	7.1	7.2	7.2	6.9	7.1
9	7.2	7.1	7.1	7.0	6.8	6.9	7.2	7.0	7.1	7.4	7.2	7.3
10	7.2	7.1	7.2	6.9	6.9	6.9	7.1	7.0	7.0	7.5	7.2	7.3
11	7.2	7.1	7.2	7.0	6.9	6.9	7.1	7.0	7.0	7.7	7.3	7.4
12	7.2	7.2	7.2	6.9	6.9	6.9	7.0	6.9	6.9	7.5	7.3	7.4
13	7.2	7.2	7.2	6.9	6.9	6.9	7.1	6.9	7.0	7.4	7.2	7.3
14	7.3	7.2	7.2	7.1	6.9	7.0	7.1	7.0	7.0	7.4	7.2	7.3
15	7.3	7.2	7.2	7.1	7.0	7.1	7.2	6.9	7.0	7.5	7.2	7.3
16	7.2	7.1	7.2	7.2	7.1	7.1	7.1	6.9	7.0	7.5	7.2	7.3
17	7.2	7.1	7.1	7.2	7.2	7.2	7.0	6.9	6.9	7.6	7.2	7.4
18	7.2	7.1	7.1	7.2	7.2	7.2	7.1	7.0	7.0	7.5	7.2	7.3
19	7.2	7.0	7.1	7.3	7.2	7.3	7.0	6.9	7.0	7.6	7.2	7.3
20	7.2	7.0	7.1	7.3	7.2	7.3	7.1	6.9	7.0	7.2	7.1	7.2
21	7.1	7.0	7.0	7.4	7.3	7.4	7.1	7.0	7.0	7.3	7.2	7.2
22	7.1	7.0	7.0	7.4	7.4	7.4	7.1	7.0	7.0	7.3	7.2	7.3
23	7.1	7.0	7.0	7.4	7.4	7.4	7.0	6.9	7.0	7.4	7.2	7.3
24	7.0	7.0	7.0	7.4	7.3	7.4	7.1	6.9	7.0	7.4	7.3	7.3
25	7.0	7.0	7.0	7.4	7.3	7.3	7.0	6.8	6.9	7.5	7.2	7.3
26	7.1	7.0	7.0	7.3	7.2	7.3	7.1	6.8	6.9	7.6	7.2	7.3
27	7.0	7.0	7.0	7.3	7.3	7.3	6.9	6.8	6.8	7.5	7.3	7.4
28	7.0	7.0	7.0	7.3	7.2	7.3	6.9	6.7	6.8	7.6	7.4	7.5
29	7.0	7.0	7.0	7.3	7.2	7.3	7.2	6.7	7.0	7.5	7.3	7.4
30	7.0	7.0	7.0	7.2	7.1	7.2	7.3	7.1	7.2	7.6	7.3	7.4
31	7.0	7.0	7.0	---	---	---	7.3	7.1	7.1	7.5	7.3	7.4
MONTH	7.3	6.9	7.1	7.4	6.8	7.1	7.4	6.7	7.1	7.7	6.9	7.3

## PEE DEE RIVER BASIN

02124692 GOOSE CREEK AT FAIRVIEW, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	7.6	7.3	7.4	7.5	7.1	7.2	7.1	7.0	7.1	7.1	7.0	7.1
2	7.6	7.2	7.4	7.6	7.3	7.4	7.2	7.1	7.2	7.1	7.1	7.1
3	7.5	7.2	7.3	7.4	7.2	7.3	7.2	7.1	7.1	7.1	7.0	7.1
4	7.7	7.2	7.3	7.3	7.0	7.1	7.3	7.1	7.2	7.2	7.0	7.1
5	7.8	7.1	7.3	7.1	7.0	7.0	7.4	7.2	7.2	7.1	7.1	7.1
6	7.6	7.0	7.2	7.2	7.1	7.1	7.4	7.2	7.3	7.2	7.1	7.1
7	7.5	7.0	7.2	7.3	7.1	7.2	7.6	7.2	7.3	7.2	7.2	7.2
8	7.6	6.9	7.1	7.2	7.1	7.2	7.7	7.2	7.4	7.2	7.2	7.2
9	7.4	6.6	7.0	7.3	7.1	7.2	7.6	7.2	7.4	7.2	7.2	7.2
10	7.2	6.6	6.8	7.3	7.1	7.2	7.5	7.2	7.3	7.2	7.2	7.2
11	7.2	6.6	6.8	7.4	7.1	7.2	7.4	7.2	7.2	7.2	7.1	7.1
12	6.9	6.6	6.7	7.4	7.1	7.2	7.4	7.2	7.2	7.2	7.1	7.1
13	7.0	6.7	6.9	7.5	7.1	7.3	7.2	7.1	7.2	7.2	7.1	7.1
14	7.0	6.8	6.8	7.8	7.2	7.4	7.3	7.1	7.2	7.2	7.1	7.1
15	7.0	6.8	6.8	7.2	7.1	7.2	7.3	7.2	7.2	7.2	7.1	7.2
16	7.1	6.7	6.8	7.2	7.1	7.1	7.4	7.2	7.3	7.2	7.1	7.2
17	6.9	6.6	6.8	7.3	7.1	7.2	7.4	7.2	7.3	7.2	7.2	7.2
18	6.8	6.7	6.8	7.4	7.1	7.2	7.4	7.3	7.3	7.2	7.1	7.1
19	6.8	6.7	6.7	7.4	7.1	7.2	7.4	7.2	7.3	7.2	7.1	7.1
20	6.9	6.7	6.8	7.1	6.7	7.0	7.2	7.2	7.2	7.3	6.5	6.8
21	6.9	6.8	6.9	6.7	6.1	6.3	7.2	7.2	7.2	7.0	6.6	6.9
22	7.2	6.9	7.0	6.7	6.4	6.6	7.2	7.1	7.2	7.1	7.0	7.0
23	7.2	7.0	7.1	6.8	6.6	6.7	7.2	7.2	7.2	7.4	7.1	7.3
24	7.1	7.0	7.0	6.8	6.6	6.7	7.2	7.2	7.2	7.3	7.2	7.3
25	7.0	6.9	7.0	6.9	6.7	6.8	7.2	7.0	7.1	7.3	7.0	7.1
26	7.2	7.0	7.1	6.9	6.6	6.7	7.1	7.0	7.0	7.2	7.0	7.1
27	7.2	7.0	7.1	7.0	6.6	6.8	7.1	7.0	7.0	7.1	7.0	7.0
28	7.2	7.0	7.1	7.2	6.9	7.0	7.1	7.0	7.0	7.1	7.0	7.0
29	---	---	---	7.2	6.7	6.9	7.1	7.0	7.0	7.1	7.0	7.1
30	---	---	---	6.9	6.7	6.8	7.1	7.0	7.0	7.2	7.1	7.1
31	---	---	---	7.0	6.9	7.0	---	---	---	7.2	7.1	7.1
MONTH	7.8	6.6	7.0	7.8	6.1	7.0	7.7	7.0	7.2	7.4	6.5	7.1
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.2	7.0	7.1	7.3	7.2	7.2	7.1	7.0	7.1	7.2	7.1	7.2
2	7.1	7.0	7.1	7.3	7.2	7.3	7.1	7.0	7.1	7.2	7.1	7.1
3	7.2	7.1	7.1	7.2	7.1	7.2	7.1	7.1	7.1	7.2	7.0	7.1
4	7.2	7.1	7.2	7.2	7.1	7.2	7.1	7.1	7.1	7.2	6.8	7.0
5	7.1	7.1	7.1	7.3	7.1	7.2	7.2	7.1	7.1	7.0	6.7	6.8
6	7.2	7.1	7.2	7.4	7.2	7.3	7.2	7.1	7.1	7.0	6.9	7.0
7	7.2	7.1	7.2	7.3	7.3	7.3	7.1	7.0	7.1	7.0	6.9	6.9
8	7.2	7.1	7.2	7.3	7.2	7.3	7.2	7.0	7.1	7.0	6.9	7.0
9	7.2	7.1	7.2	7.4	7.2	7.3	---	---	---	7.0	6.9	6.9
10	7.2	7.2	7.2	7.4	7.3	7.4	---	---	---	6.9	6.8	6.9
11	7.2	7.1	7.2	7.5	7.4	7.5	7.3	6.5	6.9	6.9	6.9	6.9
12	7.2	7.0	7.1	7.5	7.4	7.5	6.7	6.5	6.7	6.9	6.8	6.9
13	7.1	6.9	7.1	7.4	7.3	7.4	6.8	6.7	6.8	7.0	6.9	7.0
14	6.9	6.6	6.8	7.5	7.2	7.4	6.8	6.7	6.8	7.1	7.0	7.0
15	7.1	6.9	7.0	7.5	7.4	7.5	6.8	6.8	6.8	7.1	7.0	7.1
16	7.0	6.6	6.9	7.5	7.4	7.4	7.0	6.8	6.9	7.1	7.1	7.1
17	6.8	6.5	6.8	7.4	7.3	7.4	7.1	6.9	7.0	7.1	7.1	7.1
18	6.9	6.8	6.8	7.4	7.3	7.4	7.0	6.9	7.0	7.1	7.0	7.1
19	6.9	6.8	6.9	7.4	7.1	7.3	7.0	6.9	7.0	7.1	6.8	7.0
20	7.0	6.9	7.0	7.3	7.1	7.2	7.0	6.9	7.0	6.8	6.8	6.8
21	7.1	7.0	7.0	7.3	7.1	7.2	7.0	6.9	7.0	6.8	6.7	6.8
22	7.1	7.0	7.1	7.3	7.2	7.2	7.0	6.9	7.0	6.9	6.8	6.9
23	7.1	7.0	7.1	7.3	7.1	7.2	7.1	6.9	7.0	6.9	6.8	6.9
24	7.2	7.1	7.1	7.2	7.0	7.1	7.1	7.0	7.0	7.0	6.3	6.7
25	7.2	7.1	7.2	7.1	6.9	7.0	7.2	7.0	7.1	6.9	6.7	6.9
26	7.2	7.1	7.1	7.2	6.8	6.9	7.2	7.1	7.1	6.9	6.9	6.9
27	7.1	7.0	7.1	7.0	6.8	6.9	7.2	7.0	7.1	6.9	6.9	6.9
28	7.1	7.0	7.1	7.1	7.0	7.0	7.2	7.0	7.1	6.9	6.7	6.9
29	7.3	7.0	7.2	7.1	7.0	7.1	7.3	6.9	7.1	6.9	6.9	6.9
30	7.3	7.2	7.2	7.1	7.0	7.1	7.3	7.1	7.2	6.9	6.9	6.9
31	---	---	---	7.2	7.1	7.1	7.3	7.2	7.2	---	---	---
MONTH	7.3	6.5	7.1	7.5	6.8	7.2	---	---	---	7.2	6.3	7.0

02124692 GOOSE CREEK AT FAIRVIEW, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	17.3	15.3	16.3	12.3	8.4	10.3	7.0	4.6	5.7	2.2	.4	1.2
2	17.4	14.6	16.1	12.3	8.3	10.3	5.6	4.7	5.3	2.5	.6	1.2
3	18.1	15.4	16.7	13.2	9.1	11.2	5.5	4.0	4.8	2.2	.3	.9
4	18.7	15.9	17.2	14.0	11.8	12.9	4.0	2.3	3.2	2.3	.2	.9
5	18.8	15.8	17.3	14.7	11.9	13.5	2.8	1.7	2.2	2.6	.3	1.2
6	19.1	16.8	17.8	12.3	9.0	11.0	2.4	1.5	2.0	2.9	.8	1.5
7	18.0	16.0	17.2	12.7	11.7	12.1	3.4	1.8	2.5	3.0	.9	1.7
8	16.0	12.0	14.1	14.5	11.9	13.0	4.4	2.3	3.3	3.3	1.8	2.4
9	12.7	10.4	11.6	16.0	13.4	14.8	4.7	2.9	3.9	3.2	1.2	2.1
10	12.7	9.2	11.1	16.2	12.8	14.8	5.0	4.2	4.6	3.3	1.0	1.8
11	12.7	9.2	11.1	12.8	9.9	11.4	6.1	4.9	5.4	3.6	1.0	2.1
12	12.7	8.9	10.9	12.3	9.1	10.6	7.5	6.1	6.7	3.3	2.2	2.7
13	12.9	9.1	11.1	11.6	8.3	10.1	6.1	5.0	5.5	4.4	2.2	3.3
14	13.4	9.5	11.5	12.3	9.7	11.0	6.1	5.1	5.6	5.8	4.2	5.1
15	13.4	9.9	11.7	10.3	8.5	9.4	6.0	5.1	5.7	7.5	4.9	6.1
16	13.6	10.5	12.1	8.9	7.4	8.3	6.7	5.3	5.5	7.7	5.8	6.7
17	14.8	11.3	13.0	9.5	7.7	8.7	7.4	6.2	6.8	7.2	5.9	6.5
18	15.7	13.0	14.3	8.2	6.6	7.5	6.2	4.8	5.5	7.2	6.6	6.9
19	15.1	12.1	13.7	7.4	5.7	6.5	4.8	3.6	4.3	9.2	6.9	7.8
20	14.9	11.7	13.2	7.0	5.6	6.2	3.7	2.0	2.9	10.4	8.7	9.8
21	15.2	11.7	13.6	6.0	3.7	5.0	2.9	1.8	2.2	8.9	5.3	6.8
22	16.1	12.6	14.3	5.4	2.7	4.0	3.6	1.5	2.4	5.4	4.1	4.8
23	15.5	12.7	14.1	5.4	3.0	4.1	2.7	.9	1.6	5.0	3.1	3.9
24	14.7	11.6	13.3	5.6	3.7	4.7	2.9	.9	1.7	5.1	2.8	3.9
25	15.4	13.4	14.3	7.8	5.1	5.9	2.2	.6	1.3	4.7	3.0	3.7
26	15.6	12.4	14.0	8.6	7.8	8.2	2.1	.4	1.1	4.4	1.9	3.1
27	15.4	11.4	13.6	8.7	7.3	7.9	1.8	1.1	1.5	5.5	3.0	3.8
28	16.2	12.8	14.6	8.5	6.2	7.2	2.2	1.4	1.7	5.0	2.5	3.5
29	14.8	12.1	13.7	8.7	6.3	7.4	2.5	.8	1.4	5.8	3.1	4.2
30	13.3	9.9	11.7	8.3	5.7	7.1	2.3	.6	1.3	7.8	4.8	6.6
31	12.7	8.9	10.8	---	---	---	2.2	.4	1.0	9.0	6.8	7.8
MONTH	19.1	8.9	13.7	16.2	2.7	9.2	7.5	.4	3.5	10.4	.2	4.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	8.5	7.3	7.9	12.5	9.2	10.8	13.6	11.4	12.4	17.4	15.0	16.2
2	8.4	6.5	7.4	14.0	9.9	11.9	13.1	9.1	11.2	18.2	15.7	16.9
3	7.3	5.1	6.0	12.8	11.7	12.3	12.8	11.5	12.1	18.5	15.9	17.2
4	7.0	5.1	5.8	11.7	10.8	11.3	13.4	11.9	12.6	18.8	16.4	17.6
5	8.4	5.4	6.5	11.9	10.4	11.1	14.1	11.5	12.8	19.6	17.0	18.3
6	7.8	4.6	5.9	10.4	6.6	8.2	16.2	12.6	14.4	18.9	17.9	18.3
7	8.5	4.7	6.2	8.6	5.8	7.0	19.4	15.7	17.5	18.1	16.5	17.3
8	9.1	5.2	6.8	9.4	5.6	7.4	21.6	18.2	19.9	16.8	15.4	16.2
9	10.1	5.9	7.8	10.4	7.0	8.5	22.6	19.4	21.1	17.8	15.8	16.7
10	11.7	8.8	10.0	10.3	6.7	8.5	22.8	19.9	21.4	18.0	16.1	17.1
11	9.7	7.6	8.6	10.8	6.3	8.7	21.8	20.1	21.0	19.8	16.6	18.1
12	8.1	6.6	7.5	10.9	8.1	9.6	22.4	20.2	21.3	19.8	17.7	18.8
13	7.9	6.4	7.2	14.4	10.4	12.3	21.8	20.5	21.1	19.7	17.6	18.5
14	9.0	7.4	8.2	14.9	11.5	13.2	20.5	18.4	19.4	18.5	15.5	17.1
15	11.1	9.0	10.2	13.0	11.4	12.1	19.2	18.0	18.3	18.7	16.0	17.1
16	14.0	10.9	12.4	11.7	10.7	11.1	18.1	16.8	17.5	18.9	16.6	17.7
17	13.4	10.8	12.4	12.8	10.0	11.3	16.9	12.8	15.0	17.9	16.9	17.4
18	10.8	7.3	8.7	13.1	10.6	11.6	12.9	11.3	12.0	19.2	16.7	17.7
19	8.1	6.1	7.2	12.3	8.7	10.4	12.6	10.3	11.6	20.5	17.5	19.0
20	9.3	6.1	7.8	9.8	8.1	8.9	13.6	11.1	12.3	19.9	18.7	19.4
21	9.9	8.7	9.3	9.6	8.6	9.1	16.1	13.0	14.4	20.6	19.8	20.1
22	9.2	6.0	7.4	12.6	8.2	10.3	17.6	15.1	16.3	21.3	20.1	20.6
23	7.8	5.4	6.6	12.6	8.8	10.9	18.7	16.2	17.5	20.2	18.6	19.2
24	9.2	6.5	7.9	13.4	9.6	11.7	19.7	17.6	18.5	19.2	17.1	18.3
25	11.8	9.2	10.4	13.3	11.5	12.3	18.5	14.7	16.2	18.7	17.9	18.4
26	13.5	11.0	12.1	12.8	10.4	11.4	14.7	12.8	13.8	18.5	17.5	18.1
27	12.5	9.8	11.4	11.7	8.6	10.0	15.1	12.4	13.8	18.8	17.2	18.1
28	11.8	10.5	11.3	11.5	7.4	9.4	16.4	14.0	15.3	18.2	17.2	17.6
29	---	---	---	9.7	8.7	9.2	16.3	15.5	15.9	19.0	17.6	18.2
30	---	---	---	13.0	9.0	10.7	16.6	14.8	15.7	19.6	17.9	18.8
31	---	---	---	14.6	10.8	12.7	---	---	---	19.7	18.4	19.2
MONTH	14.0	4.6	8.5	14.9	5.6	10.4	22.8	9.1	16.1	21.3	15.0	18.0

## PEE DEE RIVER BASIN

02124692 GOOSE CREEK AT FAIRVIEW, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN									
1	20.5	18.9	19.4	24.9	22.7	23.7	22.4	21.4	21.9	23.6	22.5	23.0
2	20.8	20.0	20.4	25.3	23.1	24.1	23.0	20.3	21.5	23.2	22.2	22.7
3	21.2	19.6	20.5	24.2	22.8	23.5	22.9	19.8	21.4	23.0	20.9	22.0
4	21.9	20.0	21.0	24.4	22.8	23.4	22.3	21.1	21.7	21.4	20.7	20.9
5	23.4	21.2	22.2	24.0	22.6	23.3	23.6	20.4	22.1	21.7	20.6	21.2
6	23.6	21.8	22.8	24.1	22.6	23.4	23.9	21.1	22.5	22.8	21.1	21.8
7	23.1	22.2	22.6	23.8	22.0	22.9	25.2	21.8	23.5	22.6	20.2	21.5
8	22.2	21.6	21.9	22.7	22.4	22.6	25.9	22.9	24.4	22.3	19.5	21.0
9	21.9	20.7	21.4	24.1	21.9	22.9	---	---	---	22.4	20.0	21.1
10	22.1	20.0	21.1	25.1	22.3	23.6	---	---	---	23.1	21.4	22.2
11	22.7	20.1	21.4	25.5	23.1	24.2	25.6	23.2	24.4	23.1	21.6	22.3
12	22.7	21.0	21.8	25.2	23.0	24.1	25.7	23.8	24.8	22.0	19.3	20.9
13	24.0	21.6	22.4	23.7	22.0	22.7	25.3	23.7	24.4	21.1	18.4	20.0
14	23.3	22.3	22.8	22.4	20.8	21.6	25.3	23.7	24.4	20.7	18.0	19.4
15	23.5	22.1	22.9	23.2	20.4	21.7	24.7	22.7	23.7	19.2	16.7	17.9
16	23.6	22.4	23.0	22.9	19.9	21.5	24.7	22.5	23.7	18.3	15.1	16.7
17	23.5	22.3	23.0	23.4	20.4	21.9	25.4	23.0	24.2	17.3	14.4	16.1
18	23.2	21.7	22.6	23.9	21.3	22.7	25.7	23.6	24.5	17.9	14.7	16.4
19	23.3	21.8	22.6	24.5	22.2	23.3	25.0	23.2	24.0	18.8	15.6	17.3
20	23.8	21.7	22.7	24.5	22.6	23.5	25.2	23.4	24.2	19.9	18.4	19.0
21	23.9	21.6	22.7	23.6	20.9	22.3	24.3	22.1	23.3	19.5	18.1	19.0
22	23.8	22.2	22.9	23.0	19.4	21.4	23.6	20.3	22.2	20.8	18.2	19.5
23	22.5	21.8	22.2	22.6	20.4	21.5	24.0	20.4	22.4	21.9	19.1	20.5
24	22.6	21.1	21.8	23.2	21.9	22.5	24.3	22.4	23.4	21.2	19.7	20.8
25	22.4	21.0	21.7	22.9	21.7	22.4	24.1	21.5	22.9	20.9	17.7	19.4
26	23.0	21.0	21.9	23.4	22.6	22.9	23.5	20.9	22.3	17.7	15.4	16.3
27	23.8	21.0	22.3	23.4	22.3	23.0	24.6	21.7	23.1	16.6	14.3	15.5
28	23.9	22.0	22.9	22.7	21.7	22.2	24.5	22.0	23.4	16.1	14.1	15.2
29	24.5	21.7	23.1	22.8	21.8	22.2	25.0	23.3	24.1	15.7	13.3	14.7
30	24.9	22.7	23.6	23.3	21.8	22.4	24.2	23.2	23.6	15.2	12.9	14.2
31	---	---	---	23.3	21.1	22.3	24.1	22.7	23.4	---	---	---
MONTH	24.9	18.9	22.1	25.5	19.4	22.8	---	---	---	23.6	12.9	19.3

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.5	6.0	6.3	4.6	4.0	4.3	9.7	8.9	9.2	12.8	11.3	11.9
2	6.6	5.9	6.2	4.7	4.1	4.4	9.5	8.9	9.1	12.7	11.4	11.9
3	6.7	6.0	6.3	4.8	4.0	4.4	9.9	8.9	9.3	12.9	11.5	12.0
4	6.8	5.9	6.3	4.2	3.2	3.8	10.8	9.4	10.3	12.7	11.4	11.9
5	6.7	5.7	6.1	4.4	3.3	3.7	11.1	10.7	10.9	12.5	11.2	11.8
6	6.6	5.7	6.0	5.5	3.6	4.4	11.2	10.8	11.0	12.5	11.2	11.7
7	6.6	5.7	6.0	4.7	4.3	4.5	11.1	10.7	10.9	12.7	11.1	11.7
8	7.2	5.9	6.5	5.0	4.4	4.7	10.9	10.4	10.7	12.3	10.7	11.3
9	7.6	6.5	7.0	4.8	4.0	4.5	10.8	10.3	10.5	12.1	10.7	11.3
10	8.1	6.9	7.4	4.4	3.8	4.1	10.6	10.1	10.3	12.4	11.1	11.5
11	7.8	6.9	7.3	5.0	4.0	4.4	10.5	9.8	10.1	12.9	11.0	11.7
12	7.9	6.9	7.4	4.8	4.4	4.6	10.3	9.6	9.8	12.1	10.6	11.3
13	8.1	7.0	7.5	5.3	4.7	5.0	10.4	9.4	9.8	11.0	10.3	10.7
14	8.1	7.1	7.5	5.7	5.0	5.3	10.3	9.2	9.7	10.8	9.9	10.3
15	8.1	7.0	7.4	6.8	4.8	6.1	10.6	9.1	9.7	10.9	9.6	10.1
16	7.7	6.7	7.2	7.3	6.8	7.1	10.1	9.1	9.4	11.1	9.2	9.9
17	8.1	6.6	7.2	7.5	7.1	7.3	9.2	8.8	9.0	11.3	9.3	10.0
18	7.9	6.3	7.0	7.6	7.4	7.5	9.7	9.0	9.3	10.4	8.9	9.5
19	7.8	5.9	6.7	8.5	7.6	8.1	9.7	9.2	9.4	11.0	8.6	9.4
20	7.7	5.5	6.3	9.6	8.0	8.9	10.9	9.5	10.1	8.7	8.2	8.5
21	6.8	4.9	5.7	10.1	9.5	9.8	11.4	10.3	10.7	10.0	8.6	9.5
22	6.5	4.5	5.3	10.3	9.9	10.1	11.4	10.5	10.8	10.8	9.8	10.3
23	6.9	4.3	4.9	10.3	9.9	10.1	11.7	10.6	11.1	11.1	10.3	10.6
24	5.5	4.0	4.6	10.2	9.7	10.0	12.1	10.9	11.3	11.3	10.4	10.7
25	4.9	3.6	4.2	10.3	9.4	9.8	12.0	10.9	11.4	11.5	10.4	10.8
26	4.9	3.6	4.0	10.0	9.3	9.6	12.4	11.2	11.7	11.7	10.5	10.9
27	4.5	3.3	3.8	9.4	9.2	9.3	12.1	10.9	11.4	11.6	10.5	10.9
28	3.9	2.9	3.4	9.7	9.1	9.3	12.1	10.9	11.3	11.8	10.6	11.0
29	3.7	3.1	3.4	9.6	8.9	9.2	12.4	11.1	11.6	11.8	10.1	10.9
30	3.9	3.4	3.7	9.5	8.8	9.1	12.6	11.2	11.7	11.4	9.7	10.4
31	4.0	3.7	3.9	---	---	---	12.7	11.4	11.9	10.9	9.2	9.8
MONTH	8.1	2.9	5.9	10.3	3.2	6.8	12.7	8.8	10.4	12.9	8.2	10.8

02124692 GOOSE CREEK AT FAIRVIEW, NC--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	11.1	8.7	9.6	10.7	7.9	9.0	8.7	7.6	8.2	6.7	6.4	6.5
2	11.4	8.8	9.7	10.8	8.4	9.4	9.6	8.3	9.0	6.8	6.1	6.4
3	11.7	8.8	10.0	9.0	7.9	8.4	9.0	8.2	8.5	6.4	5.8	6.1
4	12.3	9.3	10.4	9.3	8.2	9.0	9.3	8.3	8.8	6.7	5.4	6.3
5	12.2	9.4	10.5	9.6	9.0	9.2	9.7	8.4	8.9	6.3	5.7	6.1
6	12.1	9.4	10.5	10.5	9.0	9.9	9.7	8.1	8.8	6.0	5.5	5.7
7	12.0	9.4	10.5	10.9	10.1	10.4	9.4	7.4	8.3	6.4	5.7	6.0
8	12.3	9.4	10.5	10.8	9.6	10.3	9.3	6.9	7.9	6.5	6.0	6.2
9	12.0	9.1	10.3	10.6	9.2	9.9	9.0	6.5	7.6	6.6	6.0	6.3
10	11.3	8.7	9.7	10.7	9.2	9.8	8.6	6.3	7.3	6.7	5.9	6.2
11	11.5	8.6	9.7	11.0	9.2	10.0	8.1	6.2	7.0	6.3	5.2	5.9
12	10.2	8.7	9.4	11.0	8.8	9.6	7.9	6.2	6.9	6.0	5.1	5.5
13	10.6	8.8	9.8	10.3	8.3	9.1	6.7	5.5	5.9	5.9	5.1	5.4
14	10.7	9.2	9.8	11.0	8.2	9.2	7.3	5.4	6.3	5.9	5.3	5.6
15	10.0	8.9	9.2	9.2	7.9	8.6	6.5	5.9	6.1	6.4	5.6	5.9
16	10.0	8.1	8.8	9.4	9.1	9.3	7.1	5.8	6.4	6.6	5.6	6.0
17	8.8	7.7	8.5	10.2	9.0	9.5	7.6	6.4	7.0	6.1	5.7	5.9
18	10.0	8.8	9.6	10.3	8.9	9.4	8.5	7.3	7.9	6.5	5.8	6.0
19	10.5	9.8	10.1	10.9	9.1	9.8	9.1	8.0	8.5	6.4	5.7	6.0
20	10.5	9.4	10.1	10.5	9.1	9.7	9.0	8.3	8.6	6.7	4.2	5.5
21	9.7	8.9	9.3	---	---	---	8.5	7.6	8.1	4.9	4.6	4.8
22	10.6	8.8	9.6	---	---	---	7.6	6.9	7.2	5.0	4.5	4.7
23	11.0	9.9	10.5	---	---	---	7.0	6.3	6.6	6.5	4.1	6.0
24	10.5	9.4	10.0	---	---	---	6.4	5.7	6.1	5.9	5.3	5.6
25	9.4	8.2	8.9	---	---	---	7.4	5.3	6.3	5.7	5.1	5.3
26	9.1	8.1	8.5	---	---	---	7.8	7.3	7.5	7.6	5.4	6.7
27	9.4	7.9	8.6	---	---	---	7.7	6.9	7.4	6.9	6.3	6.6
28	9.4	7.8	8.4	10.4	8.9	9.5	7.3	6.6	7.0	6.6	6.2	6.3
29	---	---	---	9.8	8.9	9.2	6.8	6.4	6.6	7.0	6.2	6.7
30	---	---	---	9.5	7.8	8.7	6.8	6.4	6.6	6.8	6.4	6.6
31	---	---	---	8.6	7.4	8.1	---	---	---	6.4	5.9	6.2
MONTH	12.3	7.7	9.7	---	---	---	9.7	5.3	7.4	7.6	4.1	6.0
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.0	5.6	6.0	6.2	5.2	5.5	5.7	5.1	5.4	5.6	3.0	4.2
2	6.9	6.2	6.6	6.0	5.2	5.5	5.9	5.1	5.4	4.8	2.7	3.9
3	6.2	5.8	6.0	5.9	5.0	5.4	6.2	5.3	5.6	4.8	2.8	3.8
4	5.9	5.4	5.7	5.9	4.5	5.3	6.1	5.3	5.6	6.1	3.0	5.3
5	5.5	5.0	5.3	5.9	4.8	5.4	6.7	5.2	5.8	5.9	5.4	5.6
6	5.3	4.8	5.0	5.4	4.6	5.0	6.5	5.2	5.7	5.6	5.1	5.3
7	5.2	4.7	4.9	5.4	4.6	4.9	6.3	5.0	5.6	5.6	5.0	5.3
8	5.3	5.0	5.2	5.0	4.6	4.8	6.6	4.8	5.5	5.8	5.0	5.2
9	5.6	5.1	5.4	5.2	4.6	4.9	---	---	---	5.7	5.1	5.3
10	5.9	5.3	5.6	5.5	4.8	5.1	---	---	---	5.7	5.0	5.3
11	6.1	5.3	5.6	---	---	---	6.8	3.5	4.8	5.9	5.2	5.4
12	6.1	5.2	5.5	---	---	---	3.9	3.3	3.5	6.3	5.2	5.7
13	6.2	4.8	5.6	5.9	5.0	5.4	4.1	3.3	3.6	6.3	5.2	5.7
14	6.8	5.4	6.5	6.4	4.8	5.8	3.8	3.2	3.4	6.8	5.2	5.8
15	6.3	5.8	6.1	6.8	5.9	6.2	4.1	3.4	3.7	6.8	5.5	6.0
16	---	---	---	6.7	5.6	6.1	4.7	3.6	4.1	6.8	5.7	6.2
17	---	---	---	6.9	5.5	6.0	5.1	3.8	4.2	6.6	5.5	5.9
18	---	---	---	6.6	5.3	5.8	4.8	3.6	4.0	6.1	5.1	5.6
19	---	---	---	6.5	5.0	5.6	4.5	3.6	4.1	6.4	4.6	5.5
20	---	---	---	6.9	5.0	5.7	4.7	3.9	4.2	5.7	4.9	5.3
21	---	---	---	7.3	5.2	5.9	4.9	3.8	4.3	5.7	4.6	5.3
22	---	---	---	7.2	5.3	6.0	5.0	3.8	4.3	6.4	5.4	5.9
23	5.9	5.1	5.5	7.0	5.0	5.8	5.3	3.9	4.4	6.2	5.1	5.6
24	6.3	5.9	6.0	6.5	5.0	5.6	5.2	4.0	4.4	7.0	4.4	5.8
25	6.5	5.8	6.1	6.3	4.3	5.4	5.8	4.0	4.7	6.9	6.0	6.5
26	6.4	5.7	5.9	6.6	5.9	6.2	6.2	4.1	5.0	6.4	6.0	6.2
27	6.3	5.5	5.9	5.9	5.5	5.7	6.3	4.1	5.0	6.4	6.1	6.3
28	6.2	5.6	5.8	6.2	5.5	5.7	6.3	4.0	4.9	6.6	6.3	6.4
29	6.4	5.2	5.8	6.0	5.5	5.6	5.9	3.6	4.6	7.1	6.6	6.8
30	6.1	5.2	5.6	6.0	5.2	5.5	5.6	2.9	4.1	7.3	6.8	7.0
31	---	---	---	6.2	5.3	5.6	6.0	3.3	4.6	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	7.3	2.7	5.6

PEE DEE RIVER BASIN

02124692 GOOSE CREEK AT FAIRVIEW, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	69	63	65	42	36	39	82	71	75	95	81	86
2	70	62	65	44	38	41	77	71	73	95	81	86
3	72	63	66	45	38	41	80	71	74	95	81	86
4	74	63	67	41	32	37	82	73	78	94	80	85
5	73	60	65	43	32	36	83	79	81	94	80	85
6	73	60	65	52	34	40	83	79	81	94	80	85
7	71	60	64	45	40	42	84	79	81	96	80	86
8	71	60	64	49	42	45	85	79	81	94	79	84
9	73	61	66	49	42	46	85	79	82	92	79	83
10	78	63	68	46	38	41	85	80	82	95	80	85
11	75	63	67	48	39	42	85	80	82	99	80	87
12	75	64	68	45	40	42	88	79	82	92	79	85
13	78	64	70	49	42	45	84	76	79	86	76	82
14	78	66	70	53	46	49	84	75	78	88	80	83
15	78	66	70	60	43	54	86	74	79	92	77	83
16	75	64	68	64	59	61	82	73	76	94	75	82
17	80	64	70	66	62	64	77	73	75	95	76	83
18	81	63	69	66	62	63	79	73	75	88	74	80
19	79	57	66	69	64	67	77	72	74	98	74	80
20	78	53	62	78	66	73	84	72	77	79	73	77
21	69	48	56	82	76	79	86	76	80	83	76	79
22	67	45	53	82	77	79	88	77	81	87	79	82
23	71	42	48	83	76	79	88	77	81	88	79	82
24	55	40	45	82	77	79	91	78	83	90	79	83
25	50	35	42	86	77	80	89	78	82	91	79	83
26	50	34	40	86	81	83	92	79	84	92	78	83
27	45	32	37	82	78	80	88	80	83	94	80	84
28	40	30	34	83	76	79	90	80	83	94	79	84
29	37	31	33	84	75	78	93	80	84	95	80	85
30	38	32	34	83	73	77	93	80	85	97	81	87
31	38	34	36	---	---	---	94	81	86	95	77	84
MONTH	81	30	58	86	32	59	94	71	80	99	73	84

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	97	74	82	103	71	83	84	74	79	71	64	68
2	99	73	82	105	78	88	92	78	83	73	64	67
3	99	73	82	86	75	80	86	77	81	69	63	65
4	103	74	85	86	77	84	90	79	84	73	57	68
5	105	76	87	90	82	85	96	79	86	69	63	66
6	103	76	86	91	80	85	100	78	88	65	59	62
7	104	77	86	95	83	87	104	76	88	69	60	63
8	108	78	88	95	82	87	108	74	88	68	61	64
9	106	78	88	97	80	86	106	72	87	71	63	66
10	106	78	88	97	78	86	102	71	84	72	63	65
11	103	74	85	101	78	87	93	69	80	70	57	63
12	87	72	79	101	79	86	92	71	79	67	56	60
13	91	73	83	102	79	87	77	63	68	65	56	59
14	94	78	85	110	77	90	82	61	70	63	56	59
15	93	80	84	87	76	82	71	63	66	70	59	62
16	98	75	84	88	85	86	76	62	68	72	59	65
17	85	74	81	97	84	89	77	65	71	65	60	63
18	88	81	84	99	82	88	82	68	75	71	61	65
19	90	82	86	103	82	90	87	73	80	72	63	66
20	93	82	86	92	80	85	88	77	82	74	46	62
21	87	78	82	---	---	---	86	76	80	55	52	54
22	87	77	81	---	---	---	80	71	75	57	51	53
23	93	84	87	---	---	---	75	67	71	72	46	66
24	92	81	86	---	---	---	70	62	66	65	58	61
25	86	77	81	---	---	---	75	56	65	62	56	58
26	90	75	80	---	---	---	77	72	74	82	58	72
27	90	72	80	---	---	---	77	70	73	75	68	72
28	88	73	78	97	77	85	76	68	71	70	66	68
29	---	---	---	86	79	82	71	66	68	76	66	73
30	---	---	---	84	75	79	71	65	68	74	71	73
31	---	---	---	83	73	78	---	---	---	71	65	69
MONTH	108	72	84	---	---	---	108	56	77	82	46	64

02124692 GOOSE CREEK AT FAIRVIEW, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	79	62	67	75	62	66	67	59	63	67	35	51
2	78	70	74	75	64	67	70	59	63	57	32	47
3	70	66	68	72	59	65	73	61	65	56	33	44
4	67	63	65	71	54	64	71	61	65	70	34	61
5	66	60	63	71	57	65	80	61	68	68	63	65
6	63	57	60	65	56	60	78	61	67	65	59	62
7	62	55	58	65	54	58	77	61	67	66	57	61
8	62	58	60	59	54	56	83	57	67	67	57	60
9	65	59	62	63	54	58	---	---	---	66	59	61
10	69	61	64	67	57	62	---	---	---	67	58	62
11	72	62	65	---	---	---	83	43	58	70	60	64
12	71	61	65	---	---	---	49	40	43	73	59	65
13	75	56	66	70	61	64	51	40	44	72	59	64
14	80	63	77	76	56	68	47	39	42	77	58	64
15	75	69	72	81	68	73	50	41	44	76	59	65
16	---	---	---	79	65	71	58	44	49	73	59	65
17	---	---	---	81	64	71	63	45	51	70	56	61
18	---	---	---	80	63	69	60	43	50	66	51	59
19	---	---	---	79	60	67	55	43	49	70	47	59
20	---	---	---	84	59	68	58	48	51	64	53	59
21	---	---	---	87	60	69	60	45	51	63	50	58
22	---	---	---	85	62	69	59	45	50	72	61	66
23	69	60	64	82	57	68	63	45	52	72	59	64
24	75	67	70	77	59	66	63	47	53	80	50	66
25	76	67	71	75	50	64	70	48	56	79	65	72
26	76	66	69	79	70	74	75	48	58	66	63	65
27	76	66	70	70	66	68	77	47	59	66	63	64
28	75	66	69	73	64	67	77	47	59	68	64	65
29	78	63	69	71	64	66	73	43	56	72	66	68
30	74	63	67	71	62	65	68	35	50	74	67	69
31	---	---	---	74	63	66	72	39	55	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	80	32	62

## PEE DEE RIVER BASIN

02124742 ROCKY RIVER NEAR STANFIELD, NC

LOCATION.--Lat 35°10'10", long 80°28'24", Union County, Hydrologic Unit 03040105, on right bank at bridge on Secondary Road 1606, 1.3 mi upstream from Crooked Creek, and 5.0 mi southwest of Stanfield

DRAINAGE AREA.--628 mi<sup>2</sup>.

PERIOD OF RECORD.--April 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 440 ft above sea level (from topographic map). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. WSACC Rocky River waste water treatment plant discharged an average of 21.9 ft<sup>3</sup>/s during period April to September 2000, and an average of 26.0 ft<sup>3</sup>/s during the current water year as treated effluent 16.5 mi upstream from station. Minimum discharge for period of record and current water year affected by regulation. Minimum discharge for current water year also occurred Sept. 3, 15, 16, 17, 18, 19, 20.

DISCHARGE, CUBIC FEET PER SECOND, FOR PERIOD APRIL TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e280	415	99	92	132	56
2	---	---	---	---	---	---	e240	319	94	76	245	290
3	---	---	---	---	---	---	e280	315	93	64	169	484
4	---	---	---	---	---	---	e400	371	104	57	662	785
5	---	---	---	---	---	---	e300	271	430	55	571	540
6	---	---	---	---	---	---	271	239	264	60	179	190
7	---	---	---	---	---	---	250	218	161	76	105	107
8	---	---	---	---	---	---	257	205	112	120	84	81
9	---	---	---	---	---	---	925	196	99	108	75	72
10	---	---	---	---	---	---	434	185	92	82	108	63
11	---	---	---	---	---	---	324	184	83	73	197	53
12	---	---	---	---	---	---	281	176	80	170	102	49
13	---	---	---	---	---	---	322	166	84	383	71	49
14	---	---	---	---	---	---	478	182	84	203	58	48
15	---	---	---	---	---	---	1200	186	81	191	60	48
16	---	---	---	---	---	---	1650	153	80	116	54	45
17	---	---	---	---	---	---	751	142	83	80	49	37
18	---	---	---	---	---	---	621	137	80	67	49	35
19	---	---	---	---	---	---	541	133	75	60	131	203
20	---	---	---	---	---	---	386	125	80	63	116	218
21	---	---	---	---	---	---	319	119	77	88	58	99
22	---	---	---	---	---	---	283	417	76	64	52	64
23	---	---	---	---	---	---	252	241	72	57	49	2440
24	---	---	---	---	---	---	238	153	71	122	47	1490
25	---	---	---	---	---	---	366	140	67	122	48	297
26	---	---	---	---	---	---	425	137	67	148	56	909
27	---	---	---	---	---	---	311	124	99	100	61	275
28	---	---	---	---	---	---	489	105	75	78	42	168
29	---	---	---	---	---	---	1180	104	177	114	44	131
30	---	---	---	---	---	---	584	119	151	95	42	109
31	---	---	---	---	---	---	---	110	---	65	44	---
TOTAL	---	---	---	---	---	---	14638	6087	3290	3249	3760	9435
MEAN	---	---	---	---	---	---	488	196	110	105	121	314
MAX	---	---	---	---	---	---	1650	417	430	383	662	2440
MIN	---	---	---	---	---	---	238	104	67	55	42	35
CFSM	---	---	---	---	---	---	.78	.31	.17	.17	.19	.50
IN.	---	---	---	---	---	---	.87	.36	.19	.19	.22	.56

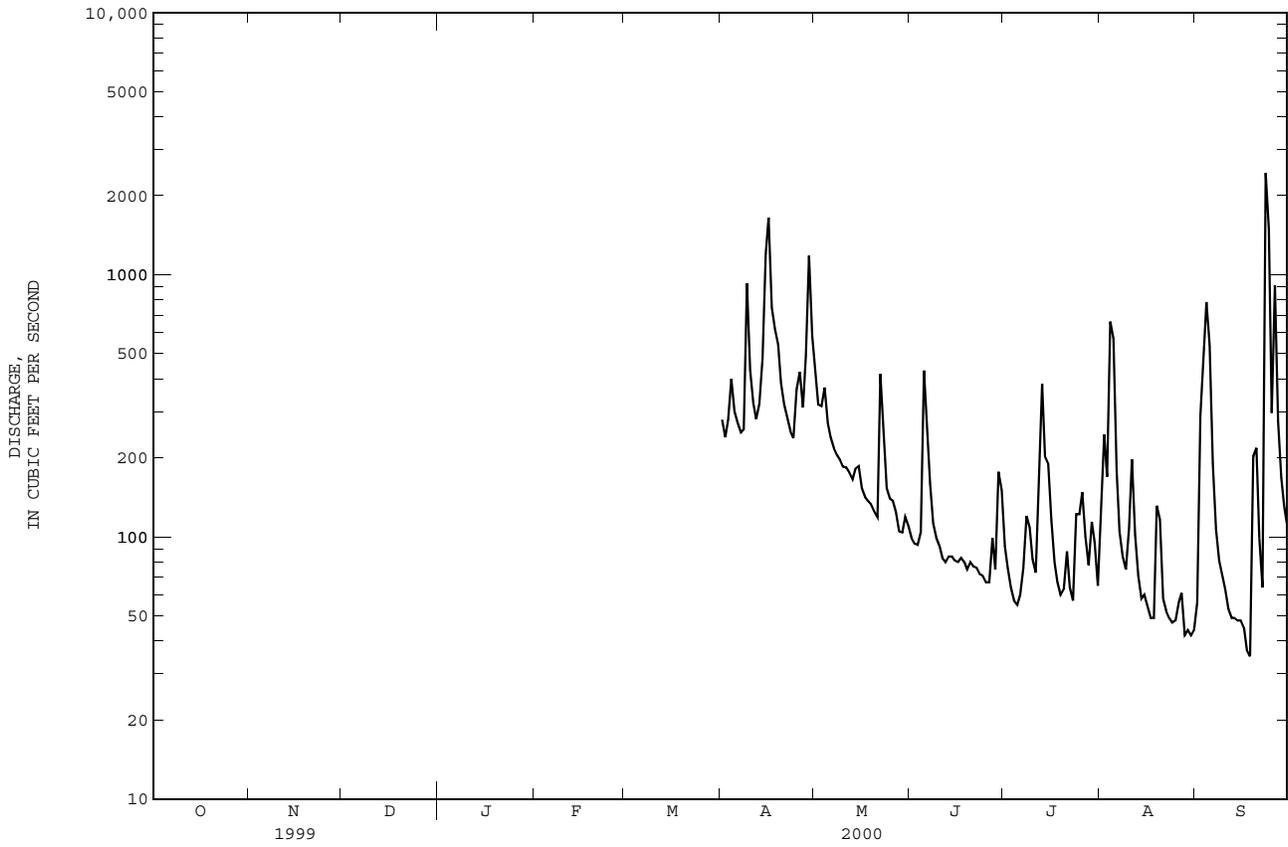
## SUMMARY STATISTICS

FOR PERIOD APRIL TO SEPTEMBER 2000

MAXIMUM PEAK FLOW 4370 Sep 23  
 MAXIMUM PEAK STAGE 6.45 Sep 23  
 INSTANTANEOUS LOW FLOW 30\* Sep 18

e Estimated.  
 \* See REMARKS.

02124742 ROCKY RIVER NEAR STANFIELD, NC--Continued



## PEE DEE RIVER BASIN

02124742 ROCKY RIVER NEAR STANFIELD, NC--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	71	113	e89	145	199	686	128	115	117	83	61
2	89	71	106	e90	127	182	534	127	317	97	75	53
3	86	70	100	e92	124	172	401	120	204	88	72	55
4	83	66	105	e93	116	1160	385	119	125	89	67	254
5	78	63	109	e95	113	845	335	112	102	1320	63	518
6	76	65	106	e97	121	439	296	106	95	383	62	208
7	74	73	107	e100	118	312	274	100	90	264	64	113
8	69	73	105	102	117	251	254	98	85	154	60	90
9	63	79	101	142	116	224	238	e94	97	156	58	75
10	67	113	96	136	117	207	228	90	96	136	76	68
11	68	128	97	113	127	186	216	88	82	112	717	72
12	70	92	104	116	129	181	207	85	78	97	558	64
13	71	77	100	152	155	207	201	82	77	91	211	58
14	73	84	97	152	185	228	250	83	587	99	215	56
15	66	152	119	124	196	312	207	83	246	101	111	53
16	64	121	117	114	166	781	192	81	166	82	86	54
17	70	101	165	114	701	440	184	76	184	74	74	50
18	69	117	262	110	696	314	167	117	116	72	84	51
19	68	111	168	121	312	253	161	91	88	87	326	51
20	e66	163	139	450	232	282	160	272	79	137	118	55
21	e63	168	128	441	200	3520	158	150	73	111	84	164
22	e60	126	113	266	230	1760	154	164	75	81	68	104
23	60	103	107	202	378	627	152	217	690	69	62	76
24	66	86	e96	170	258	411	151	163	305	73	61	559
25	67	123	e93	157	216	326	222	121	864	125	73	1160
26	72	420	e91	140	391	276	329	210	566	181	62	250
27	68	239	e89	133	307	250	200	245	666	175	60	139
28	68	161	e88	128	226	222	160	137	236	119	65	103
29	63	133	e87	123	---	998	141	241	256	93	61	88
30	63	121	e87	131	---	6030	131	203	186	86	57	77
31	73	---	e88	161	---	1970	---	133	---	88	59	---
TOTAL	2188	3570	3483	4654	6319	23565	7374	4136	6946	4957	3892	4779
MEAN	70.6	119	112	150	226	760	246	133	232	160	126	159
MAX	95	420	262	450	701	6030	686	272	864	1320	717	1160
MIN	60	63	87	89	113	172	131	76	73	69	57	50
CFSM	.11	.19	.18	.24	.36	1.21	.39	.21	.37	.25	.20	.25
IN.	.13	.21	.21	.28	.37	1.40	.44	.24	.41	.29	.23	.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

	2000	2001	2001	2001	2001	2001	2000	2000	2001	2001	2000	2001
MEAN	70.6	119	112	150	226	760	367	165	171	132	123	237
MAX	70.6	119	112	150	226	760	488	196	232	160	126	314
(WY)	2001	2001	2001	2001	2001	2001	2000	2000	2001	2001	2001	2000
MIN	70.6	119	112	150	226	760	246	133	110	105	121	159
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2000	2000	2000	2001

## SUMMARY STATISTICS

FOR 2001 WATER YEAR

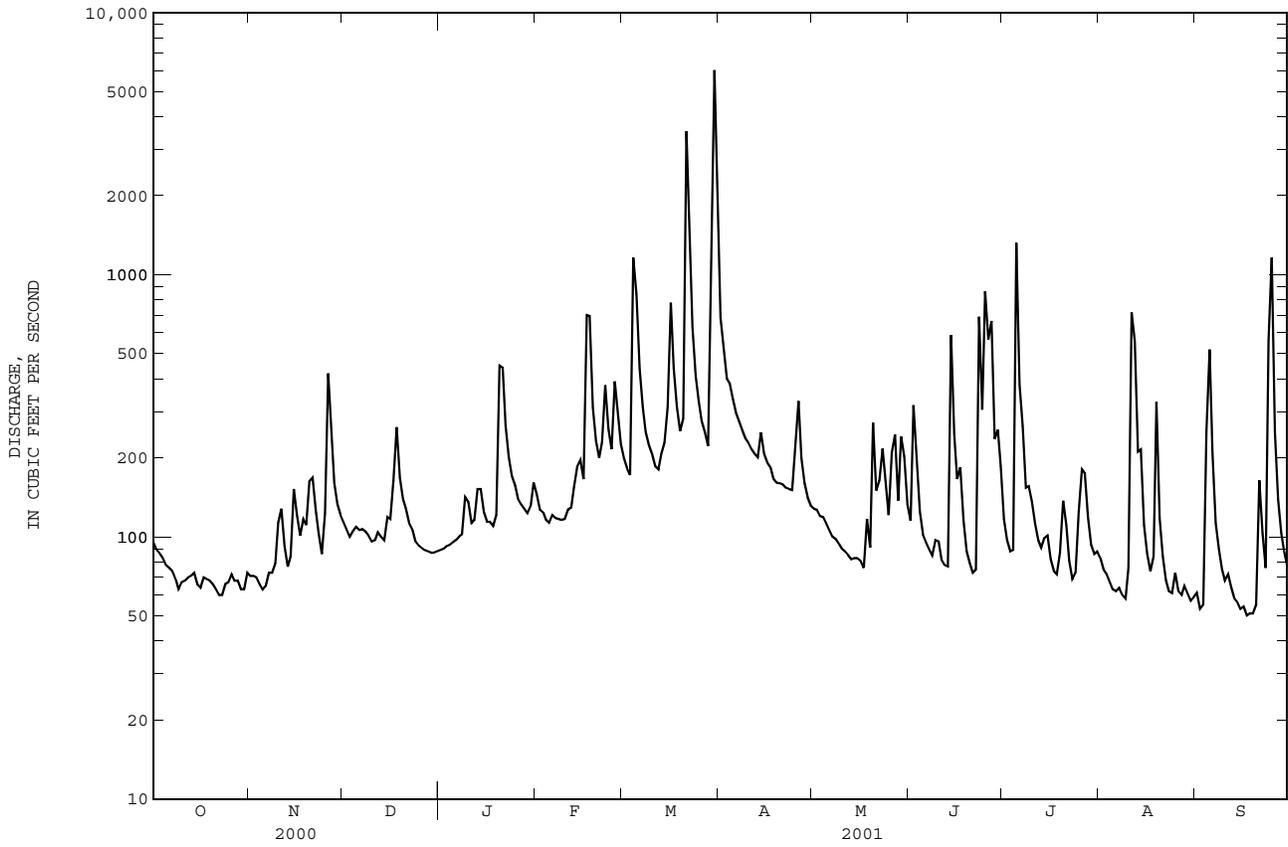
WATER YEARS 2000 - 2001

ANNUAL TOTAL	75863	
ANNUAL MEAN	208	212
HIGHEST ANNUAL MEAN		221
LOWEST ANNUAL MEAN		208
HIGHEST DAILY MEAN	6030	6030
LOWEST DAILY MEAN	50	35
ANNUAL SEVEN-DAY MINIMUM	53	44
MAXIMUM PEAK FLOW	6550	6550
MAXIMUM PEAK STAGE	8.03	8.03
INSTANTANEOUS LOW FLOW	48*	30*
ANNUAL RUNOFF (CFSM)	.33	.34
ANNUAL RUNOFF (INCHES)	4.49	4.59
10 PERCENT EXCEEDS	331	400
50 PERCENT EXCEEDS	116	117
90 PERCENT EXCEEDS	66	63

e Estimated.

\* See REMARKS.

02124742 ROCKY RIVER NEAR STANFIELD, NC--Continued



PEE DEE RIVER BASIN

02125000 BIG BEAR CREEK NEAR RICHFIELD, NC

LOCATION.--Lat 35°20'02", long 80°20'09", Stanly County, Hydrologic Unit 03040105, on left bank 300 ft downstream of Little Creek, 400 ft upstream from bridge on Secondary Road 1134, and 10 mi southwest of Richfield.

DRAINAGE AREA.--55.6 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1954 to current year.

REVISED RECORDS.--WSP 1503: 1955, 1956(M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 426.62 ft above sea level. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. No flow occurs several days in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 1921 reached a stage of about 19 ft, information from State Highway Commission.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	.60	3.6	3.3	7.8	15	89	4.8	3.6	7.7	1.1	.47
2	5.5	.59	3.3	3.2	7.1	14	55	4.5	6.4	6.2	1.1	.39
3	4.9	.59	3.0	3.0	6.5	13	42	4.1	7.1	5.0	.80	.38
4	4.1	.71	2.7	2.9	5.9	230	39	3.8	4.4	17	.54	.81
5	3.4	.52	2.6	2.9	5.8	108	31	3.6	3.0	151	.11	1.0
6	3.0	.53	2.6	3.1	5.6	56	28	3.2	2.2	29	.00	.88
7	2.4	.55	2.5	3.1	5.3	38	25	2.7	1.9	16	.00	.75
8	1.9	.56	2.4	3.6	5.2	29	22	2.6	2.0	13	.00	.49
9	1.7	.68	2.4	4.3	5.0	24	19	2.6	2.6	14	.97	.37
10	1.5	.91	2.2	4.2	5.0	20	16	2.5	2.2	11	12	.32
11	1.5	.81	2.0	3.7	5.0	18	14	2.3	2.2	8.5	3.0	.23
12	1.3	.69	1.7	4.6	5.5	17	13	2.2	1.4	6.5	2.6	.17
13	1.3	.64	1.9	6.9	8.1	19	13	1.9	1.2	5.5	7.1	.14
14	1.3	1.1	2.0	7.0	13	16	13	1.8	1.8	5.0	8.4	.08
15	1.2	1.1	2.3	6.4	15	36	12	1.7	1.7	4.0	2.9	.01
16	1.1	.90	2.6	5.9	13	64	11	1.6	9.9	3.4	2.0	.00
17	1.0	1.1	5.8	4.7	163	39	9.3	1.9	4.0	3.0	1.4	.00
18	.98	1.2	7.6	4.7	75	27	8.0	1.8	2.8	2.7	587	.00
19	.91	1.6	6.2	5.8	38	21	7.6	1.7	1.9	3.0	92	.00
20	.83	2.2	5.5	77	25	41	7.3	1.7	1.3	2.5	16	.04
21	.81	2.2	4.8	46	19	622	6.9	1.6	1.0	2.3	8.1	.23
22	.87	2.0	4.4	25	31	200	6.6	2.4	117	2.3	4.7	.07
23	.69	1.8	3.9	19	36	88	6.3	4.4	175	2.2	3.2	.03
24	.66	1.5	8.4	16	24	56	5.8	2.7	28	2.1	2.4	165
25	.73	6.3	23	13	23	39	13	2.3	74	2.4	1.8	25
26	.70	18	6.3	11	27	29	14	4.6	55	2.0	1.4	7.3
27	.75	9.7	4.5	10	20	23	9.6	4.3	35	1.9	1.1	4.5
28	.75	6.5	4.4	9.4	17	19	7.4	3.8	19	1.9	.86	2.9
29	.77	5.1	4.1	8.7	---	355	6.1	5.0	13	1.7	.53	1.9
30	.52	4.2	4.0	8.4	---	466	5.4	4.7	9.8	1.7	.42	1.4
31	.61	---	3.6	8.7	---	130	---	3.5	---	1.5	.42	---
TOTAL	54.28	74.88	136.3	335.5	616.8	2872	555.3	92.3	590.4	336.0	763.95	214.86
MEAN	1.75	2.50	4.40	10.8	22.0	92.6	18.5	2.98	19.7	10.8	24.6	7.16
MAX	6.6	18	23	77	163	622	89	5.0	175	151	587	165
MIN	.52	.52	1.7	2.9	5.0	13	5.4	1.6	1.0	1.5	.00	.00
CFSM	.03	.04	.08	.19	.40	1.67	.33	.05	.35	.19	.44	.13
IN.	.04	.05	.09	.22	.41	1.92	.37	.06	.40	.22	.51	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2001, BY WATER YEAR (WY)

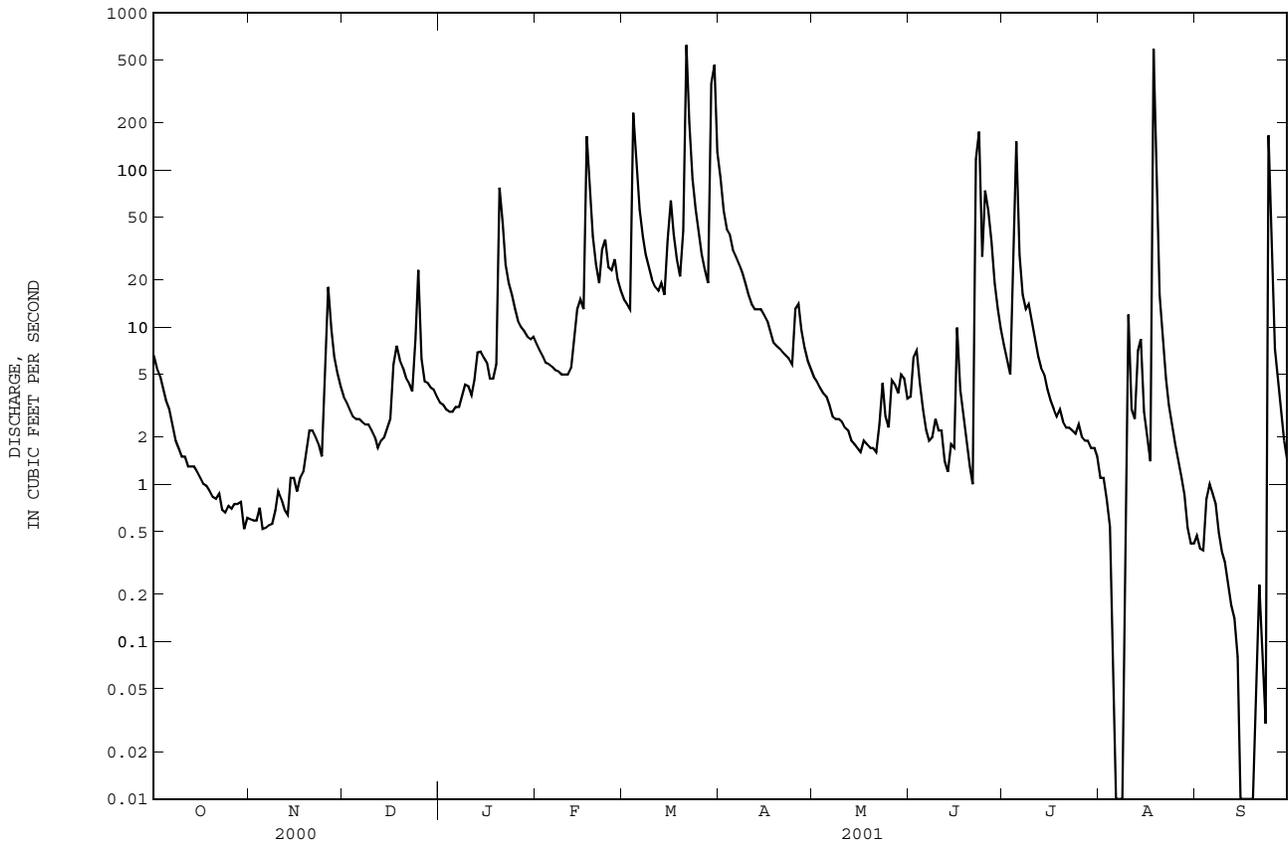
	MEAN	40.8	31.3	54.8	110	132	122	72.1	36.5	28.0	31.3	23.7	19.7
MAX	355	212	186	357	284	345	247	234	140	220	223	125	
(WY)	1991	1986	1977	1998	1984	1993	1958	1975	1957	1984	1967	1995	
MIN	.006	.34	2.12	4.38	16.2	13.2	6.87	1.32	.24	.11	.002	.000	
(WY)	1962	1962	1966	1981	1986	1981	1967	1986	1986	2000	1980	1993	

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1954 - 2001

ANNUAL TOTAL	9965.46	6642.57	
ANNUAL MEAN	27.2	18.2	58.3
HIGHEST ANNUAL MEAN			112
LOWEST ANNUAL MEAN			18.2
HIGHEST DAILY MEAN	1140	Sep 23	622
LOWEST DAILY MEAN	.00	Jul 4	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 11	.02
MAXIMUM PEAK FLOW			3360
MAXIMUM PEAK STAGE			8.91
INSTANTANEOUS LOW FLOW			.00*
ANNUAL RUNOFF (CFSM)	.49		.33
ANNUAL RUNOFF (INCHES)	6.67		4.44
10 PERCENT EXCEEDS	65		31
50 PERCENT EXCEEDS	3.3		4.0
90 PERCENT EXCEEDS	.01		.63
			11400
			16.54
			.00*
			1.05
			14.25
			117
			11
			.40

\* See REMARKS.

02125000 BIG BEAR CREEK NEAR RICHFIELD, NC--Continued



PEE DEE RIVER BASIN

02126000 ROCKY RIVER NEAR NORWOOD, NC

LOCATION.--Lat 35°08'54", long 80°10'33", Stanly County, Hydrologic Unit 03040105, on left bank 1,000 ft downstream of Lanes Creek, 1.5 mi upstream from bridge on Secondary Road 1935, 6 mi southwest of Norwood, and 11.2 mi upstream from mouth.

DRAINAGE AREA.--1,372 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1929 to current year.

REVISED RECORDS.--WSP 852: 1937. WSP 1052: 1936(M). WSP 1503: 1935, 1945. WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 212.91 ft above sea level (levels by U.S. Army Corps of Engineers). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum gage height for period of record, from floodmark. Minimum discharge for the current water year also occurred Aug. 9.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1908 reached a stage of 35 ft, from information by local residents; discharge, 67,600 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	238	e110	156	e140	277	448	2130	220	230	240	111	97
2	207	e94	144	e136	246	401	1510	213	405	166	109	104
3	166	e90	130	e132	220	370	1160	208	553	138	96	89
4	e140	e86	117	e134	206	1830	1020	192	312	163	91	101
5	e130	e80	123	e134	192	2940	908	e186	213	1630	84	780
6	e130	e76	126	e136	186	1340	789	e180	174	1100	75	526
7	e120	78	124	e142	187	850	708	e174	159	577	72	266
8	e115	93	125	e148	187	641	639	e166	145	377	76	171
9	e120	91	122	e156	181	532	578	e156	143	258	72	139
10	e122	101	119	e160	181	447	534	e148	146	244	75	119
11	e124	123	111	178	183	389	474	143	146	201	402	104
12	e122	144	114	166	204	357	434	136	127	167	845	107
13	e118	121	117	223	283	377	405	128	132	145	549	99
14	e110	109	120	316	486	422	404	117	386	142	308	92
15	e106	124	117	289	468	704	436	113	742	158	248	84
16	e100	186	204	231	407	2900	364	114	355	146	148	81
17	e96	154	1110	201	2000	1430	341	117	319	119	113	76
18	e94	134	842	186	2760	853	316	120	458	104	104	78
19	e94	145	490	183	1090	617	287	155	216	99	1250	76
20	e92	151	331	1120	700	715	278	194	153	116	423	86
21	e90	220	263	1740	542	9750	268	313	127	172	258	171
22	e90	207	227	879	539	6350	253	202	124	137	162	220
23	e88	159	194	560	991	2270	239	272	1130	111	125	170
24	e88	136	171	435	803	1320	233	317	905	110	106	157
25	e86	136	e166	363	588	967	357	218	1850	135	102	2030
26	e84	527	e160	315	641	772	742	252	1590	184	104	666
27	e90	588	e150	278	738	657	502	440	1040	265	97	285
28	e100	336	e146	252	545	575	345	325	640	229	91	180
29	e110	229	e146	237	---	1160	277	292	355	157	92	141
30	e114	183	e144	237	---	13800	234	404	416	124	98	118
31	e110	---	e140	258	---	5630	---	309	---	114	92	---
TOTAL	3594	5011	6749	10065	16031	61814	17165	6524	13691	8028	6578	7413
MEAN	116	167	218	325	573	1994	572	210	456	259	212	247
MAX	238	588	1110	1740	2760	13800	2130	440	1850	1630	1250	2030
MIN	84	76	111	132	181	357	233	113	124	99	72	76
CFSM	.08	.12	.16	.24	.42	1.45	.42	.15	.33	.19	.15	.18
IN.	.10	.14	.18	.27	.43	1.68	.47	.18	.37	.22	.18	.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2001, BY WATER YEAR (WY)

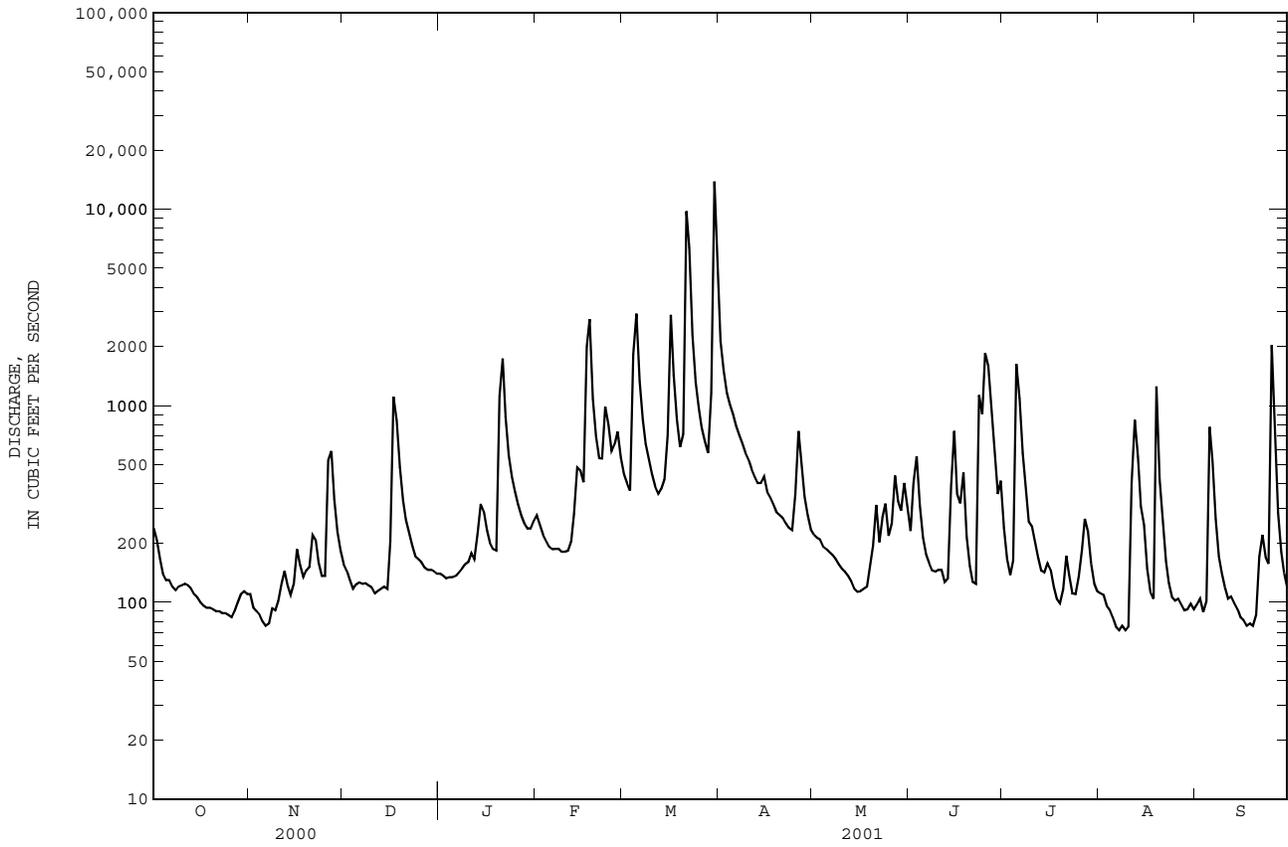
	895	785	1276	2473	2758	2714	1731	818	671	759	732	668
MEAN	895	785	1276	2473	2758	2714	1731	818	671	759	732	668
MAX	6837	4763	4564	7458	7922	7674	7097	3998	3017	3479	2917	8262
(WY)	1991	1949	1933	1998	1960	1993	1936	1975	1982	1997	1967	1945
MIN	45.9	54.1	105	152	321	412	234	142	88.5	95.6	82.4	41.0
(WY)	1931	1942	1934	1934	1938	1981	1967	1981	1986	1986	1957	1954

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1930 - 2001

ANNUAL TOTAL	289520	162663	
ANNUAL MEAN	791	446	1350
HIGHEST ANNUAL MEAN			2492
LOWEST ANNUAL MEAN			446
HIGHEST DAILY MEAN	13100	Jan 31	85600
LOWEST DAILY MEAN	76	Nov 6	19
ANNUAL SEVEN-DAY MINIMUM	85	Nov 3	78
MAXIMUM PEAK FLOW			16400
MAXIMUM PEAK STAGE			13.31
INSTANTANEOUS LOW FLOW			68*
ANNUAL RUNOFF (CFSM)	.58	.32	.98
ANNUAL RUNOFF (INCHES)	7.85	4.41	13.37
10 PERCENT EXCEEDS	1950	851	2940
50 PERCENT EXCEEDS	214	184	401
90 PERCENT EXCEEDS	97	95	105

e Estimated.  
\* See REMARKS.

02126000 ROCKY RIVER NEAR NORWOOD, NC--Continued



PEE DEE RIVER BASIN

02128000 LITTLE RIVER NEAR STAR, NC

LOCATION.--Lat 35°23'11", long 79°49'56", Montgomery County, Hydrologic Unit 03040104, on left bank 9 ft downstream from bridge on Secondary Road 1340, 50 ft upstream from Black Rock Branch, 0.2 mi upstream from Norfolk Southern Railway bridge, 0.3 mi downstream from West Fork Little River, and 3 mi west of Star.

DRAINAGE AREA.--106 mi<sup>2</sup>.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-54. April 1954 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 409.00 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Oct. 5, 1968, as a result of upstream withdrawals for water supply. Minimum discharge for current water year also occurred Sept. 18-20.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in September 1945 reached a stage of about 20 ft, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	6.9	9.2	13	22	31	125	20	96	24	12	6.4
2	6.0	6.5	8.8	12	21	28	128	19	104	20	11	5.1
3	5.4	7.1	8.8	11	24	28	70	18	52	18	9.9	4.1
4	4.6	6.9	8.8	12	21	284	55	17	27	19	8.7	5.1
5	4.2	7.0	8.6	12	17	263	48	16	19	152	7.6	5.2
6	4.0	6.3	8.5	12	17	136	42	15	15	88	7.0	4.7
7	3.3	6.5	8.2	13	17	70	39	14	12	41	5.6	3.7
8	2.6	7.6	8.5	14	16	49	35	14	12	e35	5.1	3.0
9	2.5	7.7	8.8	14	16	41	32	14	11	e30	4.0	2.8
10	2.4	7.7	8.8	15	17	36	30	14	11	31	4.2	3.2
11	2.6	8.0	8.8	17	17	32	28	14	10	26	5.7	2.8
12	2.7	7.8	8.8	15	20	30	27	14	9.0	22	11	2.3
13	3.0	7.4	8.7	16	40	33	26	13	10	20	46	1.8
14	3.2	10	8.7	17	69	32	30	12	33	20	36	1.4
15	3.0	7.9	8.8	17	60	42	26	11	33	17	29	1.3
16	2.9	9.5	18	17	49	101	25	12	36	14	14	1.0
17	3.0	11	203	16	232	76	23	28	35	13	8.8	.71
18	3.1	11	145	15	227	49	21	25	19	11	65	.65
19	3.1	13	48	16	72	39	20	20	13	12	126	.65
20	3.5	13	32	44	46	40	20	17	10	12	51	44
21	3.5	13	24	144	36	345	20	14	8.6	10	24	58
22	4.0	12	21	58	35	255	20	15	9.1	9.8	14	13
23	3.7	11	18	37	40	120	19	24	67	9.0	10	6.2
24	3.6	12	17	29	40	71	19	18	50	13	8.0	8.7
25	4.6	13	16	24	39	54	27	18	194	19	7.1	12
26	5.2	21	14	21	40	45	115	18	184	14	5.9	13
27	6.5	37	14	20	47	40	45	19	82	16	5.2	12
28	6.0	25	14	18	36	37	29	25	51	22	4.8	7.8
29	6.5	17	15	17	---	123	24	24	35	18	5.1	5.4
30	5.8	13	14	20	---	1050	20	22	28	15	5.1	4.1
31	5.8	---	13	22	---	253	---	18	---	13	5.2	---
TOTAL	127.7	342.8	756.8	728	1333	3833	1188	542	1275.7	783.8	562.0	240.11
MEAN	4.12	11.4	24.4	23.5	47.6	124	39.6	17.5	42.5	25.3	18.1	8.00
MAX	7.4	37	203	144	232	1050	128	28	194	152	126	58
MIN	2.4	6.3	8.2	11	16	28	19	11	8.6	9.0	4.0	.65
CFSM	.04	.11	.23	.22	.45	1.17	.37	.16	.40	.24	.17	.08
IN.	.04	.12	.27	.26	.47	1.35	.42	.19	.45	.28	.20	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2001, BY WATER YEAR (WY)

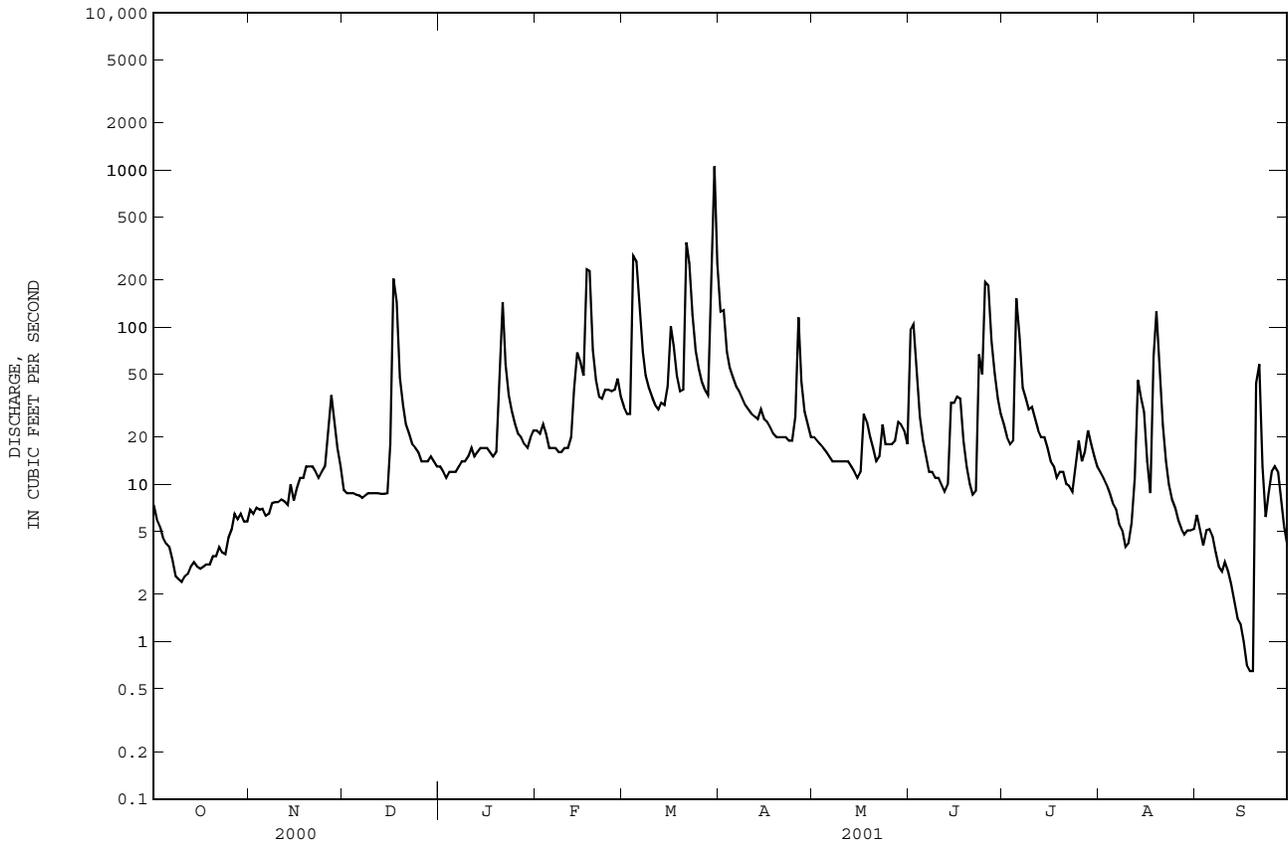
	MEAN	MAX	(WY)	MIN	(WY)
1954	68.4	337	1991	4.03	1987
1955	66.3	366	1986	10.7	1962
1956	95.8	361	1973	18.7	1966
1957	171	511	1998	23.5	2001
1958	213	467	1960	47.6	2001
1959	221	678	1998	47.0	1967
1960	171	430	1958	38.0	1967
1961	97.4	296	1990	17.5	2001
1962	70.5	273	1972	12.8	1967
1963	66.9	578	1997	6.37	1977
1964	50.4	249	1985	4.80	1983
1965	48.4	261	1979	.76	1968

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1954 - 2001

ANNUAL TOTAL	24560.3	11712.91	
ANNUAL MEAN	67.1	32.1	111
HIGHEST ANNUAL MEAN			209
LOWEST ANNUAL MEAN			32.1
HIGHEST DAILY MEAN	1370	1050	9800
LOWEST DAILY MEAN	1.3	.65	.27
ANNUAL SEVEN-DAY MINIMUM	1.6	1.1	.30
MAXIMUM PEAK FLOW		1700	15400
MAXIMUM PEAK STAGE		7.13	18.60
INSTANTANEOUS LOW FLOW		.65*	.24*
ANNUAL RUNOFF (CFSM)	.63	.30	1.05
ANNUAL RUNOFF (INCHES)	8.62	4.11	14.29
10 PERCENT EXCEEDS	159	58	193
50 PERCENT EXCEEDS	22	16	49
90 PERCENT EXCEEDS	3.6	4.2	9.2

e Estimated.  
\* See REMARKS.

02128000 LITTLE RIVER NEAR STAR, NC--Continued





02129000 PEE DEE RIVER NEAR ROCKINGHAM, NC--Continued

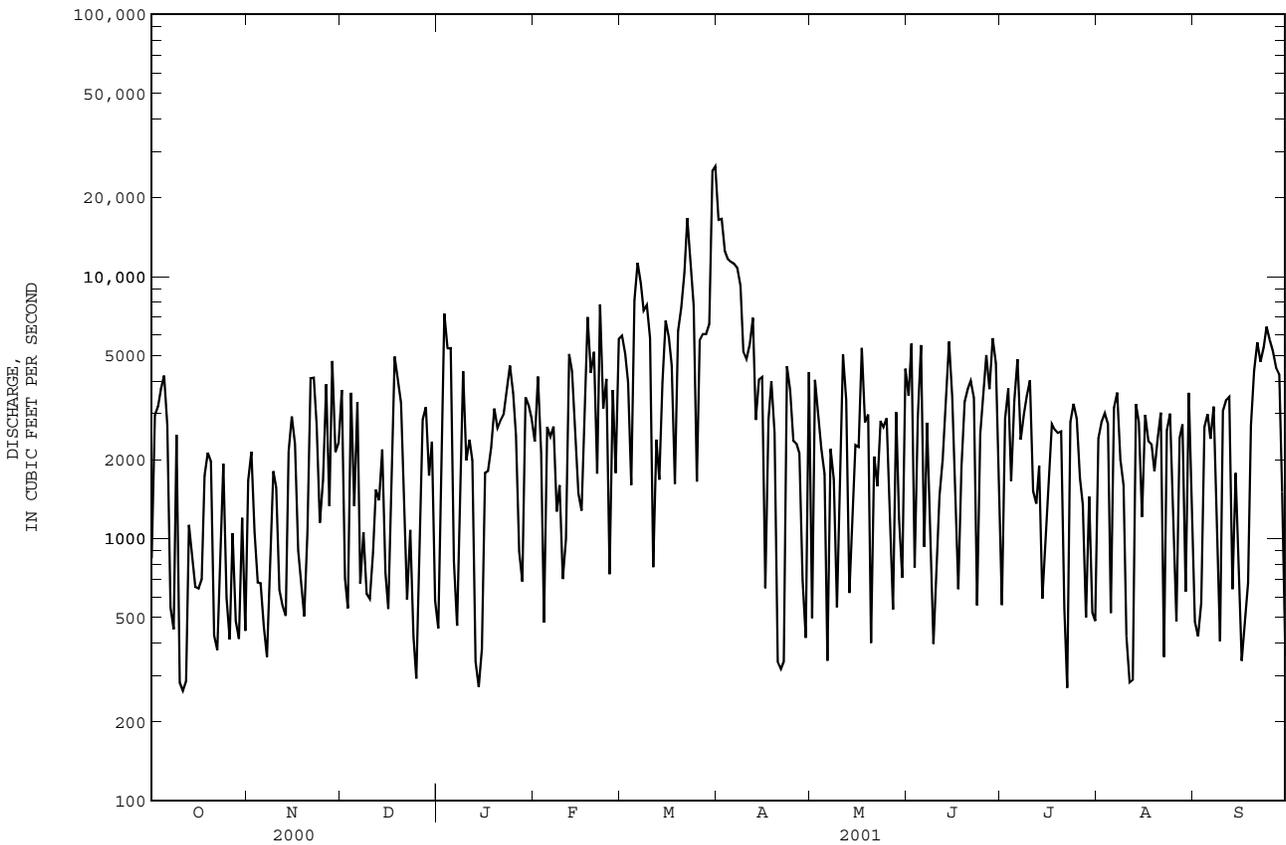
SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1928 - 2001*	
ANNUAL TOTAL	1577326		1067970		7967 (UNADJUSTED)	
ANNUAL MEAN	4310		2926		13000 1975	
HIGHEST ANNUAL MEAN			‡2811		2926 2001	
LOWEST ANNUAL MEAN					242000 Sep 18 1945	
HIGHEST DAILY MEAN	27800	Feb 15	26300	Mar 31	185	Sep 28 1985
LOWEST DAILY MEAN	263	Oct 11	263	Oct 11	58*	Dec 2 1951
ANNUAL SEVEN-DAY MINIMUM	591	Oct 10	591	Oct 10	185	Sep 28 1985
MAXIMUM PEAK FLOW			34800		270000* Sep 18 1945	
MAXIMUM PEAK STAGE			8.16		30.80* Sep 18 1945	
INSTANTANEOUS LOW FLOW			205		50* Dec 2 1951	
10 PERCENT EXCEEDS	9940		5720		14400	
50 PERCENT EXCEEDS	2800		2330		5580	
90 PERCENT EXCEEDS	625		481		1640	

e Estimated.

† Change in contents, equivalent in cubic feet per second, in W. Kerr Scott Reservoir, provided by U.S. Army Corps of Engineers; High Rock Lake, Tuckertown Reservoir, and Badin Lake, provided by Yadkin, Inc.; Lake Tillery and Blewett Falls Lake, provided by Carolina Power and Light Company.

‡ Adjusted for change in contents.

\* For regulated period only (1928-2001). See REMARKS.



PEE DEE RIVER BASIN

02132320 BIG SHOE HEEL CREEK NEAR LAURINBURG, NC

LOCATION.--Lat 34°45'01", long 79°23'12", Scotland County, Hydrologic Unit 03040204, at downstream side of bridge near center of span on U.S. Highway 74, 2.5 mi downstream of Jordan Creek, and 4.5 mi southeast of Laurinburg.

DRAINAGE AREA.-- 83.3 mi<sup>2</sup>.

PERIOD OF RECORD.--Occasional discharge measurements, water years 1949-54, 1959, 1962, 1968-69. June 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 170 ft above sea level. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Maximum discharge for period of record from rating curve extended above 600 ft<sup>3</sup>/s by logarithmic plotting. Minimum discharge for current water year also occurred Aug. 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	48	126	76	69	70	147	48	49	27	19	22
2	70	45	101	72	67	68	132	44	65	27	18	23
3	64	45	92	70	65	66	97	40	79	27	17	23
4	58	46	88	68	65	97	82	33	60	25	16	26
5	55	49	82	68	72	115	76	30	43	31	16	27
6	53	51	79	68	73	122	71	27	36	33	17	26
7	52	51	76	68	69	108	67	26	32	29	17	24
8	50	51	75	69	66	88	64	25	31	29	17	21
9	49	56	72	75	64	79	61	24	32	39	17	20
10	48	58	79	76	64	73	58	24	31	39	16	20
11	47	60	85	72	61	69	54	24	30	37	15	21
12	47	56	83	72	70	66	48	24	28	34	15	20
13	48	54	78	78	100	68	45	24	32	30	15	20
14	47	61	74	78	113	67	43	23	41	28	18	19
15	51	76	73	75	112	92	42	22	52	26	17	18
16	51	78	72	71	95	126	42	22	52	24	16	17
17	46	80	95	69	116	142	43	29	64	23	15	16
18	45	81	98	67	131	149	43	41	73	20	17	16
19	44	85	96	66	138	124	41	40	60	19	42	16
20	44	111	90	92	126	99	40	34	45	20	45	16
21	45	120	85	114	101	111	40	31	38	19	40	17
22	48	128	80	124	96	122	39	29	35	18	33	21
23	46	121	76	115	106	130	38	30	35	18	27	21
24	47	99	73	93	106	126	37	31	35	20	24	24
25	46	108	70	81	96	105	49	27	57	23	23	62
26	46	151	69	76	88	87	66	27	55	23	21	74
27	47	168	68	71	81	78	61	26	43	26	20	82
28	53	183	83	68	76	72	55	28	37	26	19	84
29	54	188	92	66	---	84	59	46	33	23	20	77
30	47	165	89	66	---	117	54	60	30	23	21	50
31	46	---	82	69	---	136	---	54	---	21	23	---
TOTAL	1587	2673	2581	2393	2486	3056	1794	993	1333	807	656	923
MEAN	51.2	89.1	83.3	77.2	88.8	98.6	59.8	32.0	44.4	26.0	21.2	30.8
MAX	93	188	126	124	138	149	147	60	79	39	45	84
MIN	44	45	68	66	61	66	37	22	28	18	15	16
CFSM	.61	1.07	1.00	.93	1.07	1.18	.72	.38	.53	.31	.25	.37
IN.	.71	1.19	1.15	1.07	1.11	1.36	.80	.44	.60	.36	.29	.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY)

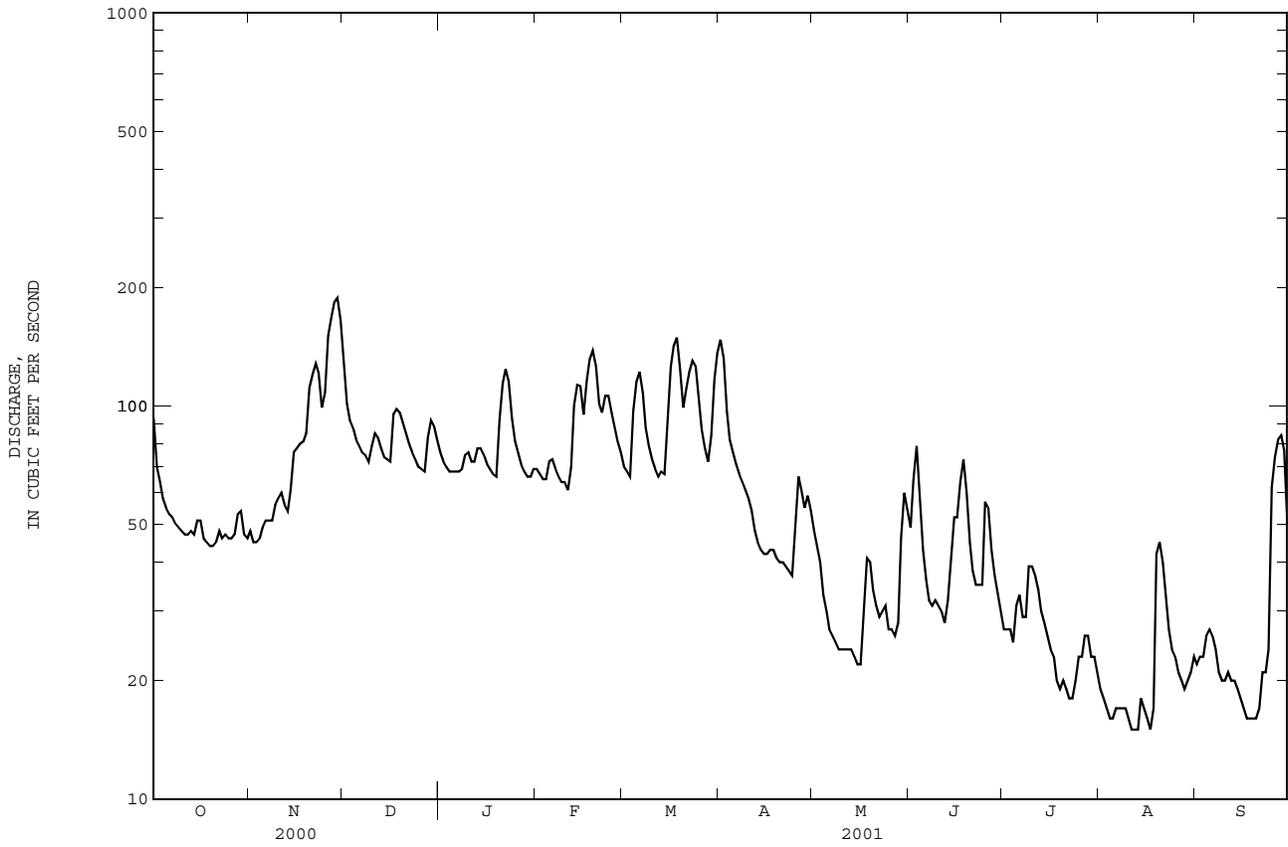
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	92.8	88.2	98.1	142	144	150	108	69.1	60.1	57.7	63.2	77.4			
MAX	329	143	141	283	342	327	229	157	122	175	171	161			
(WY)	2000	1996	1990	2000	1998	1998	1998	1989	1995	1989	1991	1999			
MIN	41.3	54.1	50.2	69.3	62.0	72.0	59.8	32.0	28.3	15.6	21.2	20.3			
(WY)	1988	1995	1989	1989	1989	1988	2001	2001	1990	1990	2001	1990			

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1987 - 2001

ANNUAL TOTAL	42076	21282		
ANNUAL MEAN	115	58.3	95.8	
HIGHEST ANNUAL MEAN			146	2000
LOWEST ANNUAL MEAN			58.3	2001
HIGHEST DAILY MEAN	1050	Jan 27	188	Nov 29
LOWEST DAILY MEAN	25	Jun 3	15	Aug 11
ANNUAL SEVEN-DAY MINIMUM	29	Aug 19	16	Aug 11
MAXIMUM PEAK FLOW			189	Nov 28
MAXIMUM PEAK STAGE			3.60	Nov 28
INSTANTANEOUS LOW FLOW			15*	Aug 17
ANNUAL RUNOFF (CFSM)	1.38		.70	
ANNUAL RUNOFF (INCHES)	18.79		9.50	
10 PERCENT EXCEEDS	226		106	178
50 PERCENT EXCEEDS	76		52	72
90 PERCENT EXCEEDS	35		20	29

\* See REMARKS.

02132320 BIG SHOE HEEL CREEK NEAR LAURINBURG, NC--Continued



02133500 DROWNING CREEK NEAR HOFFMAN, NC

LOCATION.--Lat 35°03'38", long 79°29'39", Richmond County, Hydrologic Unit 03040203, on right bank 10 ft downstream of bridge on U.S. Highway 1, 1 mi upstream from Seaboard Coast Line Railroad bridge, 0.8 mi downstream of Deep Creek, and 4 mi northeast of Hoffman.

DRAINAGE AREA.--183 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WSP 972: 1941(M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 270 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Since 1984, the town of Southern Pines has withdrawn water for public supply 0.5 mi upstream from the gage. These withdrawals cause some diurnal fluctuation at low to medium flow and may affect yearly minimums. A daily average of 5.6 ft<sup>3</sup>/s was diverted during the year.

REVISIONS.--Maximum discharge for water year 1999 to 1,070 ft<sup>3</sup>/s, Jan. 26, 1999, gage height 6.35 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	153	72	177	132	150	158	655	94	135	81	48	53
2	139	72	158	127	140	149	646	84	265	71	42	61
3	123	73	173	124	125	136	490	78	391	65	37	60
4	108	69	198	123	118	177	395	73	362	59	32	62
5	98	74	186	124	128	232	335	67	253	66	27	73
6	91	84	156	124	132	256	292	63	126	113	26	71
7	81	83	145	125	125	245	259	62	84	132	25	59
8	76	83	145	130	118	223	242	59	73	104	23	46
9	77	85	133	149	117	177	228	58	76	139	34	40
10	76	88	132	152	107	150	210	57	78	169	33	39
11	77	86	138	142	114	146	196	56	75	125	41	93
12	77	83	135	135	139	144	182	57	67	78	45	114
13	76	85	130	139	187	149	166	55	71	63	94	76
14	71	103	128	138	213	157	158	54	173	58	131	56
15	69	156	135	140	219	181	167	50	333	56	115	48
16	71	179	133	136	215	235	171	50	401	51	79	42
17	69	170	158	128	226	269	154	168	371	46	54	38
18	69	143	207	124	255	254	138	271	329	41	55	35
19	67	153	243	126	302	226	e120	326	257	40	109	33
20	67	203	248	157	273	184	e116	272	169	40	139	33
21	66	230	245	205	250	210	109	198	107	37	121	51
22	66	232	221	234	216	258	107	102	90	33	74	75
23	68	198	181	228	218	319	102	92	144	31	59	71
24	72	156	161	190	219	334	96	83	184	e38	51	121
25	72	165	149	157	218	309	145	70	214	e50	48	207
26	71	238	142	143	204	262	188	66	203	e58	43	233
27	75	286	138	127	191	210	191	84	199	63	38	217
28	69	310	154	130	174	182	172	108	225	57	32	135
29	68	268	165	126	---	203	123	192	187	55	32	79
30	69	233	153	130	---	269	106	215	106	52	35	66
31	68	---	141	143	---	382	---	188	---	50	37	---
TOTAL	2499	4460	5108	4488	5093	6786	6659	3452	5748	2121	1759	2387
MEAN	80.6	149	165	145	182	219	222	111	192	68.4	56.7	79.6
MAX	153	310	248	234	302	382	655	326	401	169	139	233
MIN	66	69	128	123	107	136	96	50	67	31	23	33
CFSM	.44	.81	.90	.79	.99	1.20	1.21	.61	1.05	.37	.31	.43
IN.	.51	.91	1.04	.91	1.04	1.38	1.35	.70	1.17	.43	.36	.49

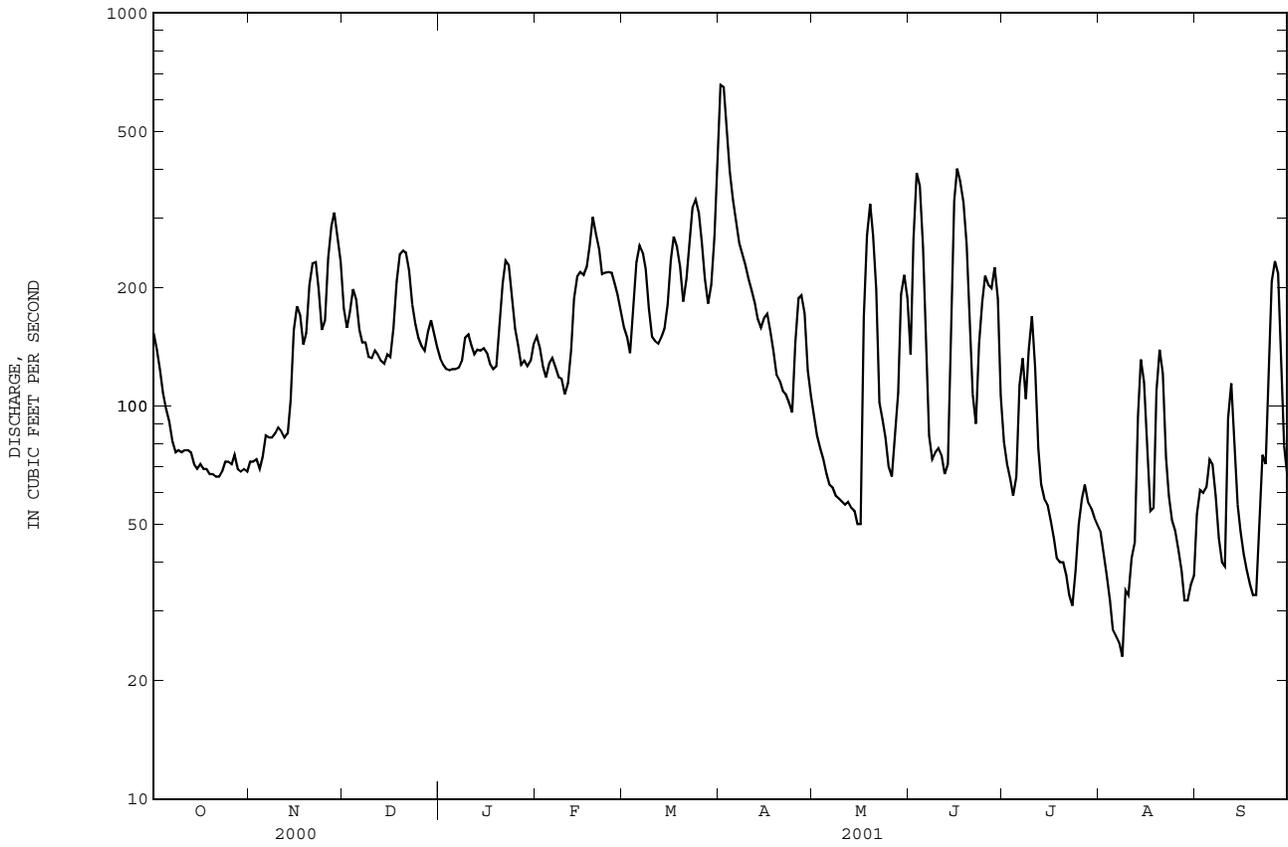
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

MEAN	199	230	261	325	361	379	324	226	171	192	182	181
MAX	595	499	530	561	687	729	842	465	421	624	497	932
(WY)	1965	1980	1973	1998	1960	1998	1973	1958	1976	1944	1985	1945
MIN	48.5	93.4	135	145	147	173	111	84.5	34.5	32.9	43.4	28.8
(WY)	1941	1942	1989	2001	1992	1981	1986	1988	1988	1986	1968	1968

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1940 - 2001
ANNUAL TOTAL	77833	50560	
ANNUAL MEAN	213	139	252
HIGHEST ANNUAL MEAN			397
LOWEST ANNUAL MEAN			129
HIGHEST DAILY MEAN	823	Feb 15	655
LOWEST DAILY MEAN	23	Aug 24	23
ANNUAL SEVEN-DAY MINIMUM	29	Aug 18	29
MAXIMUM PEAK FLOW			731
MAXIMUM PEAK STAGE			6.06
INSTANTANEOUS LOW FLOW			21
ANNUAL RUNOFF (CFSM)	1.16	.76	1.38
ANNUAL RUNOFF (INCHES)	15.82	10.28	18.70
10 PERCENT EXCEEDS	442	249	478
50 PERCENT EXCEEDS	156	126	203
90 PERCENT EXCEEDS	63	49	78

e Estimated.

02133500 DROWNING CREEK NEAR HOFFMAN, NC--Continued



## PEE DEE RIVER BASIN

02133624 LUMBER RIVER NEAR MAXTON, NC

LOCATION.--Lat 34°46'22", long 79°19'55", Robeson County, Hydrologic Unit 03040203, at downstream side of bridge, near right center of span, on State Highway 71, 2.6 mi north of Maxton, and 7.5 mi upstream from Gum Swamp.

DRAINAGE AREA.--365 mi<sup>2</sup>.

PERIOD OF RECORD.--Occasional discharge measurements, water years 1974, 1980-85. June 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 180 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	547	172	722	426	381	495	695	323	515	392	141	127
2	487	171	702	398	388	462	719	283	531	296	132	139
3	421	174	641	378	388	436	758	262	556	240	124	164
4	327	180	553	365	380	454	1090	244	595	209	117	170
5	275	188	489	358	376	478	1530	237	611	208	114	168
6	249	180	485	355	360	522	1320	222	671	200	102	179
7	232	195	491	361	362	548	1000	201	714	199	88	186
8	222	208	473	363	360	562	780	186	595	235	86	173
9	211	212	443	367	348	576	690	178	343	271	85	157
10	200	214	430	378	338	564	631	171	274	277	91	147
11	197	215	412	391	336	516	576	168	249	295	98	139
12	195	221	395	399	342	439	527	166	227	314	97	149
13	195	216	391	402	389	404	487	165	227	267	101	230
14	195	222	387	405	463	396	457	161	226	206	112	246
15	193	251	379	398	512	439	417	151	295	178	160	199
16	187	301	381	384	526	498	388	147	393	160	202	162
17	182	344	431	377	567	565	370	191	492	142	195	140
18	182	373	436	374	584	614	367	357	576	131	173	123
19	181	418	460	365	615	618	353	488	699	122	210	113
20	180	457	484	398	633	627	336	550	748	116	290	107
21	178	465	508	444	630	642	326	565	686	119	338	104
22	180	507	540	507	647	626	314	570	579	119	328	120
23	177	528	557	533	657	632	296	554	380	112	282	165
24	173	532	557	534	640	650	280	393	313	107	215	195
25	174	569	528	538	609	650	296	280	400	114	175	321
26	176	609	462	526	568	667	339	241	485	127	155	443
27	177	615	420	477	542	669	393	223	498	147	141	607
28	179	689	416	420	524	653	424	249	499	176	127	695
29	184	712	422	381	---	635	422	303	447	177	123	635
30	179	713	437	367	---	599	392	411	411	164	118	532
31	173	---	440	366	---	628	---	480	---	148	119	---
TOTAL	7008	10851	14872	12735	13465	17264	16973	9120	14235	5968	4839	7035
MEAN	226	362	480	411	481	557	566	294	474	193	156	234
MAX	547	713	722	538	657	669	1530	570	748	392	338	695
MIN	173	171	379	355	336	396	280	147	226	107	85	104
CFSM	.62	.99	1.31	1.13	1.32	1.53	1.55	.81	1.30	.53	.43	.64
IN.	.71	1.11	1.52	1.30	1.37	1.76	1.73	.93	1.45	.61	.49	.72

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY)

	400	421	461	612	640	678	574	375	304	295	280	343
MEAN	400	421	461	612	640	678	574	375	304	295	280	343
MAX	827	661	650	926	1205	1267	1106	769	575	690	577	915
(WY)	2000	1996	1990	1998	1998	1998	1998	1989	1995	1995	1989	1996
MIN	184	267	282	364	300	363	303	202	135	147	132	130
(WY)	1988	1992	1992	1992	1992	1992	1992	1994	1988	1990	1999	1990

## SUMMARY STATISTICS

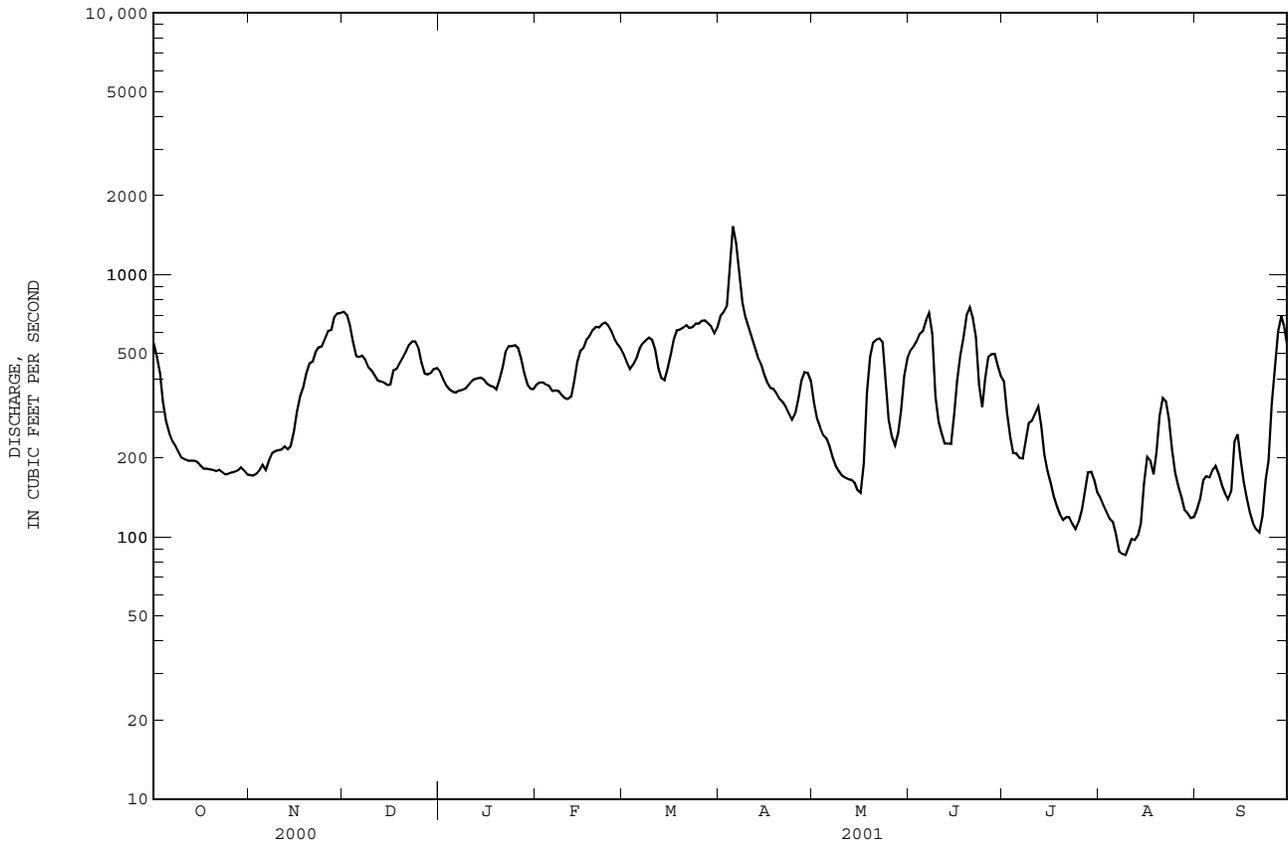
## FOR 2000 CALENDAR YEAR

## FOR 2001 WATER YEAR

## WATER YEARS 1987 - 2001

ANNUAL TOTAL	159420	134365										
ANNUAL MEAN	436	368								448		
HIGHEST ANNUAL MEAN										640		1998
LOWEST ANNUAL MEAN										283		1992
HIGHEST DAILY MEAN	1340	Feb 17			1530	Apr 5			3070	Mar 22		1998
LOWEST DAILY MEAN	121	Aug 24			85	Aug 9			75	Aug 13		1999
ANNUAL SEVEN-DAY MINIMUM	128	Aug 20			92	Aug 7			79	Aug 9		1999
MAXIMUM PEAK FLOW					1580	Apr 5			3380	Mar 22		1998
MAXIMUM PEAK STAGE					10.63	Apr 5			13.52	Mar 22		1998
INSTANTANEOUS LOW FLOW					84	Aug 9			73	Aug 14		1999
ANNUAL RUNOFF (CFSM)	1.19				1.01					1.23		
ANNUAL RUNOFF (INCHES)	16.25				13.69					16.68		
10 PERCENT EXCEEDS	843				629					789		
50 PERCENT EXCEEDS	409				365					393		
90 PERCENT EXCEEDS	178				141					162		

02133624 LUMBER RIVER NEAR MAXTON, NC--Continued



PEE DEE RIVER BASIN

02134170 LUMBER RIVER AT LUMBERTON, NC

LOCATION.--Lat 34°37'12", long 79°00'39", Robeson County, Hydrologic Unit 03040203, on right bank at upstream side of bridge on Fifth Street in Lumberton, 1.0 mi below Saddletree Swamp.

DRAINAGE AREA.--708 mi<sup>2</sup>.

PERIOD OF RECORD.--Occasional measurements water years 1954, 1959, 1967. July 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 110 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum discharge, 1,950 ft<sup>3</sup>/s Oct. 1, 2000, stage falling, peak occurred Sept. 29, 2000.

DISCHARGE, CUBIC FEET PER SECOND, FOR PERIOD JULY TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	256	764	292
2	---	---	---	---	---	---	---	---	---	263	673	368
3	---	---	---	---	---	---	---	---	---	260	622	719
4	---	---	---	---	---	---	---	---	---	275	568	1200
5	---	---	---	---	---	---	---	---	---	284	506	1510
6	---	---	---	---	---	---	---	---	---	305	484	1540
7	---	---	---	---	---	---	---	---	---	307	488	1460
8	---	---	---	---	---	---	---	---	---	291	519	1440
9	---	---	---	---	---	---	---	---	---	274	551	1370
10	---	---	---	---	---	---	---	---	---	269	e589	1240
11	---	---	---	---	---	---	---	---	---	271	e644	1090
12	---	---	---	---	---	---	---	---	---	291	668	961
13	---	---	---	---	---	---	---	---	---	363	584	871
14	---	---	---	---	---	---	---	---	---	713	498	791
15	---	---	---	---	---	---	---	---	---	964	419	693
16	---	---	---	---	---	---	---	---	---	1040	363	554
17	---	---	---	---	---	---	---	---	---	887	312	425
18	---	---	---	---	---	---	---	---	---	655	274	406
19	---	---	---	---	---	---	---	---	---	482	258	448
20	---	---	---	---	---	---	---	---	---	380	246	460
21	---	---	---	---	---	---	---	---	---	327	231	442
22	---	---	---	---	---	---	---	---	---	290	215	430
23	---	---	---	---	---	---	---	---	---	275	201	907
24	---	---	---	---	---	---	---	---	---	317	191	1870
25	---	---	---	---	---	---	---	---	---	470	202	2000
26	---	---	---	---	---	---	---	---	---	638	225	2000
27	---	---	---	---	---	---	---	---	---	725	210	2040
28	---	---	---	---	---	---	---	---	---	835	200	2110
29	---	---	---	---	---	---	---	---	---	845	198	2130
30	---	---	---	---	---	---	---	---	---	797	226	2030
31	---	---	---	---	---	---	---	---	---	805	291	---
TOTAL	---	---	---	---	---	---	---	---	---	15154	12420	33797
MEAN	---	---	---	---	---	---	---	---	---	489	401	1127
MAX	---	---	---	---	---	---	---	---	---	1040	764	2130
MIN	---	---	---	---	---	---	---	---	---	256	191	292
CFSM	---	---	---	---	---	---	---	---	---	.69	.57	1.59
IN.	---	---	---	---	---	---	---	---	---	.80	.65	1.78

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD JULY TO SEPTEMBER 2000

MEAN	---	---	---	---	---	---	---	---	---	489	401	1127
MAX	---	---	---	---	---	---	---	---	---	489	401	1127
(WY)	---	---	---	---	---	---	---	---	---	2000	2000	2000
MIN	---	---	---	---	---	---	---	---	---	489	401	1127
(WY)	---	---	---	---	---	---	---	---	---	2000	2000	2000

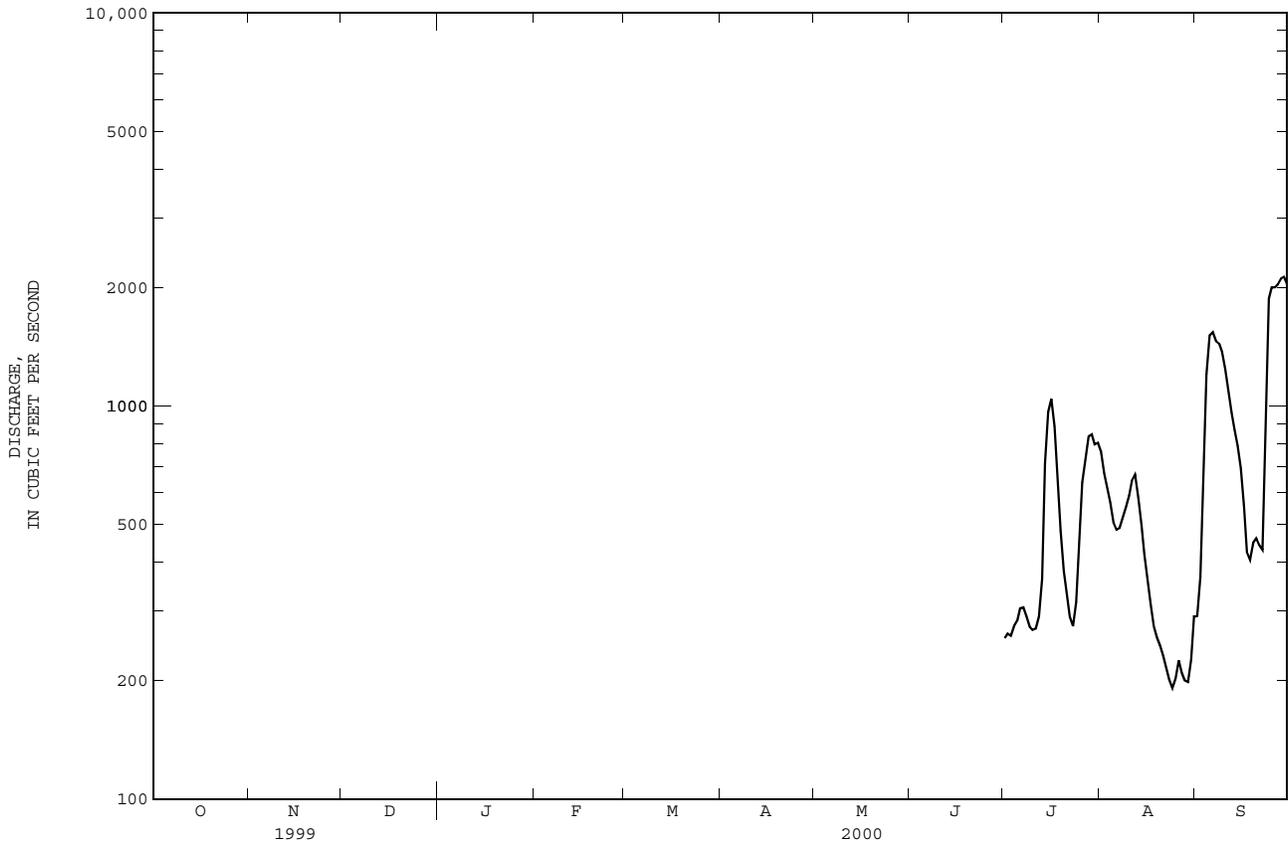
SUMMARY STATISTICS

FOR PERIOD JULY TO SEPTEMBER 2000

MAXIMUM PEAK FLOW	2150	Sep 29
MAXIMUM PEAK STAGE	14.07	Sep 29
INSTANTANEOUS LOW FLOW	184	Aug 25

e Estimated.

02134170 LUMBER RIVER AT LUMBERTON, NC--Continued



## PEE DEE RIVER BASIN

02134170 LUMBER RIVER AT LUMBERTON, NC--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1860	272	996	601	535	836	1150	358	455	547	188	339
2	1670	267	996	587	507	780	1090	360	670	519	174	245
3	1510	264	983	580	492	748	1030	340	727	496	164	204
4	1350	262	975	566	490	823	1010	307	694	517	158	190
5	1210	276	959	550	516	866	1020	278	655	607	153	196
6	1060	282	911	535	528	863	1010	257	619	542	144	199
7	898	292	838	517	536	835	1030	240	578	495	139	195
8	737	301	756	513	525	811	1130	229	548	438	135	191
9	613	305	693	511	507	795	1180	215	610	380	127	192
10	534	308	672	509	499	779	1110	201	909	354	120	198
11	492	312	658	510	488	759	984	193	757	379	116	192
12	464	313	644	515	494	745	852	188	541	613	128	179
13	433	313	631	524	533	747	747	187	405	598	124	172
14	405	338	615	534	559	734	670	180	468	521	141	164
15	382	357	598	546	577	769	600	177	606	448	132	178
16	366	369	584	544	596	863	551	176	756	365	137	200
17	355	382	582	535	685	909	505	283	1270	307	143	193
18	341	403	585	522	781	930	462	242	1060	266	255	175
19	326	456	598	509	840	912	426	258	906	234	538	160
20	316	536	609	532	879	921	400	305	929	212	366	149
21	312	572	615	556	893	1100	385	369	867	193	357	142
22	308	601	621	568	931	1220	370	404	813	179	383	138
23	302	612	636	583	995	1250	353	430	824	177	440	131
24	294	619	651	605	1010	1220	338	436	783	180	439	159
25	287	672	660	628	981	1150	322	437	727	174	362	213
26	280	789	669	645	965	1100	315	423	578	169	295	205
27	275	833	673	654	933	1060	323	356	473	166	249	231
28	273	911	693	651	890	1020	331	311	500	168	212	269
29	273	966	678	636	---	1050	342	340	561	174	194	310
30	273	992	652	612	---	1170	351	375	569	194	181	341
31	272	---	624	576	---	1180	---	403	---	194	200	---
TOTAL	18471	14175	22055	17454	19165	28945	20387	9258	20858	10806	6894	6050
MEAN	596	472	711	563	684	934	680	299	695	349	222	202
MAX	1860	992	996	654	1010	1250	1180	437	1270	613	538	341
MIN	272	262	582	509	488	734	315	176	405	166	116	131
CFSM	.84	.67	1.00	.80	.97	1.32	.96	.42	.98	.49	.31	.28
IN.	.97	.74	1.16	.92	1.01	1.52	1.07	.49	1.10	.57	.36	.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

MEAN	596	472	711	563	684	934	680	299	695	419	312	664
MAX	596	472	711	563	684	934	680	299	695	489	401	1127
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2000	2000	2000
MIN	596	472	711	563	684	934	680	299	695	349	222	202
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

## SUMMARY STATISTICS

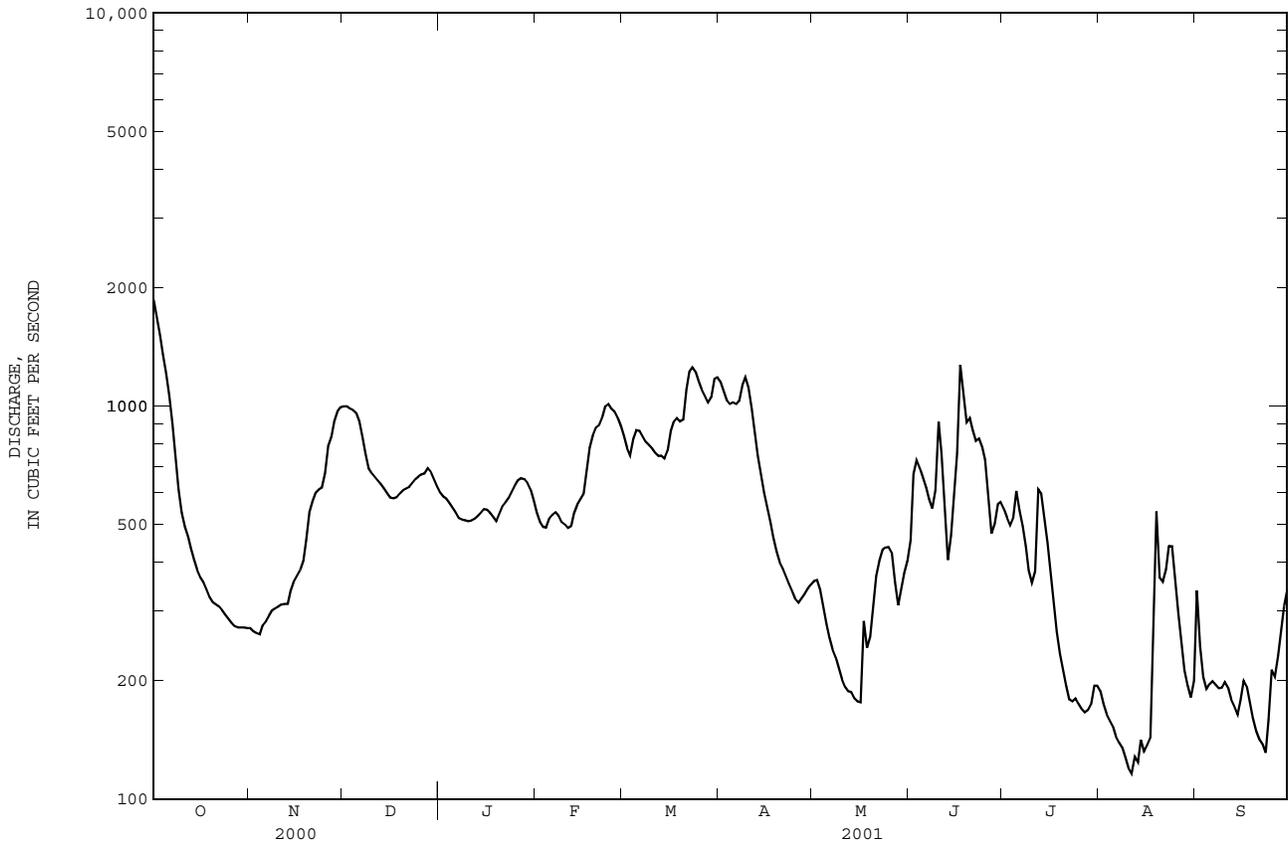
FOR 2001 WATER YEAR

WATER YEARS 2000 - 2001

ANNUAL TOTAL	194518	
ANNUAL MEAN	533	533
HIGHEST ANNUAL MEAN		533
LOWEST ANNUAL MEAN		533
HIGHEST DAILY MEAN	1860	Oct 1
LOWEST DAILY MEAN	116	Aug 11
ANNUAL SEVEN-DAY MINIMUM	127	Aug 9
MAXIMUM PEAK FLOW	1340*	Jun 17
MAXIMUM PEAK STAGE	12.08*	Jun 17
INSTANTANEOUS LOW FLOW	114	Aug 11
ANNUAL RUNOFF (CFSM)	.75	.75
ANNUAL RUNOFF (INCHES)	10.22	10.23
10 PERCENT EXCEEDS	982	1010
50 PERCENT EXCEEDS	510	507
90 PERCENT EXCEEDS	180	192

\* See REMARKS.

02134170 LUMBER RIVER AT LUMBERTON, NC--Continued



PEE DEE RIVER BASIN

02134480 BIG SWAMP NEAR TARHEEL, NC

LOCATION.--Lat 34°42'37", long 78°50'14", Robeson County, Hydrologic Unit 03040203, on left bank at downstream side of bridge on Secondary Road 1004, and 2.8 mi southwest of Tarheel.

DRAINAGE AREA.--229 mi<sup>2</sup>.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-54, 1957-58, 1962-68. October 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 105 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge, 602 ft<sup>3</sup>/s, stage falling, peak occurred Sept. 28, 2000; maximum peak discharge, 464 ft<sup>3</sup>/s, June 22, gage height 10.76 ft. Minimum discharge for period of record, no flow, also occurred Sept. 1-4, 1993.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	546	35	291	197	129	251	402	39	82	116	20	81
2	444	34	271	193	128	229	415	34	94	102	18	69
3	358	34	250	181	125	212	405	29	107	96	19	53
4	318	34	229	169	123	219	386	24	119	99	16	49
5	285	36	213	158	129	236	349	21	125	115	16	53
6	255	41	203	151	135	256	317	18	113	130	18	49
7	224	47	198	148	142	277	287	15	68	141	17	40
8	198	50	195	148	149	294	262	13	44	156	19	35
9	175	52	191	150	150	288	242	11	40	164	19	35
10	152	52	189	151	145	269	221	9.7	36	148	19	38
11	128	49	186	152	137	246	202	14	30	122	19	36
12	107	45	186	155	134	221	183	8.9	24	124	19	30
13	90	43	188	155	146	203	163	8.8	22	101	19	27
14	81	47	197	154	158	188	140	8.6	38	89	22	e26
15	72	66	197	157	173	195	118	6.9	75	103	29	e22
16	64	86	192	161	187	223	102	7.0	123	95	29	e21
17	58	97	194	163	209	252	91	10	264	71	26	e21
18	53	99	190	161	230	284	81	18	366	52	26	e22
19	50	101	187	155	243	317	73	24	408	38	43	e21
20	48	121	191	153	262	331	66	25	441	29	63	e22
21	46	137	199	155	283	390	60	23	456	23	112	e22
22	45	154	202	164	299	411	53	18	449	18	124	22
23	46	168	195	173	300	420	47	15	429	15	130	25
24	44	175	187	177	288	436	43	14	417	19	136	30
25	42	174	180	176	281	435	39	13	371	22	128	51
26	40	202	173	170	283	416	40	12	307	21	98	56
27	40	216	167	161	277	384	52	12	252	19	67	59
28	41	236	168	151	266	342	61	15	200	20	49	52
29	40	267	173	141	---	328	55	32	159	20	40	47
30	38	296	184	133	---	336	47	69	133	22	40	43
31	36	---	194	131	---	364	---	83	---	22	47	---
TOTAL	4164	3194	6160	4944	5511	9253	5002	650.9	5792	2312	1447	1157
MEAN	134	106	199	159	197	298	167	21.0	193	74.6	46.7	38.6
MAX	546	296	291	197	300	436	415	83	456	164	136	81
MIN	36	34	167	131	123	188	39	6.9	22	15	16	21
CFSM	.59	.46	.87	.70	.86	1.30	.73	.09	.84	.33	.20	.17
IN.	.68	.52	1.00	.80	.90	1.50	.81	.11	.94	.38	.24	.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2001, BY WATER YEAR (WY)

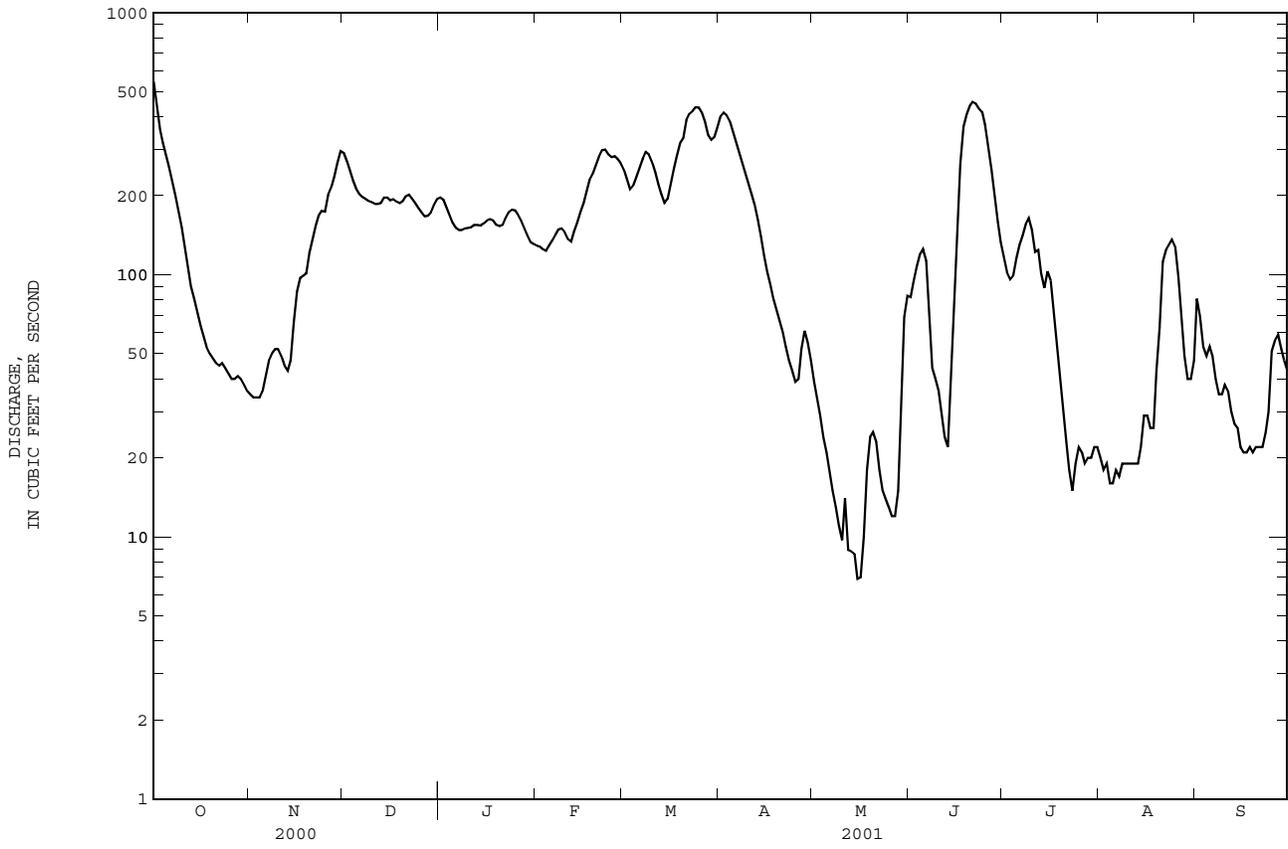
MEAN	199	166	228	432	409	427	258	121	99.1	90.3	122	215
MAX	1094	382	396	1001	1418	1194	571	362	474	407	358	923
(WY)	2000	1993	1990	1993	1998	1998	1993	1999	1995	1991	1991	1999
MIN	3.43	15.3	64.7	92.9	127	138	66.8	17.1	15.0	8.31	17.6	6.98
(WY)	1999	1999	1999	1986	1986	1988	1986	1986	1986	1998	1987	1997

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1986 - 2001

ANNUAL TOTAL	77199.1	49586.9	
ANNUAL MEAN	211	136	230
HIGHEST ANNUAL MEAN			395 1998
LOWEST ANNUAL MEAN			101 1986
HIGHEST DAILY MEAN	1480 Jan 27	546 Oct 1	3900 Feb 6 1998
LOWEST DAILY MEAN	4.4 Jul 22	6.9 May 15	.00 Aug 31 1993
ANNUAL SEVEN-DAY MINIMUM	8.8 Jul 19	9.1 May 10	.01 Aug 29 1993
MAXIMUM PEAK FLOW		464* Jun 22	3980 Mar 11 1998
MAXIMUM PEAK STAGE		10.76* Jun 22	14.34 Sep 17 1999
INSTANTANEOUS LOW FLOW		6.4 May 16	.00* Aug 31 1993
ANNUAL RUNOFF (CFSM)	.92	.59	1.00
ANNUAL RUNOFF (INCHES)	12.54	8.06	13.62
10 PERCENT EXCEEDS	461	292	506
50 PERCENT EXCEEDS	170	122	138
90 PERCENT EXCEEDS	19	20	15

e Estimated.  
\* See REMARKS.

02134480 BIG SWAMP NEAR TARHEEL, NC--Continued



02134500 LUMBER RIVER AT BOARDMAN, NC

LOCATION.--Lat 34°26'32", long 78°57'38", Robeson County, Hydrologic Unit 03040203, on right bank 150 ft downstream of bridge on U.S. Highway 74, 1 mi downstream of Seaboard Coast Line Railroad bridge at Boardman, 1.5 mi downstream of Big Swamp, and 40.5 mi upstream from mouth.

DRAINAGE AREA.--1,228 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1929 to current year.

REVISED RECORDS.--WSP 1303: 1932 (M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 72.05 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to Sept. 30, 1936, nonrecording gage at site 100 ft downstream at same datum. Sept. 30, 1936, to June 8, 1943, nonrecording gage at present site and datum. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record also occurred Sept. 19, 1999.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 1928 reached a stage of 11.8 ft, from floodmark witnessed by local resident; discharge, 25,000 ft<sup>3</sup>/s. Flood of July 22, 1901, the highest during the period 1896-1913, reached a stage of 10.8 ft, from observations by Butters Lumber Co.; discharge, 14,800 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3420	339	1090	949	844	1320	1950	371	412	845	265	420
2	3380	338	1140	922	818	1290	1920	374	515	832	257	397
3	3270	336	1180	889	780	1260	1860	374	598	909	246	412
4	3110	333	1200	859	765	1340	1790	372	731	1050	232	403
5	2910	336	1210	842	774	1370	1700	364	816	1080	218	382
6	2660	335	1200	825	755	1410	1630	347	815	1070	208	358
7	2390	337	1200	807	745	1440	1590	326	774	1040	198	345
8	2120	340	1190	793	746	1420	1570	308	739	1010	189	333
9	1870	346	1150	776	751	1380	1560	294	730	951	183	321
10	1630	351	1120	753	749	1320	1570	281	691	864	177	311
11	1400	351	1090	739	729	1260	1570	267	666	772	167	346
12	1220	351	1120	740	743	1210	1520	253	748	893	158	354
13	1070	353	1080	745	796	1190	1420	241	809	934	158	345
14	949	362	1050	745	809	1150	1300	235	770	932	171	322
15	855	375	1040	746	829	1200	1170	229	645	927	183	299
16	774	384	1010	744	848	1280	1070	226	572	866	184	278
17	696	395	987	745	891	1320	973	265	644	766	176	271
18	626	405	950	749	921	1380	884	322	791	642	180	269
19	575	e420	928	747	962	1400	803	322	976	530	229	257
20	533	e480	920	764	1030	1420	727	306	1100	395	339	238
21	487	e540	911	768	1080	1550	649	304	1080	340	498	223
22	447	565	914	762	1140	1650	585	318	1030	319	592	210
23	414	595	912	771	1210	1810	537	337	1040	299	623	199
24	397	630	908	786	1260	1940	488	353	1020	296	630	193
25	386	694	904	801	1320	1990	443	365	1040	321	701	210
26	376	798	902	813	1350	2020	410	375	1070	322	772	273
27	367	863	910	830	1340	2000	390	378	1080	307	785	281
28	359	935	951	841	1330	1950	376	378	1040	287	744	284
29	351	983	973	850	---	1900	369	390	958	270	667	295
30	345	1040	976	862	---	1920	368	399	881	267	577	308
31	341	---	969	863	---	1920	---	398	---	264	502	---
TOTAL	39728	14910	32085	24826	26315	47010	33192	10072	24781	20600	11209	9137
MEAN	1282	497	1035	801	940	1516	1106	325	826	665	362	305
MAX	3420	1040	1210	949	1350	2020	1950	399	1100	1080	785	420
MIN	341	333	902	739	729	1150	368	226	412	264	158	193
CFSM	1.04	.40	.84	.65	.77	1.23	.90	.26	.67	.54	.29	.25
IN.	1.20	.45	.97	.75	.80	1.42	1.01	.31	.75	.62	.34	.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2001, BY WATER YEAR (WY)

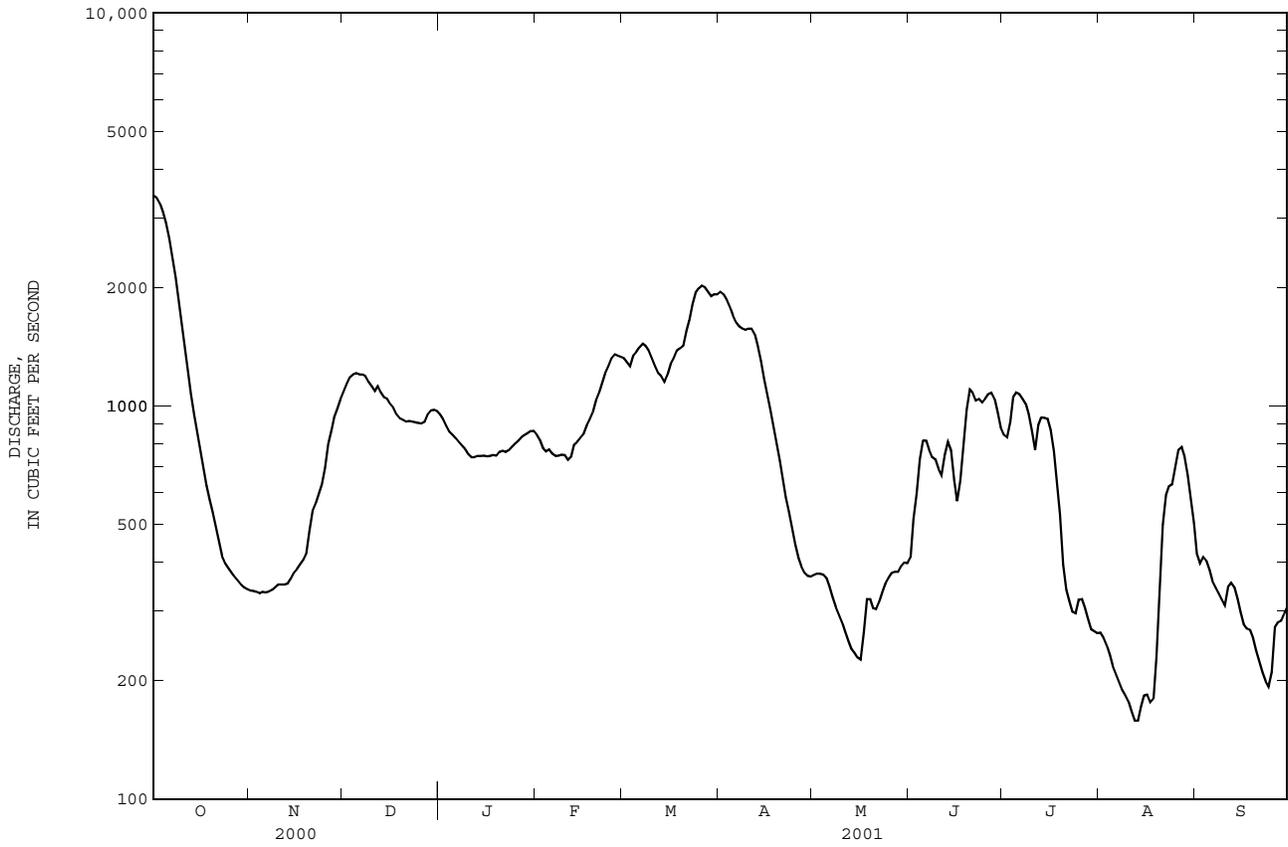
MEAN	902	892	1307	1884	2247	2349	1851	991	756	796	923	1066
MAX	5496	4142	3977	4575	5944	5259	5688	3430	2587	2808	3741	4930
(WY)	2000	1948	1949	1993	1998	1983	1936	1978	1969	1943	1974	1999
MIN	141	211	237	262	429	611	420	276	215	174	138	92.2
(WY)	1941	1934	1934	1934	1934	1934	1981	1986	1941	1990	1954	1968

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1930 - 2001	
ANNUAL TOTAL	527388		293865			
ANNUAL MEAN	1441		805		1325	
HIGHEST ANNUAL MEAN					2391	
LOWEST ANNUAL MEAN					524	
HIGHEST DAILY MEAN	6830	Jan 31	3420	Oct 1	13400	Sep 24 1945
LOWEST DAILY MEAN	333	Nov 4	158	Aug 12	68	Oct 1 1968
ANNUAL SEVEN-DAY MINIMUM	336	Nov 1	171	Aug 9	72	Oct 3 1968
MAXIMUM PEAK FLOW			3480	Oct 1	13400*	Sep 24 1945
MAXIMUM PEAK STAGE			7.50	Oct 1	10.70	Sep 19 1999
INSTANTANEOUS LOW FLOW			156	Aug 12	66	Oct 9 1968
ANNUAL RUNOFF (CFSM)	1.17		.66		1.08	
ANNUAL RUNOFF (INCHES)	15.98		8.90		14.67	
10 PERCENT EXCEEDS	3180		1420		2820	
50 PERCENT EXCEEDS	988		753		962	
90 PERCENT EXCEEDS	381		270		298	

e Estimated.

\* See REMARKS.

02134500 LUMBER RIVER AT BOARDMAN, NC--Continued



PEE DEE RIVER BASIN

351812080445545 CRN01

LOCATION.--Lat 35°18'20", long 80°44'55", Mecklenburg County, Hydrologic Unit 03040105, Fire Station 27, Ken Hoffman Drive, Charlotte, NC.

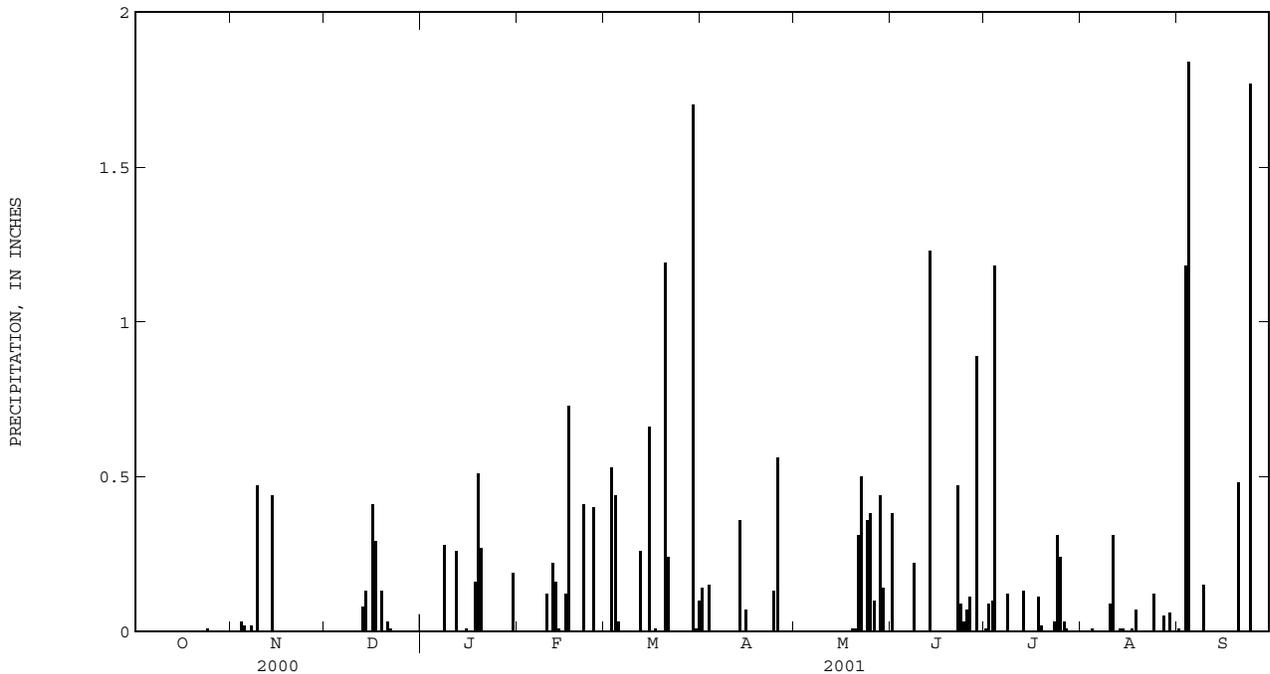
PERIOD OF RECORD.--September 1992 to current year. Records for period September 1992 to September 1998 published in USGS OFR 96-150, 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	.00	.00	.00	.14	.00	.38	.01	.00	.01
2	.00	.00	---	.00	.00	.00	.00	.00	.00	.09	.00	.00
3	.00	.00	---	.00	.00	.53	.15	.00	.00	.10	.00	1.18
4	.00	.03	---	.00	.00	.44	.00	.00	.00	1.18	.01	1.84
5	.00	.02	---	.00	.00	.03	.00	.00	.00	.00	.00	.00
6	.00	.00	---	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.02	---	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	---	.28	.00	.00	.00	.00	.22	.12	.00	.00
9	.00	.47	---	.00	.00	.00	.00	.00	.00	.00	.00	.15
10	.00	.00	---	.00	.12	.00	.00	.00	.00	.00	.09	.00
11	.00	.00	---	.00	.00	.00	.00	.00	.00	.00	.31	.00
12	.00	.00	---	.26	.22	.26	.00	.00	.00	.00	.00	.00
13	.00	.00	.08	.00	.16	.00	.36	.00	1.23	.13	.01	.00
14	.00	.44	.13	.00	.01	.00	.00	.00	.00	.00	.01	.00
15	.00	---	.00	.01	.00	.66	.07	.00	.00	.00	.00	.00
16	.00	---	.41	.00	.12	.00	.00	.00	.00	.00	.00	.00
17	.00	---	.29	.00	.73	.01	.00	.00	.00	.00	.01	.00
18	.00	---	.00	.16	.00	.00	.00	.00	.00	.11	.07	.00
19	.00	---	.13	.51	.00	.00	.00	.01	.00	.02	.00	.00
20	.00	---	.00	.27	.00	1.19	.00	.01	.00	.00	.00	.48
21	.00	---	.03	.00	.00	.24	.00	.31	.00	.00	.00	.00
22	.00	---	.01	.00	.41	.00	.00	.50	.47	.00	.00	.00
23	.00	---	.00	.00	.00	.00	.00	.00	.09	.03	.00	.00
24	.01	---	.00	.00	.00	.00	.13	.36	.03	.31	.12	1.77
25	.00	---	.00	.00	.40	.00	.56	.38	.07	.24	.00	.00
26	.00	---	.00	.00	.00	.00	.00	.10	.11	.03	.00	.00
27	.00	---	.00	.00	.00	.00	.00	.00	.00	.01	.05	.00
28	.00	---	.00	.00	.00	.00	.00	.44	.89	.00	.00	.00
29	.00	---	.00	.00	---	1.70	.00	.14	.00	.00	.06	.00
30	.00	---	.00	.19	---	.01	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.10	---	.00	---	.00	.00	---
TOTAL	0.01	---	---	1.68	2.17	5.17	1.41	2.25	3.49	2.38	0.74	5.43



351540080430045 CRN16

LOCATION.--Lat 35°15'40", long 80°43'00", Mecklenburg County, Hydrologic Unit 03040105, Reedy Creek Park Environmental Center, Rocky River Road, Charlotte, NC.

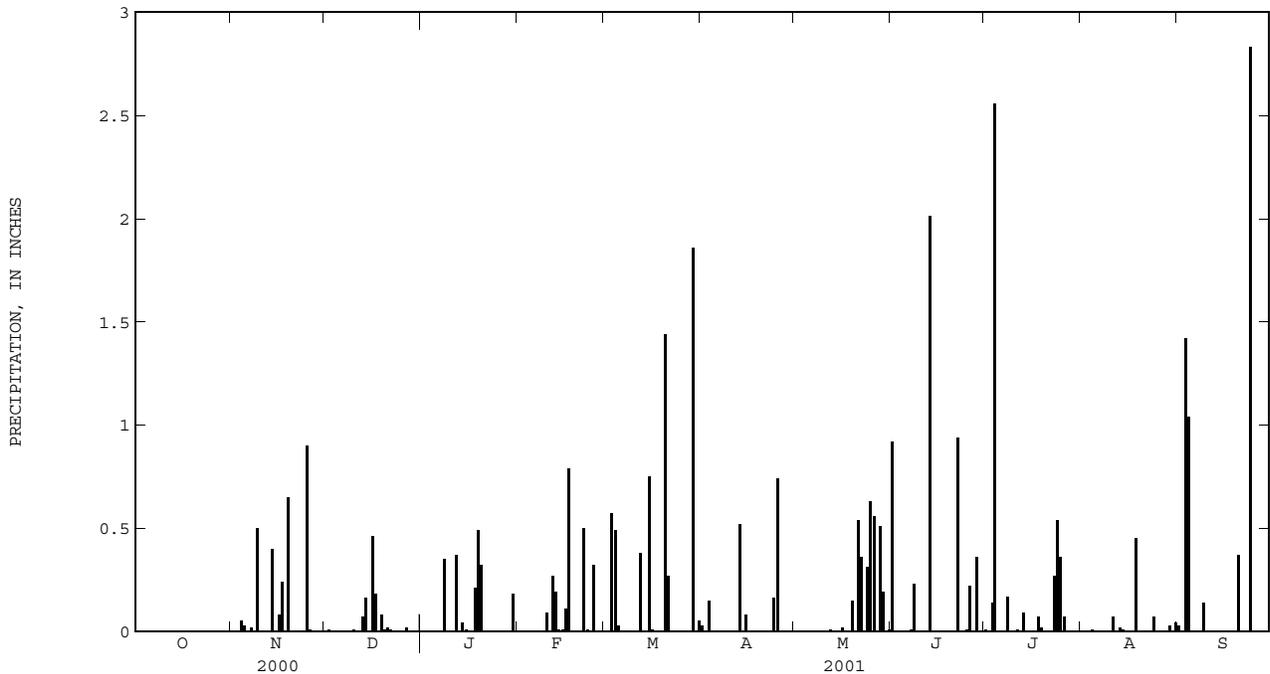
PERIOD OF RECORD.--March 1993 to current year. Records for period March 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.03	.00	.92	.01	.00	.03
2	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.57	.15	.00	.00	.14	.00	1.42
4	.00	.05	.00	.00	.00	.49	.00	.00	.00	2.56	.01	1.04
5	.00	.03	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.02	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
8	.00	.00	.00	.35	.00	.00	.00	.00	.23	.17	.00	.00
9	.00	.50	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14
10	.00	.00	.01	.00	.09	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.07	.00
12	.00	.00	.00	.37	.27	.38	.00	.01	.00	.00	.00	.00
13	.00	.00	.07	.00	.19	.00	.52	.00	2.01	.09	.02	.00
14	.00	.40	.16	.04	.01	.00	.00	.00	.00	.00	.01	.00
15	.00	.00	.00	.01	.01	.75	.08	.00	.00	.00	.00	---
16	.00	.08	.46	.00	.11	.01	.00	.02	.00	.00	.00	---
17	.00	.24	.18	.00	.79	.00	.00	.00	.00	.00	.00	---
18	.00	.00	.00	.21	.00	.00	.00	.00	.00	.07	.45	.00
19	.00	.65	.08	.49	.00	.00	.00	.15	.00	.02	.00	.00
20	.00	.00	.01	.32	.00	1.44	.00	.00	.00	.00	.00	.37
21	.00	.00	.02	.00	.00	.27	.00	.54	.00	.00	.00	.00
22	.00	.00	.01	.00	.50	.00	.00	.36	.94	.00	.00	.00
23	.00	.00	.00	.00	.01	.00	.00	.00	.00	.27	.00	.00
24	.00	.00	.00	.00	.00	.00	.16	.31	.00	.54	.07	2.83
25	.00	.90	.00	.00	.32	.00	.74	.63	.01	.36	.00	.00
26	.00	.01	.00	.00	.00	.00	.00	.56	.22	.07	.00	.00
27	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.51	.36	.00	.00	.00
29	.00	.00	.00	.00	---	1.86	.00	.19	.00	.00	.03	.00
30	.00	.00	.00	.18	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.05	---	.01	---	.00	.04	---
TOTAL	0.00	2.88	1.03	1.97	2.30	5.85	1.68	3.29	4.70	4.31	0.70	---



PEE DEE RIVER BASIN

351302080412701 CRN23

LOCATION.--Lat 35°13'02", long 80°41'27", Mecklenburg County, Hydrologic Unit 03040105, Harrisburg Road Landfill, Harrisburg Road, Charlotte, NC.

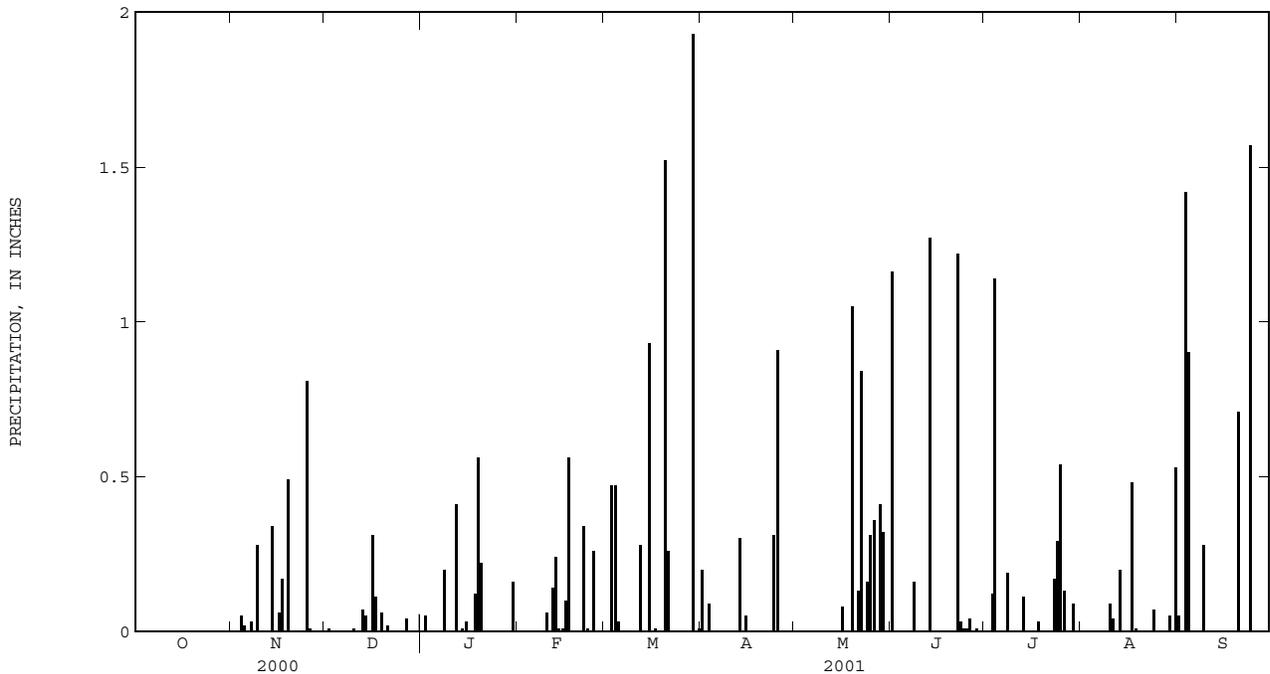
PERIOD OF RECORD.--October 1988 to current year. Records for period October 1988 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.20	.00	1.16	.00	.00	.05
2	.00	.00	.01	.05	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.47	.09	.00	.00	.12	.00	1.42
4	.00	.05	.00	.00	.00	.47	.00	.00	.00	1.14	.00	.90
5	.00	.02	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.20	.00	.00	.00	.00	.16	.19	.00	.00
9	.00	.28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.28
10	.00	.00	.01	.00	.06	.00	.00	.00	.00	.00	.09	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00
12	.00	.00	.00	.41	.14	.28	.00	.00	.00	.00	.00	.00
13	.00	.00	.07	.00	.24	.00	.30	.00	1.27	.11	.20	.00
14	.00	.34	.05	.01	.01	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.03	.01	.93	.05	.00	.00	.00	.00	.00
16	.00	.06	.31	.00	.10	.00	.00	.08	.00	.00	.00	.00
17	.00	.17	.11	.00	.56	.01	.00	.00	.00	.00	.48	.00
18	.00	.00	.00	.12	.00	.00	.00	.00	.00	.03	.01	.00
19	.00	.49	.06	.56	.00	.00	.00	1.05	.00	.00	.00	.00
20	.00	.00	.00	.22	.00	1.52	.00	.00	.00	.00	.00	.71
21	.00	.00	.02	.00	.00	.26	.00	.13	.00	.00	.00	.00
22	.00	.00	.00	.00	.34	.00	.00	.84	1.22	.00	.00	.00
23	.00	.00	.00	.00	.01	.00	.00	.00	.03	.17	.00	.00
24	.00	.00	.00	.00	.00	.00	.31	.16	.01	.29	.07	1.57
25	.00	.81	.00	.00	.26	.00	.91	.31	.01	.54	.00	.00
26	.00	.01	.00	.00	.00	.00	.00	.36	.04	.13	.00	.00
27	.00	.00	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.41	.01	.00	.00	.00
29	.00	.00	.00	.00	---	1.93	.00	.32	.00	.09	.05	.00
30	.00	.00	.00	.16	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.01	---	.00	---	.00	.53	---
TOTAL	0.00	2.26	0.68	1.76	1.73	5.91	1.86	3.66	3.91	2.81	1.47	4.93



352432080473745 CRN26

LOCATION.--Lat 35°24'32", long 80°47'37", Mecklenburg County, Hydrologic Unit 03040105, Bradford Airfield, Huntersville-Concord Road, Huntersville, NC.

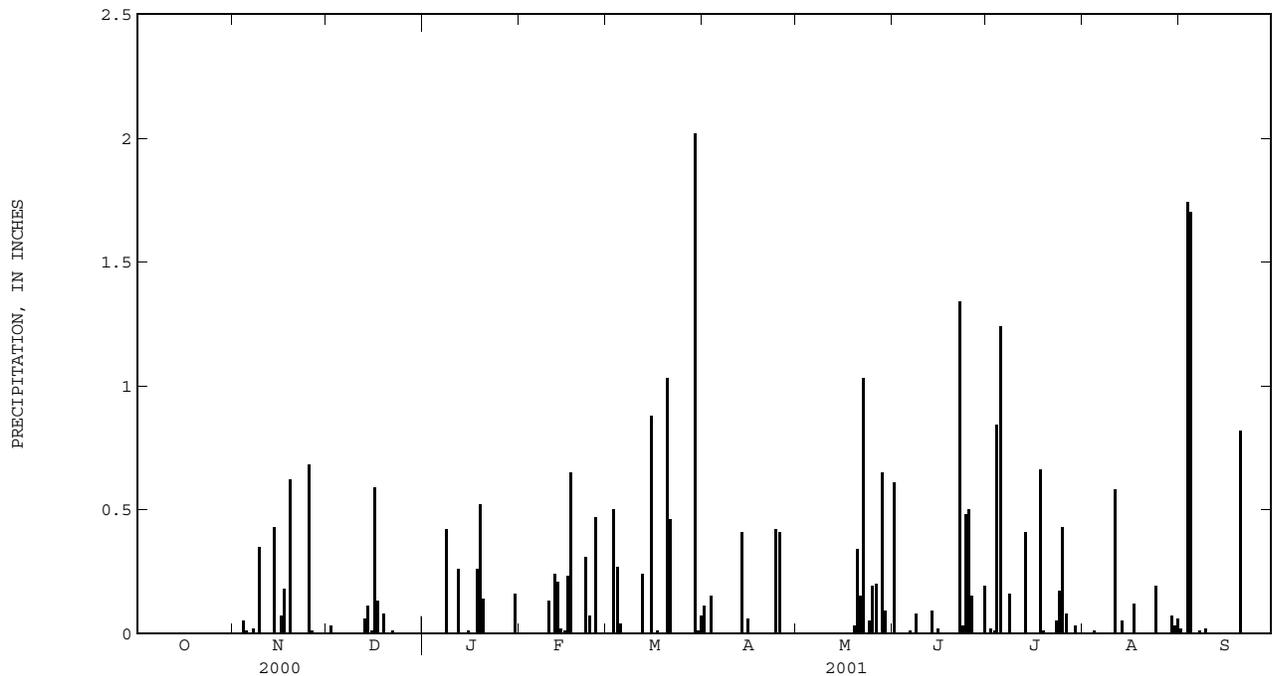
PERIOD OF RECORD.--June 1994 to current year. Records for period June 1994 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.11	.00	.61	.00	.00	.02
2	.00	.00	.03	.00	.00	.00	.00	.00	.00	.02	.00	.00
3	.00	.00	.00	.00	.00	.50	.15	.00	.00	.01	.00	1.74
4	.00	.05	.00	.00	.00	.27	.00	.00	.00	.84	.01	1.70
5	.00	.01	.00	.00	.00	.04	.00	.00	.00	1.24	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
7	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
8	.00	.00	.00	.42	.00	.00	.00	.00	.08	.16	.00	.00
9	.00	.35	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
10	.00	.00	.00	.00	.13	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.58	.00
12	.00	.00	.00	.26	.24	.24	.00	.00	.00	.00	.00	.00
13	.00	.00	.06	.00	.21	.00	.41	.00	.09	.41	.05	.00
14	.00	.43	.11	.00	.02	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.01	.01	.01	.88	.06	.00	.02	.00	.00	.00
16	.00	.07	.59	.00	.23	.00	.00	.00	.00	.00	.00	.00
17	.00	.18	.13	.00	.65	.01	.00	.00	.00	.00	.12	.00
18	.00	.00	.00	.26	.00	.00	.00	.00	.00	.66	.00	.00
19	.00	.62	.08	.52	.00	.00	.00	.03	.00	.01	.00	.00
20	.00	.00	.00	.14	.00	1.03	.00	.34	.00	.00	.00	.82
21	.00	.00	.00	.00	.00	.46	.00	.15	.00	.00	.00	---
22	.00	.00	.01	.00	.31	.00	.00	1.03	1.34	.00	.00	---
23	.00	.00	.00	.00	.07	.00	.00	.00	.03	.05	.00	---
24	.00	.00	.00	.00	.00	.00	.42	.05	.48	.17	.19	---
25	.00	.68	.00	.00	.47	.00	.41	.19	.50	.43	.00	---
26	.00	.01	.00	.00	.00	.00	.00	.20	.15	.08	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.65	.00	.00	.00	.00
29	.00	.00	.00	.00	---	2.02	.00	.09	.00	.03	.07	.00
30	.00	.00	.00	.16	---	.01	.00	.00	.19	.00	.03	.00
31	.00	---	.00	.00	---	.07	---	.00	---	.00	.06	---
TOTAL	0.00	2.42	1.02	1.77	2.34	5.53	1.56	2.73	3.50	4.11	1.11	---



LOCATION.--Lat 35°12'18", long 80°33'13", Mecklenburg County, Hydrologic Unit 03040105, Clear Creek Boy Scout Camp, Belt Road, Midland, NC.

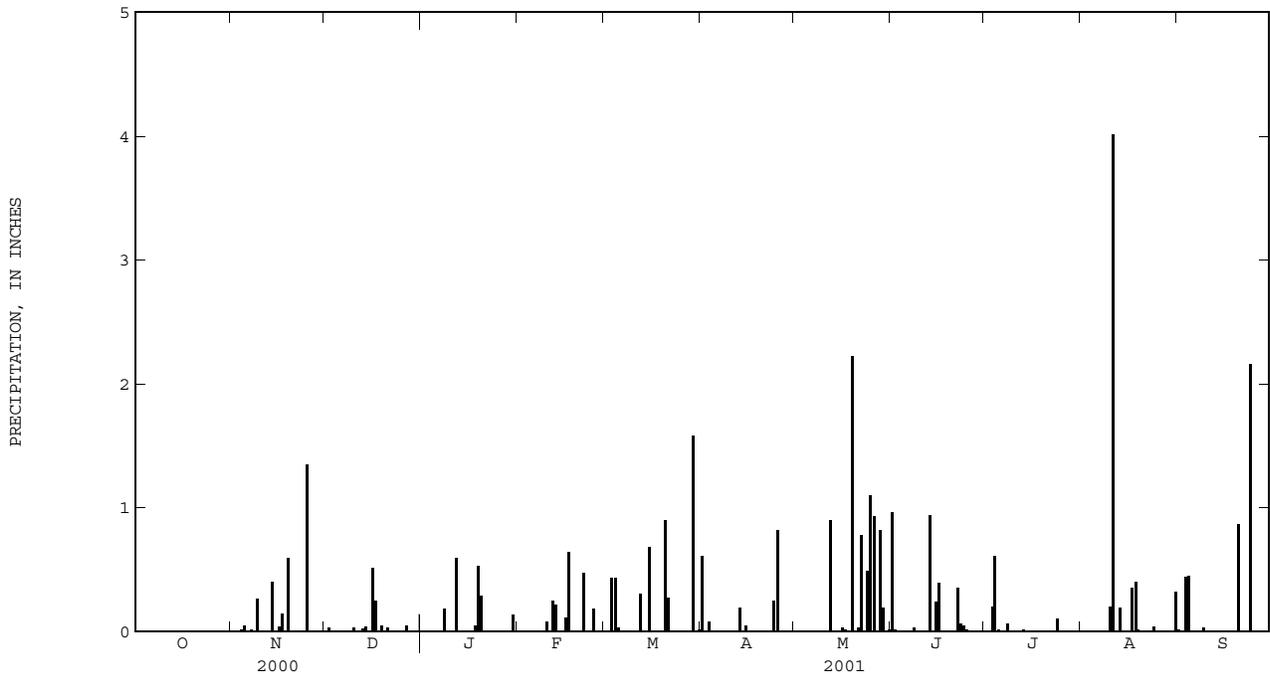
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.61	.00	.96	.00	.00	.01
2	.00	.00	.03	.00	.00	.00	.00	.00	.01	.00	.00	.00
3	.00	.00	.00	.00	.00	.43	.08	.00	.00	.20	.00	.44
4	.00	.01	.00	.00	.00	.43	.00	.00	.00	.61	.00	.45
5	.00	.05	.00	.00	.00	.03	.00	.00	.00	.01	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.18	.00	.00	.00	.00	.03	.06	.00	.00
9	.00	.26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
10	.00	.00	.03	.00	.08	.00	.00	.00	.00	.00	.20	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.01	.00
12	.00	.00	.00	.59	.25	.30	.00	.90	.00	.00	.00	.00
13	.00	.00	.02	.00	.21	.00	.19	.00	.94	.01	.19	.00
14	.00	.40	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.68	.05	.00	.24	.00	.00	.00
16	.00	.04	.51	.00	.11	.00	.00	.03	.39	.00	.00	.00
17	.00	.14	.25	.00	.64	.00	.00	.01	.00	.00	.35	.00
18	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.40	.00
19	.00	.59	.05	.53	.00	.00	.00	2.22	.00	.00	.01	.00
20	.00	.00	.00	.29	.00	.90	.00	.00	.00	.00	.00	.87
21	.00	.00	.03	.00	.00	.27	.00	.03	.00	.00	.00	.00
22	.00	.00	.00	.00	.47	.00	.00	.78	.35	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.06	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.25	.49	.05	.10	.04	2.16
25	.00	1.35	.00	.00	.18	.00	.82	1.10	.01	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.93	.00	.00	.00	.00
27	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.82	.00	.00	.00	.00
29	.00	.00	.00	.00	---	1.58	.00	.19	.00	.00	.00	.00
30	.00	.00	.00	.13	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.01	---	.01	---	.00	.32	---
TOTAL	0.00	2.85	1.01	1.77	1.94	4.63	2.00	7.51	3.04	0.99	5.52	3.96



351455080374445 CRN30

LOCATION.--Lat 35°14'55", long 80°37'44", Mecklenburg County, Hydrologic Unit 03040105, private residence, Peach Orchard Road, Mint Hill, NC.

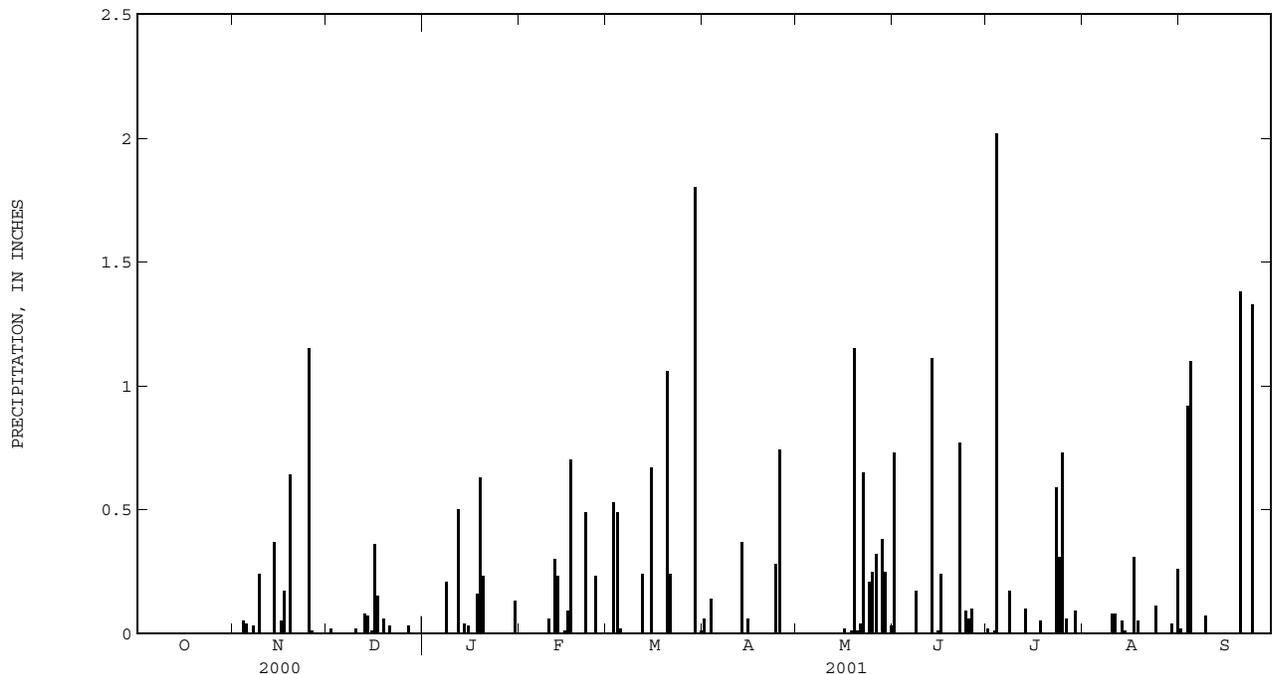
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.06	.00	.73	.02	.00	.02
2	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.53	.14	.00	.00	.01	.00	.92
4	.00	.05	.00	.00	.00	.49	.00	.00	.00	2.02	.00	1.10
5	.00	.04	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.21	.00	.00	.00	.00	.17	.17	.00	.00
9	.00	.24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
10	.00	.00	.02	.00	.06	.00	.00	.00	.00	.00	.08	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.00
12	.00	.00	.00	.50	.30	.24	.00	.00	.00	.00	.00	.00
13	.00	.00	.08	.00	.23	.00	.37	.00	1.11	.10	.05	.00
14	.00	.37	.07	.04	.00	.00	.00	.00	.00	.00	.01	.00
15	.00	.00	.01	.03	.01	.67	.06	.00	.01	.00	.00	.00
16	.00	.05	.36	.00	.09	.00	.00	.02	.24	.00	.00	.00
17	.00	.17	.15	.00	.70	.00	.00	.00	.00	.00	.31	.00
18	.00	.00	.00	.16	.00	.00	.00	.01	.00	.05	.05	.00
19	.00	.64	.06	.63	.00	.00	.00	1.15	.00	.00	.00	.00
20	.00	.00	.00	.23	.00	1.06	.00	.01	.00	.00	.00	1.38
21	.00	.00	.03	.00	.00	.24	.00	.04	.00	.00	.00	.00
22	.00	.00	.00	.00	.49	.00	.00	.65	.77	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.59	.00	.00
24	.00	.00	.00	.00	.00	.00	.28	.21	.09	.31	.11	1.33
25	.00	1.15	.00	.00	.23	.00	.74	.25	.06	.73	.00	.00
26	.00	.01	.00	.00	.00	.00	.00	.32	.10	.06	.00	.00
27	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.38	.00	.00	.00	.00
29	.00	.00	.00	.00	---	1.80	.00	.25	.00	.09	.04	.00
30	.00	.00	.00	.13	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.01	---	.03	---	.00	.26	---
TOTAL	0.00	2.75	0.83	1.93	2.11	5.06	1.65	3.32	3.28	4.15	0.99	4.82



PEE DEE RIVER BASIN

351028080385545 CRN32

LOCATION.--Lat 35°10'28", long 80°38'55", Mecklenburg County, Hydrologic Unit 03040105, Bain Elementary School, Bain School Road, Mint Hill, NC.

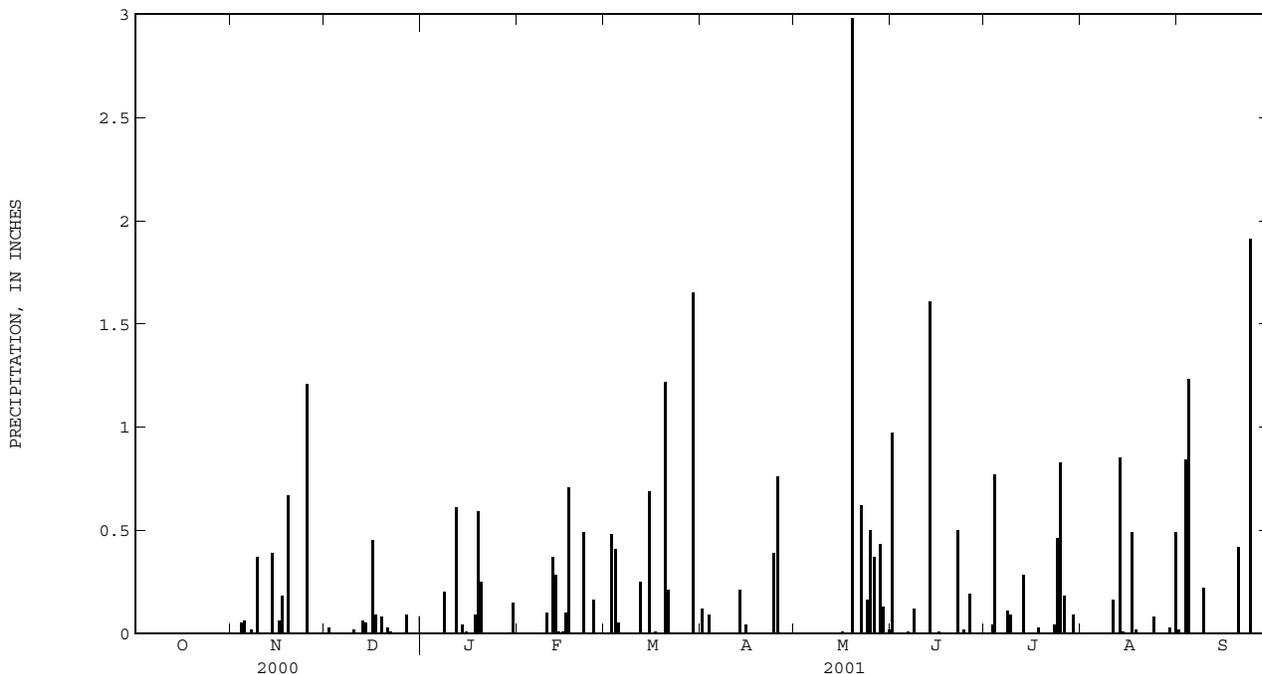
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.12	.00	.97	.00	.00	.02
2	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.48	.09	.00	.00	.04	.00	.84
4	.00	.05	.00	.00	.00	.41	.00	.00	.00	.77	.00	1.23
5	.00	.06	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
7	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.20	.00	.00	.00	.00	.12	.11	.00	.00
9	.00	.37	.00	.00	.00	.00	.00	.00	.00	.09	.00	.22
10	.00	.00	.02	.00	.10	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16	.00
12	.00	.00	.00	.61	.37	.25	.00	.00	.00	.00	.00	.00
13	.00	.00	.06	.00	.28	.00	.21	.00	1.61	.28	.85	.00
14	.00	.39	.05	.04	.01	.00	.00	.00	.00	.00	.01	.00
15	.00	.00	.00	.01	.01	.69	.04	.00	.00	.00	.00	.00
16	.00	.06	.45	.00	.10	.00	.00	.01	.01	.00	.00	.00
17	.00	.18	.09	.00	.71	.01	.00	.00	.00	.00	.49	.00
18	.00	.00	.00	.09	.00	.00	.00	.00	.00	.03	.02	.00
19	.00	.67	.08	.59	.00	.00	.00	2.98	.00	.00	.00	.00
20	.00	.00	.00	.25	.00	1.22	.00	.00	.00	.00	.00	.42
21	.00	.00	.03	.00	.00	.21	.00	.00	.00	.00	.00	.00
22	.00	.00	.01	.00	.49	.00	.00	.62	.50	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00
24	.00	.00	.00	.00	.00	.00	.39	.16	.02	.46	.08	1.91
25	.00	1.21	.00	.00	.16	.00	.76	.50	.00	.83	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.37	.19	.18	.00	.00
27	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.43	.00	.00	.00	.00
29	.00	.00	.00	.00	---	1.65	.00	.13	.00	.09	.03	.00
30	.00	.00	.00	.15	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.02	---	.00	.49	---
TOTAL	0.00	3.01	0.91	1.94	2.23	4.97	1.61	5.22	3.43	2.92	2.13	4.64



352000080414645 CRN33

LOCATION.--Lat 35°20'00", long 80°41'46", Mecklenburg County, Hydrologic Unit 03040105, Mallard Creek WWTP, U.S. Highway 29 North, Charlotte, NC.

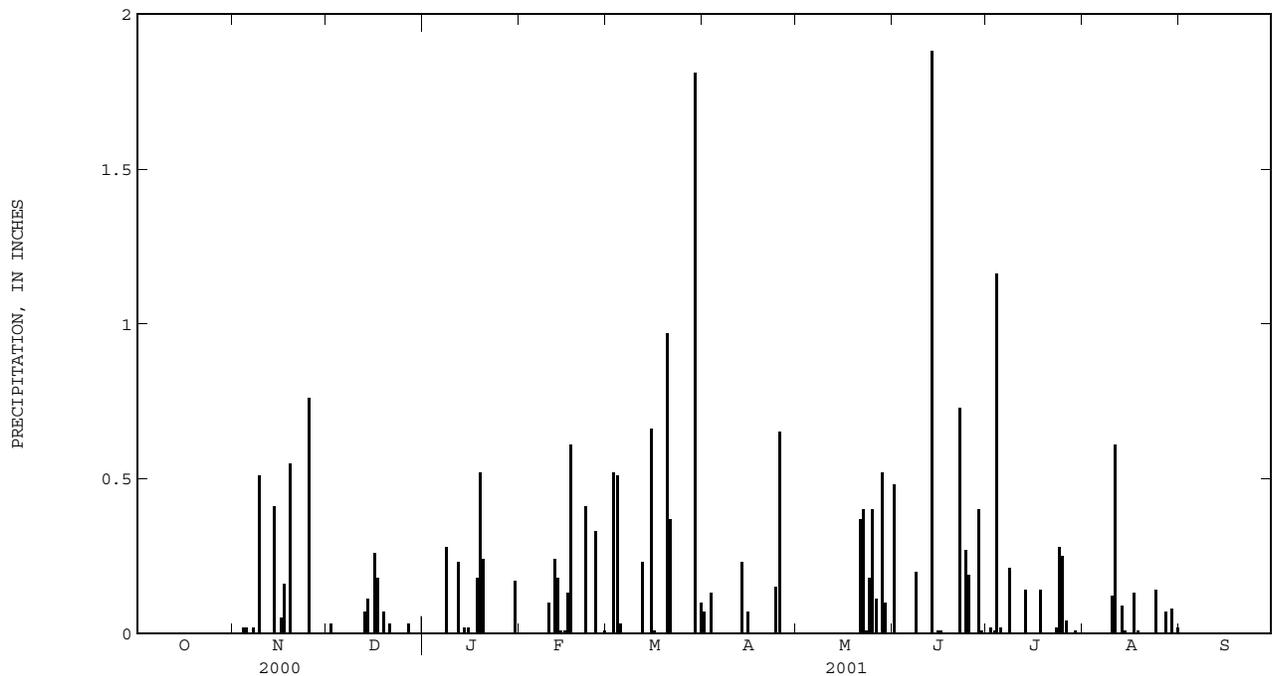
PERIOD OF RECORD.--December 1995 to current year. Records for period December 1995 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.07	.00	.48	.00	.00	.00
2	.00	.00	.03	.00	.00	.00	.00	.00	.00	.02	.00	.00
3	.00	.00	.00	.00	.00	.52	.13	.00	.00	.01	.00	---
4	.00	.02	.00	.00	.00	.51	.00	.00	.00	1.16	.00	---
5	.00	.02	.00	.00	.00	.03	.00	.00	.00	.02	.00	---
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	---
7	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	---
8	.00	.00	.00	.28	.00	.00	.00	.00	.20	.21	.00	---
9	.00	.51	.00	.00	.00	.00	.00	.00	.00	.00	.00	---
10	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.12	---
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.61	---
12	.00	.00	.00	.23	.24	.23	.00	.00	.00	.00	.00	---
13	.00	.00	.07	.00	.18	.00	.23	.00	1.88	.14	.09	---
14	.00	.41	.11	.02	.01	.00	.00	.00	.00	.00	.01	---
15	.00	.00	.00	.02	.01	.66	.07	.00	.01	.00	.00	---
16	.00	.05	.26	.00	.13	.01	.00	.00	.01	.00	.00	---
17	.00	.16	.18	.00	.61	.00	.00	.00	.00	.00	.13	---
18	.00	.00	.00	.18	.00	.00	.00	.00	.00	.14	.01	---
19	.00	.55	.07	.52	.00	.00	.00	.00	.00	.00	.00	---
20	.00	.00	.00	.24	.00	.97	.00	.00	.00	.00	.00	---
21	.00	.00	.03	.00	.00	.37	.00	.37	.00	.00	.00	---
22	.00	.00	.00	.00	.41	.00	.00	.40	.73	.00	.00	---
23	.00	.00	.00	.00	.00	.00	.00	.01	.00	.02	.00	---
24	.00	.00	.00	.00	.00	.00	.15	.18	.27	.28	.14	---
25	.00	.76	.00	.00	.33	.00	.65	.40	.19	.25	.00	---
26	.00	.00	.00	.00	.00	.00	.00	.11	.00	.04	.00	.00
27	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00	.07	.00
28	.00	.00	.00	.00	.01	.00	.00	.52	.40	.00	.00	.00
29	.00	.00	.00	.00	---	1.81	.00	.10	.01	.01	.08	.00
30	.00	.00	.00	.17	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.10	---	.00	---	.00	.02	---
TOTAL	0.00	2.50	0.78	1.66	2.03	5.21	1.30	2.09	4.18	2.30	1.28	---



LOCATION.--Lat 35°29'21", long 80°47'32", Mecklenburg County, Hydrologic Unit 03040105, Westfork Substation, Shearer Road, Davidson, NC.

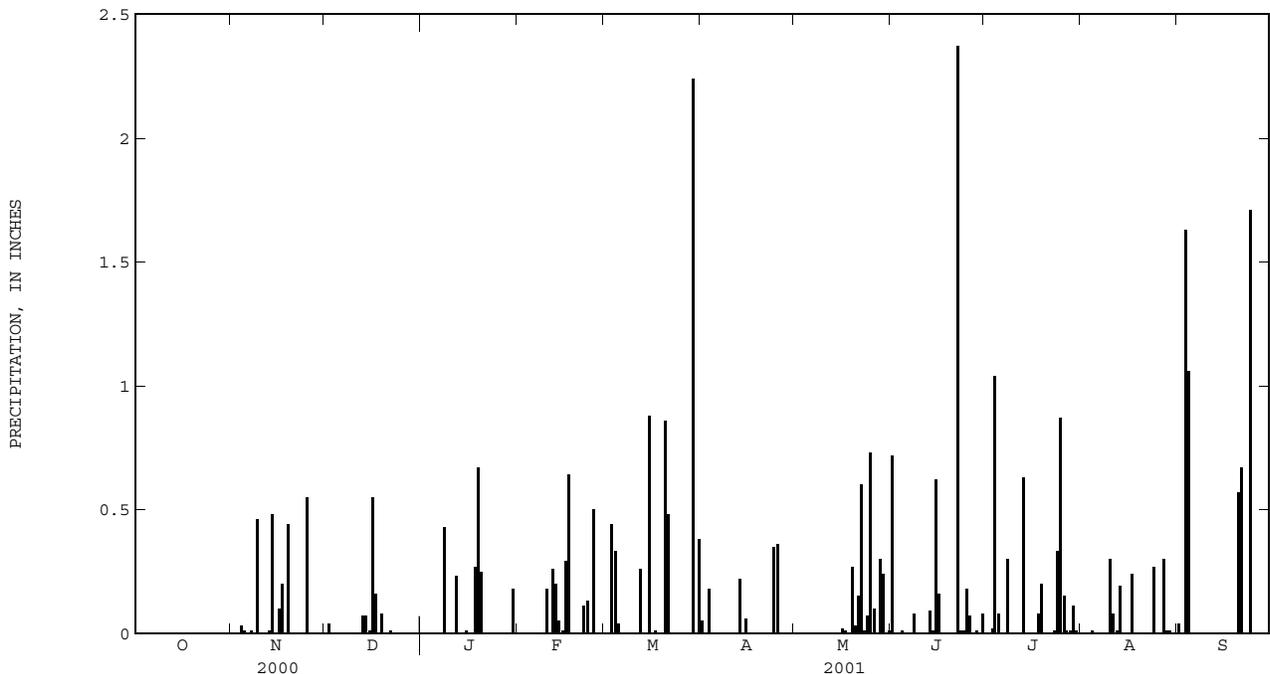
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.05	.00	.72	.00	.00	.04
2	.00	.00	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.44	.18	.00	.00	.02	.00	1.63
4	.00	.03	.00	.00	.00	.33	.00	.00	.01	1.04	.01	1.06
5	.00	.01	.00	.00	.00	.04	.00	.00	.00	.08	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.43	.00	.00	.00	.00	.08	.30	.00	.00
9	.00	.46	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.18	.00	.00	.00	.00	.00	.30	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.00
12	.00	.00	.00	.23	.26	.26	.00	.00	.00	.00	.01	.00
13	.00	.01	.07	.00	.20	.00	.22	.00	.09	.63	.19	.00
14	.00	.48	.07	.00	.05	.00	.00	.00	.01	.00	.00	.00
15	.00	.00	.01	.01	.01	.88	.06	.00	.62	.00	.00	.00
16	.00	.10	.55	.00	.29	.00	.00	.02	.16	.00	.00	.00
17	.00	.20	.16	.00	.64	.01	.00	.01	.00	.00	.24	.00
18	.00	.00	.00	.27	.00	.00	.00	.00	.00	.08	.00	.00
19	.00	.44	.08	.67	.00	.00	.00	.27	.00	.20	.00	.00
20	.00	.00	.00	.25	.00	.86	.00	.03	.00	.00	.00	.57
21	.00	.00	.00	.00	.00	.48	.00	.15	.00	.00	.00	.67
22	.00	.00	.01	.00	.11	.00	.00	.60	2.37	.00	.00	.00
23	.00	.00	.00	.00	.13	.00	.00	.01	.01	.01	.00	.00
24	.00	.00	.00	.00	.00	.00	.35	.07	.01	.33	.27	1.71
25	.00	.55	.00	.00	.50	.00	.36	.73	.18	.87	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.10	.07	.15	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.30	.00
28	.00	.00	.00	.00	.00	.00	.00	.30	.01	.01	.01	.00
29	.00	.00	.00	.00	---	2.24	.00	.24	.00	.11	.01	.00
30	.00	.00	.00	.18	---	.00	.00	.00	.08	.01	.00	.00
31	.00	---	.00	.00	---	.38	---	.01	---	.00	.00	---
TOTAL	0.00	2.29	0.99	2.04	2.37	5.92	1.22	2.54	4.42	3.85	1.42	5.68



350634080405245 CRN39

LOCATION.--Lat 35°06'34", long 80°40'52", Mecklenburg County, Hydrologic Unit 03040105, private residence, Mount Harmony Church Road, Matthews, NC.

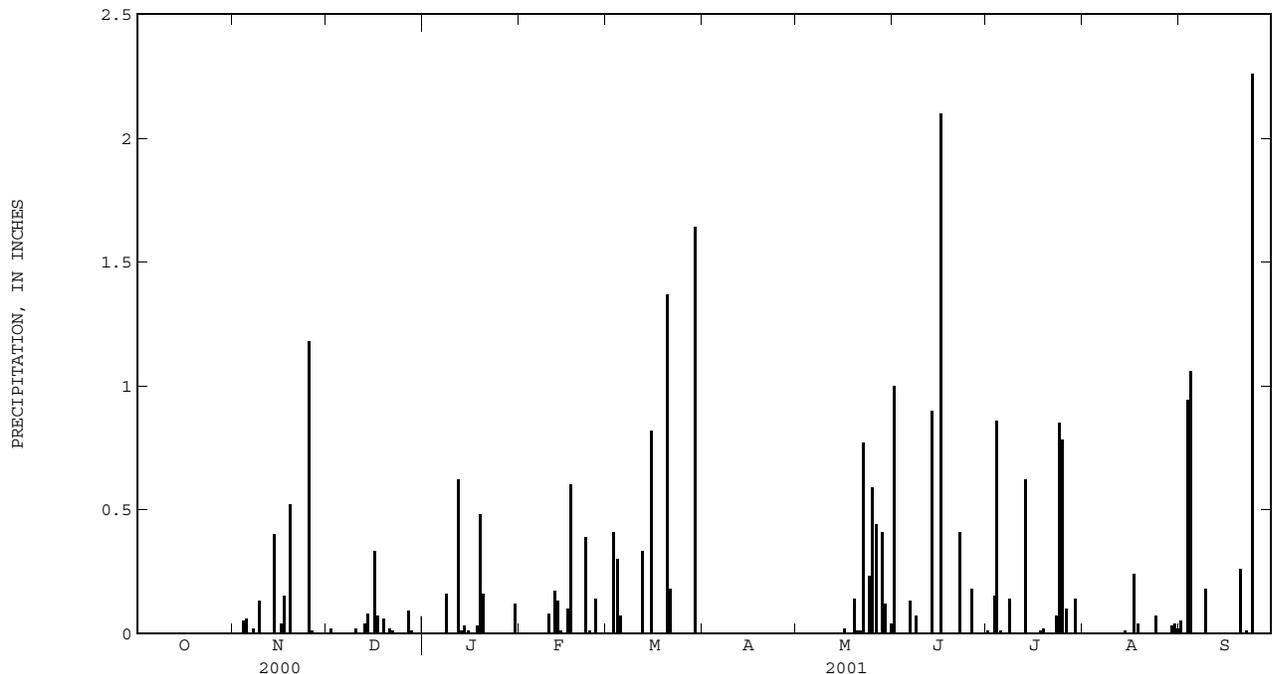
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	---	---	1.00	.01	.00	.05
2	.00	.00	.02	.00	.00	.00	---	---	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.41	---	---	.00	.15	.00	.94
4	.00	.05	.00	.00	.00	.30	---	.00	.00	.86	.00	1.06
5	.00	.06	.00	.00	.00	.07	---	.00	.00	.01	.00	.00
6	.00	.00	.00	.00	.00	.00	---	.00	.13	.00	.00	.00
7	.00	.02	.00	.00	.00	.00	---	.00	.00	.00	.00	.00
8	.00	.00	.00	.16	.00	.00	---	.00	.07	.14	.00	.00
9	.00	.13	.00	.00	.00	.00	---	.00	.00	.00	.00	.18
10	.00	.00	.02	.00	.08	.00	---	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	---	.00	.00	.00	.00	.00
12	.00	.00	.00	.62	.17	.33	---	.00	.00	.00	.00	.00
13	.00	.00	.04	.01	.13	.00	---	.00	.90	.62	.00	.00
14	.00	.40	.08	.03	.01	.00	---	.00	.00	.00	.01	.00
15	.00	.00	.00	.01	.00	.82	---	.00	.00	.00	.00	.00
16	.00	.04	.33	.00	.10	.00	---	.02	2.10	.00	.00	.00
17	.00	.15	.07	.00	.60	.00	---	.00	.00	.00	.24	.00
18	.00	.00	.00	.03	.00	.00	---	.00	.00	.01	.04	.00
19	.00	.52	.06	.48	.00	.00	---	.14	.00	.02	.00	.00
20	.00	.00	.00	.16	.00	1.37	---	.01	.00	.00	.00	.26
21	.00	.00	.02	.00	.00	.18	---	.01	.00	.00	.00	.00
22	.00	.00	.01	.00	.39	.00	---	.77	.41	.00	.00	.01
23	.00	.00	.00	.00	.01	.00	---	.00	.00	.07	.00	.00
24	.00	.00	.00	.00	.00	.00	---	.23	.00	.85	.07	2.26
25	.00	1.18	.00	.00	.14	.00	---	.59	.00	.78	.00	.00
26	.00	.01	.00	.00	.00	.00	---	.44	.18	.10	.00	.00
27	.00	.00	.09	.00	.00	.00	---	.00	.00	.00	.00	.00
28	.00	.00	.01	.00	.00	.00	---	.41	.00	.00	.00	.00
29	.00	.00	.00	.00	---	1.64	---	.12	.00	.14	.03	.00
30	.00	.00	.00	.12	---	.00	---	.00	.00	.00	.04	.00
31	.00	---	.00	.00	---	.00	---	.04	---	.00	.02	---
TOTAL	0.00	2.56	0.75	1.62	1.63	5.12	---	---	4.79	3.76	0.45	4.76



PEE DEE RIVER BASIN

352718080484345 CRN44

LOCATION.--Lat 35°27'18", long 80°48'43", Mecklenburg County, Hydrologic Unit 03040105, private residence, Mayes Road, Huntersville, NC.

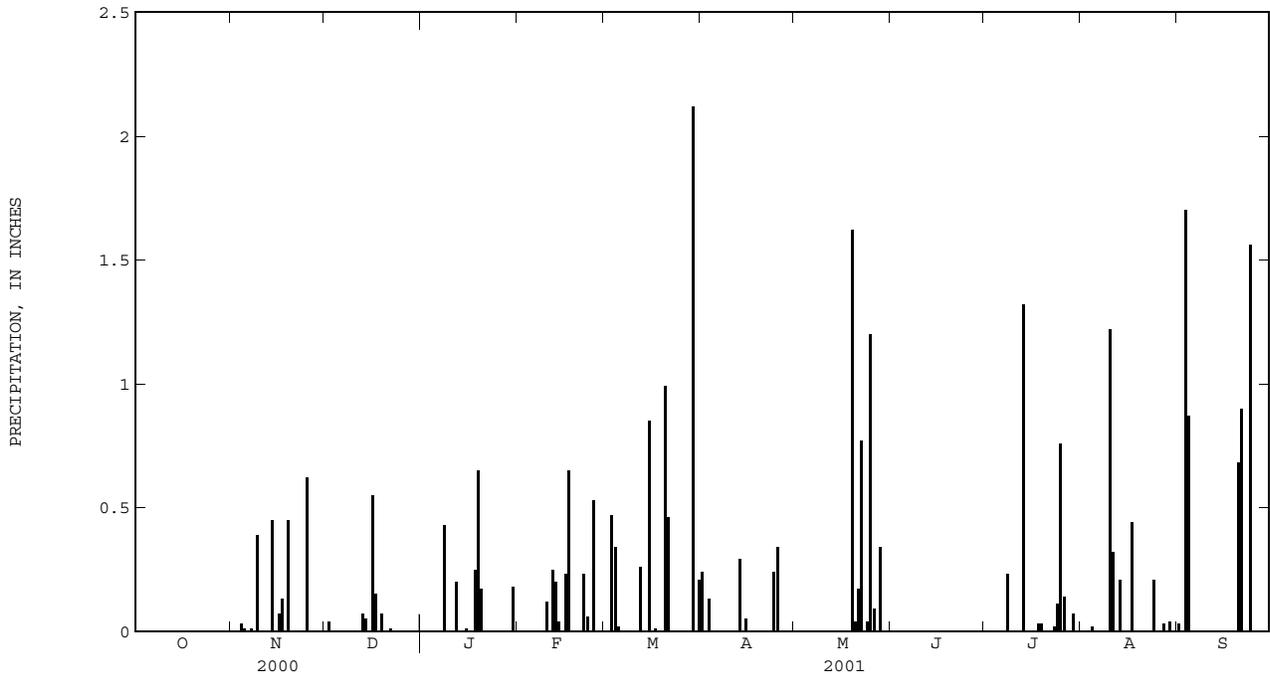
PERIOD OF RECORD.--January 1997 to current year. Records for period January 1997 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.24	.00	---	---	.00	.03
2	.00	.00	.04	.00	.00	.00	.00	.00	---	---	.00	.00
3	.00	.00	.00	.00	.00	.47	.13	.00	---	---	.00	1.70
4	.00	.03	.00	.00	.00	.34	.00	.00	---	---	.02	.87
5	.00	.01	.00	.00	.00	.02	.00	.00	---	---	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	---	---	.00	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	---	.00	.00	.00
8	.00	.00	.00	.43	.00	.00	.00	.00	---	.23	.00	.00
9	.00	.39	.00	.00	.00	.00	.00	.00	---	.00	.00	.00
10	.00	.00	.00	.00	.12	.00	.00	.00	---	.00	1.22	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	---	.00	.32	.00
12	.00	.00	.00	.20	.25	.26	.00	.00	---	.00	.00	.00
13	.00	.00	.07	.00	.20	.00	.29	.00	---	1.32	.21	.00
14	.00	.45	.05	.00	.04	.00	.00	.00	---	.00	.00	.00
15	.00	.00	.00	.01	.00	.85	.05	.00	---	.00	.00	.00
16	.00	.07	.55	.00	.23	.00	.00	.00	---	.00	.00	.00
17	.00	.13	.15	.00	.65	.01	.00	.00	---	.00	.44	.00
18	.00	.00	.00	.25	.00	.00	.00	.00	---	.03	.00	.00
19	.00	.45	.07	.65	.00	.00	.00	1.62	---	.03	.00	.00
20	.00	.00	.00	.17	.00	.99	.00	.04	---	.00	.00	.68
21	.00	.00	.00	.00	.00	.46	.00	.17	---	.00	.00	.90
22	.00	.00	.01	.00	.23	.00	.00	.77	---	.00	.00	.00
23	.00	.00	.00	.00	.06	.00	.00	.00	---	.02	.00	.00
24	.00	.00	.00	.00	.00	.00	.24	.04	---	.11	.21	1.56
25	.00	.62	.00	.00	.53	.00	.34	1.20	---	.76	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.09	---	.14	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	---	.00	.03	.00
28	.00	.00	.00	.00	.00	.00	.00	.34	---	.00	.00	.00
29	.00	.00	.00	.00	---	2.12	.00	---	---	.07	.04	.00
30	.00	.00	.00	.18	---	.00	.00	---	---	.00	.00	.00
31	.00	---	.00	.00	---	.21	---	---	---	.00	.00	---
TOTAL	0.00	2.16	0.94	1.89	2.31	5.73	1.29	---	---	---	2.49	5.74



352135080462045 CRN46

LOCATION.--Lat 35°21'35", long 80°46'20", Mecklenburg County, Hydrologic Unit 03040105, private residence, Johnston-Oehler Road, Charlotte, NC.

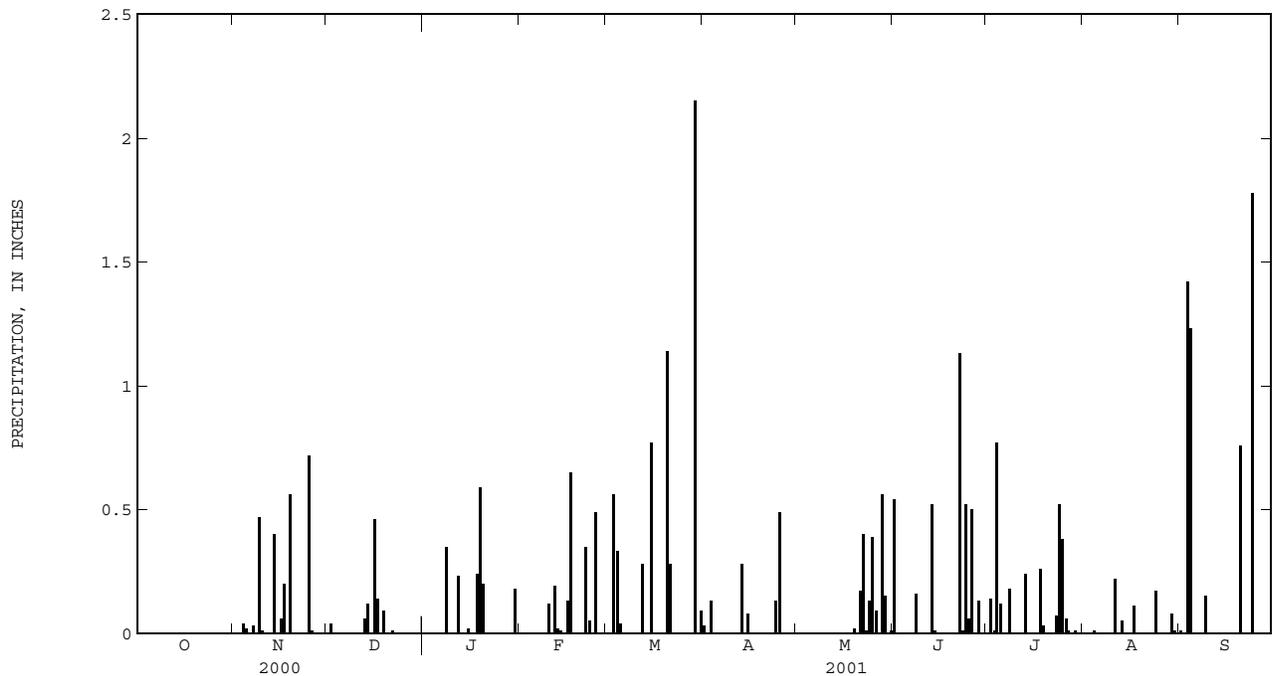
PERIOD OF RECORD.--January 1997 to current year. Records for period January 1997 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.03	.00	.54	.00	.00	.01
2	.00	.00	.04	.00	.00	.00	.00	.00	.00	.14	.00	.00
3	.00	.00	.00	.00	.00	.00	.56	.13	.00	.01	.00	1.42
4	.00	.04	.00	.00	.00	.33	.00	.00	.00	.77	.01	1.23
5	.00	.02	.00	.00	.00	.04	.00	.00	.00	.12	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.35	.00	.00	.00	.00	.16	.18	.00	.00
9	.00	.47	.00	.00	.00	.00	.00	.00	.00	.00	.00	.15
10	.00	.01	.00	.00	.12	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.22	.00
12	.00	.00	.00	.23	.19	.28	.00	.00	.00	.00	.00	.00
13	.00	.00	.06	.00	.02	.00	.28	.00	.52	.24	.05	.00
14	.00	.40	.12	.00	.01	.00	.00	.00	.01	.00	.00	.00
15	.00	.00	.00	.02	.00	.77	.08	.00	.00	.00	.00	.00
16	.00	.06	.46	.00	.13	.00	.00	.00	.00	.00	.00	.00
17	.00	.20	.14	.00	.65	.00	.00	.00	.00	.00	.11	.00
18	.00	.00	.00	.24	.00	.00	.00	.00	.00	.26	.00	.00
19	.00	.56	.09	.59	.00	.00	.00	.02	.00	.03	.00	.00
20	.00	.00	.00	.20	.00	1.14	.00	.00	.00	.00	.00	.76
21	.00	.00	.00	.00	.00	.28	.00	.17	.00	.00	.00	.00
22	.00	.00	.01	.00	.35	.00	.00	.40	1.13	.00	.00	.00
23	.00	.00	.00	.00	.05	.00	.00	.01	.01	.07	.00	.00
24	.00	.00	.00	.00	.00	.00	.13	.13	.52	.52	.17	1.78
25	.00	.72	.00	.00	.49	.00	.49	.39	.06	.38	.00	.00
26	.00	.01	.00	.00	.00	.00	.00	.09	.50	.06	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.56	.13	.00	.00	.00
29	.00	.00	.00	.00	---	2.15	.00	.15	.00	.01	.08	.00
30	.00	.00	.00	.18	---	.00	.00	.00	.00	.00	.01	.00
31	.00	---	.00	.00	---	.09	---	.01	---	.00	.00	---
TOTAL	0.00	2.52	0.92	1.81	2.01	5.64	1.14	1.93	3.58	2.80	0.65	5.35



PEE DEE RIVER BASIN

354822080521501 STATESVILLE - PRECIPITATION

LOCATION.--Lat 35°48'22", long 80°52'15", Iredell County, Hydrologic Unit 03040102, Statesville WWTP, Sunset Hill Road, Statesville, NC.

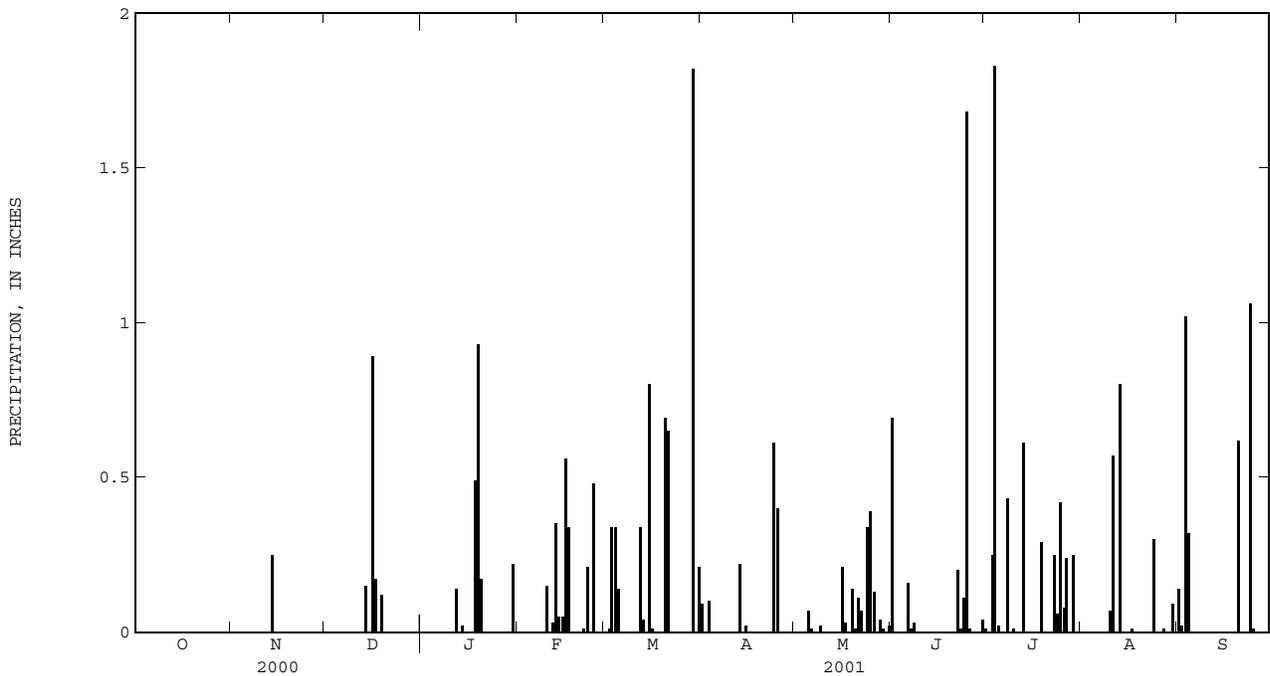
PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	.00	.00	.00	.09	.00	.69	.01	.00	.14
2	.00	.00	---	.00	.00	.01	.00	.00	.00	.00	.00	.02
3	.00	---	---	.00	.00	.34	.10	.00	.00	.25	.00	1.02
4	.00	---	---	.00	.00	.34	.00	.00	.00	1.83	.00	.32
5	.00	---	---	.00	.00	.14	.00	.07	.00	.02	.00	.00
6	.00	---	---	---	.00	.00	.00	.01	.16	.00	.00	.00
7	.00	---	---	---	.00	.00	.00	.00	.01	.00	.00	.00
8	.00	---	---	---	.00	.00	.00	.00	.03	.43	.00	.00
9	.00	---	---	.00	.00	.00	.00	.02	.00	.00	.00	.00
10	.00	---	---	.00	.15	.00	.00	.00	.00	.01	.07	.00
11	.00	---	---	.00	.00	.00	.00	.00	.00	.00	.57	.00
12	.00	---	---	.14	.03	.34	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.35	.04	.22	.00	.00	.61	.80	.00
14	.00	.25	.15	.02	.05	.00	.00	.00	.00	.00	.00	.00
15	.00	---	.00	.00	.05	.80	.02	.00	.00	.00	.00	.00
16	.00	---	.89	.00	.56	.01	---	.21	.00	.00	.00	.00
17	.00	---	.17	.00	.34	.00	---	.03	.00	.00	.01	.00
18	.00	---	.00	.49	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	---	.12	.93	.00	.00	.00	.14	.00	.29	.00	.00
20	.00	---	.00	.17	.00	.69	.00	.01	.00	.00	.00	.62
21	.00	---	.00	.00	.00	.65	.00	.11	.00	.00	.00	.00
22	.00	---	.00	.00	.01	.00	.00	.07	.20	.00	.00	.00
23	.00	---	.00	.00	.21	.00	.00	.00	.01	.25	.00	.00
24	.00	---	.00	.00	.00	.00	.61	.34	.11	.06	.30	1.06
25	---	---	.00	.00	.48	.00	.40	.39	1.68	.42	.00	.01
26	---	---	---	.00	.00	.00	.00	.13	.01	.08	.00	.00
27	---	---	---	.00	.00	.00	.00	.00	.00	.24	.01	.00
28	---	---	---	.00	.00	.00	.00	.04	.00	.00	.00	.00
29	.00	---	.00	.00	---	1.82	.00	.01	.00	.25	.00	.00
30	.00	---	.00	.22	---	.00	.00	.00	.04	.00	.09	.00
31	.00	---	.00	.00	---	.21	---	.02	---	.00	.00	---
TOTAL	---	---	---	---	2.23	5.39	---	1.60	2.94	4.75	1.85	3.19



354057080362601 NC-193

LOCATION.--Lat 35°40'57", long 80°36'26", Rowan County, Hydrologic Unit 03040102, 0.75 mi south of Secondary Road 1526 on Piedmont Research Station road, 2.75 mi south of Barber.

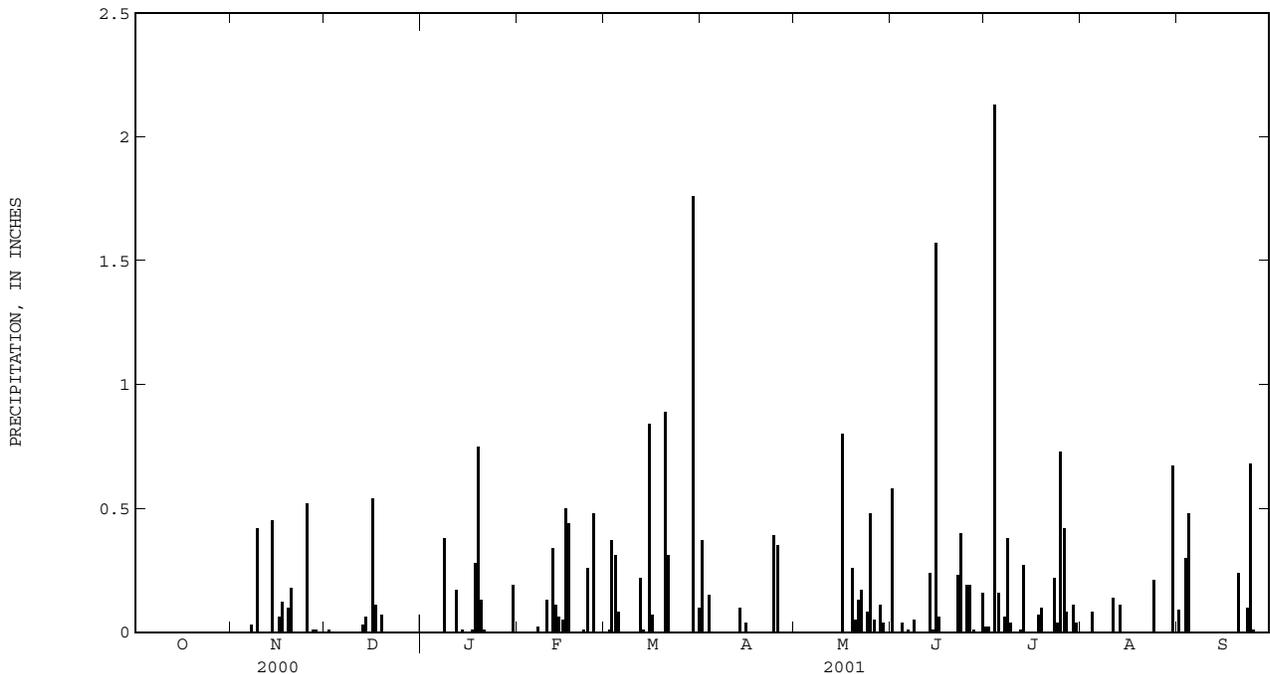
PERIOD OF RECORD.--April 1996 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at site.

REMARKS.--Gage is operated as part of climatic-effects network. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.37	.00	.58	.02	.00	.09
2	.00	.00	.01	.00	.00	.01	.00	.00	.00	.02	.00	.00
3	.00	.00	.00	.00	.00	.37	.15	.00	.00	.00	.00	.30
4	.00	.00	.00	.00	.00	.31	.00	.00	.04	2.13	.08	.48
5	.00	.00	.00	.00	.00	.08	.00	.00	.00	.16	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
7	.00	.03	.00	.00	.02	.00	.00	.00	.00	.06	.00	.00
8	.00	.00	.00	.38	.00	.00	.00	.00	.05	.38	.00	.00
9	.00	.42	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00
10	.00	.00	.00	.00	.13	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.00
12	.00	.00	.00	.17	.34	.22	.00	.00	.00	.01	.00	.00
13	.00	.00	.03	.00	.11	.01	.10	.00	.24	.27	.11	.00
14	.00	.45	.06	.01	.06	.00	.00	.00	.01	.00	.00	.00
15	.00	.00	.00	.00	.05	.84	.04	.00	1.57	.00	.00	.00
16	.00	.06	.54	.00	.50	.07	.00	.80	.06	.00	.00	.00
17	.00	.12	.11	.01	.44	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.28	.00	.00	.00	.00	.00	.07	.00	.00
19	.00	.10	.07	.75	.00	.00	.00	.26	.00	.10	.00	.00
20	.00	.18	.00	.13	.00	.89	.00	.05	.00	.00	.00	.24
21	.00	.00	.00	.01	.00	.31	.00	.13	.00	.00	.00	.00
22	.00	.00	.00	.00	.01	.00	.00	.17	.23	.00	.00	.00
23	.00	.00	.00	.00	.26	.00	.00	.00	.40	.22	.00	.10
24	.00	.00	.00	.00	.00	.00	.39	.08	.00	.04	.21	.68
25	.00	.52	.00	.00	.48	.00	.35	.48	.19	.73	.00	.01
26	.00	.00	.00	.00	.00	.00	.00	.05	.19	.42	.00	.00
27	.00	.01	.00	.00	.00	.00	.00	.00	.01	.08	.00	.00
28	.00	.01	.00	.00	.00	.00	.00	.11	.00	.00	.00	.00
29	.00	.00	.00	.00	---	1.76	.00	.04	.00	.11	.00	.00
30	.00	.00	.00	.19	---	.00	.00	.00	.16	.04	.67	.00
31	.00	---	.00	.00	---	.10	---	.00	---	.00	.00	---
TOTAL	0.00	1.90	0.82	1.93	2.40	4.97	1.40	2.17	3.74	4.90	1.21	1.90



## SANTEE RIVER BASIN

02137727 CATAWBA RIVER NEAR PLEASANT GARDENS, NC

LOCATION.--Lat 35°41'09", long 82°03'40", McDowell County, Hydrologic Unit 03050101, on right bank 18 ft downstream of bridge on Secondary Road 1221, 0.8 mi upstream from Buck Creek, 0.8 mi southeast of Pleasant Gardens, and at mile 297.

DRAINAGE AREA.--126 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1963, 1970-73, 1975. October 1980 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,230 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Minimum discharge for current water year, result of freezeup.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	53	73	e74	97	131	335	91	82	88	164	54
2	56	54	71	e74	94	122	272	91	94	61	157	55
3	55	54	72	e73	90	119	246	86	69	69	173	502
4	53	56	69	e71	89	151	224	82	63	74	181	265
5	52	66	68	e70	88	141	203	82	71	101	157	152
6	52	58	67	e70	86	126	189	81	64	66	128	110
7	51	58	66	69	84	120	178	79	62	55	107	94
8	48	61	66	80	83	116	167	77	62	55	97	83
9	47	141	64	75	82	112	159	85	66	62	87	77
10	49	197	64	e70	92	108	152	83	58	56	84	83
11	51	83	63	e70	84	105	145	76	55	51	93	87
12	50	68	63	73	91	108	140	74	53	45	102	72
13	50	63	62	74	94	137	154	71	51	48	93	68
14	49	60	78	71	121	113	142	68	50	44	87	65
15	49	56	83	71	108	196	139	67	78	39	76	70
16	48	56	117	70	104	212	139	63	79	37	70	60
17	49	60	359	68	129	174	126	64	54	39	70	58
18	49	55	162	86	111	154	123	66	47	45	83	56
19	49	56	130	339	106	140	121	70	44	54	64	57
20	50	59	e106	361	103	192	121	99	42	277	60	123
21	53	56	e87	190	100	698	111	77	42	117	54	84
22	54	55	e84	149	104	543	108	73	53	76	52	67
23	55	56	e83	129	102	499	106	74	72	61	50	63
24	56	57	e81	118	103	395	103	65	50	65	56	126
25	56	206	e80	109	204	329	110	94	46	215	53	106
26	60	175	e78	102	211	266	102	94	153	303	49	77
27	58	106	80	99	164	223	98	72	110	143	54	69
28	55	90	81	94	146	195	95	68	70	129	49	64
29	55	82	77	93	---	549	92	69	59	180	46	61
30	54	77	e77	116	---	810	90	62	55	206	58	58
31	54	---	e75	106	---	431	---	58	---	139	60	---
TOTAL	1623	2374	2786	3314	3070	7715	4490	2361	1954	3000	2714	2966
MEAN	52.4	79.1	89.9	107	110	249	150	76.2	65.1	96.8	87.5	98.9
MAX	60	206	359	361	211	810	335	99	153	303	181	502
MIN	47	53	62	68	82	105	90	58	42	37	46	54
CFSM	.41	.62	.71	.84	.86	1.96	1.18	.60	.51	.76	.69	.78
IN.	.48	.70	.82	.97	.90	2.26	1.32	.69	.57	.88	.79	.87

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2001, BY WATER YEAR (WY)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	
MEAN	186	207	224	281	334	348	315	240	202	160	191	160										
MAX	550	606	573	620	739	622	688	444	652	339	513	435										
(WY)	1996	1986	1984	1995	1998	1990	1983	1984	1992	1991	1995	1989										
MIN	52.4	69.0	77.6	107	110	130	138	76.2	65.1	57.9	50.5	43.3										
(WY)	2001	1982	1989	1981	2001	1988	1986	2001	2001	1988	1988	1999										

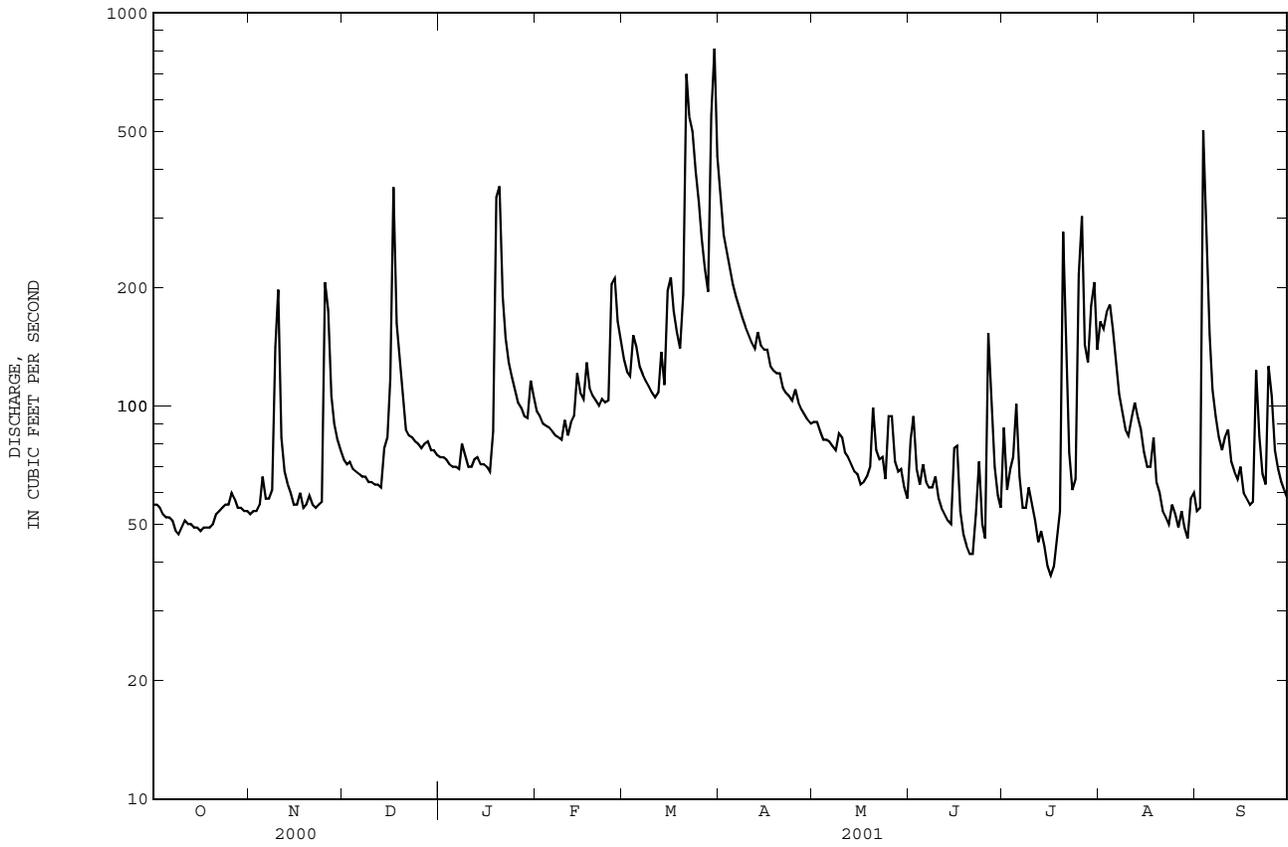
## SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1981 - 2001

ANNUAL TOTAL	48140	38367	
ANNUAL MEAN	132	105	237
HIGHEST ANNUAL MEAN			351
LOWEST ANNUAL MEAN			105
HIGHEST DAILY MEAN	1860	Mar 20	810
LOWEST DAILY MEAN	47	Oct 9	37
ANNUAL SEVEN-DAY MINIMUM	49	Oct 13	42
MAXIMUM PEAK FLOW			1880
MAXIMUM PEAK STAGE			5.41
INSTANTANEOUS LOW FLOW			35*
ANNUAL RUNOFF (CFSM)	1.04		.83
ANNUAL RUNOFF (INCHES)	14.10		11.24
10 PERCENT EXCEEDS	230		179
50 PERCENT EXCEEDS	101		78
90 PERCENT EXCEEDS	55		52

e Estimated.

\* See REMARKS.

02137727 CATAWBA RIVER NEAR PLEASANT GARDENS, NC--Continued



SANTEE RIVER BASIN

02137727 CATAWBA RIVER NEAR PLEASANT GARDENS, NC--Continued

PRECIPITATION RECORDS

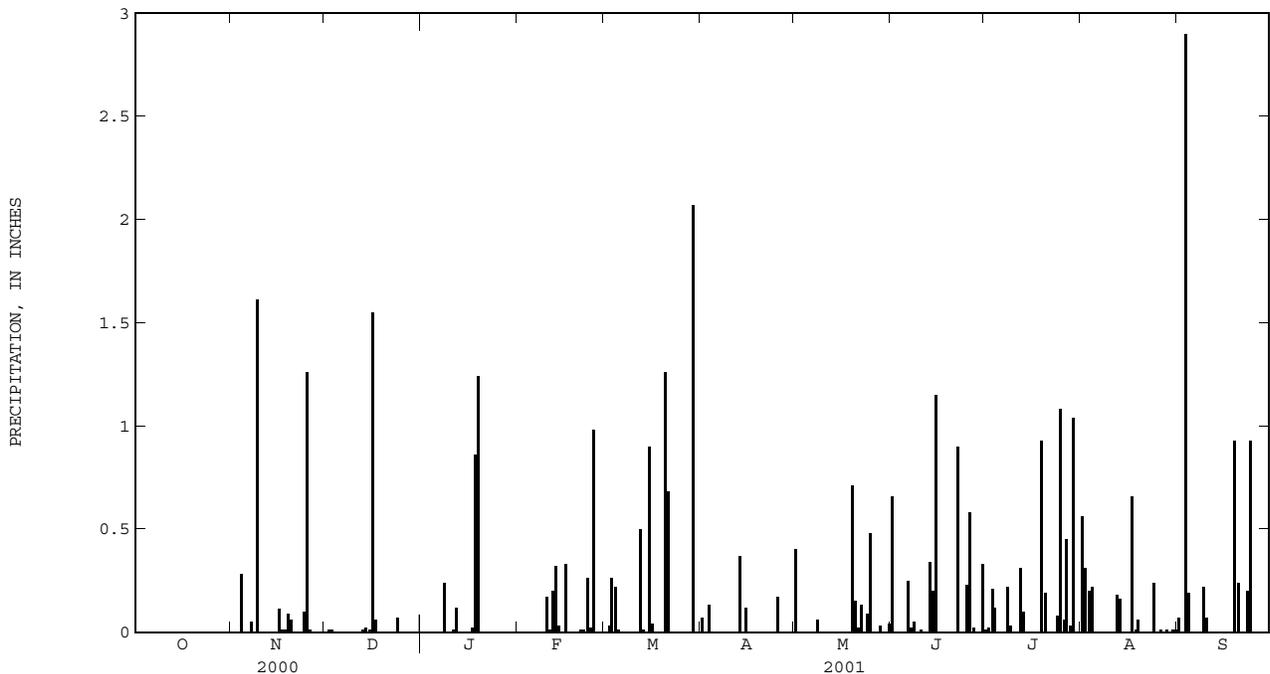
PERIOD OF RECORD.--November 2000 to September 2001.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at site.

REMARKS.--Gage is operated in cooperation with Duke Energy and the North Carolina Department of Environment and Natural Resources. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	.00	.00	.00	.00	.07	.40	.66	.01	.56	.07
2	---	---	.01	.00	.00	.03	.00	.00	.00	.02	.31	.00
3	---	---	.01	.00	.00	.26	.13	.00	.00	.21	.20	2.90
4	---	.28	.00	.00	.00	.22	.00	.00	.00	.12	.22	.19
5	---	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00
6	---	.00	.00	.00	.00	.00	.00	.00	.25	.00	.00	.00
7	---	.05	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00
8	---	.00	.00	.24	.00	.00	.00	.06	.05	.22	.00	.00
9	---	1.61	.00	.00	.00	.00	.00	.00	.00	.03	.00	.22
10	---	.00	.00	.00	.17	.00	.00	.00	.01	.00	.00	.07
11	---	.00	.00	.01	.01	.00	.00	.00	.00	.00	.00	.00
12	---	.00	.00	.12	.20	.50	.00	.00	.00	.31	.18	.00
13	---	.00	.01	.00	.32	.01	.37	.00	.34	.10	.16	.00
14	---	.00	.02	.00	.03	.00	.00	.00	.20	.00	.00	.00
15	---	.00	.01	.00	.00	.90	.12	.00	1.15	.00	.00	.00
16	---	.11	1.55	.00	.33	.04	.00	.00	.00	.00	.00	.00
17	---	.01	.06	.02	.00	.00	.00	.00	.00	.00	.66	.00
18	---	.01	.00	.86	.00	.00	.00	.00	.00	.00	.01	.00
19	---	.09	.00	1.24	.00	.00	.00	.71	.00	.93	.06	.93
20	---	.06	.00	.00	.00	1.26	.00	.15	.00	.19	.00	.24
21	---	.00	.00	.00	.01	.68	.00	.02	.00	.00	.00	.00
22	---	.00	.00	.00	.01	.00	.00	.13	.90	.00	.00	.00
23	---	.00	.00	.00	.26	.00	.00	.00	.00	.00	.00	.20
24	---	.10	.07	.00	.02	.00	.00	.09	.00	.08	.24	.93
25	---	1.26	.00	.00	.98	.00	.17	.48	.23	1.08	.00	.00
26	---	.01	.00	.00	.00	.00	.00	.00	.58	.06	.01	.00
27	---	.00	.00	.00	.00	.00	.00	.00	.02	.45	.00	.00
28	---	.00	.00	.00	.00	.00	.00	.03	.00	.03	.01	.00
29	---	.00	.00	---	---	2.07	.00	.00	.00	1.04	.00	.00
30	---	.00	.00	---	---	.00	.00	.00	.33	.00	.01	.00
31	---	---	.00	.00	---	.00	---	.04	---	.00	.01	---
TOTAL	---	---	1.74	---	2.34	5.98	0.86	2.11	4.74	4.88	2.64	5.75





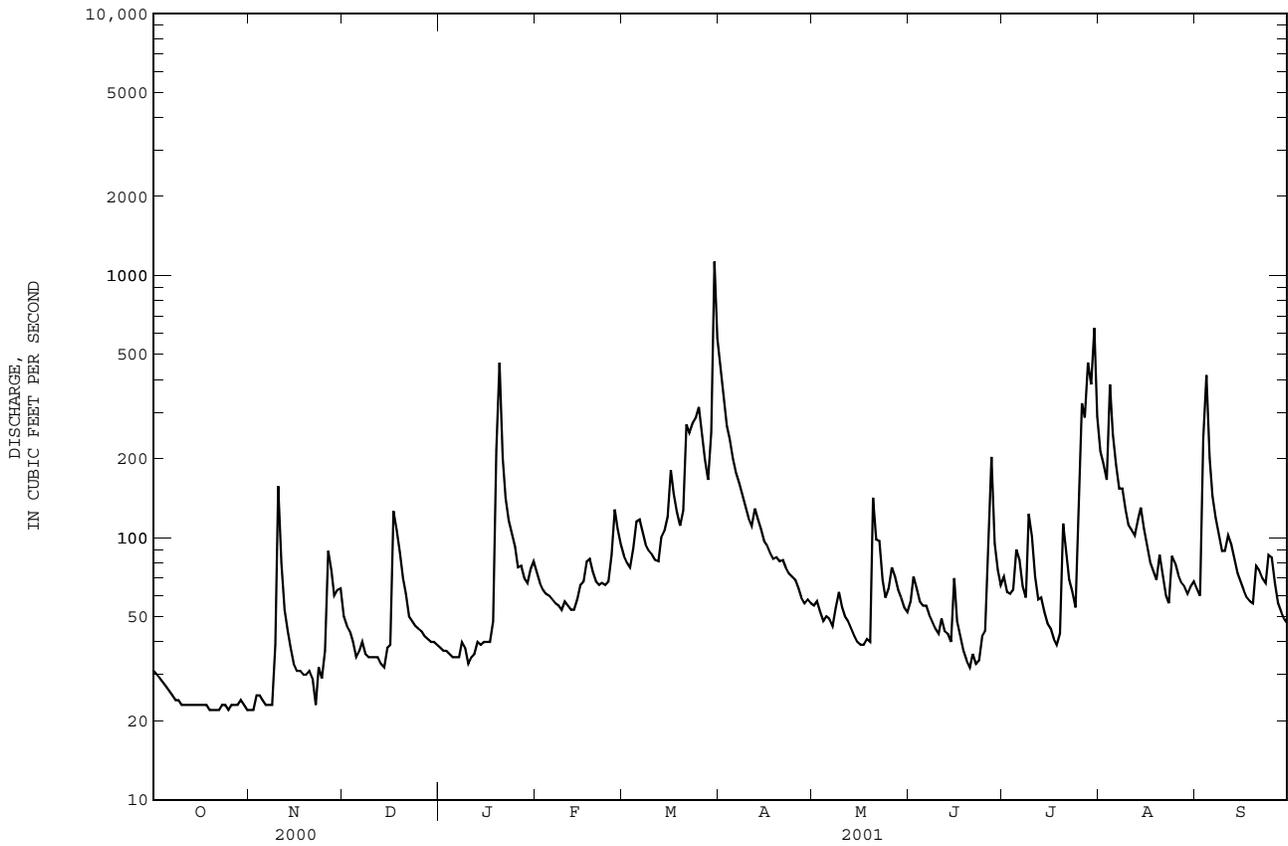
Gaging station at Long Creek near Paw Creek, North Carolina.



02138500 LINVILLE RIVER NEAR NEBO, NC--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1922 - 2001	
ANNUAL TOTAL	31767		32131		150	
ANNUAL MEAN	86.8		88.0		246	
HIGHEST ANNUAL MEAN					1979	
LOWEST ANNUAL MEAN					77.6	
HIGHEST DAILY MEAN	1640	Mar 20	1130	Mar 30	14000	Aug 13 1940
LOWEST DAILY MEAN	22	Oct 19	22	Oct 19	8.0	Sep 7 1925
ANNUAL SEVEN-DAY MINIMUM	22	Oct 19	22	Oct 19	10	Aug 22 1925
MAXIMUM PEAK FLOW			1830	Mar 30	39500*	Aug 13 1940
MAXIMUM PEAK STAGE			3.53	Mar 30	11.40	Aug 13 1940
INSTANTANEOUS LOW FLOW			18*	Nov 22	2.0*	Jan 9 1956
ANNUAL RUNOFF (CFSM)	1.30		1.32		2.25	
ANNUAL RUNOFF (INCHES)	17.72		17.92		30.53	
10 PERCENT EXCEEDS	157		166		266	
50 PERCENT EXCEEDS	55		62		98	
90 PERCENT EXCEEDS	26		28		38	

e Estimated.  
 \* See REMARKS.



## SANTEE RIVER BASIN

0213903612 CATAWBA RIVER AT CALVIN, NC

LOCATION.--Lat 35°44'23", long 81°43'44", Burke County, Hydrologic Unit 03050101, on right bank at City of Morganton's water intake, 0.5 mi upstream from Canoe Creek, and 0.5 mi north of Calvin.

DRAINAGE AREA.--508 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1991 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,002.40 ft above sea level (levels by City of Morganton). Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. City of Morganton diverted about 14.7 ft<sup>3</sup>/s from Catawba River for municipal water supply. Considerable regulation, at times, caused by Lake James (station 02138519), 6.5 mi upstream. Maximum discharge for period of record computed on basis of releases from Lake James. Minimum discharge for period of record and current water year affected by regulation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	240	231	350	256	228	421	460	358	409	242	653	278
2	244	258	262	493	256	438	1100	313	338	335	1050	205
3	250	244	229	469	221	283	721	353	328	422	984	329
4	232	263	350	392	311	323	657	335	398	391	386	690
5	208	261	348	370	387	475	656	258	388	614	786	584
6	188	266	322	284	277	450	833	230	379	398	1370	554
7	481	271	333	254	229	327	492	324	398	265	1220	451
8	207	261	356	269	262	326	807	283	392	251	504	357
9	267	276	246	832	907	414	1030	231	320	341	820	344
10	242	432	224	398	486	351	381	223	299	348	896	423
11	224	278	331	399	354	296	840	514	354	323	1020	124
12	218	281	287	272	927	357	933	220	345	314	917	322
13	244	273	301	272	884	432	773	224	399	343	430	355
14	211	261	313	226	889	370	600	306	364	258	123	611
15	204	327	336	254	879	479	565	301	366	202	354	327
16	242	291	248	370	912	536	1010	329	298	403	268	316
17	247	272	470	429	462	377	1050	295	276	112	926	519
18	233	393	451	296	425	335	1020	322	364	279	218	561
19	186	191	471	493	481	344	477	328	382	894	191	541
20	212	328	594	503	850	347	672	231	396	567	273	649
21	214	320	436	379	821	741	419	316	324	262	285	590
22	243	337	409	580	808	611	411	400	335	247	559	353
23	241	244	326	456	513	537	551	402	291	310	564	338
24	353	269	250	456	278	501	453	409	237	308	240	687
25	340	286	253	276	539	404	501	411	336	339	247	481
26	234	320	355	339	482	469	488	341	453	363	217	416
27	220	343	424	225	374	399	480	327	468	267	427	405
28	202	341	389	220	334	472	362	325	379	454	452	387
29	197	337	479	310	---	719	393	393	370	841	562	256
30	245	351	256	268	---	1250	329	386	256	572	311	202
31	253	---	238	275	---	667	---	417	---	500	298	---
TOTAL	7522	8806	10637	11315	14776	14451	19464	10105	10642	11765	17551	12655
MEAN	243	294	343	365	528	466	649	326	355	380	566	422
MAX	481	432	594	832	927	1250	1100	514	468	894	1370	690
MIN	186	191	224	220	221	283	329	220	237	112	123	124
†	-77	0	0	+57	-106	+444	-32	-21	-52	+102	-201	-41

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2001, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	
MEAN	612	645	799	1272	1273	1222	1059	827	802	592	786	579
MAX	1943	1615	1700	2438	2659	2093	1855	1597	2103	785	2078	1146
(WY)	1996	1993	1993	1995	1998	1993	1993	1993	1992	1995	1994	1995
MIN	228	294	298	365	528	409	437	326	355	380	364	301
(WY)	1994	2001	1999	2001	2001	1999	1999	2001	2001	2001	1997	1999

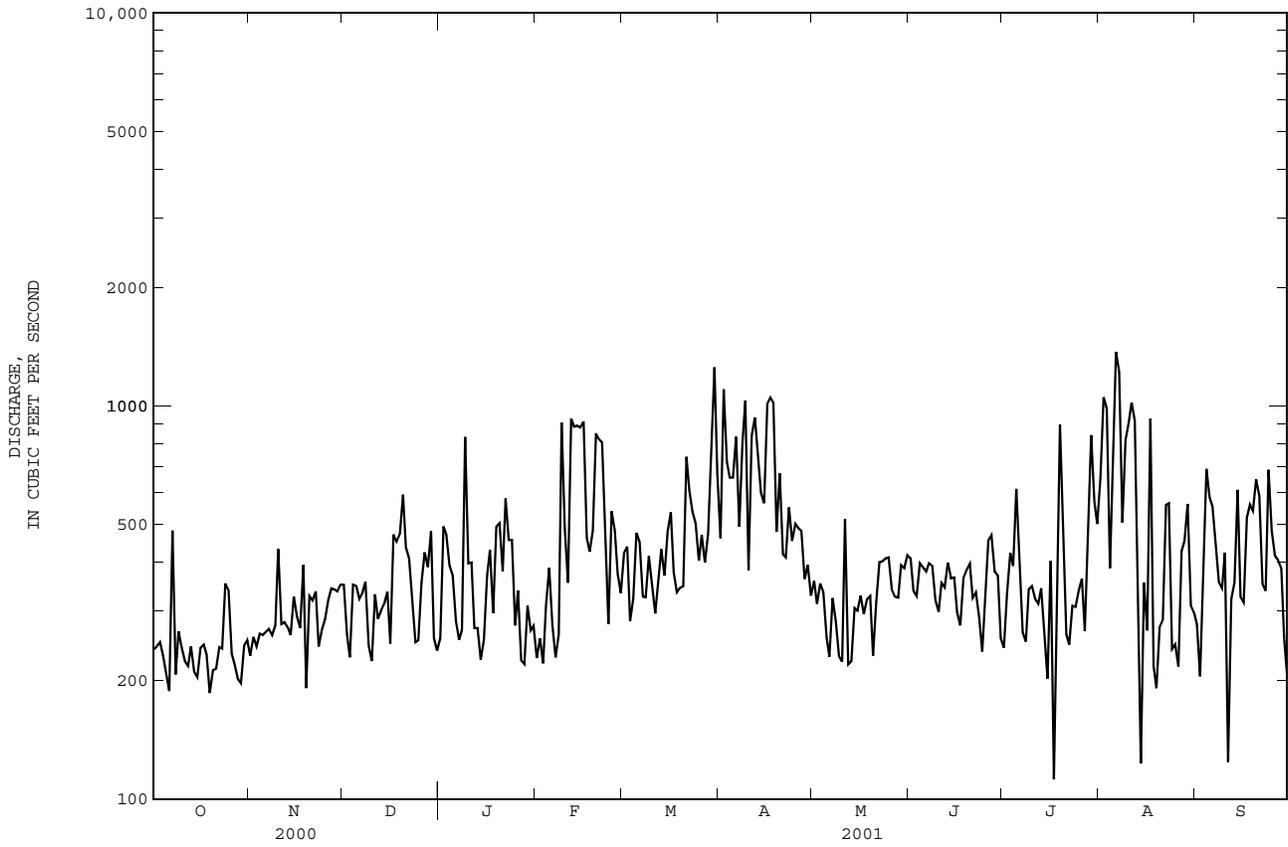
SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1991 - 2001	
ANNUAL TOTAL	201784		149689			
ANNUAL MEAN	551		410		868 (UNADJUSTED)	
HIGHEST ANNUAL MEAN					1230	
LOWEST ANNUAL MEAN					410	
HIGHEST DAILY MEAN	1920	Apr 4	1370	Aug 6	12300	Aug 18 1994
LOWEST DAILY MEAN	186	Oct 19	112	Jul 17	86	Oct 12 1993
ANNUAL SEVEN-DAY MINIMUM	219	Oct 14	219	Oct 14	112	Oct 10 1993
MAXIMUM PEAK FLOW			2930		12300*	
MAXIMUM PEAK STAGE			4.43		16.40	
INSTANTANEOUS LOW FLOW			11*		11*	
10 PERCENT EXCEEDS	1020		702		1750	
50 PERCENT EXCEEDS	433		348		625	
90 PERCENT EXCEEDS	244		231		272	

† Change in contents, equivalent in cubic feet per second, in Lake James, provided by Duke Power Company.

‡ Adjusted for change in contents.

\* See REMARKS.

0213903612 CATAWBA RIVER AT CALVIN, NC--Continued



## SANTÉE RIVER BASIN

02140991 JOHNS RIVER AT ARNEYS STORE, NC

LOCATION.--Lat 35°50'01", long 81°42'43", Burke County, Hydrologic Unit 03050101, on right bank 12 ft downstream of bridge on Secondary Road 1438, 0.2 mi downstream of Sims Branch, and 0.8 mi northeast of Arneys Store.

DRAINAGE AREA.--201 mi<sup>2</sup>.

PERIOD OF RECORD.--Occasional discharge measurements, water years 1974-84. May 1985 to current year.

REVISED RECORDS.--WDR NC-87-1: 1985-86 (P).

GAGE.--Water-stage recorder. Datum of gage is 1,001.74 ft above sea level. Satellite and telephone telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record from rating curve extended above 11,000 ft<sup>3</sup>/s on basis of slope-area measurement; maximum gage height from high-water mark in gage house. Minimum discharge for period of record also occurred Aug. 20, 1988.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	84	105	e113	146	157	582	129	e120	139	337	101
2	86	84	104	e110	137	147	480	133	176	139	362	108
3	84	82	102	e107	130	143	418	126	134	204	289	384
4	e82	82	100	e104	125	188	381	119	113	192	300	553
5	e80	86	97	e102	125	221	341	118	110	277	e260	277
6	e78	85	96	102	122	202	315	118	e107	195	e230	198
7	76	86	96	e102	119	181	297	114	104	150	187	168
8	72	89	94	113	117	169	276	109	100	140	167	148
9	71	144	94	130	116	165	256	119	98	279	150	136
10	73	551	94	114	121	156	239	116	92	202	139	145
11	75	179	94	e107	117	150	226	107	141	162	179	177
12	77	104	94	108	116	147	218	113	98	135	424	136
13	74	84	93	108	116	209	248	109	87	126	240	122
14	72	82	104	102	125	188	229	97	148	120	232	117
15	71	89	131	102	130	226	205	93	134	109	212	112
16	71	89	131	102	128	358	202	91	136	102	160	105
17	71	91	525	100	145	289	188	92	100	e94	139	100
18	72	93	281	122	142	245	187	109	84	e90	131	97
19	73	94	199	497	123	218	183	103	77	99	122	98
20	77	94	e176	729	118	237	177	339	e72	e240	169	149
21	79	94	e161	357	116	982	177	170	81	e170	127	138
22	e79	94	e147	253	121	706	169	141	78	e120	107	110
23	e83	98	e144	210	125	520	162	e145	279	104	102	100
24	e83	100	e134	187	135	416	160	e125	122	96	118	142
25	e80	116	e128	171	194	365	158	135	93	e220	114	175
26	83	238	e125	155	284	308	149	160	275	601	97	118
27	89	155	e119	149	197	271	144	150	447	391	100	105
28	87	130	e116	139	172	244	139	131	224	640	109	97
29	89	121	e116	137	---	440	132	125	232	e500	94	92
30	88	113	e116	162	---	1530	130	114	151	e660	93	88
31	88	---	e113	175	---	750	---	e110	---	426	104	---
TOTAL	2452	3631	4229	5269	3862	10528	7168	3960	4213	7122	5594	4596
MEAN	79.1	121	136	170	138	340	239	128	140	230	180	153
MAX	89	551	525	729	284	1530	582	339	447	660	424	553
MIN	71	82	93	100	116	143	130	91	72	90	93	88
CFSM	.39	.60	.68	.85	.69	1.69	1.19	.64	.70	1.14	.90	.76
IN.	.45	.67	.78	.98	.71	1.95	1.33	.73	.78	1.32	1.04	.85

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2001, BY WATER YEAR (WY)

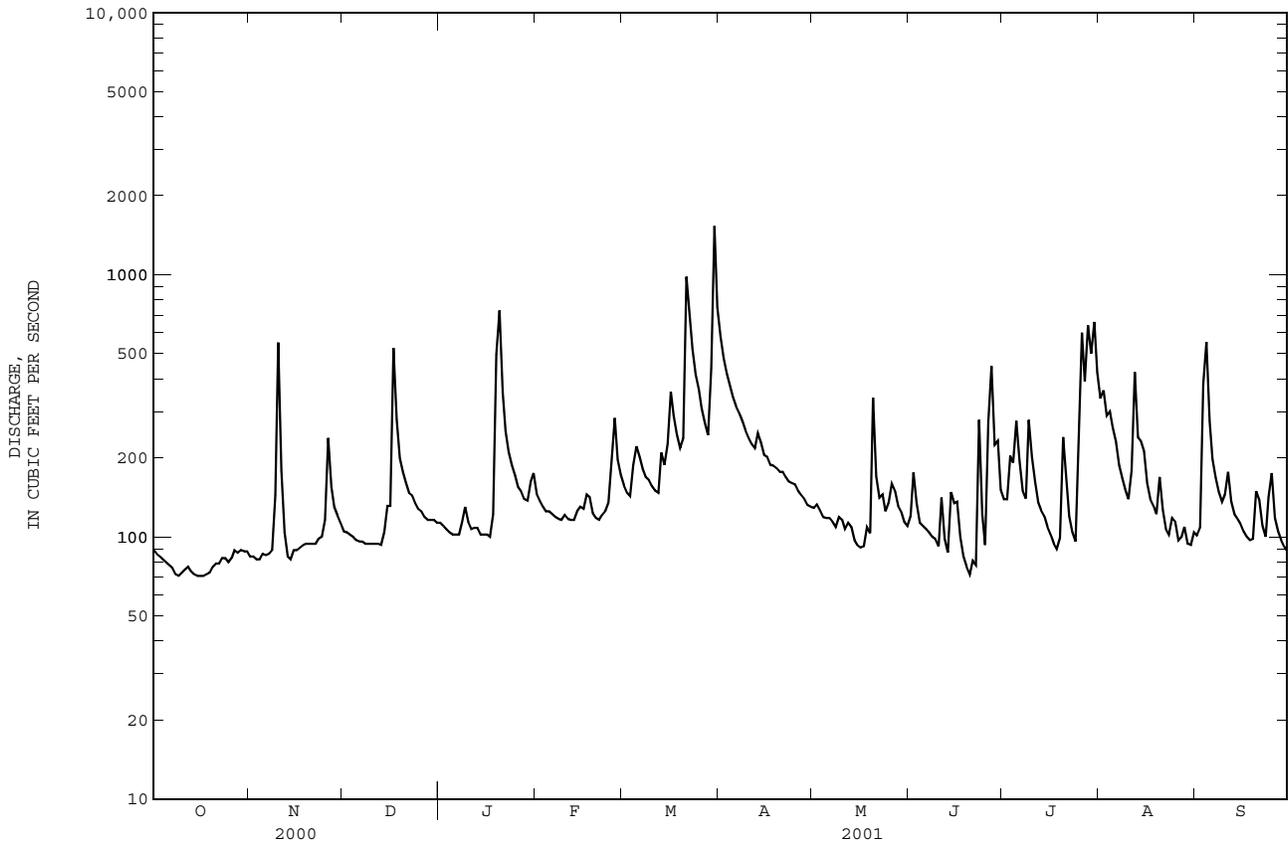
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	268	323	308	448	416	552	461	344	319	240	293	223					
MAX	890	938	602	1388	838	1151	883	595	963	570	1070	808					
(WY)	1991	1993	1997	1995	1990	1993	1987	1993	1992	1989	1994	1989					
MIN	79.1	108	113	170	138	179	206	128	96.9	75.5	65.5	88.7					
(WY)	2001	1999	1989	2001	2001	1988	1986	2001	1988	1988	1988	1999					

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1985 - 2001	
ANNUAL TOTAL	73217		62624			
ANNUAL MEAN	200		172		350	
HIGHEST ANNUAL MEAN					502	
LOWEST ANNUAL MEAN					169	
HIGHEST DAILY MEAN	1570	Mar 20	1530	Mar 30	16100	Jan 15 1995
LOWEST DAILY MEAN	58	Jul 22	71	Oct 9	35	Aug 19 1988
ANNUAL SEVEN-DAY MINIMUM	68	Jul 16	72	Oct 13	45	Aug 14 1988
MAXIMUM PEAK FLOW			2520		42300*	
MAXIMUM PEAK STAGE			6.04		25.23*	
INSTANTANEOUS LOW FLOW			68		33*	
ANNUAL RUNOFF (CFSM)	1.00		.85		1.74	
ANNUAL RUNOFF (INCHES)	13.55		11.59		23.66	
10 PERCENT EXCEEDS	380		292		605	
50 PERCENT EXCEEDS	156		126		246	
90 PERCENT EXCEEDS	83		86		104	

e Estimated.

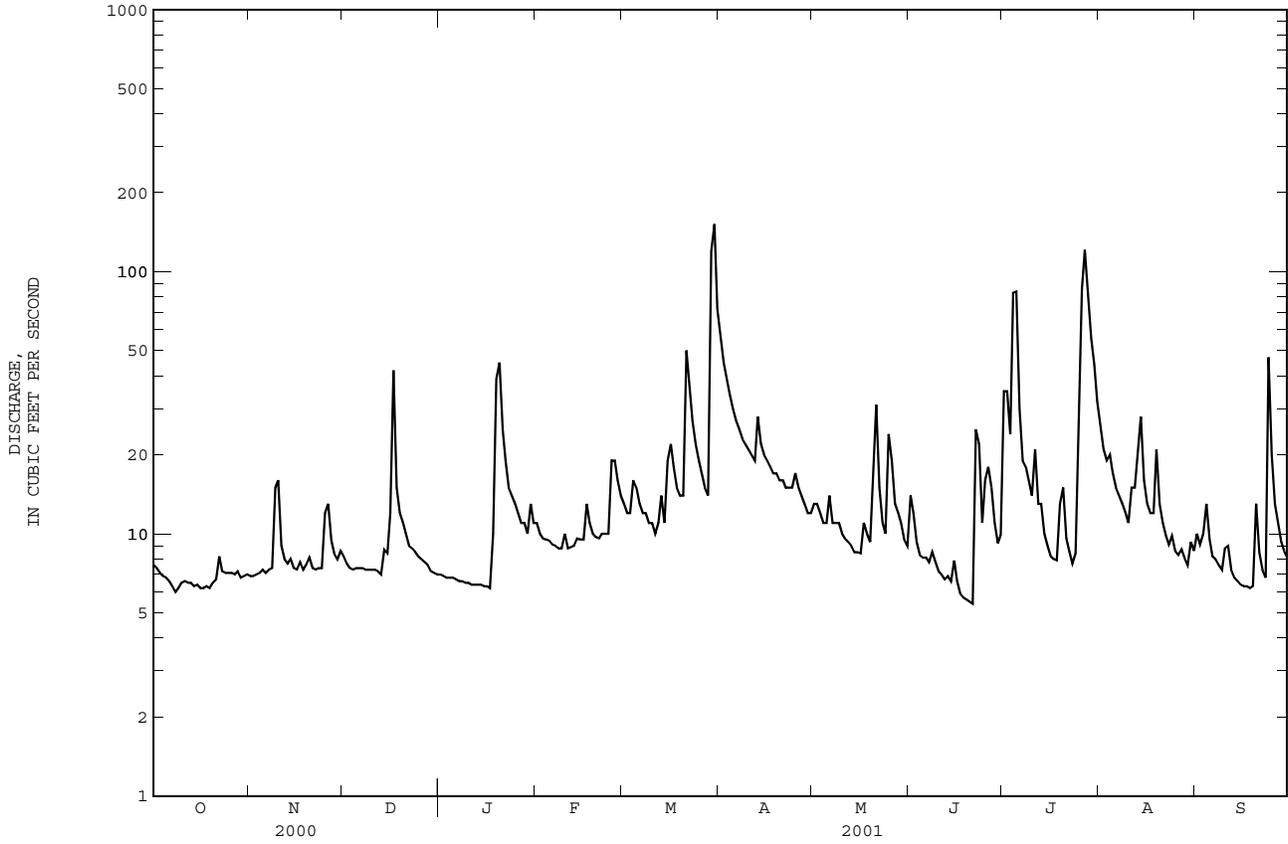
\* See REMARKS.

02140991 JOHNS RIVER AT ARNEYS STORE, NC--Continued





02142000 LOWER LITTLE RIVER NEAR ALL HEALING SPRINGS, NC--Continued



SANTEE RIVER BASIN

02142000 LOWER LITTLE RIVER NEAR ALL HEALING SPRINGS, NC--Continued

PRECIPITATION RECORDS

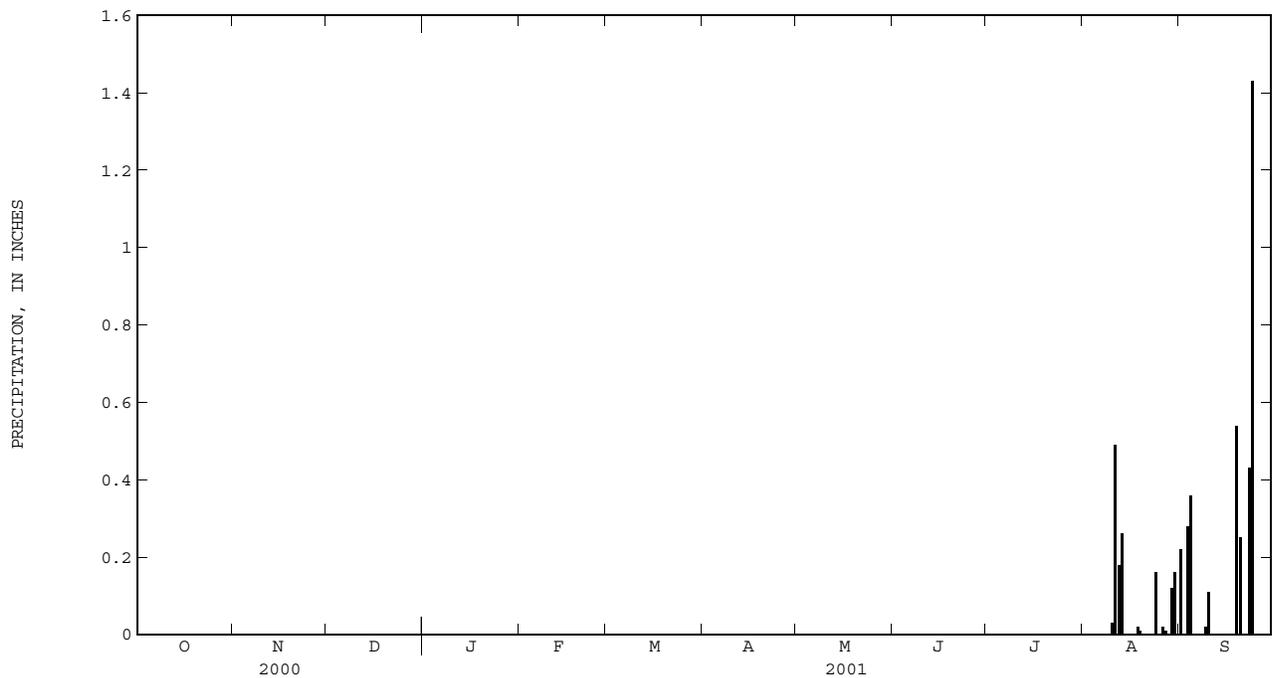
PERIOD OF RECORD.--August 2001 to September 2001.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at site..

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	.22
2	---	---	---	---	---	---	---	---	---	---	---	.00
3	---	---	---	---	---	---	---	---	---	---	---	.28
4	---	---	---	---	---	---	---	---	---	---	---	.36
5	---	---	---	---	---	---	---	---	---	---	---	.00
6	---	---	---	---	---	---	---	---	---	---	---	.00
7	---	---	---	---	---	---	---	---	---	---	.00	.00
8	---	---	---	---	---	---	---	---	---	---	.00	.00
9	---	---	---	---	---	---	---	---	---	---	.00	.02
10	---	---	---	---	---	---	---	---	---	---	.03	.11
11	---	---	---	---	---	---	---	---	---	---	.49	.00
12	---	---	---	---	---	---	---	---	---	---	.18	.00
13	---	---	---	---	---	---	---	---	---	---	.26	.00
14	---	---	---	---	---	---	---	---	---	---	.00	.00
15	---	---	---	---	---	---	---	---	---	---	.00	.00
16	---	---	---	---	---	---	---	---	---	---	.00	.00
17	---	---	---	---	---	---	---	---	---	---	.00	.00
18	---	---	---	---	---	---	---	---	---	---	.02	.00
19	---	---	---	---	---	---	---	---	---	---	.01	.54
20	---	---	---	---	---	---	---	---	---	---	.00	.25
21	---	---	---	---	---	---	---	---	---	---	.00	.00
22	---	---	---	---	---	---	---	---	---	---	.00	.00
23	---	---	---	---	---	---	---	---	---	---	.00	.43
24	---	---	---	---	---	---	---	---	---	---	.16	1.43
25	---	---	---	---	---	---	---	---	---	---	.00	.00
26	---	---	---	---	---	---	---	---	---	---	.02	.00
27	---	---	---	---	---	---	---	---	---	---	.01	.00
28	---	---	---	---	---	---	---	---	---	---	.00	.00
29	---	---	---	---	---	---	---	---	---	---	.12	.00
30	---	---	---	---	---	---	---	---	---	---	.16	.00
31	---	---	---	---	---	---	---	---	---	---	.00	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	3.64





Gaging station at Long Creek near Bessemer City, North Carolina.

## SANTEE RIVER BASIN

0214253830 NORWOOD CREEK NEAR TROUTMAN, NC

LOCATION.--Lat 35°40'48", long 80°56'44", Iredell County, Hydrologic Unit 03050101, on left upstream wingwall of culvert on Secondary Road 1328, 0.4 mi upstream from Lake Norman, 0.7 mi downstream of Powder Spring Branch, 1.0 mi northeast of East Monbo, and 3.7 mi southwest of Troutman.

DRAINAGE AREA.--7.18 mi<sup>2</sup>.

PERIOD OF RECORD.--December 1983 to current year.

GAGE.--Water-stage recorder. Datum of gage is 761.09 ft above sea level. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record, from rating curve extended above 400 ft<sup>3</sup>/s by logarithmic plotting. Minimum discharge for current water year also occurred Aug. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.6	2.1	e1.9	2.6	4.3	9.1	3.2	2.5	1.8	3.0	1.1
2	1.4	1.5	2.1	e2.0	2.6	4.2	7.5	3.0	2.3	1.9	3.0	1.5
3	1.4	1.5	2.1	e2.0	2.6	4.2	7.1	3.1	2.1	1.9	2.9	3.4
4	1.4	1.6	2.0	e2.0	2.5	6.0	6.6	2.9	2.1	12	2.8	4.6
5	1.4	1.6	2.1	e2.1	2.5	6.1	6.2	2.8	2.1	7.5	2.7	3.0
6	1.3	1.6	2.1	e2.1	2.5	5.3	6.0	2.6	2.3	3.5	2.6	1.5
7	1.3	1.6	2.1	2.1	2.5	5.2	5.7	2.5	2.3	3.0	2.4	1.3
8	1.3	1.6	2.1	2.1	2.4	4.9	5.4	2.5	2.1	3.4	2.2	1.2
9	1.3	2.5	2.1	2.1	2.5	4.6	5.1	2.5	2.4	3.3	2.0	1.3
10	1.4	2.1	2.1	2.3	2.7	4.6	4.9	2.5	2.0	3.4	1.8	1.3
11	1.4	1.8	2.1	2.2	2.6	4.6	4.7	2.3	1.9	2.9	2.1	1.2
12	1.4	1.8	2.1	2.3	2.9	4.7	4.5	2.3	1.9	2.9	1.5	1.1
13	1.4	1.8	2.0	2.3	3.0	5.3	4.6	2.2	1.9	3.5	1.9	1.1
14	1.4	2.0	2.2	2.2	3.1	5.0	4.3	2.1	1.8	3.0	2.5	1.1
15	1.3	1.9	2.2	2.2	3.1	11	4.3	2.1	1.8	2.9	1.9	1.1
16	1.4	1.8	3.3	2.2	3.2	9.3	4.2	2.1	1.7	3.2	1.7	1.0
17	1.4	2.1	4.0	2.1	11	6.4	4.1	2.2	1.7	3.3	1.7	1.0
18	1.4	1.9	2.9	2.4	5.9	7.0	4.5	2.2	1.7	3.4	2.0	.98
19	1.5	2.0	2.8	4.8	4.8	7.4	4.6	2.1	1.7	3.5	1.7	1.1
20	1.6	2.0	2.6	8.0	4.4	10	4.7	2.2	1.6	3.2	1.2	1.3
21	1.6	2.0	2.4	5.0	4.2	25	4.8	2.2	1.6	3.1	1.1	1.2
22	1.5	1.9	2.4	3.9	4.1	12	4.5	2.2	1.6	2.9	1.1	1.1
23	1.6	1.9	e2.4	3.5	4.0	8.5	4.3	2.2	1.8	2.8	1.0	1.4
24	1.6	1.9	e2.3	3.2	4.0	7.4	4.3	2.1	1.7	3.5	1.5	2.7
25	1.7	2.3	e2.3	3.0	5.6	6.7	4.4	2.9	2.0	3.1	1.1	2.2
26	1.6	2.4	e2.2	2.9	5.3	6.7	3.8	2.5	3.6	4.0	1.0	1.4
27	1.7	2.2	2.2	2.9	4.7	7.0	3.5	2.1	1.9	3.6	.99	1.2
28	1.6	2.1	2.0	2.7	4.5	7.5	3.4	2.2	1.8	3.6	.95	1.2
29	1.8	2.1	e2.0	2.7	---	60	3.3	2.2	1.7	3.6	.92	1.2
30	1.6	2.1	e2.0	3.0	---	30	3.2	2.0	1.9	3.6	.91	1.2
31	1.7	---	e1.9	2.8	---	11	---	2.0	---	3.3	.99	---
TOTAL	45.8	57.2	71.2	87.0	105.8	301.9	147.6	74.0	59.5	110.6	55.16	45.98
MEAN	1.48	1.91	2.30	2.81	3.78	9.74	4.92	2.39	1.98	3.57	1.78	1.53
MAX	1.8	2.5	4.0	8.0	11	60	9.1	3.2	3.6	12	3.0	4.6
MIN	1.3	1.5	1.9	1.9	2.4	4.2	3.2	2.0	1.6	1.8	.91	.98
CFSM	.21	.27	.32	.39	.53	1.36	.69	.33	.28	.50	.25	.21
IN.	.24	.30	.37	.45	.55	1.56	.76	.38	.31	.57	.29	.24

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2001, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	8.63	7.28	8.10	10.6	12.8	13.5	11.0	7.16	6.20	5.38	5.11	4.32						
MAX	36.1	16.9	15.8	21.0	25.1	35.2	24.2	15.2	24.4	22.1	13.0	10.5						
(WY)	1991	1993	1984	1993	1990	1993	1997	1990	1992	1989	1994	1989						
MIN	1.48	1.91	2.30	2.81	3.78	4.49	3.60	2.39	1.61	1.41	.85	1.53						
(WY)	2001	2001	2001	2001	2001	1999	1986	2001	1986	2000	2000	2001						

## SUMMARY STATISTICS

## FOR 2001 WATER YEAR

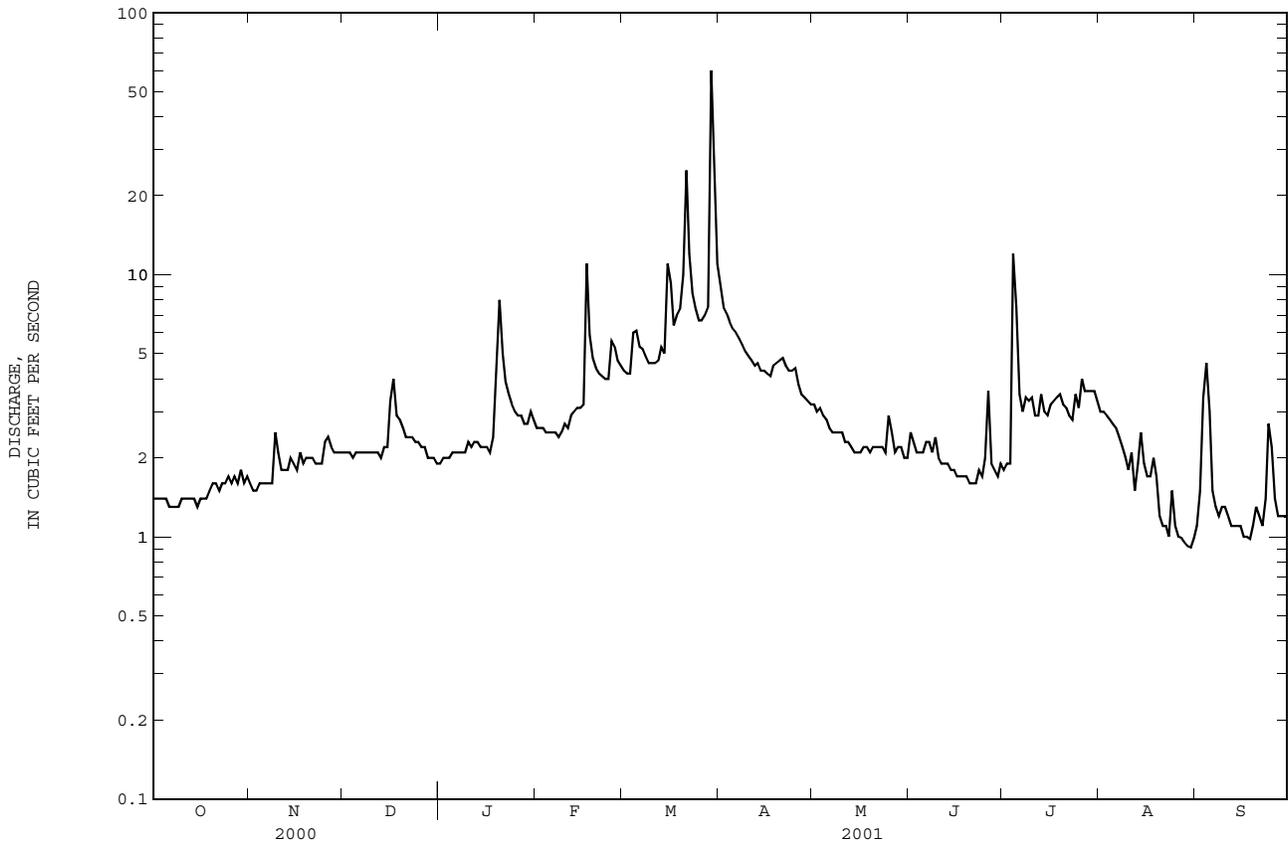
## WATER YEARS 1984 - 2001

ANNUAL TOTAL	1161.74		
ANNUAL MEAN	3.18	8.12	
HIGHEST ANNUAL MEAN		13.1	1991
LOWEST ANNUAL MEAN		3.18	2001
HIGHEST DAILY MEAN	60	Mar 29	387
LOWEST DAILY MEAN	.91	Aug 30	.69
ANNUAL SEVEN-DAY MINIMUM	.98	Aug 25	.72
MAXIMUM PEAK FLOW	314	Mar 29	1480*
MAXIMUM PEAK STAGE	6.31	Mar 29	9.20
INSTANTANEOUS LOW FLOW	.87*	Aug 29	.67
ANNUAL RUNOFF (CFSM)	.44		1.13
ANNUAL RUNOFF (INCHES)	6.02		15.36
10 PERCENT EXCEEDS	5.2		12
50 PERCENT EXCEEDS	2.2		5.3
90 PERCENT EXCEEDS	1.3		2.6

e Estimated.

\* See REMARKS.

0214253830 NORWOOD CREEK NEAR TROUTMAN, NC--Continued



SANTEE RIVER BASIN

02142651 CRN24

LOCATION.--Lat 35°27'49", long 80°52'36", Mecklenburg County, Hydrologic Unit 03050103, McDowell Creek at Westmoreland Road near Cornelius, NC.

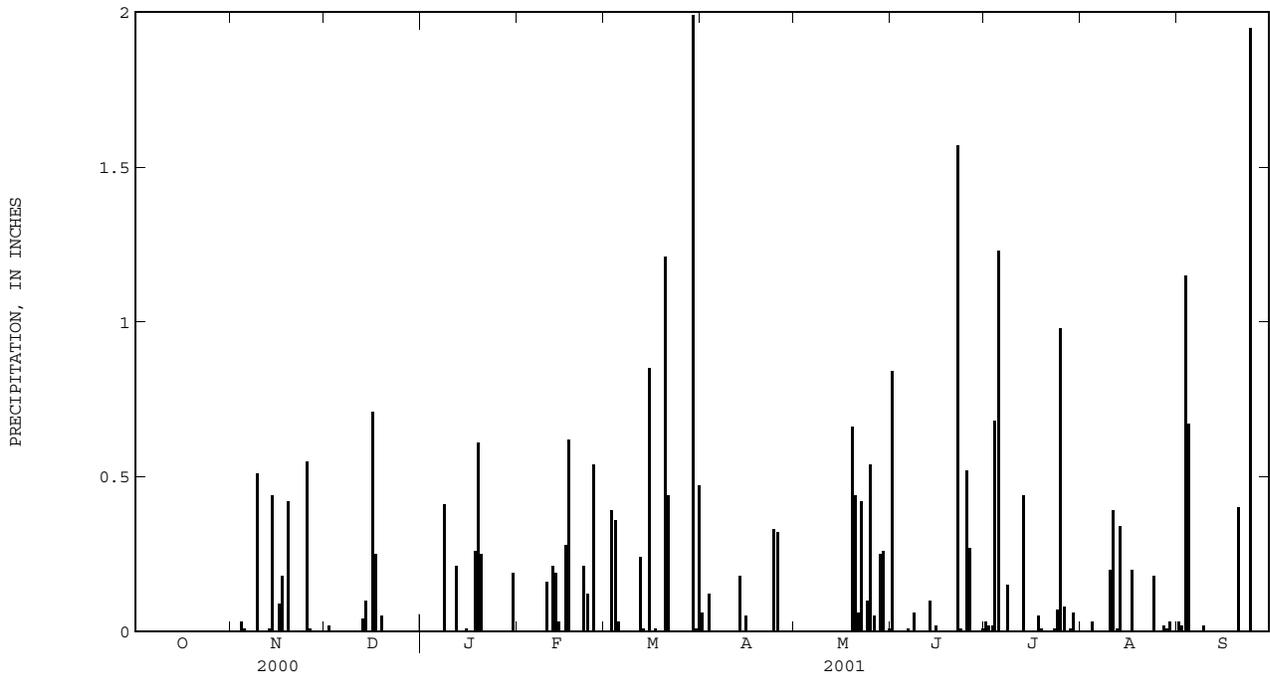
PERIOD OF RECORD.-- May 1994 to current year. Records for period May 1994 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.06	.00	.84	.03	.00	.03
2	.00	.00	.02	.00	.00	.00	.00	.00	.00	.02	.00	.02
3	.00	.00	.00	.00	.00	.39	.12	.00	.00	.02	.00	1.15
4	.00	.03	.00	.00	.00	.36	.00	.00	.00	.68	.03	.67
5	.00	.01	.00	.00	.00	.03	.00	.00	.00	1.23	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.41	.00	.00	.00	.00	.06	.15	.00	.00
9	.00	.51	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
10	.00	.00	.00	.00	.16	.00	.00	.00	.00	.00	.20	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.39	.00
12	.00	.00	.00	.21	.21	.24	.00	.00	.00	.00	.01	.00
13	.00	.01	.04	.00	.19	.01	.18	.00	.10	.44	.34	.00
14	.00	.44	.10	.00	.03	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.01	.00	.85	.05	.00	.02	.00	.00	.00
16	.00	.09	.71	.00	.28	.00	.00	.00	.00	.00	.00	.00
17	.00	.18	.25	.00	.62	.01	.00	.00	.00	.00	.20	.00
18	.00	.00	.00	.26	.00	.00	.00	.00	.00	.05	.00	.00
19	.00	.42	.05	.61	.00	.00	.00	.66	.00	.01	.00	.00
20	.00	.00	.00	.25	.00	1.21	.00	.44	.00	.00	.00	.40
21	.00	.00	.00	.00	.00	.44	.00	.06	.00	.00	.00	.00
22	.00	.00	.00	.00	.21	.00	.00	.42	1.57	.00	.00	.00
23	.00	.00	.00	.00	.12	.00	.00	.00	.01	.01	.00	.00
24	.00	.00	.00	.00	.00	.00	.33	.10	.00	.07	.18	1.95
25	.00	.55	.00	.00	.54	.00	.32	.54	.52	.98	.00	.00
26	.00	.01	.00	.00	.00	.00	.00	.05	.27	.08	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00
28	.00	.00	.00	.00	.00	.00	.00	.25	.00	.01	.01	.00
29	.00	.00	.00	.00	---	1.99	.00	.26	.00	.06	.03	.00
30	.00	.00	.00	.19	---	.01	.00	.00	.01	.00	.00	.00
31	.00	---	.00	.00	---	.47	---	.01	---	.00	.00	---
TOTAL	0.00	2.25	1.17	1.94	2.36	6.01	1.06	2.79	3.41	3.84	1.41	4.24





Gaging station at Brasstown Creek at Brasstown, North Carolina.

SANTEE RIVER BASIN

0214266000 MCDOWELL CREEK NEAR CHARLOTTE, NC

LOCATION.--Lat 35°23'22", long 80°55'16", Mecklenburg County, Hydrologic Unit 03050101, on right bank at downstream side of bridge on Secondary Road 2074, 2.1 mi downstream of Torrence Creek, 2.8 mi south of Hicks Crossroads, 12.1 mi northwest of city hall, Charlotte.

DRAINAGE AREA.-26.3-mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1996 to current year. Streamflow data for November 1996 to September 1997 previously published in U.S. Geological Survey Open-File Report 98-67.

GAGE.--Water-stage recorder. Datum of gage is 644.87 ft above sea level, North American Vertical Datum of 1988. Radio telemetry at site.

REMARKS.--Records poor. Minimum discharge for current water year also occurred Aug. 23, 28, Sept. 1, 16, 19, 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	4.4	5.2	6.9	7.3	9.8	41	5.7	41	5.2	3.6	2.7
2	4.0	3.8	5.1	6.3	7.0	9.2	18	6.9	19	4.6	3.7	2.9
3	3.6	4.3	5.3	6.5	6.5	12	20	6.0	10	5.2	3.2	40
4	3.3	4.1	5.2	6.5	6.5	59	16	5.3	8.0	16	3.9	47
5	3.3	4.4	5.4	6.8	6.6	26	13	5.7	5.9	49	3.6	8.9
6	3.6	4.5	5.1	6.8	6.4	16	12	5.4	4.9	46	3.6	5.6
7	3.4	4.9	5.3	6.6	6.4	12	11	4.9	4.8	6.8	3.3	e4.5
8	3.3	4.5	5.4	16	6.4	9.7	11	4.6	5.2	6.3	3.3	3.6
9	3.2	10	5.3	8.9	6.3	8.7	10	4.8	5.0	5.9	3.5	3.4
10	3.4	7.0	5.2	7.2	8.3	8.1	10	4.7	4.6	4.6	4.9	3.5
11	3.4	4.9	5.7	7.1	6.3	7.7	9.4	5.2	4.6	4.6	8.3	3.4
12	3.3	4.6	6.3	9.4	8.7	8.2	9.0	4.9	4.0	3.6	6.0	3.1
13	e3.5	4.9	5.8	9.1	8.6	13	16	5.0	4.4	41	7.5	2.8
14	3.6	17	9.3	7.0	13	6.9	10	4.9	4.1	6.1	5.8	2.8
15	3.4	6.3	6.6	6.9	8.6	75	9.9	4.6	3.8	4.6	3.2	2.7
16	3.3	4.9	18	6.8	7.7	29	8.9	4.3	3.9	4.5	3.2	2.6
17	3.6	11	37	6.6	106	15	8.0	4.1	3.8	4.2	5.6	4.5
18	3.4	5.8	9.0	7.8	20	11	8.4	4.4	3.4	3.7	4.7	2.7
19	3.8	12	8.2	37	13	11	8.3	10	3.0	7.2	3.3	3.2
20	3.3	10	7.6	41	11	60	7.9	50	3.4	5.9	3.1	10
21	3.9	6.0	7.1	16	9.7	345	8.1	13	3.2	3.8	3.1	6.2
22	3.7	5.6	7.1	9.9	25	47	8.0	32	102	4.8	2.7	3.3
23	4.0	5.2	7.0	8.8	13	24	7.6	17	68	4.0	2.6	3.5
24	3.9	4.9	6.8	8.3	9.9	17	10	7.2	13	6.5	4.4	151
25	4.1	24	6.8	7.8	54	13	22	7.7	64	9.0	3.9	20
26	3.9	12	6.5	7.5	24	12	7.8	44	20	35	3.1	8.9
27	3.8	6.7	6.7	7.5	14	10	6.5	10	14	6.7	3.1	6.3
28	3.6	5.9	6.9	7.2	11	8.1	6.1	23	7.3	5.2	2.6	4.8
29	4.1	5.4	6.7	7.3	---	212	5.9	18	6.0	5.2	3.2	3.9
30	3.5	5.3	6.4	11	---	394	5.8	6.5	4.8	4.6	2.9	3.6
31	4.2	---	6.3	7.8	---	36	---	5.1	---	4.1	2.9	---
TOTAL	112.6	214.3	240.3	316.3	431.2	1525.4	345.6	334.9	449.1	323.9	121.8	371.4
MEAN	3.63	7.14	7.75	10.2	15.4	49.2	11.5	10.8	15.0	10.4	3.93	12.4
MAX	4.2	24	37	41	106	394	41	50	102	49	8.3	151
MIN	3.2	3.8	5.1	6.3	6.3	6.9	5.8	4.1	3.0	3.6	2.6	2.6
CFSM	.14	.27	.29	.39	.59	1.87	.44	.41	.57	.40	.15	.47
IN.	.16	.30	.34	.45	.61	2.16	.49	.47	.64	.46	.17	.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

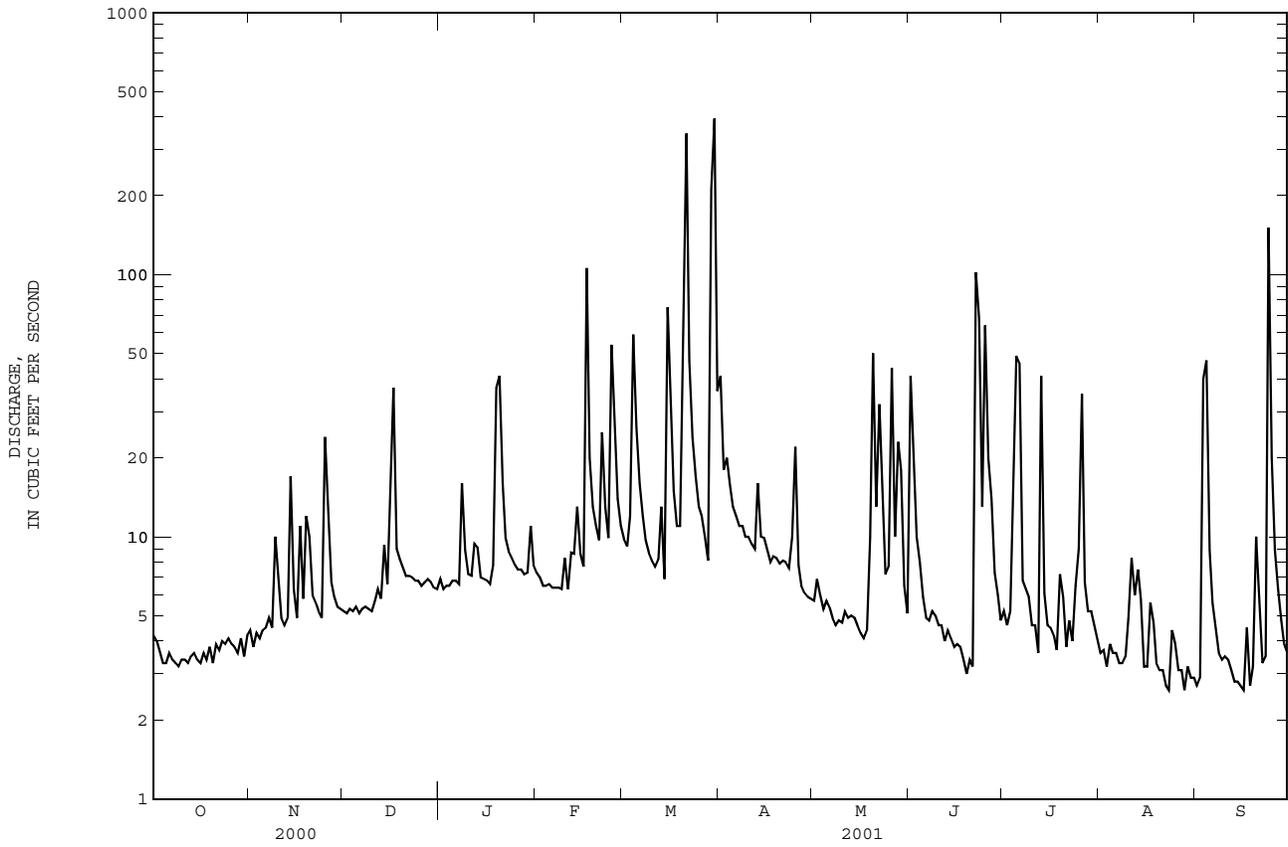
	1997	1998	1999	2000	2001
MEAN	15.0	15.3	22.2	38.1	40.7
MAX	36.3	40.7	48.9	94.0	73.3
(WY)	1998	1998	1998	1998	2001
MIN	3.63	5.15	7.75	10.2	15.4
(WY)	2001	1999	2001	2001	1999

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1997 - 2001

ANNUAL TOTAL	5895.4	4786.8		
ANNUAL MEAN	16.1	13.1	19.3	
HIGHEST ANNUAL MEAN			35.8	1998
LOWEST ANNUAL MEAN			10.6	1999
HIGHEST DAILY MEAN	283	Mar 20	394	Mar 30
LOWEST DAILY MEAN	2.7	Jun 22	2.6	Aug 23
ANNUAL SEVEN-DAY MINIMUM	3.1	Jun 12	2.9	Aug 27
MAXIMUM PEAK FLOW			900	Mar 30
MAXIMUM PEAK STAGE			10.73	Mar 30
INSTANTANEOUS LOW FLOW			2.0*	Aug 22
ANNUAL RUNOFF (CFSM)	.61		.50	.73
ANNUAL RUNOFF (INCHES)	8.34		6.77	9.95
10 PERCENT EXCEEDS	26		21	38
50 PERCENT EXCEEDS	7.6		6.4	9.3
90 PERCENT EXCEEDS	3.9		3.4	3.5

e Estimated.  
\* See REMARKS.

0214266000 MCDOWELL CREEK NEAR CHARLOTTE, NC--Continued



## SANTEE RIVER BASIN

0214266000 MCDOWELL CREEK NEAR CHARLOTTE, NC--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1997, May 2000 to September 2001.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1996 to September 1997.

WATER TEMPERATURE: November 1996 to September 1997.

INSTRUMENTATION.--Water-quality monitor from November 1996 to September 1997, optical backscatterance sensor from April 2000 to current year.

REMARKS.--Station operated in cooperation with Mecklenburg County to characterize water quality and suspended sediment concentrations in McDowell Creek basin. Miscellaneous water-quality data collected from November 1996 to September 1997 published in U.S. Geological Survey Open File Report 98-67.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 602 microsiemens, June 19, 1997; minimum recorded, 39 microsiemens, July 23, 1997.

WATER TEMPERATURE: Maximum recorded 33.2°C, July 21, 1997; minimum recorded, 0.1°C, Dec. 21, 1996.

## WATER-QUALITY DATA, FOR PERIOD MAY 2000 TO SEPTEMBER 2001

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
MAY				
03...	1315	30	172	14
03...	1345	29	140	11
18...	1300	5.4	52	.75
JUN				
06...	1115	6.4	16	.28
06...	1145	6.0	12	.19
JUL				
26...	0830	11	81	2.4
AUG				
03...	0930	9.8	23	.62
04...	1000	129	434	151
24...	1245	5.4	4	.07
SEP				
21...	1445	4.8	39	.51
OCT				
19...	1345	3.5	4	.04
NOV				
30...	1445	5.0	8	.11
JAN				
08...	1620	27	216	16
11...	1445	7.2	8	.15
11...	1500	7.8	8	.16
MAR				
09...	1215	8.5	11	.26
09...	1230	8.9	8	.19
21...	1430	202	306	167
JUN				
18...	0945	3.1	30	.25
27...	1115	12	177	5.7
JUL				
05...	1000	13	198	6.9
10...	1300	4.5	39	.48
13...	1230	27	399	29
25...	1205	5.1	58	.79
26...	1245	16	267	12
26...	1605	11	164	4.9
AUG				
17...	1510	2.5	20	.14
31...	1145	2.4	4	.03
SEP				
21...	1145	8.5	114	2.6
24...	1452	414	1150	1280

0214266000 MCDOWELL CREEK NEAR CHARLOTTE--Continued

PRECIPITATION RECORDS

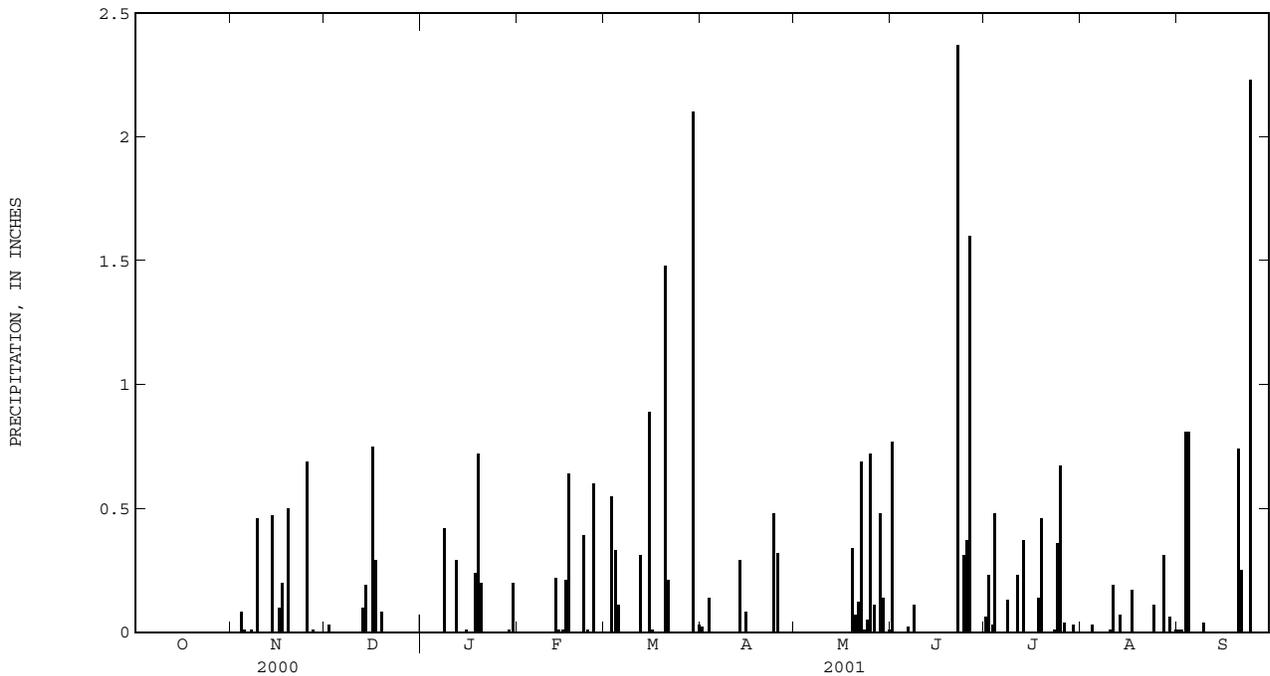
PERIOD OF RECORD.-- November 1996 to current year. Records for period November 1996 to September 1998 published in USGS OFR 98-67, and 99-273.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.02	.00	.77	.06	.00	.01
2	.00	.00	.03	.00	.00	.00	.00	.00	.00	.23	.00	.01
3	.00	.00	.00	.00	.00	.55	.14	.00	.00	.03	.00	.81
4	.00	.08	.00	.00	.00	.33	.00	.00	.00	.48	.03	.81
5	.00	.01	.00	.00	.00	.11	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.42	.00	.00	.00	.00	.11	.13	.00	.00
9	.00	.46	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04
10	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.01	.00
11	.00	.00	.00	.00	---	.00	.00	.00	.00	.23	.19	.00
12	.00	.00	.00	.29	---	.31	.00	.00	.00	.00	.00	.00
13	.00	.00	.10	.00	.22	.00	.29	.00	.00	.37	.07	.00
14	.00	.47	.19	.00	.01	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.01	.01	.89	.08	.00	.00	.00	.00	.00
16	.00	.10	.75	.00	.21	.01	.00	.00	.00	.00	.00	.00
17	.00	.20	.29	.00	.64	.00	.00	.00	.00	.00	.17	.00
18	.00	.00	.00	.24	.00	.00	.00	.00	.00	.14	.00	.00
19	.00	.50	.08	.72	.00	.00	.00	.34	.00	.46	.00	.00
20	.00	.00	.00	.20	.00	1.48	.00	.07	.00	.00	.00	.74
21	.00	.00	.00	.00	.00	.21	.00	.12	.00	.00	.00	.25
22	.00	.00	.00	.00	.39	.00	.00	.69	2.37	.00	.00	.00
23	.00	.00	.00	.00	.01	.00	.00	.01	.00	.01	.00	.00
24	.00	.00	.00	.00	.00	.00	.48	.05	.31	.36	.11	2.23
25	.00	.69	.00	.00	.60	.00	.32	.72	.37	.67	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.11	1.60	.04	.00	.00
27	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.31	.00
28	.00	.00	.00	.00	.00	.00	.00	.48	.00	.00	.00	.00
29	.00	.00	.00	.01	---	2.10	.00	.14	.00	.03	.06	.00
30	.00	.00	.00	.20	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.03	---	.01	---	.00	.01	---
TOTAL	0.00	2.53	1.44	2.09	---	6.02	1.33	2.74	5.55	3.24	0.96	4.90



SANTEE RIVER BASIN

0214266075 CRN25

LOCATION.--Lat 35°21'55", long 80°53'12", Mecklenburg County, Hydrologic Unit 03050103, Gar Creek at McCoy Road near Oakdale, NC.

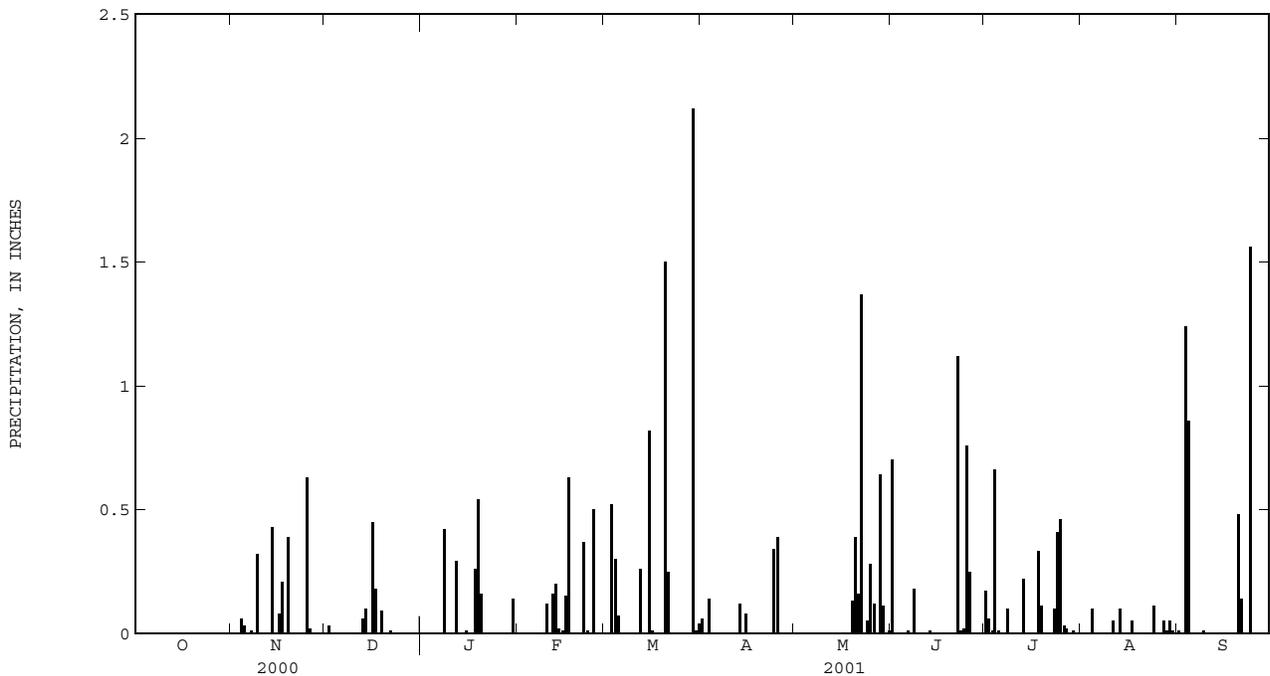
PERIOD OF RECORD.--April 1994 to current year. Records for period April 1994 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.06	.00	.70	.17	.00	.01
2	.00	.00	.03	.00	.00	.00	.00	.00	.00	.06	.00	.00
3	.00	.00	.00	.00	.00	.52	.14	.00	.00	.01	.00	1.24
4	.00	.06	.00	.00	.00	.30	.00	.00	.00	.66	.10	.86
5	.00	.03	.00	.00	.00	.07	.00	.00	.00	.01	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.42	.00	.00	.00	.00	.18	.10	.00	.00
9	.00	.32	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10	.00	.00	.00	.00	.12	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00
12	.00	.00	.00	.29	.16	.26	.00	.00	.00	.00	.00	.00
13	.00	.00	.06	.00	.20	.00	.12	.00	.01	.22	.10	.00
14	.00	.43	.10	.00	.02	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.01	.01	.82	.08	.00	.00	.00	.00	.00
16	.00	.08	.45	.00	.15	.01	.00	.00	.00	.00	.00	.00
17	.00	.21	.18	.00	.63	.00	.00	.00	.00	.00	.05	.00
18	.00	.00	.00	.26	.00	.00	.00	.00	.00	.33	.00	.00
19	.00	.39	.09	.54	.00	.00	.00	.13	.00	.11	.00	.00
20	.00	.00	.00	.16	.00	1.50	.00	.39	.00	.00	.00	.48
21	.00	.00	.00	.00	.00	.25	.00	.16	.00	.00	.00	.14
22	.00	.00	.01	.00	.37	.00	.00	1.37	1.12	.00	.00	.00
23	.00	.00	.00	.00	.01	.00	.00	.00	.01	.10	.00	.00
24	.00	.00	.00	.00	.00	.00	.34	.05	.02	.41	.11	1.56
25	.00	.63	.00	.00	.50	.00	.39	.28	.76	.46	.00	.00
26	.00	.02	.00	.00	.00	.00	.00	.12	.25	.03	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.00
28	.00	.00	.00	.00	.00	.00	.00	.64	.00	.00	.01	.00
29	.00	.00	.00	.00	---	2.12	.00	.11	.00	.01	.05	.00
30	.00	.00	.00	.14	---	.01	.00	.00	.00	.00	.01	.00
31	.00	---	.00	.00	---	.04	---	.01	---	.00	.00	---
TOTAL	0.00	2.18	0.92	1.82	2.17	5.90	1.13	3.26	3.06	2.70	0.53	4.30



0214267600 CRN35

LOCATION.--Lat 35°20'03", long 80°59'12", Gaston County, Hydrologic Unit 03050101, Catawba River at Mountain Island Dam, Mount Holly, NC.

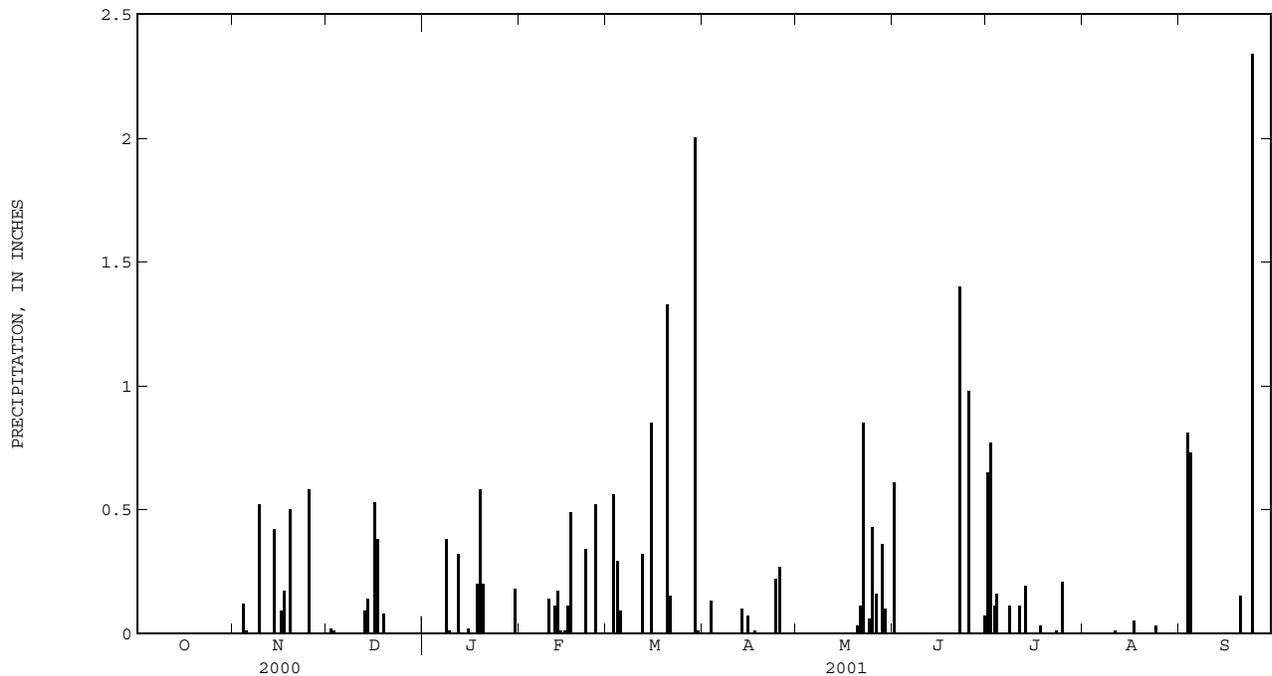
PERIOD OF RECORD.--January 1996 to current year. Records for period January 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.61	.65	.00	.00
2	.00	.00	.02	.00	.00	.00	.00	.00	.00	.77	.00	.00
3	.00	.00	.01	.00	.00	.56	.13	.00	.00	.11	.00	.81
4	.00	.12	.00	.00	.00	.29	.00	.00	.00	.16	.00	.73
5	.00	.01	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.38	.00	.00	.00	.00	.00	.11	.00	.00
9	.00	.52	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.14	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11	.01	.00
12	.00	.00	.00	.32	.11	.32	.00	.00	.00	.00	.00	.00
13	.00	.00	.09	.00	.17	.00	.10	.00	.00	.19	.00	.00
14	.00	.42	.14	.00	.01	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.02	.01	.85	.07	.00	.00	.00	.00	.00
16	.00	.09	.53	.00	.11	.00	.00	.00	.00	.00	.00	.00
17	.00	.17	.38	.00	.49	.00	.01	.00	.00	.00	.05	.00
18	.00	.00	.00	.20	.00	.00	.00	.00	.00	.03	.00	.00
19	.00	.50	.08	.58	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.20	.00	1.33	.00	.03	.00	.00	.00	.15
21	.00	.00	.00	.00	.00	.15	.00	.11	.00	.00	.00	.00
22	.00	.00	.00	.00	.34	.00	.00	.85	1.40	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
24	.00	.00	.00	.00	.00	.00	.22	.06	.00	.00	.03	2.34
25	.00	.58	.00	.00	.52	.00	.27	.43	.98	.21	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.16	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.36	.00	.00	.00	.00
29	.00	.00	.00	.00	---	2.00	.00	.10	.00	.00	.00	.00
30	.00	.00	.00	.18	---	.01	.00	.00	.07	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	2.41	1.25	1.89	1.90	5.60	0.80	2.10	3.06	2.35	0.09	4.03



## SANTEE RIVER BASIN

0214269560 KILLIAN CREEK NEAR MARIPOSA, NC

LOCATION.--Lat 35°26'03", long 81°01'49", Lincoln County, Hydrologic Unit 03050101, on right bank, 1,000 ft upstream from Forney Creek, 1.5 mi northwest of Lowesville, 1.7 mi upstream from bridge on Secondary Road 1511, and 2.4 mi northeast of Mariposa.

DRAINAGE AREA.--36.4 mi<sup>2</sup>.

PERIOD OF RECORD.-- October 1990 to June 1993, December 1994 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 643.085 ft above sea level (levels by Duke Power Co).  
Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Station was established to study low-flow conditions for Duke Power Co., no structure exists near the site for measuring high-stage flow; therefore, a peak flow was not determined to coincide with the peak stage for the year. Missing values on the daily values table are days when the flow exceeded the rating. Minimum discharges may be affected by diversions by Duke Power.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

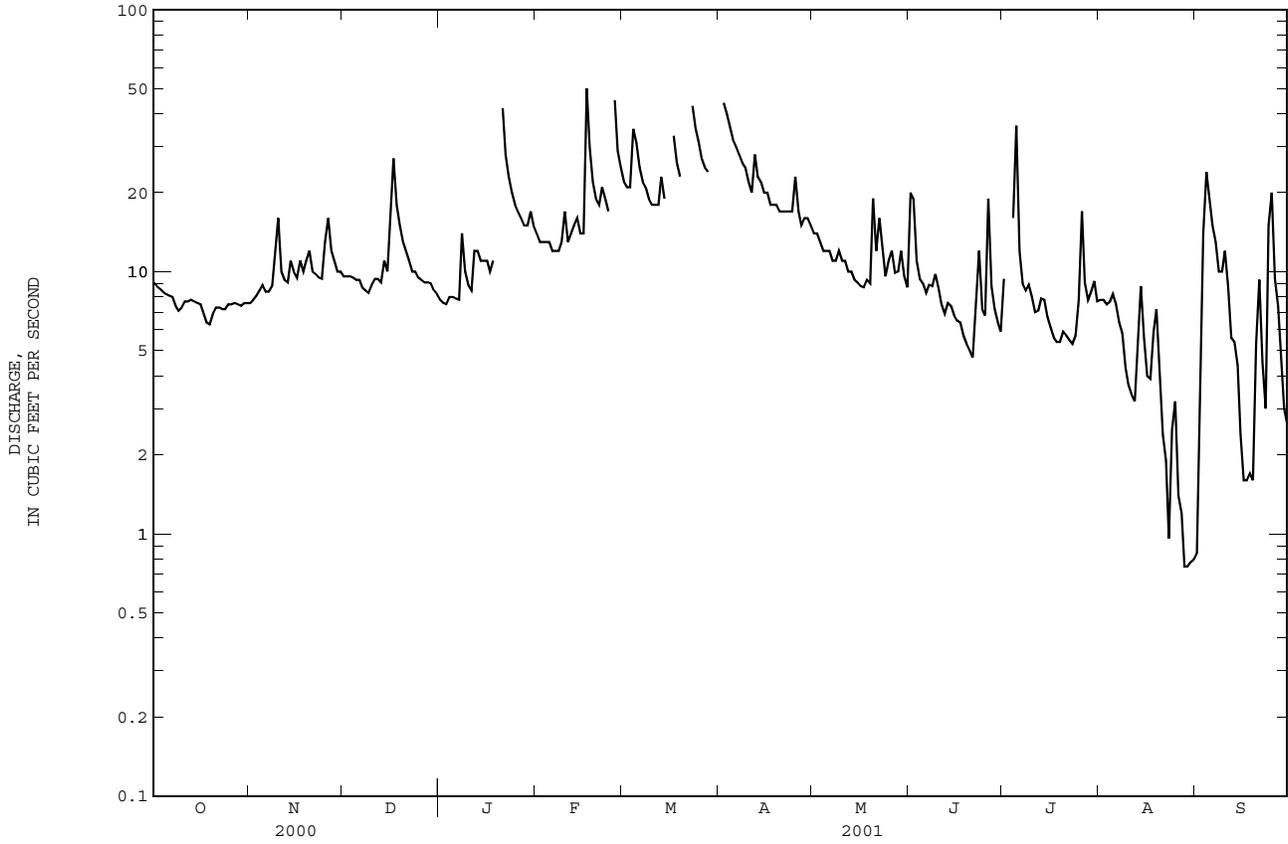
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	7.6	9.6	e7.8	14	22	---	14	20	9.4	7.8	.84
2	8.8	7.8	9.6	e7.6	13	21	44	14	19	---	7.8	4.2
3	8.6	8.1	9.6	e7.5	13	21	40	13	11	---	7.5	14
4	8.4	8.5	9.5	e8.0	13	35	36	12	9.4	16	7.7	24
5	8.2	8.9	9.3	e8.0	13	31	32	12	9.0	36	8.2	19
6	8.1	8.4	9.3	e7.9	12	25	30	12	8.3	12	7.5	15
7	8.0	8.4	8.7	e7.8	12	22	28	11	8.9	9.0	6.4	13
8	7.4	8.8	8.5	e14	12	21	26	11	8.8	8.5	5.8	10
9	7.1	12	8.3	e10	e13	19	25	12	9.8	8.9	4.3	10
10	7.3	16	8.9	e8.9	e17	18	22	11	8.6	8.0	3.7	12
11	7.7	10	9.4	e8.5	e13	18	20	11	7.5	7.0	3.4	8.8
12	7.7	9.3	9.4	e12	e14	18	28	10	6.9	7.1	3.2	5.6
13	7.8	9.1	9.1	12	e15	23	23	10	7.6	7.9	5.1	5.4
14	7.7	11	11	11	16	19	22	9.3	7.4	7.8	8.8	4.4
15	7.6	10	10	11	14	---	20	9.1	6.8	6.7	5.6	2.4
16	7.5	9.5	15	11	14	---	20	8.8	6.5	6.1	4.0	1.6
17	6.9	11	27	10	50	33	18	8.7	6.4	5.6	3.9	1.6
18	6.4	10	18	11	30	26	18	9.3	5.7	5.4	5.9	1.7
19	6.3	11	e15	---	22	23	18	9.0	5.3	5.4	7.2	1.6
20	6.9	12	e13	---	19	---	17	19	5.0	5.9	3.9	5.3
21	7.3	10	e12	42	18	---	17	12	4.7	5.7	2.4	9.3
22	7.3	9.8	e11	28	21	---	17	16	7.1	5.5	1.9	4.5
23	7.2	9.5	e10	23	19	43	17	12	12	5.3	.96	3.0
24	7.2	9.4	e10	20	17	35	17	9.6	7.2	5.7	2.5	15
25	7.5	13	e9.5	18	---	31	23	11	6.8	7.8	3.2	20
26	7.5	16	e9.3	17	45	27	17	12	19	17	1.4	9.4
27	7.6	12	e9.1	16	29	25	15	9.9	8.8	9.1	1.2	7.4
28	7.5	11	e9.1	15	25	24	16	10	7.2	7.8	.75	4.6
29	7.4	10	e9.0	15	---	---	16	12	6.4	8.4	.75	3.0
30	7.6	10	e8.5	17	---	---	15	9.6	5.9	9.2	.78	2.6
31	7.6	---	e8.2	15	---	---	---	8.7	---	7.7	.80	---

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1991 - 2001 <sup>®</sup>
LOWEST DAILY MEAN	3.6 Jul 11	.75 Aug 28	.75 Aug 28 2001
INSTANTANEOUS PEAK STAGE		9.27 Mar 29	15.25 Apr 29 1997
INSTANTANEOUS LOW FLOW		.62 Aug 23	.62 Aug 23 2001

e Estimated.

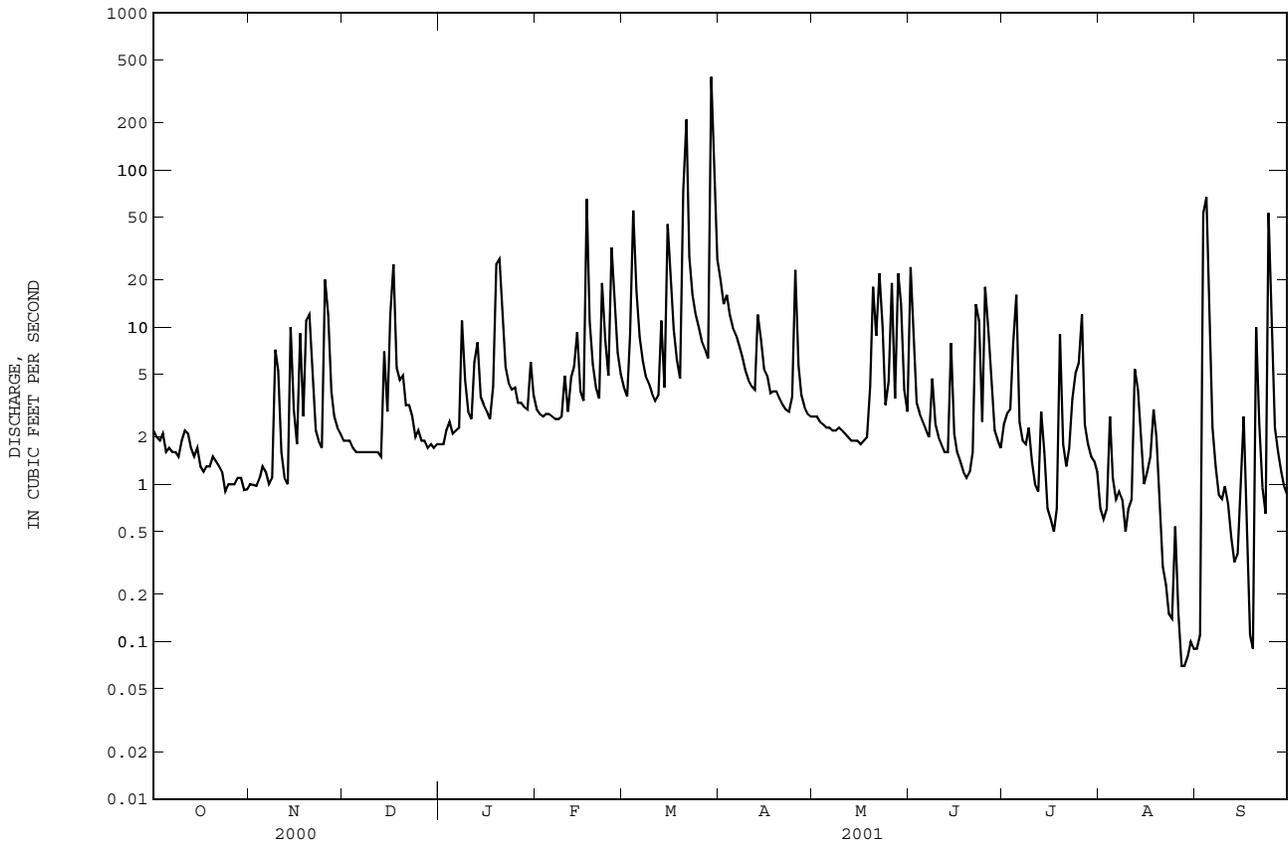
<sup>®</sup> See PERIOD OF RECORD.

0214269560 KILLIAN CREEK NEAR MARIPOSA, NC--Continued





02142900 LONG CREEK NEAR PAW CREEK, NC--Continued



SANTEE RIVER BASIN

02142900 LONG CREEK NEAR PAW CREEK, NC--Continued

PRECIPITATION RECORDS

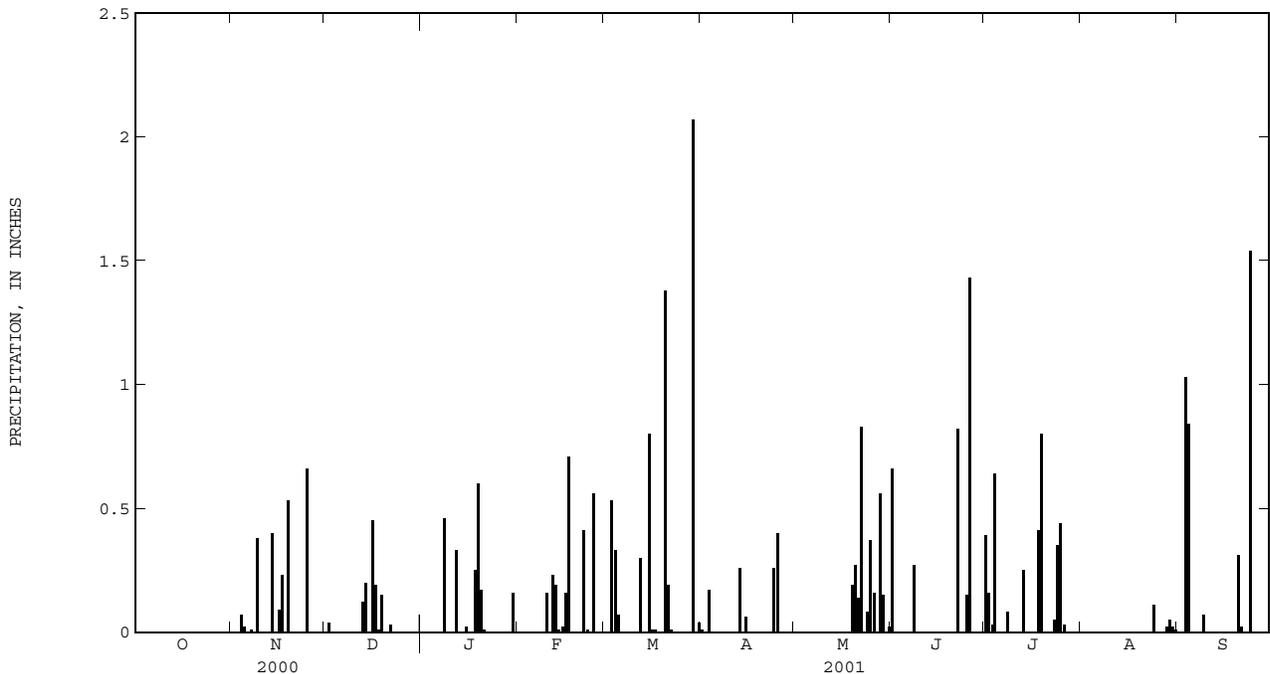
PERIOD OF RECORD.--March 1993 to current year. Records for period March 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.01	.00	.66	.39	.00	.00
2	.00	.00	.04	.00	.00	.00	.00	.00	.00	.16	.00	.00
3	.00	.00	.00	.00	.00	.53	.17	.00	.00	.03	.00	1.03
4	.00	.07	.00	.00	.00	.33	.00	.00	.00	.64	.00	.84
5	.00	.02	.00	.00	.00	.07	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.46	.00	.00	.00	.00	.27	.08	.00	.00
9	.00	.38	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
10	.00	.00	.00	.00	.16	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.33	.23	.30	.00	.00	.00	.00	.00	.00
13	.00	.00	.12	.00	.19	.00	.26	.00	.00	.25	.00	.00
14	.00	.40	.20	.00	.01	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.02	.02	.80	.06	.00	.00	.00	.00	.00
16	.00	.09	.45	.00	.16	.01	.00	.00	.00	.00	.00	.00
17	.00	.23	.19	.00	.71	.01	.00	.00	.00	.00	.00	.00
18	.00	.00	.01	.25	.00	.00	.00	.00	.00	.41	.00	.00
19	.00	.53	.15	.60	.00	.00	.00	.19	.00	.80	.00	.00
20	.00	.00	.00	.17	.00	1.38	.00	.27	.00	.00	.00	.31
21	.00	.00	.00	.01	.00	.19	.00	.14	.00	.00	.00	.02
22	.00	.00	.03	.00	.41	.01	.00	.83	.82	.00	.00	.00
23	.00	.00	.00	.00	.01	.00	.00	.00	.00	.05	.00	.00
24	.00	.00	.00	.00	.00	.00	.26	.08	.00	.35	.11	1.54
25	.00	.66	.00	.00	.56	.00	.40	.37	.15	.44	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.16	1.43	.03	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.56	.00	.00	.02	.00
29	.00	.00	.00	.00	---	2.07	.00	.15	.00	.00	.05	.00
30	.00	.00	.00	.16	---	.00	.00	.00	.00	.00	.02	.00
31	.00	---	.00	.00	---	.04	---	.02	---	.00	.01	---
TOTAL	0.00	2.39	1.19	2.00	2.46	5.74	1.16	2.77	3.33	3.63	0.21	3.81





Raingage at Statesville, North Carolina.



Raingage at Tuckertown Reservoir  
Montgomery County, North Carolina.

## SANTEE RIVER BASIN

0214291555 LONG CREEK NEAR RHYNE, NC

LOCATION.--Lat 35°18'03", long 80°55'24", Mecklenburg County, Hydrologic Unit 03050101, on right bank 1.6 mi downstream of Gum Branch, .6 mi upstream from bridge on NC Highway 27 and 5.5 mi northwest of Rhyne.

DRAINAGE AREA.--31.49 mi<sup>2</sup>.

PERIOD OF RECORD.-- October 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage 610 ft above sea level, from topographic map. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Frequent diversions during summer months for irrigation by upstream golf course. Minimum discharge for current water year and period of record affected by regulation. Maximum discharge for current water year and period of record from slope area computation of peak flow. Maximum stage for current water year and period of record from floodmarks. Minimum discharge for current water year and period of record also occurred on Sept. 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	1.9	4.7	e4.5	6.2	10	30	5.2	35	3.3	1.6	.33
2	3.8	2.3	4.5	e4.6	6.0	9.0	21	5.5	17	5.2	1.3	.15
3	3.6	1.8	4.6	e4.6	5.9	13	22	5.5	6.5	5.7	1.0	.44
4	3.4	1.6	4.3	e4.8	5.8	101	20	5.1	4.9	7.9	3.0	.69
5	3.6	1.8	4.4	e5.0	5.7	30	16	4.9	4.7	27	1.6	7.6
6	3.7	2.2	4.4	e5.1	5.8	16	15	4.6	3.9	4.2	.96	2.6
7	3.5	2.0	4.3	e5.0	6.0	12	14	4.3	3.2	2.6	1.3	1.6
8	3.2	2.1	4.4	14	5.6	10	12	4.7	5.6	2.7	.81	1.3
9	3.2	14	4.3	10	5.6	9.4	11	5.6	4.7	3.7	.65	1.2
10	4.1	15	4.2	5.6	8.2	8.4	10	4.8	3.3	2.7	.79	1.1
11	4.8	8.4	4.2	5.2	6.5	7.9	9.7	3.9	2.8	2.5	.77	1.0
12	6.8	7.0	4.3	7.2	7.0	8.5	9.1	3.2	3.0	2.6	5.1	.96
13	6.2	7.1	4.2	14	11	16	16	3.3	2.7	5.0	1.1	.80
14	4.1	17	8.6	6.7	14	8.4	13	3.0	7.1	3.5	3.5	.63
15	4.1	9.0	7.7	5.8	8.3	90	9.7	3.0	3.3	2.5	1.1	.85
16	3.5	5.6	15	5.6	7.4	39	9.9	2.8	2.6	2.8	1.3	2.8
17	3.5	13	38	5.2	112	17	8.8	3.2	2.5	1.6	2.2	1.4
18	3.7	8.2	10	5.8	21	12	8.9	3.0	2.0	1.7	6.0	.77
19	3.6	13	7.5	34	14	10	9.0	2.7	1.9	8.2	3.1	1.3
20	4.2	20	8.7	50	11	91	8.7	15	1.6	3.6	1.0	9.0
21	4.0	11	e6.1	21	9.6	431	8.5	11	1.9	2.1	1.0	5.4
22	3.8	6.6	e5.7	11	30	55	8.3	21	8.8	1.5	.76	3.6
23	3.5	5.9	e5.0	8.5	17	27	7.6	18	23	3.6	.74	1.8
24	2.9	5.5	e4.8	7.5	11	19	8.2	5.4	e3.9	5.2	.69	84
25	3.2	31	e4.7	7.8	63	17	24	6.4	e15	9.1	.80	15
26	2.9	20	e4.6	6.4	29	14	8.2	24	11	12	.51	4.1
27	2.6	7.9	e4.4	6.3	15	12	6.4	5.9	7.6	3.6	.37	2.2
28	2.3	5.9	e4.5	6.1	12	11	5.9	25	3.2	2.4	.31	1.3
29	2.4	5.4	e4.4	6.3	---	587	5.5	15	2.9	2.1	.30	1.2
30	2.1	5.4	e4.4	9.0	---	440	5.2	6.6	2.5	2.0	.27	1.1
31	1.6	---	e4.5	7.8	---	46	---	4.3	---	1.8	.31	---
TOTAL	111.9	257.6	205.4	300.4	459.6	2177.6	361.6	235.9	198.1	144.4	44.24	268.09
MEAN	3.61	8.59	6.63	9.69	16.4	70.2	12.1	7.61	6.60	4.66	1.43	8.94
MAX	6.8	31	38	50	112	587	30	25	35	27	6.0	84
MIN	1.6	1.6	4.2	4.5	5.6	7.9	5.2	2.7	1.6	1.5	.27	.15
CFSM	.11	.27	.21	.31	.52	2.23	.38	.24	.21	.15	.05	.28
IN.	.13	.30	.24	.35	.54	2.57	.43	.28	.23	.17	.05	.32

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

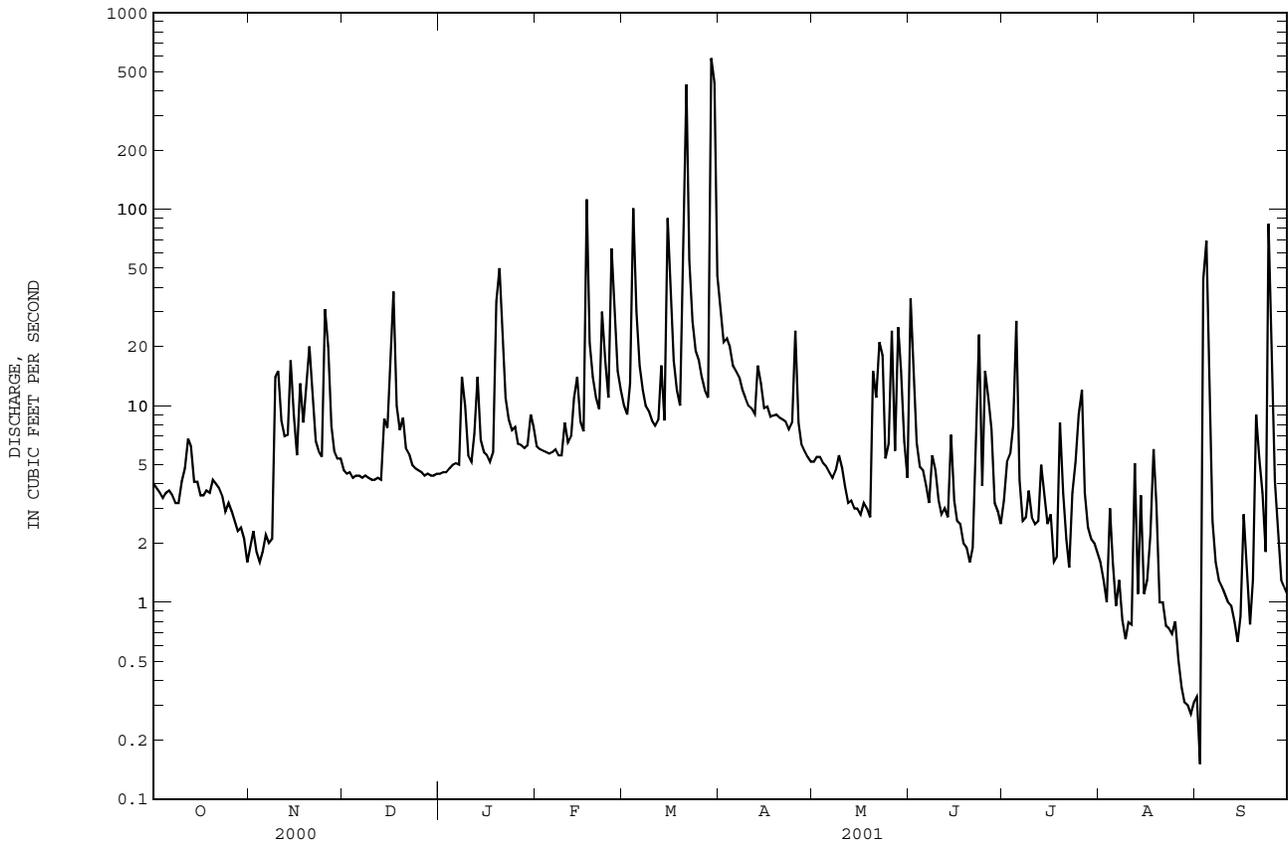
	1999	2000	2001	1999	2000	2001	1999	2000	2001	1999	2000	2001
MEAN	10.9	8.67	11.7	27.0	29.9	47.2	23.1	8.19	7.36	10.0	6.02	10.9
MAX	24.2	10.4	18.8	39.8	44.1	70.2	36.8	8.81	10.4	16.2	13.7	18.4
(WY)	2000	2000	1999	1999	2000	2001	2000	2000	1999	2000	2000	2000
MIN	3.61	6.99	6.63	9.69	16.4	13.0	12.1	7.61	5.08	4.66	1.43	5.41
(WY)	2001	1999	2001	2001	2001	1999	2001	2001	2000	2001	2001	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1999 - 2001
ANNUAL TOTAL	7651.0	4764.83	
ANNUAL MEAN	20.9	13.1	16.7
HIGHEST ANNUAL MEAN			23.1
LOWEST ANNUAL MEAN			13.1
HIGHEST DAILY MEAN	476	Mar 20	587
LOWEST DAILY MEAN	1.5	Sep 17	.15
ANNUAL SEVEN-DAY MINIMUM	1.9	Oct 30	.29
MAXIMUM PEAK FLOW			2600*
MAXIMUM PEAK STAGE			9.45* Mar 29
INSTANTANEOUS LOW FLOW			.02* Sep 2
ANNUAL RUNOFF (CFSM)	.66		.41
ANNUAL RUNOFF (INCHES)	9.04		5.63
10 PERCENT EXCEEDS	36		20
50 PERCENT EXCEEDS	7.6		5.2
90 PERCENT EXCEEDS	2.9		1.3

e Estimated.

\* See REMARKS.

0214291555 LONG CREEK NEAR RHYNE, NC--Continued



## SANTEE RIVER BASIN

0214295600 PAW CREEK AT WILKINSON BOULEVARD NEAR CHARLOTTE, NC

LOCATION.--Lat 35°14'24", long 80°58'29", Mecklenburg County, Hydrologic Unit 03050101, near right bank on downstream side of culvert at U.S. Highway 74, 0.7 mi downstream of Interstate Highway 85, and 2.5 mi northwest of airport in Charlotte.

DRAINAGE AREA.--10.8 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1994 to current year.

GAGE.--Water-stage recorder. Datum of gage is 568.92 ft above sea level (Mecklenburg County benchmark). Prior to October 1, 1999 at same site at datum 570.92 ft. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Oct. 8, 9, 10, affected by upstream construction. Minimum discharge for current water year also occurred Aug. 9, 10, 11, 12, 13, 14, 15, 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1.2	1.0	1.7	1.5	1.3	2.5	9.4	1.7	17	.24	.36	.28
2	e1.0	1.1	1.6	e1.6	1.3	2.2	6.3	1.6	3.5	.32	.34	.30
3	e.90	1.1	1.6	e1.6	1.3	4.8	5.2	1.6	1.7	1.1	.31	5.0
4	e.84	.99	1.7	e1.5	1.2	44	4.1	1.5	1.4	6.9	.24	18
5	e.82	1.6	1.7	e1.6	1.3	9.1	3.1	1.5	1.1	8.2	.24	2.6
6	e.80	1.7	1.7	e1.5	1.2	4.8	2.9	1.4	.93	1.0	.56	1.4
7	.77	1.5	2.3	e1.5	1.2	3.5	2.8	1.6	.95	.71	.45	1.2
8	.73	1.5	1.9	e1.6	1.2	2.9	2.7	1.5	1.6	.68	.23	1.1
9	.68	5.8	1.8	e1.7	1.2	2.6	2.6	1.6	1.1	1.1	.19	3.1
10	.72	5.0	1.8	e1.7	1.9	2.4	2.6	1.4	.83	.66	.42	1.7
11	.83	1.5	1.8	e1.7	1.3	2.2	2.6	1.3	.76	.58	.17	.88
12	.81	1.1	1.7	e1.8	1.5	2.8	3.4	1.3	.75	.66	.17	.82
13	.83	1.1	1.7	e1.8	2.1	6.8	13	1.3	.76	1.5	.28	.71
14	1.4	6.3	3.0	1.9	3.8	2.8	2.3	1.2	.67	.58	.22	.61
15	.87	2.5	2.4	2.0	1.6	36	2.0	1.3	.64	.36	.18	.61
16	.88	1.6	4.7	1.8	1.4	11	1.9	1.5	.65	.43	.18	.56
17	.90	4.5	15	1.5	44	6.0	1.9	1.3	.61	.50	.53	.51
18	.80	2.2	3.7	1.6	5.5	4.7	2.0	1.4	.70	.35	.47	.60
19	.90	8.3	2.7	14	4.0	4.1	1.9	1.4	.58	1.9	.76	.63
20	1.0	6.4	e2.6	14	2.9	44	1.9	2.1	.68	1.2	.54	6.8
21	1.0	3.4	e2.2	6.2	2.5	95	1.8	3.5	.65	.38	.30	1.6
22	.88	2.3	e2.0	3.3	13	15	1.8	8.1	1.5	.28	.30	1.1
23	1.0	1.6	1.9	2.3	4.8	7.0	1.8	5.9	2.1	.50	.26	1.0
24	1.1	1.6	1.7	2.1	3.2	5.0	1.8	2.8	.38	4.7	.27	49
25	1.2	16	1.6	2.0	23	4.1	7.8	8.1	.35	2.0	.36	3.7
26	1.2	5.7	1.6	1.9	7.6	3.3	1.9	22	4.0	2.3	.41	1.9
27	1.1	3.5	1.6	1.9	3.9	3.6	1.8	6.1	.91	.76	.40	1.1
28	1.1	2.8	1.6	2.0	3.1	3.2	1.8	11	.35	.58	.36	.91
29	1.0	2.2	1.6	2.0	---	179	1.8	6.7	.33	.49	.31	.85
30	1.1	1.8	1.6	3.1	---	57	1.8	3.3	.28	.54	.28	.80
31	1.0	---	1.5	1.9	---	15	---	2.5	---	.40	.25	---
TOTAL	29.36	97.69	76.0	86.6	142.3	586.4	98.7	109.5	47.76	41.90	10.34	109.37
MEAN	.95	3.26	2.45	2.79	5.08	18.9	3.29	3.53	1.59	1.35	.33	3.65
MAX	1.4	16	15	14	44	179	13	22	17	8.2	.76	49
MIN	.68	.99	1.5	1.5	1.2	2.2	1.8	1.2	.28	.24	.17	.28
CFSM	.09	.30	.23	.26	.47	1.75	.30	.33	.15	.13	.03	.34
IN.	.10	.34	.26	.30	.49	2.02	.34	.38	.16	.14	.04	.38

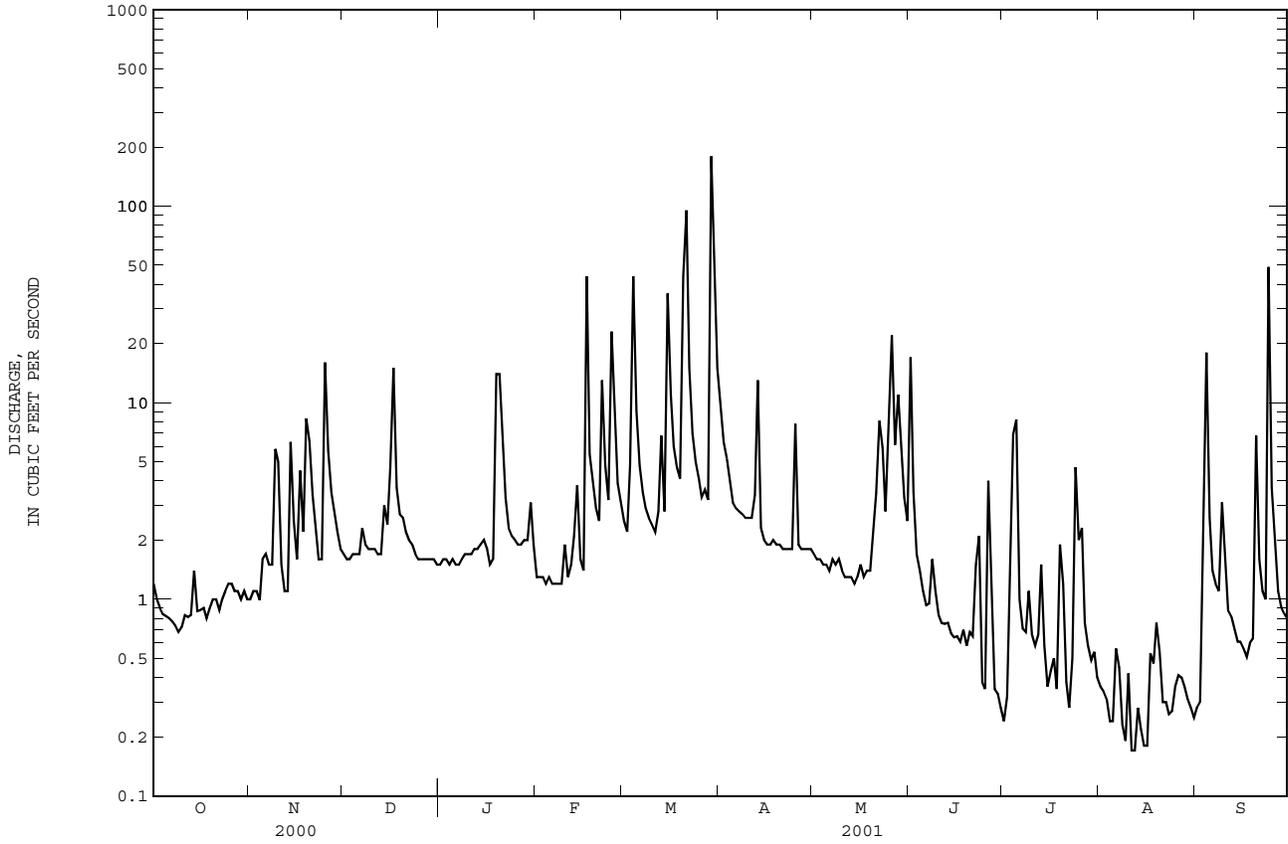
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2001, BY WATER YEAR (WY)

	1995	1996	1997	1998	1999	2000	2001
MEAN	7.65	8.10	6.99	15.2	17.9	15.4	13.2
MAX	23.0	26.1	14.0	28.9	33.4	18.9	22.0
(WY)	1996	1996	1998	1998	1995	1998	1995
MIN	.95	2.96	2.45	2.79	5.08	4.54	3.29
(WY)	2001	1999	2001	2001	2001	1999	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1995 - 2001
ANNUAL TOTAL	2724.99	1435.92	
ANNUAL MEAN	7.45	3.93	9.43
HIGHEST ANNUAL MEAN			13.6
LOWEST ANNUAL MEAN			3.93
HIGHEST DAILY MEAN	151	Mar 20	835
LOWEST DAILY MEAN	.31	Aug 30	.12
ANNUAL SEVEN-DAY MINIMUM	.75	Sep 10	.23
MAXIMUM PEAK FLOW		805	2740
MAXIMUM PEAK STAGE		9.21	9.77
INSTANTANEOUS LOW FLOW		.16*	.12*
ANNUAL RUNOFF (CFSM)	.69	.36	.87
ANNUAL RUNOFF (INCHES)	9.39	4.95	11.86
10 PERCENT EXCEEDS	15	6.3	17
50 PERCENT EXCEEDS	2.5	1.6	3.3
90 PERCENT EXCEEDS	.84	.40	.96

e Estimated.  
\* See REMARKS.

0214295600 PAW CREEK AT WILKINSON BOULEVARD NEAR CHARLOTTE, NC--Continued



## SANTEE RIVER BASIN

02143000 HENRY FORK NEAR HENRY RIVER, NC

LOCATION.--Lat 35°41'03", long 81°24'10", Catawba County, Hydrologic Unit 03050102, on left bank 325 ft downstream of bridge on Secondary Road 1124, at site of Old Link Ford, 1.2 mi downstream of Burke-Catawba County line, and 2 mi southeast of Henry River.

DRAINAGE AREA.--83.2 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1925 to November 1931, December 1941 to current year.

REVISED RECORDS.--WSP 952: 1928, 1930. WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 891.0 ft above sea level. July 1925 to November 1931, at site 450 ft upstream at same datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum discharge for period of record, from rating curve extended above 2,300 ft<sup>3</sup>/s on basis of computation of peak flow over dam at Henry River; gage height: 29.2 ft. Minimum discharge affected by regulation of unknown origin.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known: 29.2 ft, Aug. 13, 1940, at former site, from floodmarks; discharge: 31,300 ft<sup>3</sup>/s. The flood of July 16, 1916, reached a stage of about 23 ft at former site; discharge: 20,700 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	27	37	32	43	80	171	45	35	28	47	25
2	26	27	32	32	40	69	141	45	43	30	43	26
3	25	28	31	30	39	60	132	42	44	50	38	57
4	24	28	30	30	37	62	126	40	39	59	37	103
5	24	30	30	31	36	67	118	39	37	145	37	81
6	23	31	31	32	35	68	109	39	35	54	39	43
7	23	29	31	32	34	68	99	38	32	38	36	36
8	23	30	30	33	34	68	86	32	31	35	34	33
9	22	35	30	34	33	69	80	23	32	36	32	31
10	23	55	30	35	34	66	75	36	35	35	31	33
11	24	53	30	33	34	60	70	39	35	31	33	37
12	24	41	30	32	35	52	67	37	36	28	31	31
13	24	34	30	33	36	60	67	36	28	46	31	29
14	23	30	32	33	38	69	69	35	28	41	33	28
15	23	29	34	32	42	79	64	33	56	31	30	28
16	23	28	39	32	43	134	63	32	37	28	29	28
17	23	29	122	32	52	137	61	31	30	27	28	27
18	23	30	114	32	64	121	58	30	26	28	37	27
19	23	29	97	44	67	111	56	32	25	27	34	26
20	24	30	91	77	65	103	55	32	24	45	28	61
21	24	30	78	93	62	364	54	33	24	37	25	57
22	25	29	e59	87	60	282	53	34	25	31	24	38
23	26	29	e45	83	56	180	51	35	38	28	23	34
24	26	28	39	76	53	143	51	37	31	31	25	86
25	26	36	e38	68	56	131	62	37	65	55	27	96
26	27	62	37	58	74	122	66	41	53	91	25	43
27	27	64	36	49	85	110	58	42	65	105	23	30
28	27	58	e34	43	85	95	53	39	40	70	23	25
29	26	51	e32	38	---	285	48	36	32	63	24	23
30	26	42	e32	39	---	846	45	35	29	75	23	23
31	27	---	e32	44	---	253	---	33	---	57	24	---
TOTAL	760	1082	1393	1379	1372	4414	2308	1118	1090	1485	954	1245
MEAN	24.5	36.1	44.9	44.5	49.0	142	76.9	36.1	36.3	47.9	30.8	41.5
MAX	27	64	122	93	85	846	171	45	65	145	47	103
MIN	22	27	30	30	33	52	45	23	24	27	23	23
CFSM	.29	.43	.54	.53	.59	1.71	.92	.43	.44	.58	.37	.50
IN.	.34	.48	.62	.62	.61	1.97	1.03	.50	.49	.66	.43	.56

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2001,® BY WATER YEAR (WY)

	MEAN	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	107	103	125	153	186	205	184	137	116	88.6	97.2	91.6
MAX	562	392	276	380	473	583	470	322	392	203	554	594
(WY)	1930	1978	1984	1996	1960	1975	1983	1984	1947	1949	1928	1945
MIN	24.5	34.8	31.1	32.3	49.0	69.7	61.6	36.1	34.4	34.9	26.5	25.4
(WY)	2001	1932	1956	1956	2001	1985	1967	2001	1926	1986	1999	1954

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1926 - 2001®

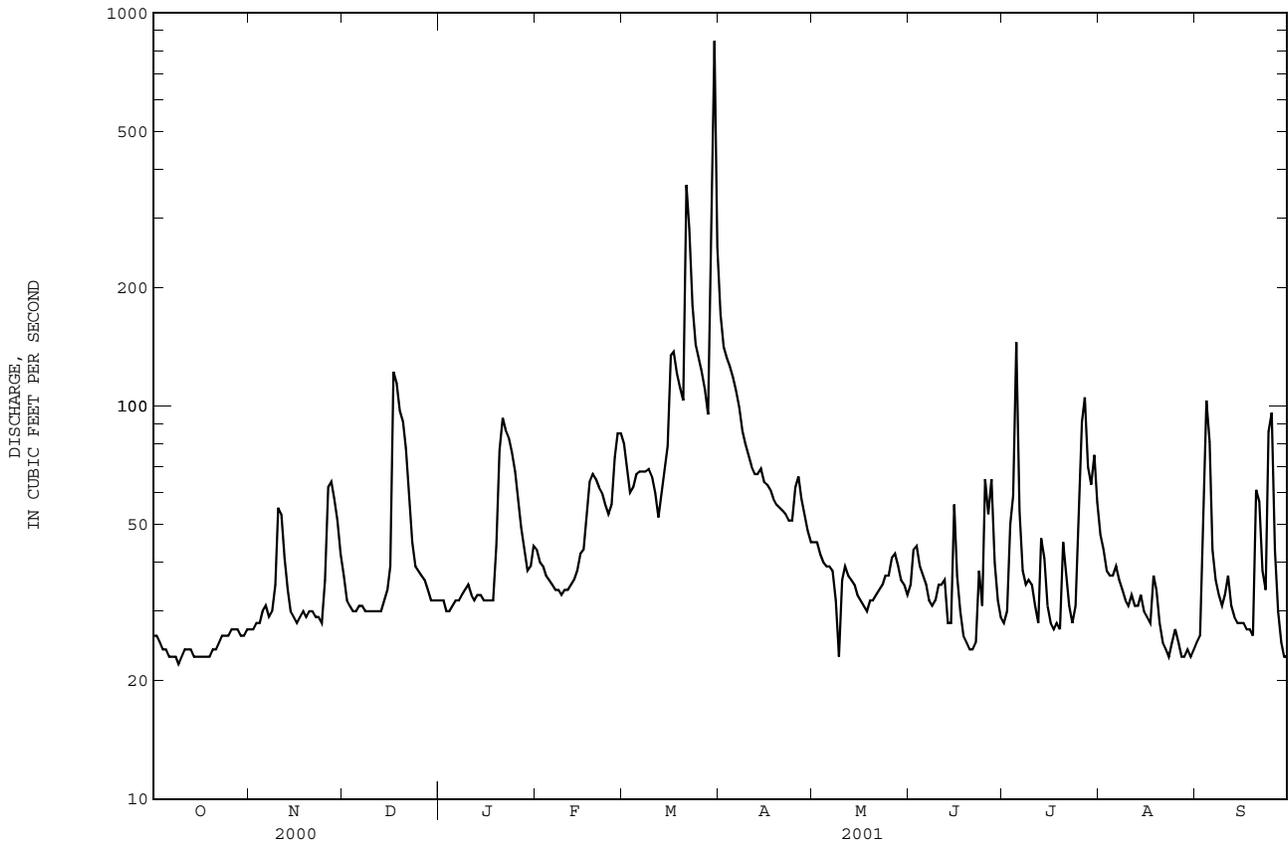
	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1926 - 2001®
ANNUAL TOTAL	22570	18600	
ANNUAL MEAN	61.7	51.0	133
HIGHEST ANNUAL MEAN			221
LOWEST ANNUAL MEAN			51.0
HIGHEST DAILY MEAN	1000	846	10100
LOWEST DAILY MEAN	19	22	4.0
ANNUAL SEVEN-DAY MINIMUM	20	23	14
MAXIMUM PEAK FLOW		2240	15300*
MAXIMUM PEAK STAGE		6.19	18.71
INSTANTANEOUS LOW FLOW		12*	3.0
ANNUAL RUNOFF (CFSM)	.74	.61	1.60
ANNUAL RUNOFF (INCHES)	10.09	8.32	21.73
10 PERCENT EXCEEDS	120	85	217
50 PERCENT EXCEEDS	48	36	92
90 PERCENT EXCEEDS	24	25	42

e Estimated.

® See PERIOD OF RECORD.

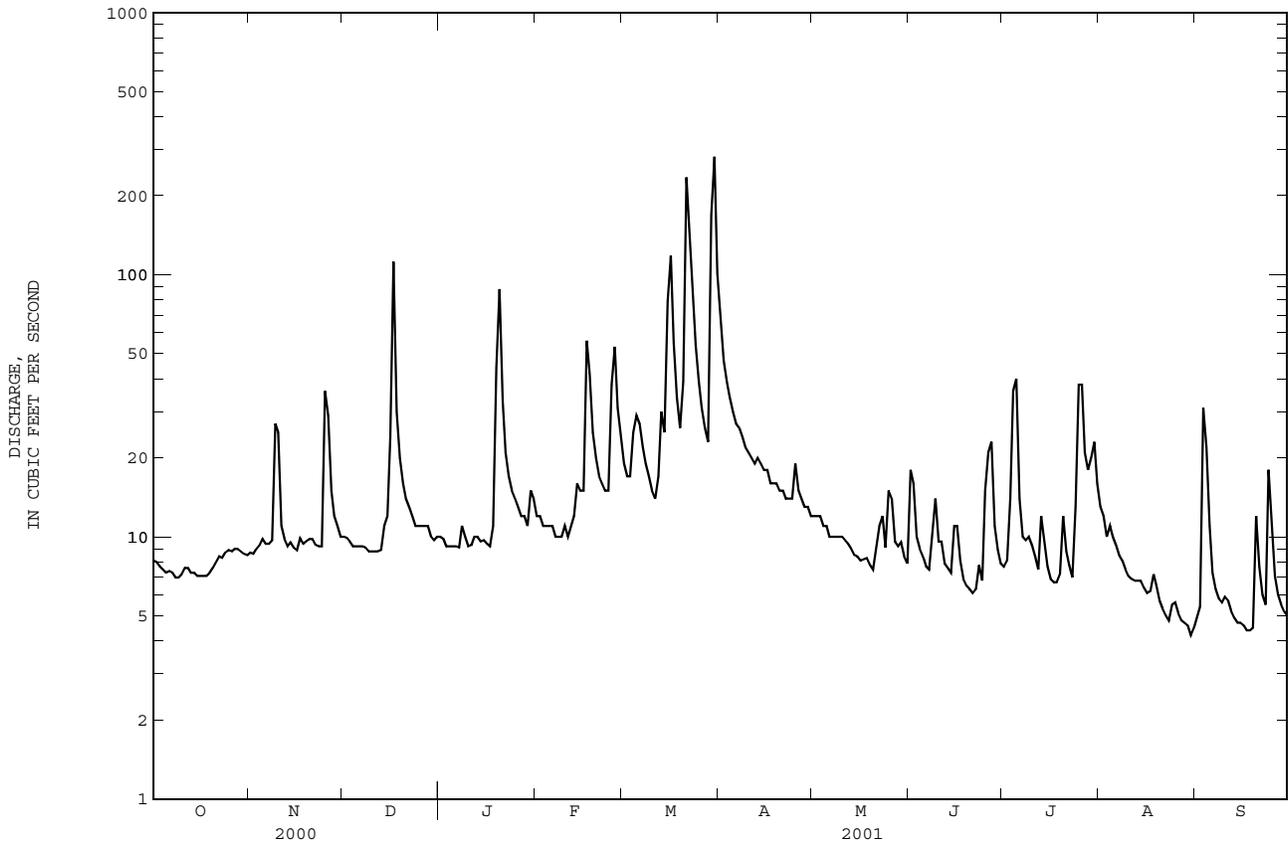
\* See REMARKS.

02143000 HENRY FORK NEAR HENRY RIVER, NC--Continued





02143040 JACOB FORK AT RAMSEY, NC--Continued



SANTEE RIVER BASIN

02143040 JACOB FORK AT RAMSEY, NC--Continued

PRECIPITATION RECORDS

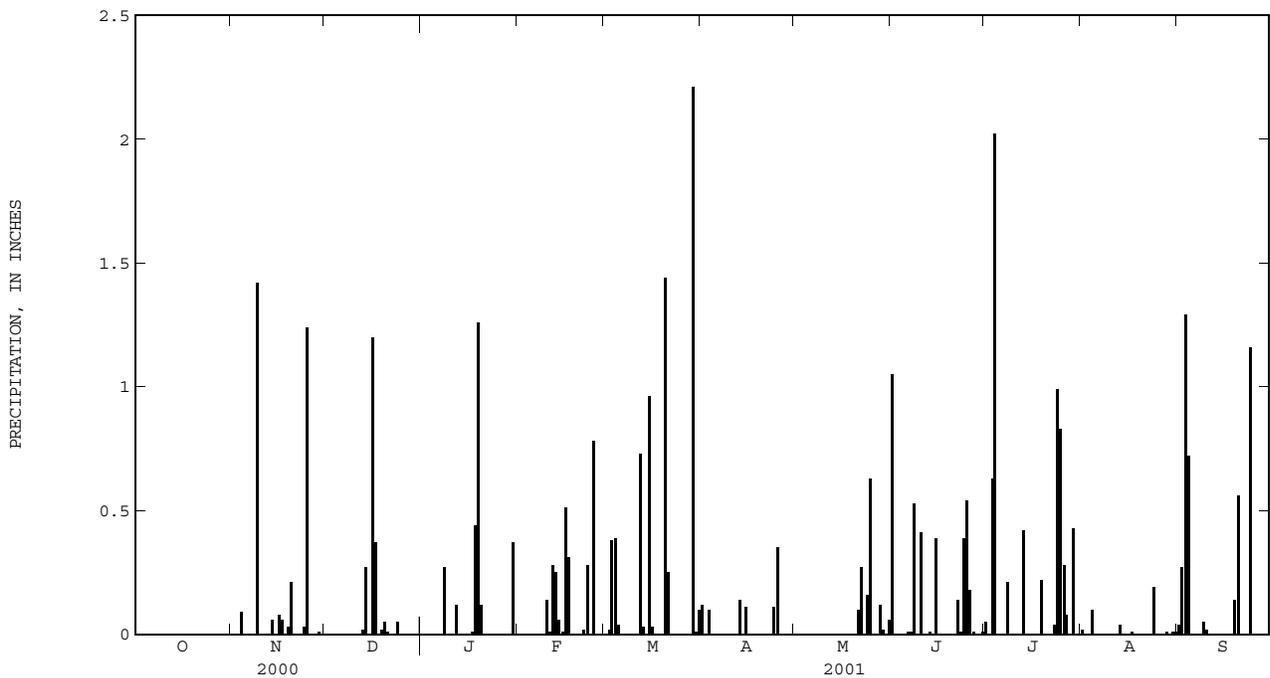
PERIOD OF RECORD.--November 2000 to September 2001.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at site.

REMARKS.--Gage is operated in cooperation with North Carolina Department of Environment and Natural Resources. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	.00	.00	.00	.00	.00	.12	.00	1.05	.05	.02	.04
2	---	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.27
3	---	.00	.00	.00	.00	.38	.10	.00	.00	.63	.00	1.29
4	---	.09	.00	.00	.00	.39	.00	.00	.00	2.02	.10	.72
5	---	.00	.00	.00	.00	.04	.00	.00	.00	.00	.00	.00
6	---	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
7	---	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
8	---	.00	.00	.27	.00	.00	.00	.00	.53	.21	.00	.00
9	---	1.42	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
10	---	.00	.00	.00	.14	.00	.00	.00	.41	.00	.00	.02
11	---	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00
12	---	.00	.00	.12	.28	.73	.00	.00	.00	.00	.00	.00
13	---	.00	.02	.00	.25	.03	.14	.00	.01	.42	.04	.00
14	---	.06	.27	.00	.06	.00	.00	.00	.00	.00	.00	.00
15	---	.00	.00	.00	.01	.96	.11	.00	.39	.00	.00	.00
16	---	.08	1.20	.00	.51	.03	.00	.00	.00	.00	.00	.00
17	---	.06	.37	.01	.31	.00	.00	.00	.00	.00	.01	.00
18	---	.00	.00	.44	.00	.00	.00	.00	.00	.00	.00	.00
19	---	.03	.02	1.26	.00	.00	.00	.00	.00	.22	.00	.14
20	---	.21	.05	.12	.00	1.44	.00	.00	.00	.00	.00	.56
21	---	.00	.01	.00	.00	.25	.00	.10	.00	.00	.00	.00
22	---	.00	.00	.00	.02	.00	.00	.27	.14	.00	.00	.00
23	---	.00	.00	.00	.28	.00	.00	.00	.01	.04	.00	.00
24	---	.03	.05	.00	.00	.00	.11	.16	.39	.99	.19	1.16
25	---	1.24	.00	.00	.78	.00	.35	.63	.54	.83	.00	.00
26	---	.00	.00	.00	.00	.00	.00	.00	.18	.28	.00	.00
27	---	.00	.00	.00	.00	.00	.00	.00	.01	.08	.00	.00
28	---	.00	.00	.00	.00	.00	.00	.12	.00	.00	.01	.00
29	---	.01	.00	.00	---	2.21	.00	.02	.00	.43	.00	.00
30	---	.00	.00	.37	---	.01	.00	.00	.01	.00	.01	.00
31	---	---	.00	.00	---	.10	---	.06	---	.00	.01	---
TOTAL	---	3.23	1.99	2.59	2.65	6.59	0.93	1.36	3.69	6.20	0.39	4.25

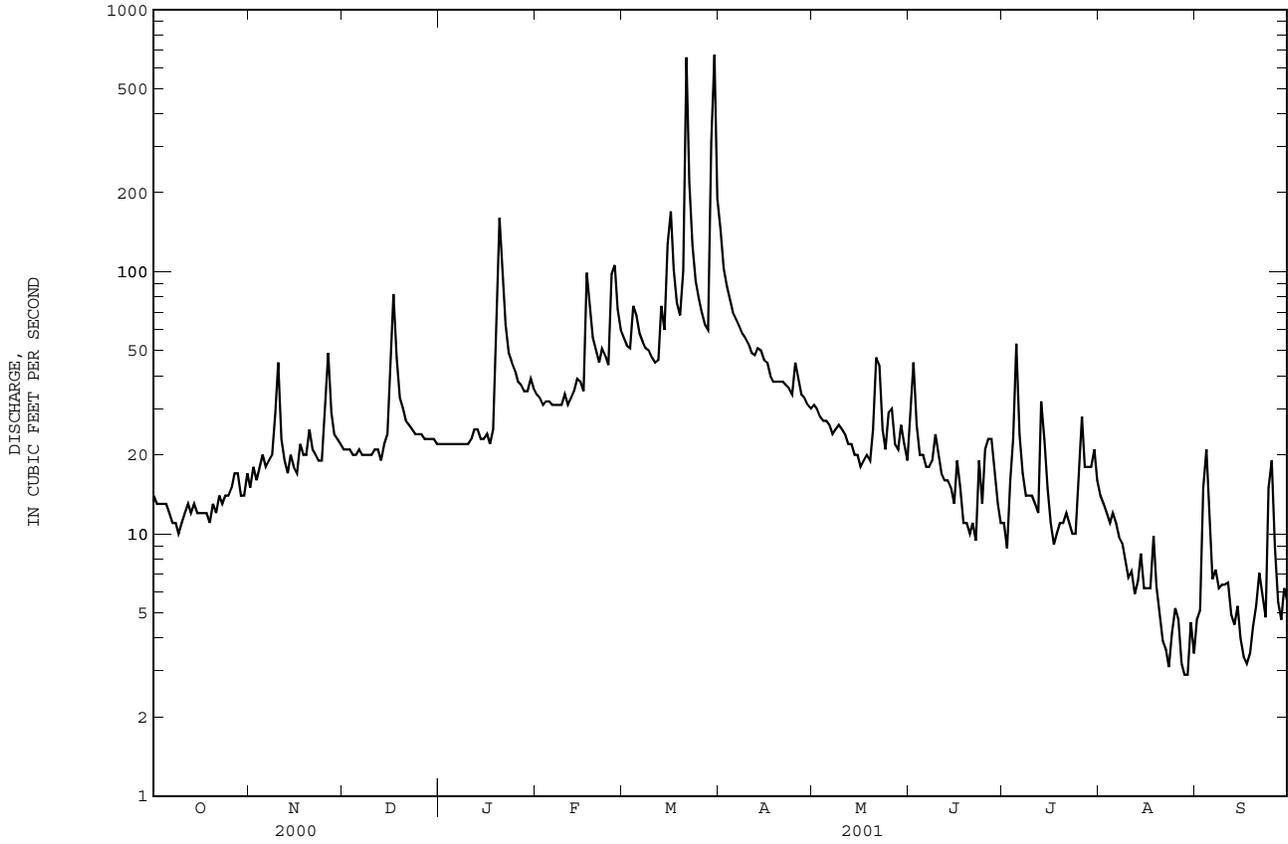




Control at Rocky River near Concord, North Carolina.



02143500 INDIAN CREEK NEAR LABORATORY, NC--Continued



SANTEE RIVER BASIN

0214399575 LONG CREEK TRIBUTARY AT HEADWATERS NEAR BESSEMER CITY, NC

LOCATION.--Lat 35°18'12", long 81°16'42", Gaston County, Hydrologic Unit 03050102, on left bank at headwaters, 1.4 mi north of Bessemer City, NC.

DRAINAGE AREA.--0.16 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1993 to September 2001 (discontinued).

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Elevation of gage is 830 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. Maximum gage height for period of record from floodmark inside of stilling well. No flow also occurred Aug. 14-19, 21, 22, 1999, Aug. 15-18, 20, 23, 24, 2000, Aug. 9-31, Sept. 1, 2, 15-19, 24, 30, 2001.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 19, 1993 reached a stage of 3.11 ft, from floodmark; discharge, 120 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.01	.03	.05	.04	.05	.11	.04	.24	.01	.02	.00
2	.02	.01	.03	.04	.04	.04	.10	.04	.05	.01	.02	.02
3	.02	.01	.03	.04	.04	.06	.10	.04	.04	.01	.01	.18
4	.02	.02	.03	.03	.04	.26	.06	.03	.04	.41	.01	.51
5	.02	.03	.03	.03	.04	.08	.06	.03	.04	.04	.02	.03
6	.02	.02	.03	.03	.03	.06	.06	.03	.02	.02	.01	.03
7	.02	.02	.03	.03	.03	.06	.06	.03	.02	.02	.01	.02
8	.02	.02	.03	.05	.03	.06	.06	.03	.03	.03	.01	.02
9	.02	.14	.03	.03	.03	.06	.06	.03	.02	.03	.00	.02
10	.02	.04	.03	.03	.04	.05	.06	.03	.02	.02	.00	.02
11	.02	.02	.03	.03	.03	.05	.05	.03	.02	.02	.00	.02
12	.02	.02	.03	.07	.06	.09	.05	.03	.02	.02	.00	.02
13	.01	.02	.03	.04	.07	.06	.06	.02	.01	.17	.00	.01
14	.02	.08	.03	.04	.04	.05	.05	.02	.01	.03	.00	.01
15	.02	.05	.03	.04	.04	.67	.05	.02	.01	.02	.00	.01
16	.01	.03	.25	.03	.08	.11	.05	.02	.01	.02	.00	.00
17	.01	.07	.49	.04	.58	.08	.05	.02	.01	.02	.00	.00
18	.02	.03	.13	.07	.09	.08	.05	.02	.01	.02	.00	.00
19	.02	.08	.10	.67	.07	.07	.05	.02	.01	.02	.00	.01
20	.02	.05	.06	.60	.06	1.9	.06	.03	.01	.02	.00	.02
21	.02	.02	.04	.36	.06	2.9	.05	.05	.01	.02	.00	.02
22	.02	.02	.04	.25	.14	.39	.06	.06	.01	.02	.00	.01
23	.01	.02	.03	.13	.03	.08	.05	.03	.01	.02	.00	.01
24	.01	.02	.03	.10	.03	.08	.05	.03	.01	.03	.00	.04
25	.02	.24	.03	.09	.47	.07	.08	.05	.04	.04	.00	.02
26	.01	.04	.03	.08	.08	.06	.05	.03	.10	.03	.00	.02
27	.02	.03	.04	.07	.05	.06	.05	.03	.02	.03	.00	.02
28	.03	.03	.05	.07	.05	.06	.05	.04	.02	.03	.00	.02
29	.03	.03	.04	.07	---	3.4	.05	.03	.01	.02	.00	.01
30	.02	.03	.05	.07	---	.25	.04	.03	.01	.02	.00	.01
31	.02	---	.05	.05	---	.13	---	.02	---	.02	.00	---
TOTAL	0.58	1.25	1.91	3.33	2.39	11.42	1.78	0.96	0.88	1.24	0.11	1.13
MEAN	.019	.042	.062	.11	.085	.37	.059	.031	.029	.040	.004	.038
MAX	.03	.24	.49	.67	.58	3.4	.11	.06	.24	.41	.02	.51
MIN	.01	.01	.03	.03	.03	.04	.04	.02	.01	.01	.00	.00
CFSM	.12	.26	.39	.67	.53	2.30	.37	.19	.18	.25	.02	.24
IN.	.13	.29	.44	.77	.56	2.66	.41	.22	.20	.29	.03	.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2001, BY WATER YEAR (WY)

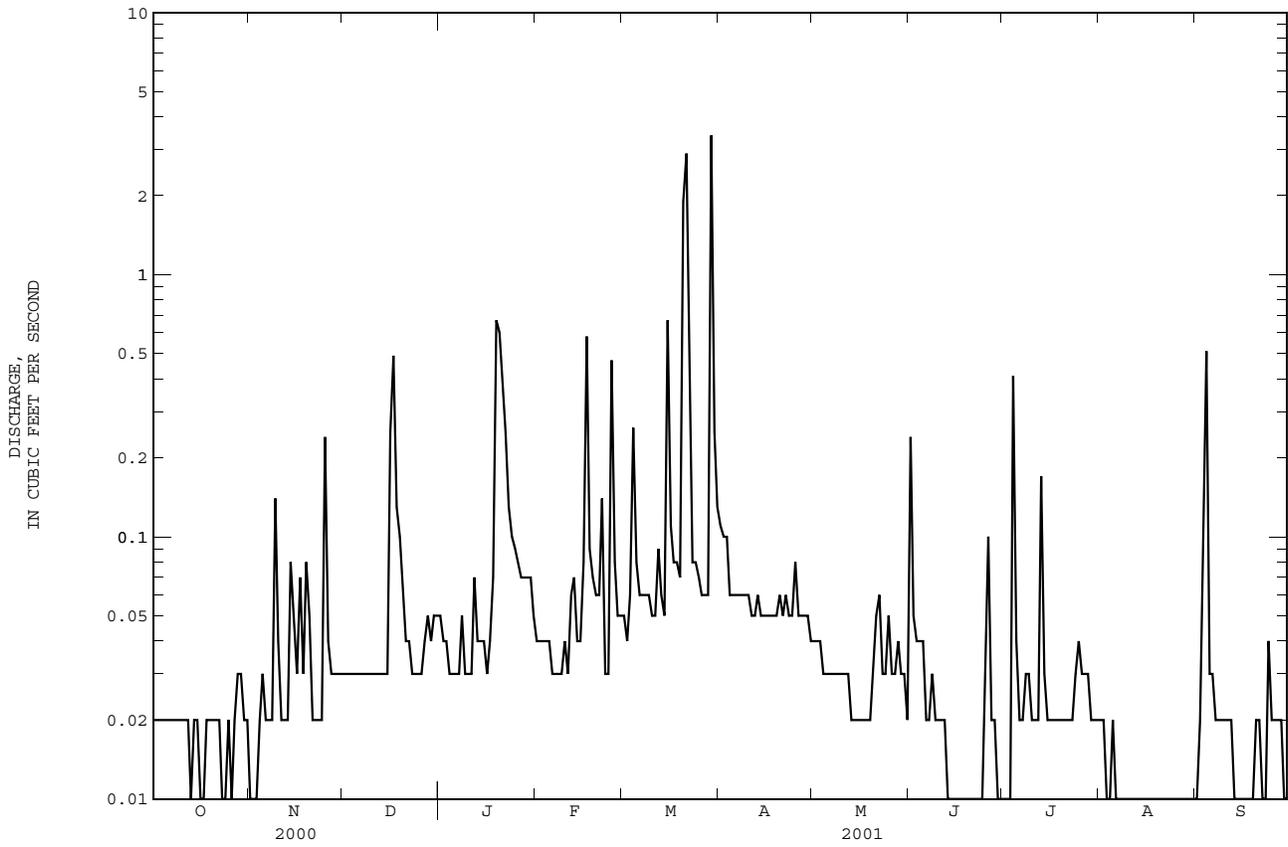
	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	.11	.10	.11	.29	.26	.23	.12	.077
MAX	.38	.42	.24	.64	.43	.38	.20	.12
(WY)	1996	1996	1998	1998	1997	2000	2000	1995
MIN	.019	.036	.062	.11	.085	.10	.052	.031
(WY)	2001	1999	2001	2001	2001	1999	1995	2001

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1994 - 2001

ANNUAL TOTAL	39.64	26.98	
ANNUAL MEAN	.11	.074	.14
HIGHEST ANNUAL MEAN			.21
LOWEST ANNUAL MEAN			.074
HIGHEST DAILY MEAN	6.7 Mar 20	3.4 Mar 29	9.0 Aug 27 1995
LOWEST DAILY MEAN	.00 Aug 15	.00 Aug 9	.00 Aug 13 1999
ANNUAL SEVEN-DAY MINIMUM	.00 Aug 14	.00 Aug 9	.00 Aug 13 1999
MAXIMUM PEAK FLOW		26 Mar 29	119 Apr 28 1997
MAXIMUM PEAK STAGE		2.28 Mar 29	3.10* Apr 28 1997
INSTANTANEOUS LOW FLOW		.00* Aug 9	.00* Aug 13 1999
ANNUAL RUNOFF (CFSM)	.68	.46	.87
ANNUAL RUNOFF (INCHES)	9.22	6.27	11.84
10 PERCENT EXCEEDS	.13	.08	.18
50 PERCENT EXCEEDS	.05	.03	.05
90 PERCENT EXCEEDS	.01	.01	.02

\* See REMARKS.

0214399575 LONG CREEK TRIBUTARY AT HEADWATERS NEAR BESSEMER CITY, NC--Continued



SANTEE RIVER BASIN

0214399580 LONG CREEK TRIBUTARY BELOW HEADWATERS NEAR BESSEMER CITY, NC

LOCATION.--Lat 35°18'20", long 81°16'32", Gaston County, Hydrologic Unit 03050102, on left bank downstream end of culvert, 0.3 mi below headwaters and 1.6 mi north of Bessemer City, NC.

DRAINAGE AREA.--0.22 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1993 to September 2001 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 805 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. Maximum gage height for period of record from high-water mark in gage well. Maximum discharge for period of record from rating curve extended above 549 ft<sup>3</sup>/s. No flow also occurred Aug. 17-22, 1999, Aug. 7-31, Sept. 1, 2, 2001.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 19, 1993 reached a stage of 5.29 ft, from floodmark; discharge, 549 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	e.03	e.18	.18	.20	.24	.15	.08	1.1	.07	e.03	.00
2	.03	e.03	e.18	.18	.18	.24	.14	.07	.08	.06	e.02	.00
3	.03	e.04	e.18	.17	.18	.30	.14	.07	.07	.05	.02	.57
4	.03	e.05	e.18	.17	.18	1.0	.13	.07	.07	1.0	.02	2.4
5	.03	e.07	e.18	.18	.14	.35	.10	.07	.07	.11	.02	.09
6	.03	e.05	e.18	.18	.14	.24	.10	.08	.07	.09	.02	.09
7	.03	e.04	e.18	.18	.14	.24	.10	.08	.06	.09	.01	.09
8	.03	e.03	.18	.26	.14	.24	.11	.08	.07	.09	.01	.09
9	.03	e.60	.18	.18	.14	.24	.14	.08	.07	.09	.01	.09
10	.03	e.30	.18	.18	.23	.24	.14	.08	.06	.08	.01	.09
11	.03	e.10	.17	.18	.24	.24	.14	.08	.06	.07	.01	.09
12	.03	e.07	.18	.31	.27	.35	.14	.08	.06	.07	.00	.09
13	.03	e.05	.18	.18	.34	.26	.14	.08	.06	.66	.01	.09
14	.03	e.20	.20	.18	.33	.24	.11	.08	.06	.10	.01	.09
15	.03	e.10	.18	.18	.26	2.7	.13	.08	.06	.09	.01	.09
16	.03	e.08	1.2	.18	.40	.36	.10	.08	.06	.09	.01	.09
17	e.02	e.10	1.6	.18	2.7	.29	.10	.08	.06	.09	.00	.09
18	e.03	.24	.20	.32	.24	.24	.10	.08	.05	.08	.01	.08
19	e.03	.56	.22	3.0	.19	.25	.10	.08	.05	.09	.01	.09
20	e.03	.43	.18	1.3	.18	6.2	.10	.08	.04	.09	.00	.09
21	e.03	.29	.18	.34	.18	2.2	.10	.12	.04	.08	.00	.09
22	e.03	.24	.18	.31	.54	.28	.09	.13	.03	.08	.00	.09
23	e.02	.24	.18	.25	.20	.20	.08	.07	.03	.08	.00	.09
24	e.02	.24	.18	.24	.18	.18	.09	.07	.05	.09	.00	.18
25	e.03	1.8	.18	.24	2.0	.18	.13	.09	.10	.12	.00	.08
26	e.02	.34	.18	.24	.30	.18	.08	.07	.27	.09	.00	.08
27	e.03	e.20	.18	.24	.24	.18	.08	.06	.08	e.08	.00	.08
28	e.04	e.19	.18	.24	.24	.18	.08	.07	.07	e.06	.00	.08
29	e.04	e.19	.18	.24	---	7.3	.08	.07	.07	e.05	.00	.08
30	e.03	e.19	.18	.29	---	.40	.08	.06	.07	e.04	.00	.08
31	e.03	---	.18	.24	---	.21	---	.06	---	e.03	.00	---
TOTAL	0.91	7.09	8.09	10.74	10.70	25.95	3.30	2.43	3.09	3.96	0.24	5.33
MEAN	.029	.24	.26	.35	.38	.84	.11	.078	.10	.13	.008	.18
MAX	.04	1.8	1.6	3.0	2.7	7.3	.15	.13	1.1	1.0	.03	2.4
MIN	.02	.03	.17	.17	.14	.18	.08	.06	.03	.03	.00	.00
CFSM	.13	1.07	1.19	1.57	1.74	3.80	.50	.36	.47	.58	.04	.81
IN.	.15	1.20	1.37	1.82	1.81	4.39	.56	.41	.52	.67	.04	.90

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2001, BY WATER YEAR (WY)

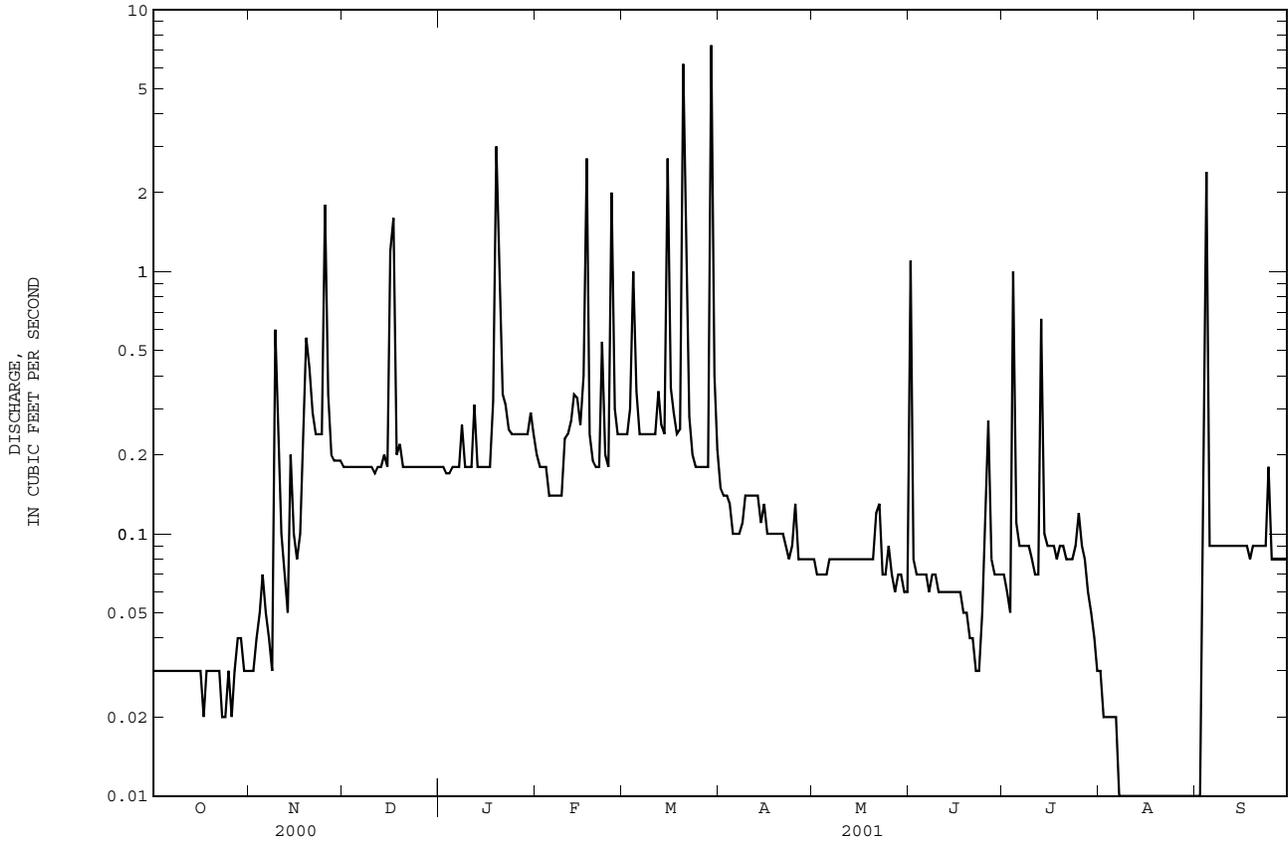
MEAN	.19	.22	.19	.45	.43	.39	.27	.12	.22	.14	.21	.13
MAX	.80	.91	.38	.77	.74	.84	.80	.29	.83	.24	.70	.25
(WY)	1996	1996	1998	1995	1997	2001	1997	1995	1995	1994	1994	1995
MIN	.029	.037	.092	.22	.20	.15	.070	.075	.092	.092	.008	.051
(WY)	2001	1999	2000	2000	1999	1999	1995	1996	2000	2000	2001	1999

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1994 - 2001

ANNUAL TOTAL	69.38	81.83	
ANNUAL MEAN	.19	.22	.25
HIGHEST ANNUAL MEAN			.35 1995
LOWEST ANNUAL MEAN			.12 1999
HIGHEST DAILY MEAN	7.2 Mar 20	7.3 Mar 29	19 Apr 28 1997
LOWEST DAILY MEAN	.01 Aug 15	.00 Aug 12	.00 Aug 16 1999
ANNUAL SEVEN-DAY MINIMUM	.01 Aug 12	.00 Aug 20	.00 Aug 16 1999
MAXIMUM PEAK FLOW		31 Mar 29	557* Apr 28 1997
MAXIMUM PEAK STAGE		1.77 Mar 29	5.40* Apr 28 1997
INSTANTANEOUS LOW FLOW		.00* Aug 7	.00* Aug 16 1999
ANNUAL RUNOFF (CFSM)	.86	1.02	1.12
ANNUAL RUNOFF (INCHES)	11.73	13.84	15.19
10 PERCENT EXCEEDS	.24	.29	.31
50 PERCENT EXCEEDS	.09	.09	.08
90 PERCENT EXCEEDS	.03	.03	.03

e Estimated.  
\* See REMARKS.

0214399580 LONG CREEK TRIBUTARY BELOW HEADWATERS NEAR BESSEMER CITY, NC--Continued



SANTEE RIVER BASIN

02144000 LONG CREEK NEAR BESSEMER CITY, NC

LOCATION.--Lat 35°18'23", long 81°14'05", Gaston County, Hydrologic Unit 03050102, on right bank 700 ft upstream from bridge on Secondary Road 1456, 3.3 mi northeast of Bessemer City, and 8.2 mi upstream from mouth.

DRAINAGE AREA.--31.8 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1952 to current year. Monthly discharge only for some periods, published in WSP 1723.

REVISED RECORDS.--WSP 1723: 1959-60 (M). WSP 1904: 1959-60. WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 706.1 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Bessemer City diverts water upstream from gaging station for water supply and returns treated effluent to South Fork Catawba River downstream of mouth of Long Creek causing some diurnal fluctuation; a daily average of 1.46 ft<sup>3</sup>/s was diverted during the year. Minimum discharge for current water year also occurred Aug. 29.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1916 reached a stage of 26 ft, from high-water mark on left bank 1,500 ft upstream, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	3.2	6.8	e8.0	12	18	48	8.5	22	4.1	2.3	1.7
2	4.3	3.5	6.7	e7.9	11	17	35	9.0	21	2.8	2.0	1.6
3	3.7	3.5	6.6	e7.8	11	19	32	7.3	8.9	4.8	1.8	1.4
4	3.6	3.6	6.2	e7.8	11	37	28	6.8	7.3	11	1.8	2.7
5	3.4	4.1	6.3	e8.0	11	30	25	6.5	6.6	15	1.8	8.3
6	3.1	4.1	6.4	7.9	10	22	24	6.4	5.9	4.5	1.6	3.2
7	4.3	3.7	6.3	7.7	10	20	23	6.1	6.2	3.7	1.4	2.4
8	3.5	4.3	7.4	11	10	17	21	6.2	9.8	3.0	1.2	2.0
9	2.7	7.9	6.2	10	10	16	19	6.7	7.6	3.3	1.1	1.8
10	2.7	16	6.1	8.4	13	15	18	6.0	6.6	3.8	1.0	1.8
11	4.2	6.2	6.2	8.1	11	15	17	5.5	5.6	3.4	1.1	1.5
12	3.1	4.9	6.6	11	11	15	16	5.1	5.0	2.2	1.2	1.3
13	3.0	4.7	6.4	10	12	23	16	4.9	6.3	11	1.2	1.2
14	2.8	6.7	7.6	9.1	16	16	15	4.6	4.6	4.3	1.8	1.2
15	2.7	6.1	7.5	9.1	13	54	15	4.8	3.9	2.4	2.3	1.0
16	2.6	5.2	16	8.8	12	45	15	4.9	3.4	1.9	1.8	1.1
17	2.5	7.6	54	8.3	72	31	13	5.1	2.9	1.8	1.4	1.1
18	3.2	6.7	22	10	30	25	12	5.6	2.5	1.8	2.2	1.1
19	2.7	7.2	16	46	21	21	12	4.7	2.5	1.6	2.8	1.4
20	2.5	9.7	13	81	17	87	12	4.3	2.8	4.9	2.6	3.2
21	2.5	7.7	11	38	15	297	11	6.4	2.6	2.5	2.0	4.6
22	2.7	6.4	11	26	23	60	11	10	2.4	1.9	2.3	2.5
23	3.2	6.1	9.6	20	21	39	11	10	4.9	1.7	1.4	1.5
24	3.0	5.9	9.6	17	18	32	10	5.4	3.5	2.4	.99	3.4
25	2.9	17	9.2	15	47	28	17	7.4	3.5	5.6	1.0	3.3
26	3.1	19	e8.6	13	38	24	12	9.0	14	8.2	.80	1.5
27	3.3	10	8.9	13	25	22	10	5.4	6.4	4.1	.75	1.3
28	3.2	9.6	8.8	13	21	21	9.5	5.3	3.6	3.5	.69	1.4
29	3.1	7.7	8.4	12	---	250	9.0	6.6	3.1	3.4	.99	1.8
30	3.5	7.3	8.2	15	---	247	8.7	5.2	2.6	3.5	1.4	1.5
31	3.2	---	e8.0	13	---	59	---	4.4	---	2.8	1.7	---
TOTAL	98.5	215.6	321.6	480.9	532	1622	525.2	194.1	188.0	130.9	48.42	100.7
MEAN	3.18	7.19	10.4	15.5	19.0	52.3	17.5	6.26	6.27	4.22	1.56	3.36
MAX	4.3	19	54	81	72	297	48	10	22	15	2.8	27
MIN	2.5	3.2	6.1	7.7	10	15	8.7	4.3	2.4	1.6	.69	1.0
CFSM	.10	.23	.33	.49	.60	1.65	.55	.20	.20	.13	.05	.11
IN.	.12	.25	.38	.56	.62	1.90	.61	.23	.22	.15	.06	.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2001, BY WATER YEAR (WY)

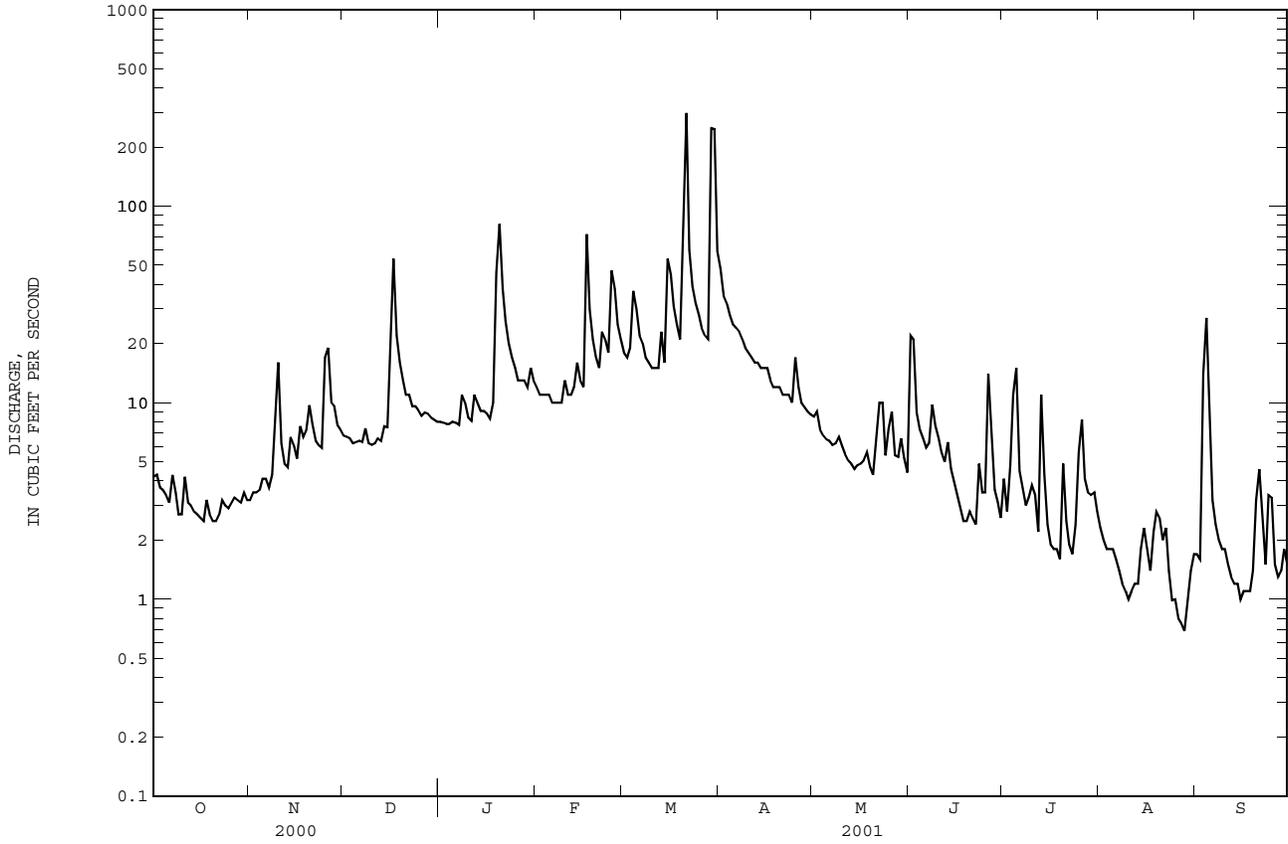
MEAN	25.3	25.8	33.2	49.5	58.1	61.6	47.2	31.7	24.8	17.8	19.7	15.3
MAX	147	128	85.2	135	137	146	142	89.2	72.5	65.9	81.7	59.3
(WY)	1972	1958	1977	1993	1960	1993	1958	1975	1962	1975	1985	1971
MIN	2.37	7.09	7.37	8.17	19.0	22.8	14.3	6.26	3.74	2.41	1.56	1.99
(WY)	1955	1954	1956	1956	2001	1955	1967	2001	1986	1986	2001	1954

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1953 - 2001

ANNUAL TOTAL	6083.7	4457.92	
ANNUAL MEAN	16.6	12.2	34.1
HIGHEST ANNUAL MEAN			58.6
LOWEST ANNUAL MEAN			12.2
HIGHEST DAILY MEAN	490	Mar 20	2940
LOWEST DAILY MEAN	1.3	Aug 17	.69
ANNUAL SEVEN-DAY MINIMUM	1.5	Aug 12	.95
MAXIMUM PEAK FLOW			872
MAXIMUM PEAK STAGE			5.06
INSTANTANEOUS LOW FLOW			.58*
ANNUAL RUNOFF (CFSM)	.52		.38
ANNUAL RUNOFF (INCHES)	7.12		5.21
10 PERCENT EXCEEDS	30		22
50 PERCENT EXCEEDS	8.1		6.6
90 PERCENT EXCEEDS	2.7		1.8

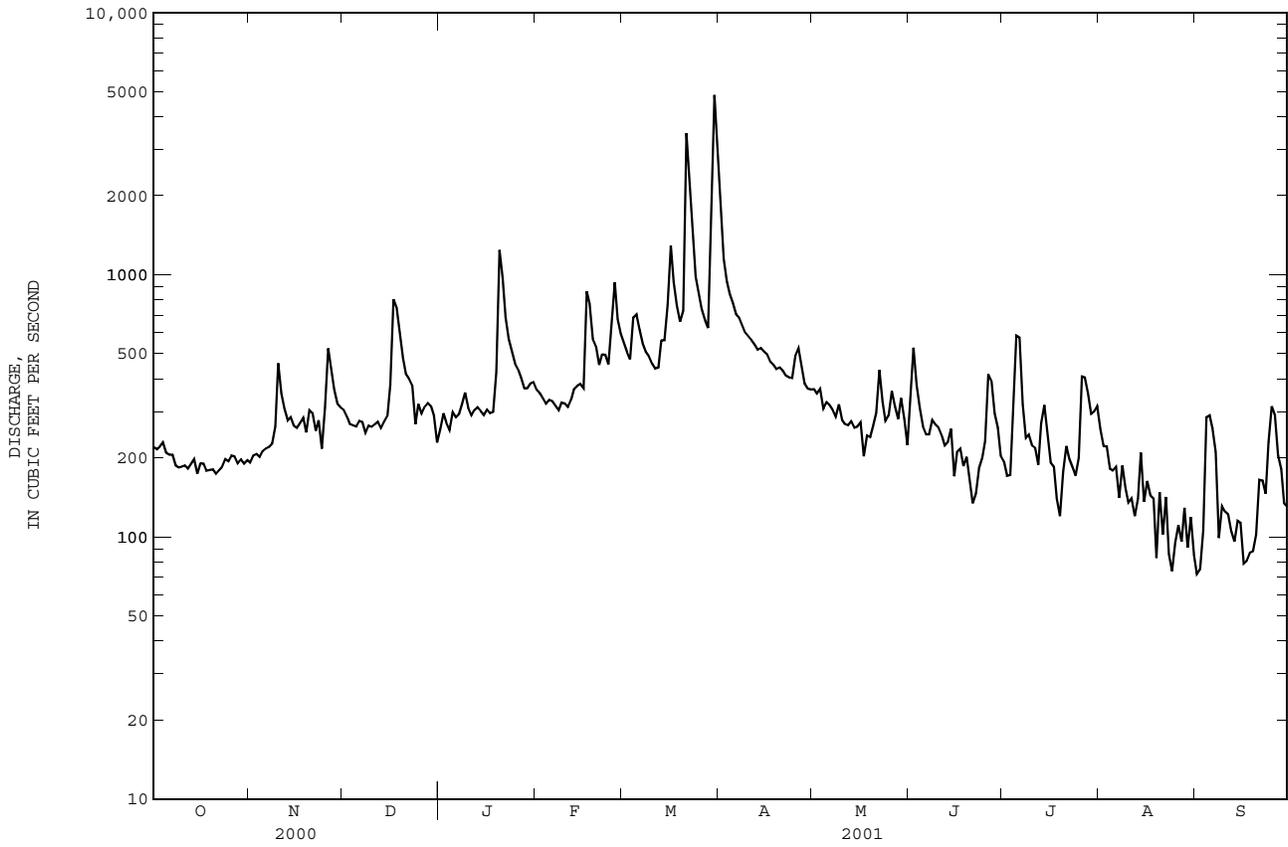
e Estimated.  
\* See REMARKS.

02144000 LONG CREEK NEAR BESSEMER CITY, NC--Continued





02145000 SOUTH FORK CATAWBA RIVER AT LOWELL, NC--Continued



SANTEE RIVER BASIN

0214620760 CRN03

LOCATION.--Lat 35°16'32", long 80°47'05", Mecklenburg County, Hydrologic Unit 03050103, Irwin Creek at Starita Road at Charlotte, NC.

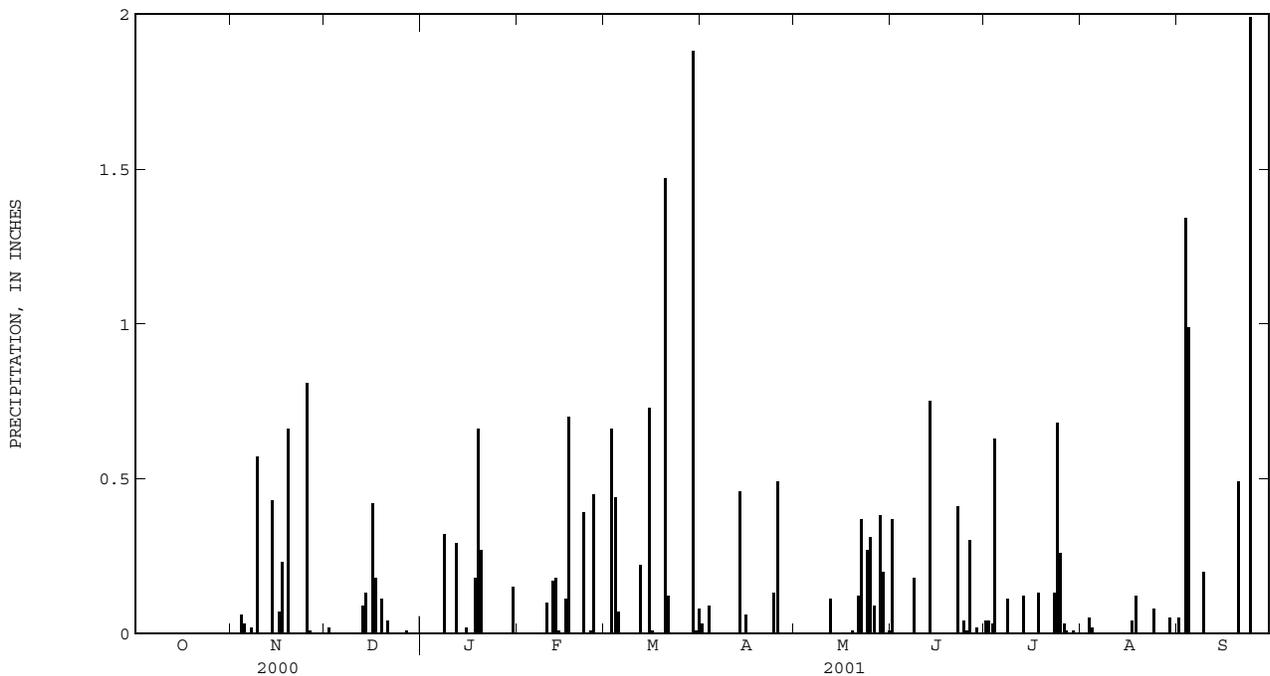
PERIOD OF RECORD.--October 1992 to current year. Records for period October 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.03	.00	.37	.04	.00	.05
2	.00	.00	.02	.00	.00	.00	.00	.00	.00	.04	.00	.00
3	.00	.00	.00	.00	.00	.66	.09	.00	.00	.03	.05	1.34
4	.00	.06	.00	.00	.00	.44	.00	.00	.00	.63	.02	.99
5	.00	.03	.00	.00	.00	.07	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.32	.00	.00	.00	.00	.18	.11	.00	.00
9	.00	.57	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20
10	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	---	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	---	.00
12	.00	.00	.00	.29	.17	.22	.00	.11	.00	.00	---	.00
13	.00	.00	.09	.00	.18	.00	.46	.00	.75	.12	---	.00
14	.00	.43	.13	.00	.01	.00	.00	.00	.00	.00	---	.00
15	.00	.00	.00	.02	.00	.73	.06	.00	.00	.00	---	.00
16	.00	.07	.42	.00	.11	.01	.00	.00	.00	.00	.00	.00
17	.00	.23	.18	.00	.70	.00	.00	.00	.00	.00	.04	.00
18	.00	.00	.00	.18	.00	.00	.00	.00	.00	.13	.12	.00
19	.00	.66	.11	.66	.00	.00	.00	.01	.00	.00	.00	.00
20	.00	.00	.00	.27	.00	1.47	.00	.00	.00	.00	.00	.49
21	.00	.00	.04	.00	.00	.12	.00	.12	.00	.00	.00	.00
22	.00	.00	.00	.00	.39	.00	.00	.37	.41	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13	.00	.00
24	.00	.00	.00	.00	.01	.00	.13	.27	.04	.68	.08	1.99
25	.00	.81	.00	.00	.45	.00	.49	.31	.01	.26	.00	.00
26	.00	.01	.00	.00	.00	.00	.00	.09	.30	.03	.00	.00
27	.00	.00	.01	.00	.00	.00	.00	.00	.00	.01	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.38	.02	.00	.00	.00
29	.00	.00	.00	.00	---	1.88	.00	.20	.00	.01	.05	.00
30	.00	.00	.00	.15	---	.01	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.08	---	.01	---	.00	.00	---
TOTAL	0.00	2.89	1.00	1.89	2.12	5.69	1.26	1.87	2.08	2.22	---	5.06





Gaging station at Little River near Star, North Carolina.

SANTEE RIVER BASIN

02146211 IRWIN CREEK AT STATESVILLE AVENUE AT CHARLOTTE, NC

LOCATION.--Lat 35°15'43", long 80°50'15", Mecklenburg County, Hydrologic Unit 03050103, on right bank 50 ft upstream from bridge on Statesville Avenue (U.S. Highway 21), 1,000 ft upstream from Kennedy Branch, 0.2 mi upstream from Interstate Highway 77, and 2.5 mi north of Trade and Tryon Street intersection in downtown Charlotte.

DRAINAGE AREA.--5.97 mi<sup>2</sup>.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1969-80, October 1981 to September 1994, November 1997 to current year.

REVISED RECORDS.--WDR NC-84-1: 1982.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 656.85 ft above sea level (levels by City of Charlotte). Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. A 140-acre solid-waste landfill, used 1940 to 1970, is located just upstream from station. No flow for parts of Aug. 1,3,4, 1987, occurred as a result of upstream construction; minimum discharge not affected by construction: 0.12 ft<sup>3</sup>/s, Aug. 30,31, 1987. Minimum discharge for current water year also occurred Aug. 22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	.89	.94	1.0	1.5	1.8	6.0	1.6	6.4	.45	.37	.38
2	1.0	.86	.91	1.0	1.5	1.7	4.2	1.6	1.8	.55	.44	.28
3	.98	.88	.88	.95	1.4	6.9	4.6	1.6	1.1	.70	.49	26
4	.97	.86	.84	.97	1.4	35	3.5	1.5	.93	11	.59	27
5	.95	1.1	.90	1.0	1.5	5.9	2.9	1.5	.79	4.4	.47	2.5
6	.94	.84	.90	1.4	1.5	2.7	2.8	1.4	.73	1.1	.52	1.0
7	.92	.92	.91	3.3	1.5	1.9	2.8	1.4	.75	.67	e.40	.58
8	.86	.94	.88	7.2	1.5	1.7	2.6	1.4	2.2	1.1	e.42	.45
9	.84	5.1	.87	1.5	1.5	1.5	2.3	1.5	.84	.71	e.45	1.5
10	.89	3.4	.81	1.1	2.2	1.4	2.2	1.5	.68	.61	.38	.49
11	.92	1.2	.84	1.1	1.3	1.3	2.1	1.4	.64	.53	5.0	.38
12	.84	1.1	.85	5.7	2.7	3.0	2.0	2.0	.56	.53	.79	.34
13	.81	1.1	.97	3.0	2.6	2.3	13	1.2	19	.98	.30	.31
14	.83	7.3	2.4	2.0	3.5	1.4	3.0	1.2	4.4	.45	.29	.35
15	.81	1.7	1.0	2.1	1.8	22	2.8	1.2	1.3	.36	.25	.30
16	.80	1.3	5.6	1.8	1.8	4.8	2.2	1.2	.81	.37	.26	.35
17	.84	5.2	12	1.7	35	2.6	2.1	1.1	.62	.49	.24	.44
18	.81	1.6	1.9	3.3	3.1	1.9	2.0	1.2	.54	.77	2.3	.45
19	.84	8.9	2.5	20	2.0	1.6	1.9	1.1	.51	.61	.78	.50
20	.89	4.6	1.8	12	1.7	45	1.9	1.2	.51	.39	.24	6.1
21	.90	2.0	1.3	4.0	1.5	52	1.8	2.3	.48	.26	.18	.50
22	.87	1.4	1.3	2.1	11	6.1	1.8	5.6	6.0	.22	.20	.37
23	.83	1.3	1.1	1.7	2.8	3.6	1.9	1.8	1.8	.86	.22	.34
24	.87	1.2	1.1	1.5	2.0	2.7	2.8	6.0	.77	8.9	.50	68
25	.89	20	1.1	1.4	16	2.3	13	3.1	.97	2.3	.20	3.0
26	.90	3.4	1.0	1.4	4.6	2.0	2.4	8.2	4.5	4.4	.23	1.2
27	.89	1.6	1.1	1.4	2.6	1.9	1.9	1.6	.92	.62	.32	.79
28	.92	1.2	1.1	1.3	2.2	1.8	1.7	8.1	.81	.53	.53	.63
29	.84	1.0	1.1	1.3	---	118	1.6	5.7	.61	.49	.51	.53
30	.84	.98	1.0	2.9	---	29	1.7	1.5	.47	.43	.23	.47
31	.85	---	1.0	1.6	---	7.9	---	1.1	---	.36	.20	---
TOTAL	27.34	83.87	50.90	92.72	113.7	373.7	97.5	72.8	62.44	46.14	18.30	145.53
MEAN	.88	2.80	1.64	2.99	4.06	12.1	3.25	2.35	2.08	1.49	.59	4.85
MAX	1.0	20	12	20	35	118	13	8.2	19	11	5.0	68
MIN	.80	.84	.81	.95	1.3	1.3	1.6	1.1	.47	.22	.18	.28
IN.	.17	.52	.32	.58	.71	2.33	.61	.45	.39	.29	.11	.91

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2001,® BY WATER YEAR (WY)

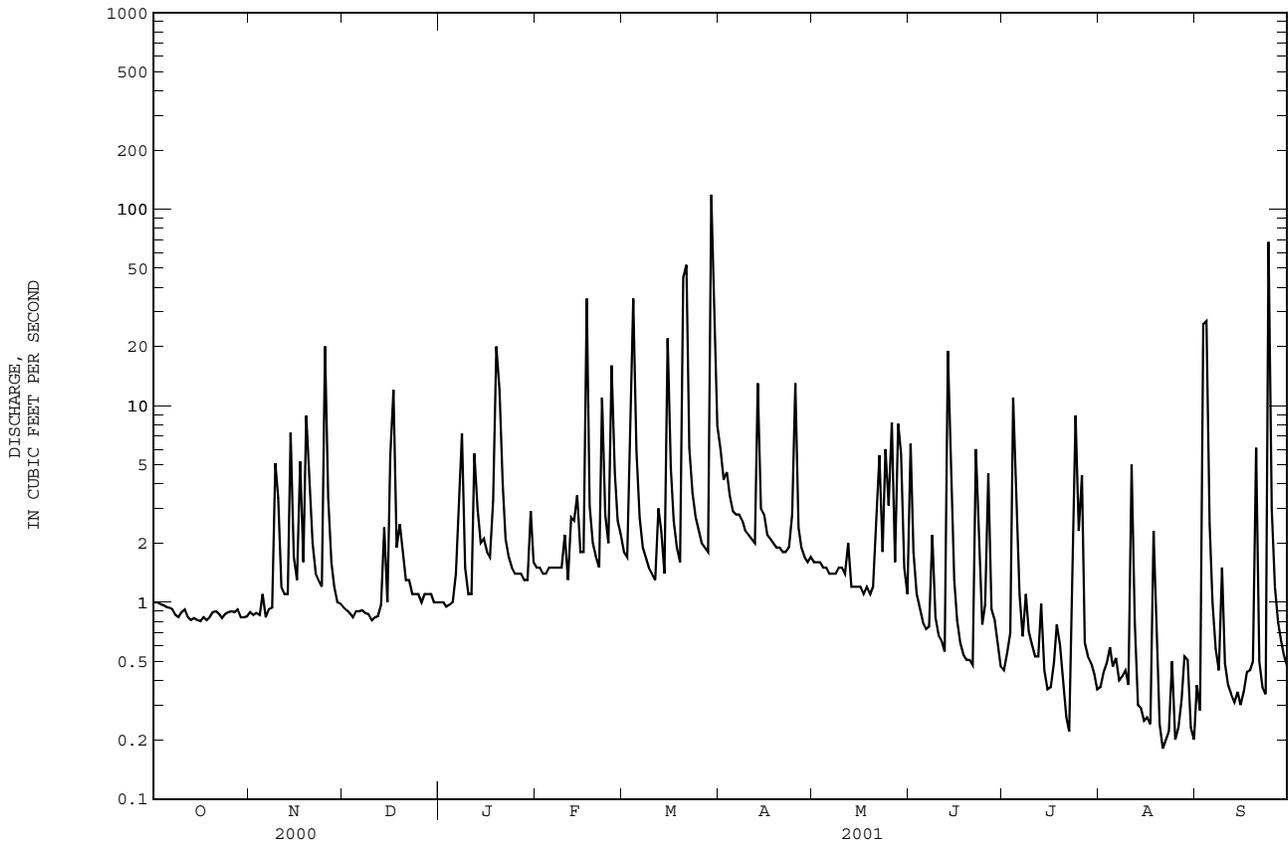
	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	
MEAN	5.09	6.09	6.81	11.2	13.6	13.7	7.57	6.21	5.88	3.54	3.96	3.90										
MAX	23.8	27.9	21.3	22.9	38.8	30.6	16.0	16.5	24.9	8.15	11.3	16.2										
(WY)	1991	1986	1984	1993	1995	1993	1998	1990	1982	1984	1985	1987										
MIN	.88	1.08	1.64	2.99	4.06	2.99	2.71	1.94	.88	.93	.39	.47										
(WY)	2001	1982	2001	2001	2001	1985	1986	1986	1986	1986	1987	1983										

SUMMARY STATISTICS

	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1981 - 2001®	
ANNUAL TOTAL	1840.19		1184.94			
ANNUAL MEAN	5.03		3.25		7.09	
HIGHEST ANNUAL MEAN					10.7	
LOWEST ANNUAL MEAN					3.25	
HIGHEST DAILY MEAN	101	Sep 23	118	Mar 29	388	Nov 21 1985
LOWEST DAILY MEAN	.44	Aug 16	.18	Aug 21	.16	Aug 1 1986
ANNUAL SEVEN-DAY MINIMUM	.65	Aug 11	.25	Aug 20	.25	Aug 20 2001
MAXIMUM PEAK FLOW			519		1430	
MAXIMUM PEAK STAGE			4.00		7.58	
INSTANTANEOUS LOW FLOW			.14*		.00*	
ANNUAL RUNOFF (INCHES)	11.47		7.38		16.13	
10 PERCENT EXCEEDS	9.0		5.7		14	
50 PERCENT EXCEEDS	1.7		1.2		2.4	
90 PERCENT EXCEEDS	.78		.44		.71	

e Estimated.  
® See PERIOD OF RECORD.  
\* See REMARKS.

02146211 IRWIN CREEK AT STATESVILLE AVENUE AT CHARLOTTE, NC--Continued



## SANTEE RIVER BASIN

0214627970 STEWART CREEK AT STATE STREET AT CHARLOTTE, NC

LOCATION.--Lat 35°14'24", long 80°52'06", Mecklenburg County, Hydrologic Unit 03050103, on right upstream side of culvert on State Street, 1.1 mi upstream of Irwin Creek, and 2.1 mi northwest of city hall, Charlotte.

DRAINAGE AREA.--9.27 mi<sup>2</sup>.

PERIOD OF RECORD.--June 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 630.54 ft above sea level, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record and current water year affected by regulation of unknown origin.

DISCHARGE, CUBIC FEET PER SECOND, FOR PERIOD JUNE TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	8.6	6.2	18	7.6
2	---	---	---	---	---	---	---	---	9.2	4.5	7.5	11
3	---	---	---	---	---	---	---	---	9.0	5.6	7.7	65
4	---	---	---	---	---	---	---	---	8.7	6.4	50	47
5	---	---	---	---	---	---	---	---	13	5.2	7.2	8.5
6	---	---	---	---	---	---	---	---	7.6	6.3	7.6	8.7
7	---	---	---	---	---	---	---	---	6.0	28	6.5	6.2
8	---	---	---	---	---	---	---	---	6.6	6.3	7.8	4.7
9	---	---	---	---	---	---	---	---	4.8	5.0	8.9	4.9
10	---	---	---	---	---	---	---	---	5.7	6.6	13	3.9
11	---	---	---	---	---	---	---	---	5.7	7.0	8.1	5.2
12	---	---	---	---	---	---	---	---	6.2	112	6.8	5.7
13	---	---	---	---	---	---	---	---	5.5	8.0	6.1	5.0
14	---	---	---	---	---	---	---	---	6.9	23	5.8	5.1
15	---	---	---	---	---	---	---	---	10	11	6.1	6.0
16	---	---	---	---	---	---	---	---	e6.7	6.5	6.4	4.3
17	---	---	---	---	---	---	---	---	e5.2	6.0	5.5	6.4
18	---	---	---	---	---	---	---	---	e9.0	6.4	81	33
19	---	---	---	---	---	---	---	---	e7.5	9.7	7.5	21
20	---	---	---	---	---	---	---	---	5.7	8.3	7.1	7.9
21	---	---	---	---	---	---	---	---	4.6	e7.1	6.4	7.5
22	---	---	---	---	---	---	---	---	6.1	7.1	6.9	69
23	---	---	---	---	---	---	---	---	e7.5	7.2	6.0	99
24	---	---	---	---	---	---	---	---	5.1	16	11	10
25	---	---	---	---	---	---	---	---	5.0	11	6.7	13
26	---	---	---	---	---	---	---	---	5.8	7.7	6.3	8.1
27	---	---	---	---	---	---	---	---	8.4	25	6.8	7.5
28	---	---	---	---	---	---	---	---	25	18	6.7	8.1
29	---	---	---	---	---	---	---	---	10	7.5	7.3	6.5
30	---	---	---	---	---	---	---	---	e7.5	5.8	8.3	7.3
31	---	---	---	---	---	---	---	---	---	14	10	---
TOTAL	---	---	---	---	---	---	---	---	232.6	404.4	357.0	503.1
MEAN	---	---	---	---	---	---	---	---	7.75	13.0	11.5	16.8
MAX	---	---	---	---	---	---	---	---	25	112	81	99
MIN	---	---	---	---	---	---	---	---	4.6	4.5	5.5	3.9
CFSM	---	---	---	---	---	---	---	---	.84	1.41	1.24	1.81
IN.	---	---	---	---	---	---	---	---	.93	1.62	1.43	2.02

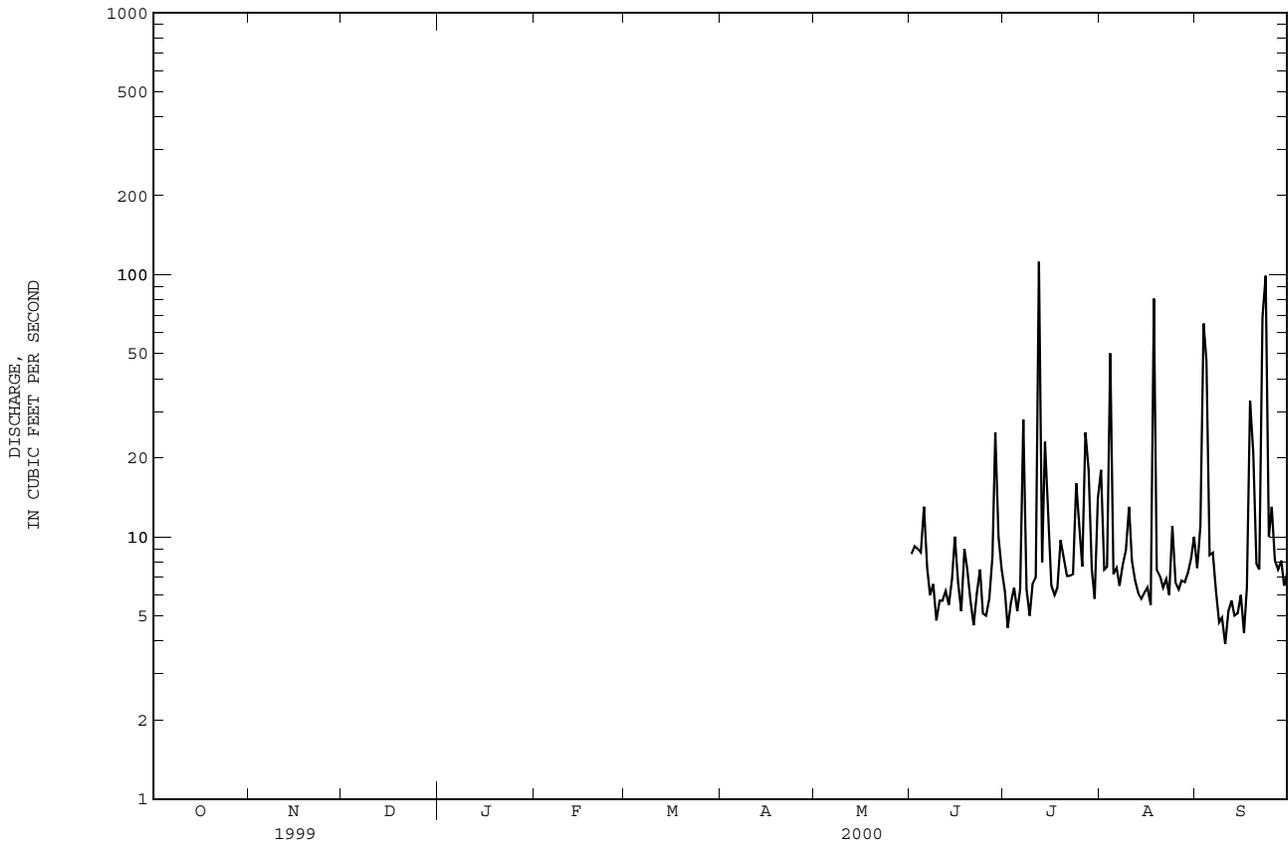
## SUMMARY STATISTICS

FOR PERIOD JUNE TO SEPTEMBER 2000

MAXIMUM PEAK FLOW	1530	Jul 12
MAXIMUM PEAK STAGE	6.14	Jul 12
INSTANTANEOUS LOW FLOW	2.1*	Jun 26

e Estimated.  
\* See REMARKS.

0214627970 STEWART CREEK AT STATE STREET AT CHARLOTTE, NC--Continued



## SANTEE RIVER BASIN

0214627970 STEWART CREEK AT STATE STREET AT CHARLOTTE, NC--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	9.0	9.9	8.9	8.5	10	13	9.3	e30	6.6	5.1	6.8
2	7.4	7.6	9.5	8.3	8.6	8.2	12	9.9	e10	6.9	5.7	7.0
3	5.9	6.7	10	9.4	9.0	18	14	8.5	e8.3	7.1	3.9	61
4	7.1	7.2	9.7	11	7.8	51	13	8.9	7.0	19	5.5	46
5	7.4	5.9	9.6	11	9.2	14	13	7.9	7.3	10	4.0	7.3
6	7.2	7.3	12	11	8.2	10	12	7.6	7.1	8.2	5.3	8.6
7	7.4	8.3	10	8.6	10	9.1	14	8.4	6.9	6.1	5.1	8.3
8	7.2	5.9	9.8	20	9.4	8.9	13	11	10	7.7	5.0	9.9
9	7.5	15	7.0	9.5	8.3	8.9	13	9.3	5.9	6.2	5.3	12
10	7.0	13	6.7	10	11	7.6	11	6.3	7.5	6.5	4.6	8.6
11	8.2	8.9	6.8	9.2	7.2	8.2	10	7.0	6.4	7.8	5.3	6.2
12	5.4	7.0	8.8	19	12	14	7.1	6.8	6.8	7.3	5.9	7.4
13	6.8	6.1	11	11	11	12	27	6.5	11	8.8	4.6	6.2
14	6.4	18	13	9.9	13	8.3	7.4	6.0	7.6	7.2	5.2	8.9
15	6.5	8.3	8.5	11	9.5	42	10	6.3	6.7	6.1	16	6.1
16	8.1	5.8	16	9.3	8.7	12	7.7	6.5	5.7	7.6	7.8	7.3
17	6.2	15	22	9.8	63	8.9	9.1	7.0	6.1	7.5	5.3	7.2
18	5.3	6.2	8.2	12	10	8.7	6.0	5.8	5.7	8.4	7.8	7.3
19	8.4	22	10	37	11	8.9	8.4	8.9	7.7	10	5.6	6.8
20	11	11	8.7	26	10	84	7.2	9.8	7.1	9.7	5.7	22
21	6.7	6.5	9.0	12	10	62	7.1	10	9.2	9.9	6.2	7.1
22	8.3	7.1	8.5	11	27	15	6.7	18	14	7.7	6.3	5.9
23	11	8.4	8.1	11	12	13	8.1	7.4	9.3	11	6.4	7.1
24	5.3	6.4	6.8	9.3	10	12	7.7	16	5.4	22	8.8	112
25	6.6	35	7.9	9.0	35	12	23	9.4	6.6	7.8	8.4	9.8
26	7.2	9.9	7.3	8.9	13	11	9.6	20	17	12	6.4	7.0
27	6.8	9.4	7.6	9.1	12	9.8	8.9	6.9	6.3	4.3	7.1	8.7
28	5.4	9.4	7.5	9.4	11	10	7.6	19	7.7	6.0	7.3	7.5
29	8.9	9.9	7.8	8.2	---	220	7.1	11	6.1	4.6	6.8	6.5
30	6.4	12	8.3	13	---	33	9.6	e7.0	7.2	5.1	8.1	6.7
31	8.4	---	7.4	9.3	---	17	---	e10	---	5.7	6.9	---
TOTAL	224.4	308.2	293.4	372.1	375.4	767.5	323.3	292.4	259.6	260.8	197.4	439.2
MEAN	7.24	10.3	9.46	12.0	13.4	24.8	10.8	9.43	8.65	8.41	6.37	14.6
MAX	11	35	22	37	63	220	27	20	30	22	16	112
MIN	5.3	5.8	6.7	8.2	7.2	7.6	6.0	5.8	5.4	4.3	3.9	5.9
CFSM	.78	1.11	1.02	1.29	1.45	2.67	1.16	1.02	.93	.91	.69	1.58
IN.	.90	1.24	1.18	1.49	1.51	3.08	1.30	1.17	1.04	1.05	.79	1.76

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

	2000	2001	2000	2001	2000	2001	2000	2001	2000	2001	2000	2001
MEAN	7.24	10.3	9.46	12.0	13.4	24.8	10.8	9.43	8.20	10.7	8.94	15.7
MAX	7.24	10.3	9.46	12.0	13.4	24.8	10.8	9.43	8.65	13.0	11.5	16.8
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2000	2000	2000
MIN	7.24	10.3	9.46	12.0	13.4	24.8	10.8	9.43	7.75	8.41	6.37	14.6
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2000	2001	2001	2001

## SUMMARY STATISTICS

## FOR 2001 WATER YEAR

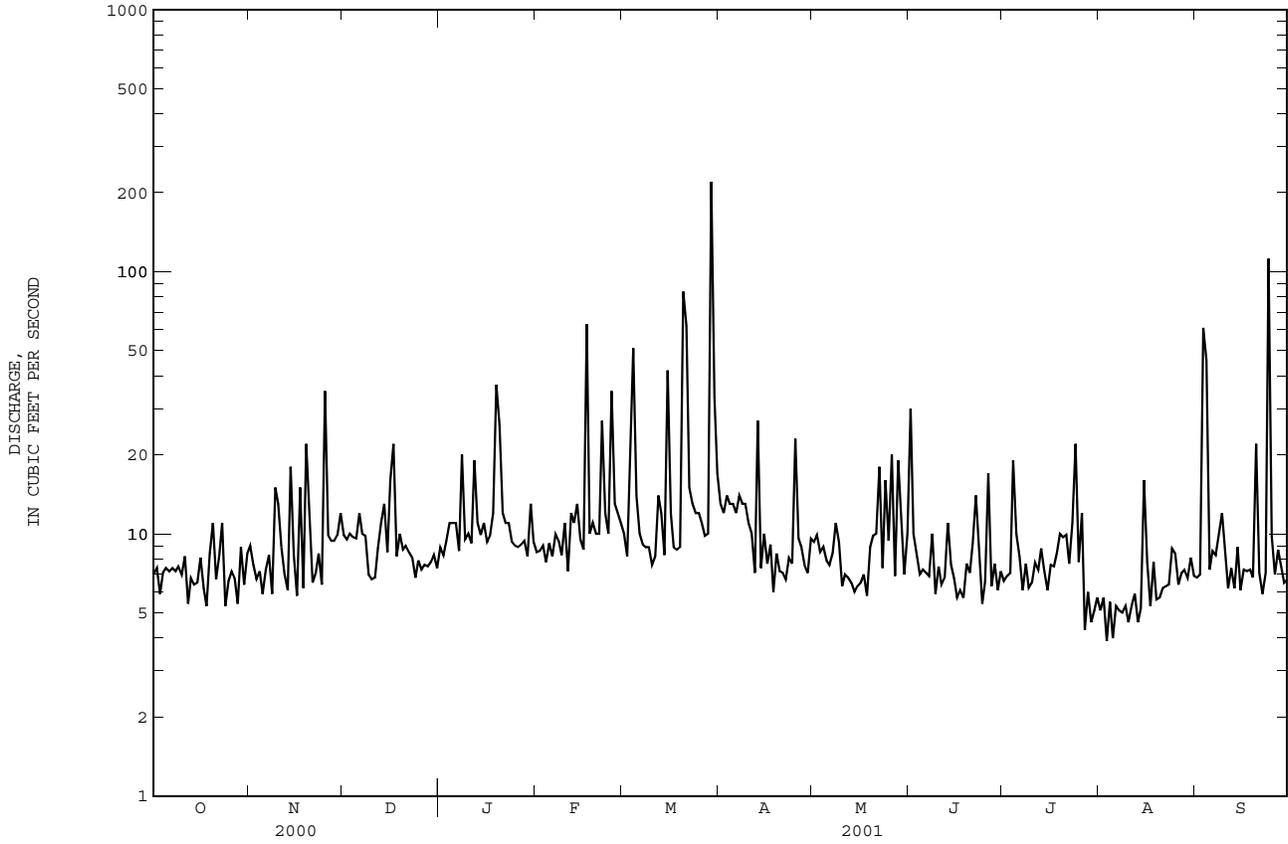
## WATER YEARS 2000 - 2001

ANNUAL TOTAL	4113.7	
ANNUAL MEAN	11.3	11.5
HIGHEST ANNUAL MEAN		12.3
LOWEST ANNUAL MEAN		11.3
HIGHEST DAILY MEAN	220	Mar 29 2001
LOWEST DAILY MEAN	3.9	Aug 3 2000
ANNUAL SEVEN-DAY MINIMUM	4.9	Aug 3 2001
MAXIMUM PEAK FLOW	1140	Mar 29 2000
MAXIMUM PEAK STAGE	5.52	Mar 29 2000
INSTANTANEOUS LOW FLOW	2.1*	Aug 10 2000
ANNUAL RUNOFF (CFSM)	1.22	1.24
ANNUAL RUNOFF (INCHES)	16.51	16.89
10 PERCENT EXCEEDS	15	16
50 PERCENT EXCEEDS	8.4	8.1
90 PERCENT EXCEEDS	6.0	5.7

e Estimated.

\* See REMARKS.

0214627970 STEWART CREEK AT STATE STREET AT CHARLOTTE, NC--Continued



## SANTEE RIVER BASIN

02146285 STEWART CREEK AT WEST MOREHEAD STREET AT CHARLOTTE, NC

LOCATION.--Lat 35°13'41", long 80°52'09", Mecklenburg County, Hydrologic Unit 03050103, on right bank at bridge on West Morehead Street (US 29), 0.5 mi upstream of Irwin Creek, and 1.8 mi northeast of city hall, Charlotte.

DRAINAGE AREA.--11.1 mi<sup>2</sup>.

PERIOD OF RECORD.--October 2000 to September 2001.

GAGE.--Water-stage recorder. Datum of gage is 617.43 ft above sea level, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for current water year affected by regulation of unknown origin. Minimum discharge for current water year also occurred Sept. 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e8.0	11	11	9.3	10	11	16	9.5	42	8.0	6.6	6.6
2	e8.5	8.8	10	8.8	10	9.2	14	9.5	11	8.1	7.2	6.6
3	e7.5	8.4	11	10	11	24	17	8.3	9.3	9.1	4.7	97
4	8.1	8.5	10	11	9.1	69	15	8.7	8.3	27	6.9	66
5	8.6	8.0	10	11	10	17	15	7.6	8.3	14	4.9	8.7
6	8.1	8.7	12	11	9.4	11	14	7.0	8.3	9.7	6.7	9.8
7	8.3	10	11	8.7	11	9.9	16	8.0	8.1	7.4	6.3	9.2
8	8.7	7.2	10	24	10	9.3	15	11	13	10	6.4	12
9	8.6	21	7.8	10	9.5	9.2	15	11	6.9	7.2	6.4	18
10	8.6	16	7.3	11	13	8.1	13	6.9	8.6	7.7	6.0	9.9
11	10	10	7.4	9.4	8.2	8.5	13	8.0	7.5	9.0	6.5	7.1
12	6.8	8.3	9.5	23	14	17	9.0	7.7	7.9	8.8	7.2	8.2
13	8.2	7.0	11	12	13	14	34	7.2	14	11	6.0	6.9
14	8.0	24	15	10	16	9.1	9.0	6.9	9.1	8.4	6.5	10
15	8.2	9.5	9.4	11	11	56	12	7.0	7.8	6.6	18	6.7
16	9.7	6.7	20	10	9.9	14	9.0	7.3	6.5	8.8	7.9	8.2
17	8.0	19	27	9.9	89	9.9	11	7.8	7.0	8.5	5.5	8.3
18	6.1	7.2	9.1	14	12	9.5	7.2	6.4	6.4	14	9.1	8.3
19	10	29	11	50	12	9.7	9.8	10	8.7	14	5.8	7.8
20	13	13	9.8	33	11	122	8.5	12	8.0	11	5.5	32
21	8.5	7.3	9.6	14	11	82	8.8	14	11	12	6.3	9.2
22	9.8	7.6	10	12	35	18	8.0	25	20	10	6.1	7.8
23	13	9.0	9.0	13	13	15	9.9	8.9	11	15	6.4	8.9
24	7.4	7.1	7.4	11	12	15	9.9	23	6.3	33	8.9	e135
25	8.4	47	8.4	11	43	14	32	13	7.3	8.1	8.5	12
26	9.3	11	8.0	10	15	12	10	27	27	13	6.2	8.3
27	8.2	10	8.2	11	14	11	9.3	8.1	7.7	4.9	6.8	10
28	7.4	10	8.0	11	13	11	7.8	27	9.4	6.9	7.0	9.0
29	11	11	8.4	9.6	---	e270	7.2	14	7.2	5.2	6.6	7.8
30	8.4	12	8.9	16	---	42	9.5	8.1	8.6	6.2	8.1	7.7
31	9.9	---	8.1	11	---	21	---	12	---	6.9	6.4	---
TOTAL	272.3	373.3	323.3	426.7	455.1	958.4	384.9	347.9	322.2	329.5	217.4	563.0
MEAN	8.78	12.4	10.4	13.8	16.3	30.9	12.8	11.2	10.7	10.6	7.01	18.8
MAX	13	47	27	50	89	270	34	27	42	33	18	135
MIN	6.1	6.7	7.3	8.7	8.2	8.1	7.2	6.4	6.3	4.9	4.7	6.6
CFSM	.79	1.12	.94	1.24	1.46	2.79	1.16	1.01	.97	.96	.63	1.69
IN.	.91	1.25	1.08	1.43	1.53	3.21	1.29	1.17	1.08	1.10	.73	1.89

## SUMMARY STATISTICS

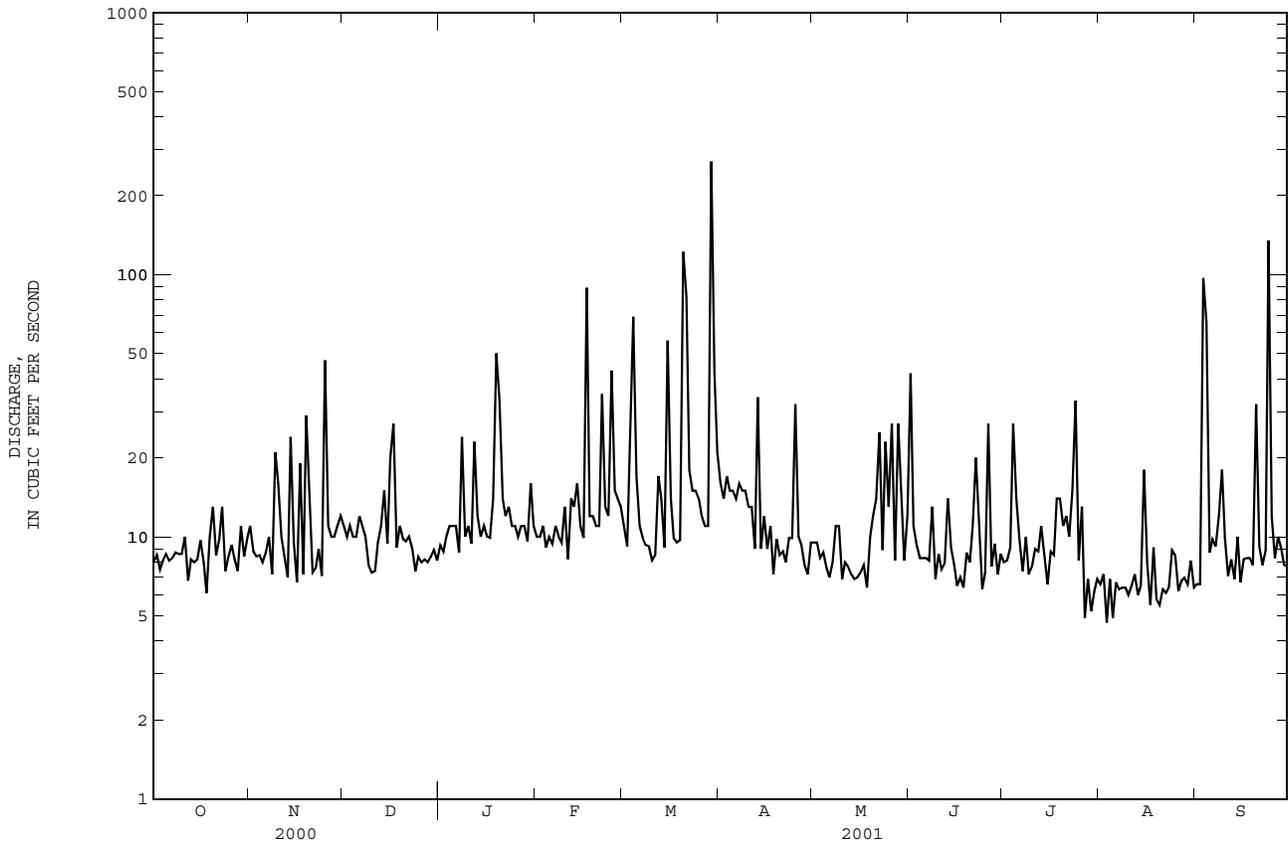
## FOR 2001 WATER YEAR

ANNUAL TOTAL	4974.0
ANNUAL MEAN	13.6
HIGHEST DAILY MEAN	270 Mar 29
LOWEST DAILY MEAN	4.7 Aug 3
ANNUAL SEVEN-DAY MINIMUM	6.0 Aug 3
MAXIMUM PEAK FLOW	NOT DETERMINED
MAXIMUM PEAK STAGE	8.03 Sep 24
INSTANTANEOUS LOW FLOW	2.4* Aug 20
ANNUAL RUNOFF (CFSM)	1.23
ANNUAL RUNOFF (INCHES)	16.67
10 PERCENT EXCEEDS	19
50 PERCENT EXCEEDS	9.5
90 PERCENT EXCEEDS	6.9

e Estimated.

\* See REMARKS.

02146285 STEWART CREEK AT WEST MOREHEAD STREET AT CHARLOTTE, NC--Continued



## SANTEE RIVER BASIN

02146300 IRWIN CREEK NEAR CHARLOTTE, NC

LOCATION.--Lat 35°11'50", long 80°54'18", Mecklenburg County, Hydrologic Unit 03050103, on left bank at sewage-disposal plant of city of Charlotte, 2,200 ft upstream from Southern Railway bridge, 0.7 mi upstream from Taggart Creek, and 4.2 mi southwest of city hall, Charlotte.

DRAINAGE AREA.--30.7 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1962 to current year. Prior to October 1963, published as "Sugar (Irwin) Creek at Charlotte".

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 591.53 ft above sea level (levels by City of Charlotte). Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record from rating curve extended above 7,500 ft<sup>3</sup>/s on basis of step-backwater computation. Minimum discharge for period of record also occurred July 14, 1986. Minimum discharge for current water year also occurred Oct. 19.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 6, 1936, reached a stage of about 17.3 ft at site 400 ft downstream, from information by plant employee. Peak may have been affected by failure of Lakewood Dam, 5 mi upstream. Flood of Jan. 6, 1962, reached a stage of 14.32 ft, from floodmarks; discharge, 4,120 ft<sup>3</sup>/s. Flood of April 11, 1962, reached a stage of 15.18 ft, from floodmarks; discharge, 4,740 ft<sup>3</sup>/s, on basis of slope-area measurement of peak flow.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	8.7	12	9.1	11	15	33	14	86	10	8.7	9.9
2	8.8	8.6	11	9.2	10	12	22	13	20	9.5	9.4	7.6
3	7.2	8.1	11	11	11	49	29	12	12	13	7.0	192
4	7.8	7.1	10	11	9.1	184	22	12	11	70	8.9	159
5	8.4	8.9	11	10	10	38	20	12	10	43	6.3	16
6	8.2	7.2	12	11	10	18	19	10	11	12	8.4	13
7	7.4	9.5	11	11	12	15	20	11	9.1	9.7	7.9	11
8	7.8	5.7	10	52	10	13	19	14	19	15	8.2	15
9	6.2	35	8.1	13	9.9	13	19	15	8.8	10	8.6	35
10	7.5	38	7.0	11	17	12	17	8.5	9.3	9.3	7.7	13
11	7.9	10	7.3	9.6	9.7	11	17	10	8.1	9.9	16	9.3
12	6.5	7.7	8.4	45	20	28	14	9.9	8.7	10	13	9.2
13	6.3	7.0	11	19	19	28	68	11	56	16	15	9.1
14	6.7	50	25	12	32	13	17	8.3	31	10	9.6	12
15	6.3	12	9.9	11	13	148	19	9.0	12	7.2	19	7.7
16	7.1	7.7	41	12	10	31	14	10	10	10	11	8.9
17	7.6	38	74	11	209	17	14	10	9.6	8.5	7.2	9.1
18	4.1	10	13	19	18	14	11	9.6	10	10	20	9.6
19	7.6	68	15	107	15	13	12	12	11	16	14	9.1
20	10	28	15	80	14	262	12	17	10	8.0	7.7	63
21	7.1	11	10	25	13	272	12	36	13	9.4	8.2	11
22	6.7	8.2	11	15	79	42	11	64	58	6.6	7.2	9.6
23	10	9.7	10	15	18	26	13	19	24	15	8.0	9.6
24	6.9	7.7	8.1	13	14	23	16	51	9.5	92	11	451
25	6.0	121	9.0	12	91	20	95	28	9.6	25	10	25
26	7.6	23	8.9	11	27	18	17	75	92	29	8.4	11
27	6.8	12	9.0	12	17	17	14	11	15	8.7	7.7	12
28	6.0	12	8.4	11	16	16	12	68	20	9.6	8.5	11
29	8.5	11	9.1	10	---	702	11	49	11	8.7	8.7	9.2
30	7.2	13	8.7	25	---	135	12	12	9.7	9.1	10	8.0
31	7.2	---	8.4	13	---	43	---	12	---	8.3	10	---
TOTAL	228.0	603.8	423.3	635.9	744.7	2248	631	653.3	624.4	528.5	311.3	1175.9
MEAN	7.35	20.1	13.7	20.5	26.6	72.5	21.0	21.1	20.8	17.0	10.0	39.2
MAX	10	121	74	107	209	702	95	75	92	92	20	451
MIN	4.1	5.7	7.0	9.1	9.1	11	11	8.3	8.1	6.6	6.3	7.6
CFSM	.24	.66	.44	.67	.87	2.36	.69	.69	.68	.56	.33	1.28
IN.	.28	.73	.51	.77	.90	2.72	.76	.79	.76	.64	.38	1.42

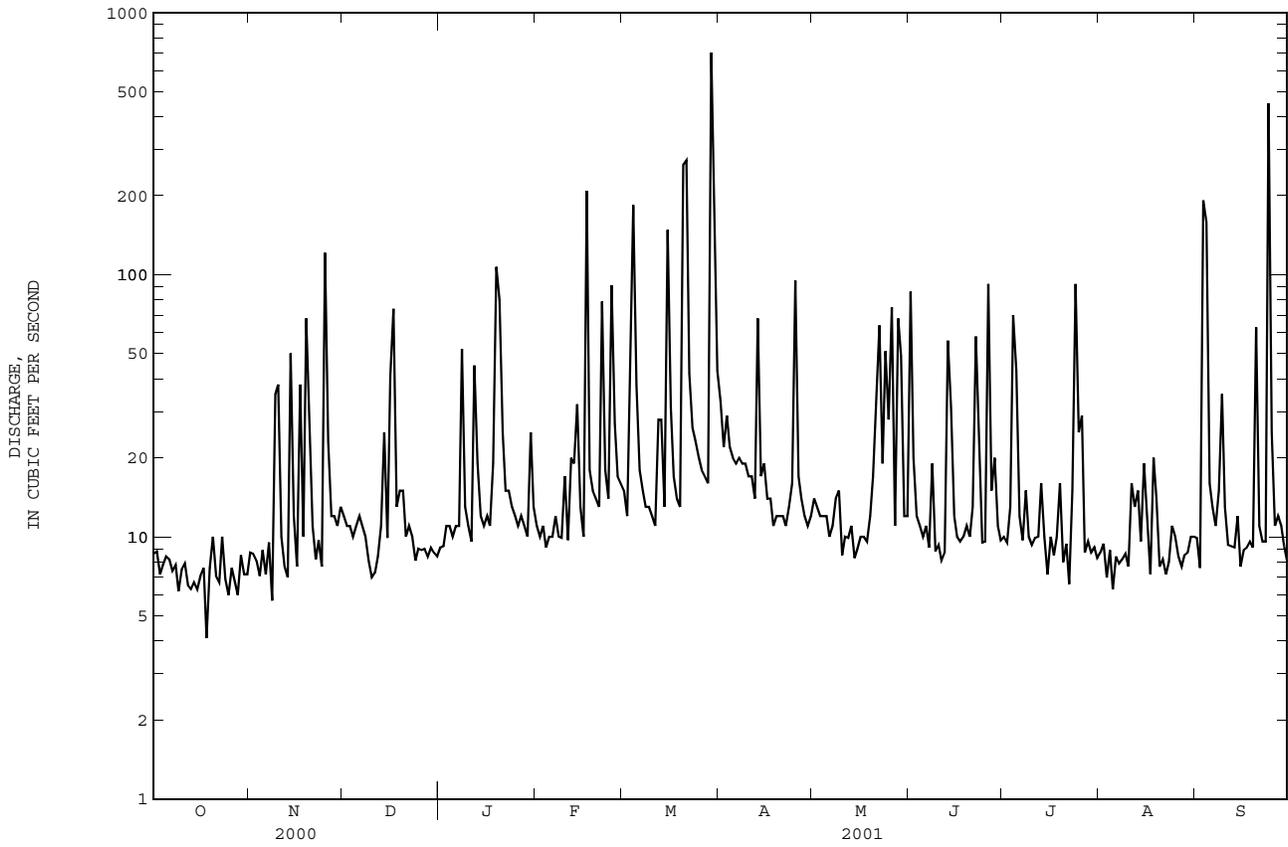
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2001, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)
1962	37.5	157	7.35	1991	36.1	137	9.32	1986	40.2	107	10.2	1966
1963	58.8	123	13.4	1993	64.1	124	13.4	1993	69.5	161	18.5	1981
1964	43.2	93.5	14.9	1998	39.7	204	14.0	1975	43.2	204	14.0	1981
1965	35.6	123	6.95	1982	34.3	215	6.67	1986	35.6	123	6.95	1986
1966	33.0	118	6.95	1997	33.0	118	7.97	1995	33.0	118	7.97	1987
1967	33.1	135	6.00	1975	33.1	135	6.00	1975	33.1	135	6.00	1983

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1962 - 2001
ANNUAL TOTAL	10882.2	8808.1	
ANNUAL MEAN	29.7	24.1	43.8
HIGHEST ANNUAL MEAN			78.6
LOWEST ANNUAL MEAN			24.0
HIGHEST DAILY MEAN	413	Mar 20	5010
LOWEST DAILY MEAN	4.1	Oct 18	3.1
ANNUAL SEVEN-DAY MINIMUM	6.2	Sep 10	3.5
MAXIMUM PEAK FLOW		2700	11600*
MAXIMUM PEAK STAGE		10.70	20.38
INSTANTANEOUS LOW FLOW		3.9*	2.8*
ANNUAL RUNOFF (CFSM)	.97	.79	1.43
ANNUAL RUNOFF (INCHES)	13.19	10.67	19.40
10 PERCENT EXCEEDS	55	43	78
50 PERCENT EXCEEDS	14	11	18
90 PERCENT EXCEEDS	7.2	7.7	8.6

\* See REMARKS.

02146300 IRWIN CREEK NEAR CHARLOTTE, NC--Continued



## SANTEE RIVER BASIN

02146315 TAGGART CREEK AT WEST BOULEVARD NEAR CHARLOTTE, NC

LOCATION.--Lat 35°12'21", long 80°55'24", Mecklenburg County, Hydrologic Unit 03050103, on right bank at northeast corner of intersection of Billy Graham Parkway and NC Highway 160 (West Blvd), 1.2 mi upstream of confluence with Irwin Creek, and 5.0 mi from city hall, Charlotte.

DRAINAGE AREA.--5.38 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage 604.27 ft above sea level, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record and current water year also occurred Aug. 22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.18	.36	.80	.87	.79	1.0	3.0	.69	12	.32	.19	.27
2	.17	.38	.84	.89	.79	.99	1.8	.74	2.2	.34	.18	.18
3	.19	.38	.80	.87	.77	6.1	2.6	.79	.93	.63	.15	8.2
4	.21	.32	.86	e.90	.72	24	1.4	.81	.77	7.9	.15	17
5	.27	.39	.93	e.90	.80	4.0	1.2	.86	.69	2.7	.17	.89
6	.32	.13	.95	e.91	.76	2.0	1.1	.90	.62	.47	.15	.23
7	.29	.15	.84	.96	.76	1.4	1.1	.88	.65	.26	.19	.17
8	.27	.16	.80	6.6	.77	1.2	1.0	.93	1.8	.56	.27	.13
9	.26	4.7	.80	1.4	1.0	1.2	.97	.96	.77	.41	.17	6.1
10	.29	3.4	.80	.97	2.2	1.1	.98	.92	.60	.28	.17	.58
11	.39	.70	.80	1.0	.92	1.0	.96	.87	.55	.33	.15	.18
12	.30	.63	.86	4.7	2.7	4.1	.94	.81	.57	.32	.15	.18
13	.23	.60	1.2	1.8	2.2	2.5	5.2	.70	.59	1.7	1.5	.19
14	.20	6.8	3.2	.91	3.4	1.1	1.1	.63	.59	.27	.42	.18
15	.21	1.1	1.0	.87	1.2	21	1.6	.60	.52	.20	.12	.16
16	.17	.73	4.8	.92	1.1	3.3	.92	.57	.53	.19	.12	.15
17	.17	4.7	9.7	.89	28	2.0	.80	.57	.50	.20	.10	.15
18	.17	.90	1.4	2.1	2.4	1.4	.96	.58	.46	.26	.46	.16
19	.15	9.6	2.3	17	1.6	1.2	.88	1.3	.50	2.0	.26	.15
20	.18	3.2	1.4	7.7	1.2	42	.87	1.3	.51	.54	.06	6.7
21	.38	1.2	1.0	2.5	1.0	26	.86	1.7	.55	.19	.03	.29
22	.58	.88	1.2	1.2	10	4.0	.85	7.3	1.8	.18	.05	.20
23	.65	.87	.91	.97	1.8	2.6	.84	1.2	1.1	.99	.14	.17
24	.63	.80	.94	.89	1.1	1.8	1.3	7.7	.41	6.1	.20	63
25	.66	18	.91	.84	11	1.5	9.6	4.8	.40	1.4	.10	1.9
26	.63	2.7	1.1	.81	2.3	1.4	1.0	8.7	12	1.6	.10	1.1
27	.62	1.1	.97	.80	1.4	1.2	.77	1.1	.91	.32	.13	.37
28	.61	.89	1.0	.76	1.3	1.2	.70	10	1.2	.29	.08	.22
29	.51	.85	.90	.76	---	101	.64	5.9	.59	.34	.11	.27
30	.49	.80	.88	2.5	---	11	.74	1.1	.34	.29	.11	.32
31	.38	---	.86	.91	---	4.0	---	.85	.23	.23	.15	---
TOTAL	10.76	67.42	45.75	66.10	83.98	278.29	46.68	66.76	45.65	31.81	6.33	109.79
MEAN	.35	2.25	1.48	2.13	3.00	8.98	1.56	2.15	1.52	1.03	.20	3.66
MAX	.66	18	9.7	17	28	101	9.6	10	12	7.9	1.5	63
MIN	.15	.13	.80	.76	.72	.99	.64	.57	.34	.18	.03	.13
CFSM	.06	.42	.27	.40	.56	1.67	.29	.40	.28	.19	.04	.68
IN.	.07	.47	.32	.46	.58	1.92	.32	.46	.32	.22	.04	.76

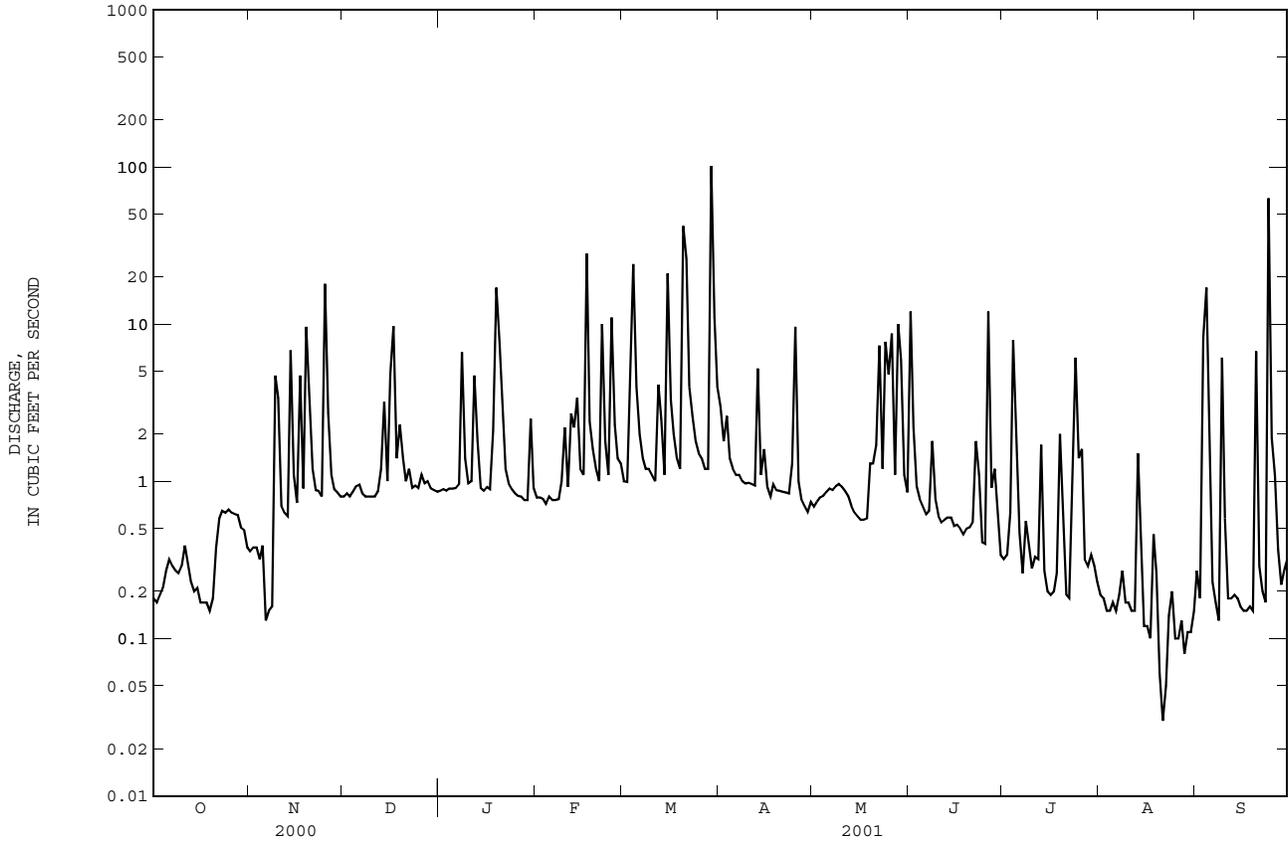
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

	1998	1999	2000	2001
MEAN	2.88	2.01	2.45	4.89
MAX	7.05	2.25	3.74	6.97
(WY)	2000	2001	1999	2000
MIN	.35	1.78	1.48	2.13
(WY)	2001	2000	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1998 - 2001
ANNUAL TOTAL	1195.97	859.32	
ANNUAL MEAN	3.27	2.35	3.16
HIGHEST ANNUAL MEAN			3.85
LOWEST ANNUAL MEAN			2.35
HIGHEST DAILY MEAN	60	101	101
LOWEST DAILY MEAN	.08	.03	.03
ANNUAL SEVEN-DAY MINIMUM	.13	.10	.10
MAXIMUM PEAK FLOW		454	780
MAXIMUM PEAK STAGE		5.73	7.17
INSTANTANEOUS LOW FLOW		.01*	.01*
ANNUAL RUNOFF (CFSM)	.61	.44	.59
ANNUAL RUNOFF (INCHES)	8.27	5.94	7.98
10 PERCENT EXCEEDS	6.2	4.7	6.5
50 PERCENT EXCEEDS	.98	.86	.90
90 PERCENT EXCEEDS	.17	.17	.21

e Estimated.  
\* See REMARKS.

02146315 TAGGART CREEK AT WEST BOULEVARD NEAR CHARLOTTE, NC--Continued



## SANTEE RIVER BASIN

02146348 COFFEY CREEK NEAR CHARLOTTE, NC

LOCATION.--Lat 35°08'43", long 80°55'38", Mecklenburg County, Hydrologic Unit 03050103 on left bank at culvert on State Highway 49, 1.2 mi upstream from mouth, and 7.5 mi southwest of Charlotte.

DRAINAGE AREA.--9.14 mi<sup>2</sup>.

PERIOD OF RECORD.-- October 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 565.72 ft above sea level, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records poor. Maximum discharge for period of record and current water year from rating curve extended above 468 ft<sup>3</sup>/s on basis of culvert computation of peak flow.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	.66	2.0	1.5	2.6	2.4	10	e1.9	22	2.1	.66	.32
2	1.1	.64	1.4	1.5	2.5	2.2	6.7	e1.5	5.4	2.5	.58	.22
3	1.2	.64	1.4	e1.5	2.4	8.3	7.4	1.1	1.9	2.5	.47	9.9
4	1.1	.67	1.2	e1.5	2.3	55	5.6	1.0	1.2	11	.39	27
5	1.0	1.3	1.4	e1.6	2.3	10	4.6	1.0	.92	17	.43	2.9
6	1.0	.73	1.3	e1.6	2.3	4.7	4.3	.95	.74	3.9	.32	.97
7	1.0	.57	1.3	1.6	2.3	3.4	3.8	.90	.70	e.90	.28	.49
8	1.3	.57	1.4	11	2.2	2.9	3.5	.88	2.1	e1.9	.25	.24
9	1.0	5.0	1.4	4.0	2.2	2.6	3.3	.97	1.0	e1.3	.24	8.0
10	.75	6.1	1.3	2.2	4.2	2.3	3.1	.90	.70	e.90	.23	1.5
11	.74	1.4	1.3	2.1	2.5	2.2	3.1	.86	.62	e1.0	.20	.60
12	.74	.91	1.3	8.8	4.5	4.0	2.9	.82	.58	e1.0	.17	.31
13	.76	.85	1.4	6.3	4.5	8.2	7.2	.80	.77	4.3	5.0	.23
14	.76	7.8	4.5	3.0	10	2.7	4.0	.77	.58	1.2	1.6	.15
15	.77	1.7	2.2	2.5	4.1	42	3.6	.74	.45	.63	.37	.09
16	.88	1.2	6.4	e2.3	3.7	9.8	3.4	.72	.42	.46	.31	.09
17	.86	6.1	21	e2.4	54	5.1	2.8	.76	.37	.38	.17	.18
18	.94	1.7	3.8	3.0	5.9	3.6	2.8	.77	.34	.33	.14	.08
19	1.2	14	3.9	28	3.7	2.9	2.5	.73	.32	.44	.20	.05
20	.73	8.3	3.7	22	3.1	49	2.5	4.5	.30	.43	.20	12
21	.67	2.5	2.0	16	2.7	105	2.4	3.7	.27	.24	.13	1.8
22	.75	1.6	2.2	12	18	13	2.4	9.6	1.3	.19	.09	.68
23	.79	1.1	2.5	3.6	5.3	7.2	2.3	4.4	3.0	4.7	.09	.52
24	.98	1.2	2.1	3.2	3.5	5.0	2.4	7.7	.51	11	.11	114
25	.85	31	1.9	3.5	17	4.0	17	7.9	.43	4.9	.16	11
26	.91	9.1	1.9	4.1	5.6	3.5	3.9	18	.91	3.8	.08	3.0
27	.73	4.0	1.8	3.8	3.3	3.2	e2.3	2.7	1.4	1.4	.06	1.2
28	.69	3.0	2.0	3.3	2.7	3.0	e1.5	14	10	1.0	.05	.75
29	.65	2.3	1.8	3.3	---	190	e1.6	12	5.0	3.8	.08	.58
30	.67	1.9	1.7	5.5	---	83	e1.3	3.4	1.5	1.7	.09	.48
31	.66	---	1.5	3.1	---	16	---	2.8	---	.91	.34	---
TOTAL	27.28	118.54	85.0	169.8	179.4	656.2	124.2	108.77	65.73	87.81	13.49	199.33
MEAN	.88	3.95	2.74	5.48	6.41	21.2	4.14	3.51	2.19	2.83	.44	6.64
MAX	1.3	31	21	28	54	190	17	18	22	17	5.0	114
MIN	.65	.57	1.2	1.5	2.2	2.2	1.3	.72	.27	.19	.05	.05
CFSM	.10	.43	.30	.60	.70	2.30	.45	.38	.24	.31	.05	.72
IN.	.11	.48	.34	.69	.73	2.66	.50	.44	.27	.36	.05	.81

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

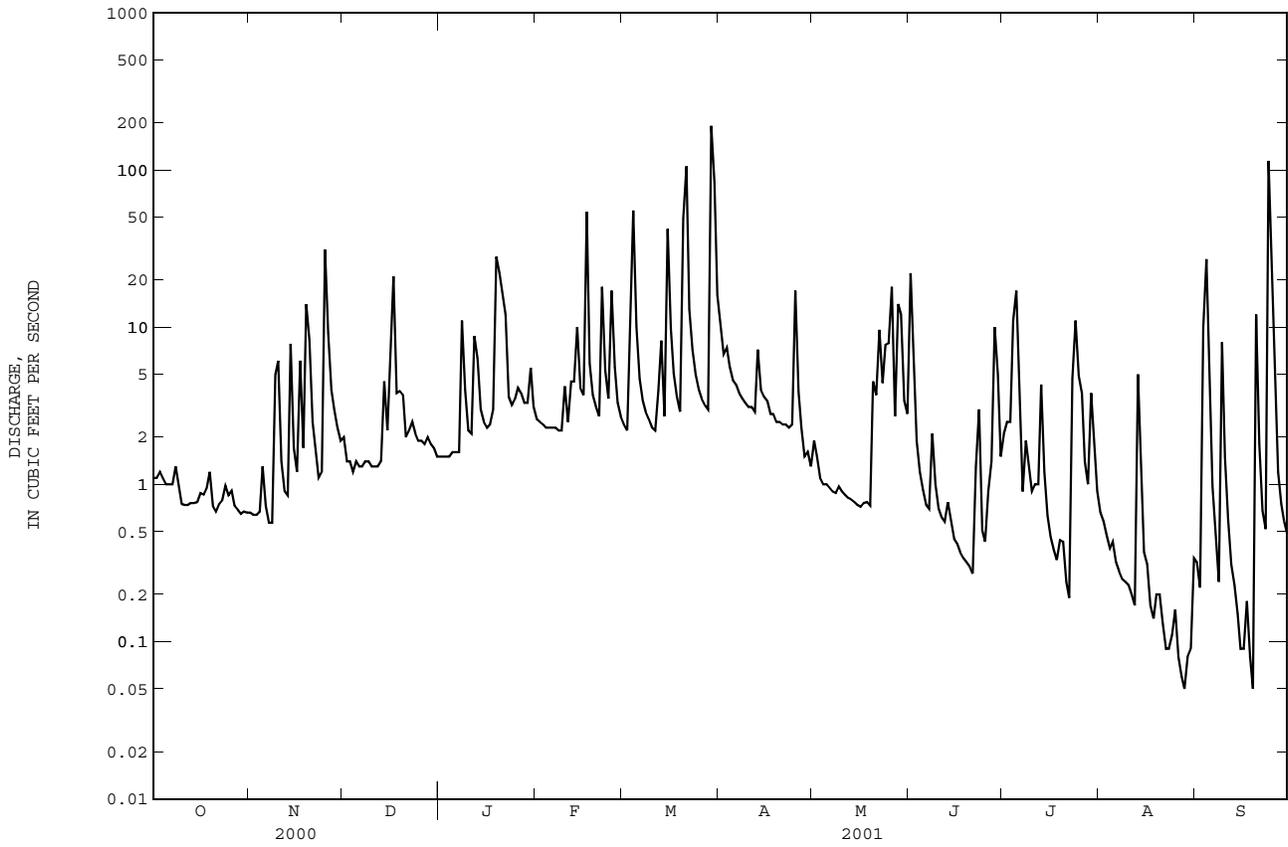
MEAN	5.86	3.19	3.72	9.78	10.1	12.7	9.97	3.39	3.83	3.24	2.15	7.48
MAX	15.0	3.95	4.35	12.1	14.4	21.2	17.1	3.68	5.08	4.37	4.81	11.8
(WY)	2000	2001	2000	1999	2000	2001	2000	1999	2000	2000	2000	2000
MIN	.88	2.74	2.74	5.48	6.41	5.17	4.14	2.97	2.19	2.51	.44	4.01
(WY)	2001	2000	2001	2001	2001	1999	2001	2000	2001	1999	2001	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1999 - 2001
ANNUAL TOTAL	2753.16	1835.55	
ANNUAL MEAN	7.52	5.03	6.26
HIGHEST ANNUAL MEAN			8.75 2000
LOWEST ANNUAL MEAN			5.00 1999
HIGHEST DAILY MEAN	154 Apr 15	190 Mar 29	224 Oct 11 1999
LOWEST DAILY MEAN	.55 Aug 22	.05 Aug 28	.05 Aug 28 2001
ANNUAL SEVEN-DAY MINIMUM	.66 Oct 29	.09 Aug 23	.09 Aug 23 2001
MAXIMUM PEAK FLOW		650* Mar 29	650* Mar 29 2001
MAXIMUM PEAK STAGE		9.71 Mar 29	9.71 Mar 29 2001
INSTANTANEOUS LOW FLOW		.02 Sep 20	.02 Sep 20 2001
ANNUAL RUNOFF (CFSM)	.82	.55	.68
ANNUAL RUNOFF (INCHES)	11.14	7.43	9.26
10 PERCENT EXCEEDS	13	9.8	11
50 PERCENT EXCEEDS	2.9	1.8	2.3
90 PERCENT EXCEEDS	.83	.32	.58

e Estimated.

\* See REMARKS.

02146348 COFFEY CREEK NEAR CHARLOTTE, NC--Continued



SANTEE RIVER BASIN

0214635212 CRN28

LOCATION.--Lat 35°06'57", long 80°54'49", Mecklenburg County, Hydrologic Unit 03050103, unnamed tributary to Sugar Creek at Crompton Street, Charlotte, NC.

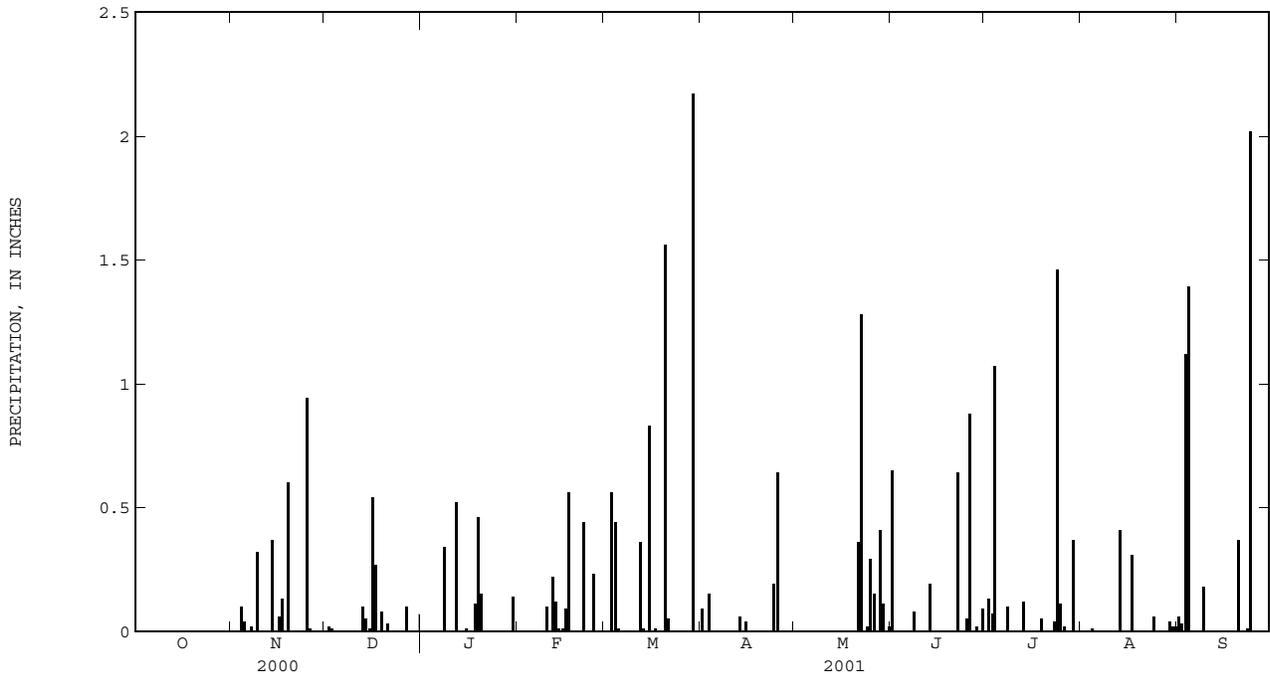
PERIOD OF RECORD.--April 1995 to current year. Records for period April 1995 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.09	.00	.65	.00	.00	.06
2	.00	.00	.02	.00	.00	.00	.00	.00	.00	.13	.00	.03
3	.00	.00	.01	.00	.00	.56	.15	.00	.00	.07	.00	1.12
4	.00	.10	.00	.00	.00	.44	.00	.00	.00	1.07	.01	1.39
5	.00	.04	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.34	.00	.00	.00	.00	.08	.10	.00	.00
9	.00	.32	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18
10	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.52	.22	.36	.00	.00	.00	.00	.00	.00
13	.00	.00	.10	.00	.12	.01	.06	.00	.19	.12	.41	.00
14	.00	.37	.05	.00	.01	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.01	.01	.01	.83	.04	.00	.00	.00	.00	.00
16	.00	.06	.54	.00	.09	.00	.00	.00	.00	.00	.00	.00
17	.00	.13	.27	.00	.56	.01	.00	.00	.00	.00	.31	.00
18	.00	.00	.00	.11	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.60	.08	.46	.00	.00	.00	.00	.00	.05	.00	.00
20	.00	.00	.00	.15	.00	1.56	.00	.00	.00	.00	.00	.37
21	.00	.00	.03	.00	.00	.05	.00	.36	.00	.00	.00	.00
22	.00	.00	.00	.00	.44	.00	.00	1.28	.64	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.01
24	.00	.00	.00	.00	.00	.00	.19	.02	.00	1.46	.06	2.02
25	.00	.94	.00	.00	.23	.00	.64	.29	.05	.11	.00	.00
26	.00	.01	.00	.00	.00	.00	.00	.15	.88	.02	.00	.00
27	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.41	.02	.00	.00	.00
29	.00	.00	.00	.00	---	2.17	.00	.11	.00	.37	.04	.00
30	.00	.00	.00	.14	---	.00	.00	.00	.09	.00	.02	.00
31	.00	---	.00	.00	---	.00	---	.02	---	.00	.02	---
TOTAL	0.00	2.59	1.21	1.73	1.78	6.00	1.17	2.64	2.60	3.54	0.87	5.18





Gaging station at Goose Creek at Fairview, North Carolina.

SANTEE RIVER BASIN

02146381 SUGAR CREEK AT NC 51 NEAR PINEVILLE, NC

LOCATION.--Lat 35°05'20", long 80°54'00", Mecklenburg County, Hydrologic Unit 03050103, on right bank on upstream side of bridge at N.C. Highway 51, 0.3 mi upstream from McCullough Branch, and 0.6 mi northwest of city hall, Pineville.

DRAINAGE AREA.--65.3 mi<sup>2</sup>.

PERIOD OF RECORD.-- Occasional discharge measurements, water years 1978-94. October 1994 to current year.

GAGE.--Water-stage recorder. Datum of gage is 520.95 ft above sea level, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. A daily average of 15.6 ft<sup>3</sup>/s of treated effluent from Irwin Creek wastewater treatment plant was discharged into the stream above the gage. Maximum discharge for period of record from rating curve extended above 9,710 ft<sup>3</sup>/s. Minimum discharge for period of record also occurred Aug. 31, 2001.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	24	36	31	31	44	98	37	130	30	18	28
2	28	24	34	35	29	38	70	37	86	28	20	23
3	24	26	32	34	29	58	70	37	37	36	29	245
4	25	25	33	37	29	391	63	35	33	62	28	323
5	28	29	34	40	31	98	53	34	32	187	24	56
6	27	26	34	38	31	59	48	32	32	37	23	34
7	25	26	34	34	31	48	45	32	29	31	23	33
8	26	25	33	84	30	44	46	33	37	32	23	33
9	26	49	31	52	30	41	41	37	36	32	24	63
10	28	79	29	38	38	39	40	32	28	29	23	40
11	25	31	29	38	30	39	38	31	29	27	24	27
12	25	27	30	68	37	39	35	31	28	29	29	24
13	25	26	31	78	42	88	82	30	34	36	34	26
14	24	81	53	39	65	43	57	29	92	28	36	26
15	24	43	39	35	37	258	34	29	25	25	24	24
16	26	32	73	37	31	105	38	31	31	25	32	23
17	30	67	163	38	345	58	32	32	29	23	25	24
18	25	38	49	36	72	47	32	31	31	22	26	25
19	26	100	40	124	51	43	31	31	29	32	34	25
20	27	92	47	199	47	205	31	37	28	30	23	99
21	26	42	40	78	44	907	30	71	29	27	22	33
22	25	35	38	50	142	112	30	95	48	23	21	26
23	27	33	34	41	70	63	31	97	99	31	22	24
24	27	30	32	38	49	46	31	35	31	135	24	857
25	24	212	31	34	124	41	182	108	28	106	25	116
26	25	98	32	33	83	38	72	135	155	48	22	45
27	25	44	33	33	50	37	58	41	71	37	21	35
28	24	39	37	31	45	32	50	109	62	32	22	33
29	24	36	34	31	---	762	42	101	63	52	24	28
30	25	37	33	42	---	1130	37	46	30	37	23	26
31	25	---	31	35	---	147	---	34	---	25	21	---
TOTAL	797	1476	1259	1561	1673	5100	1547	1530	1452	1334	769	2424
MEAN	25.7	49.2	40.6	50.4	59.8	165	51.6	49.4	48.4	43.0	24.8	80.8
MAX	30	212	163	199	345	1130	182	135	155	187	36	857
MIN	24	24	29	31	29	32	30	29	25	22	18	23
CFSM	.39	.75	.62	.77	.92	2.52	.79	.76	.74	.66	.38	1.24
IN.	.45	.84	.72	.89	.95	2.91	.88	.87	.83	.76	.44	1.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2001, BY WATER YEAR (WY)

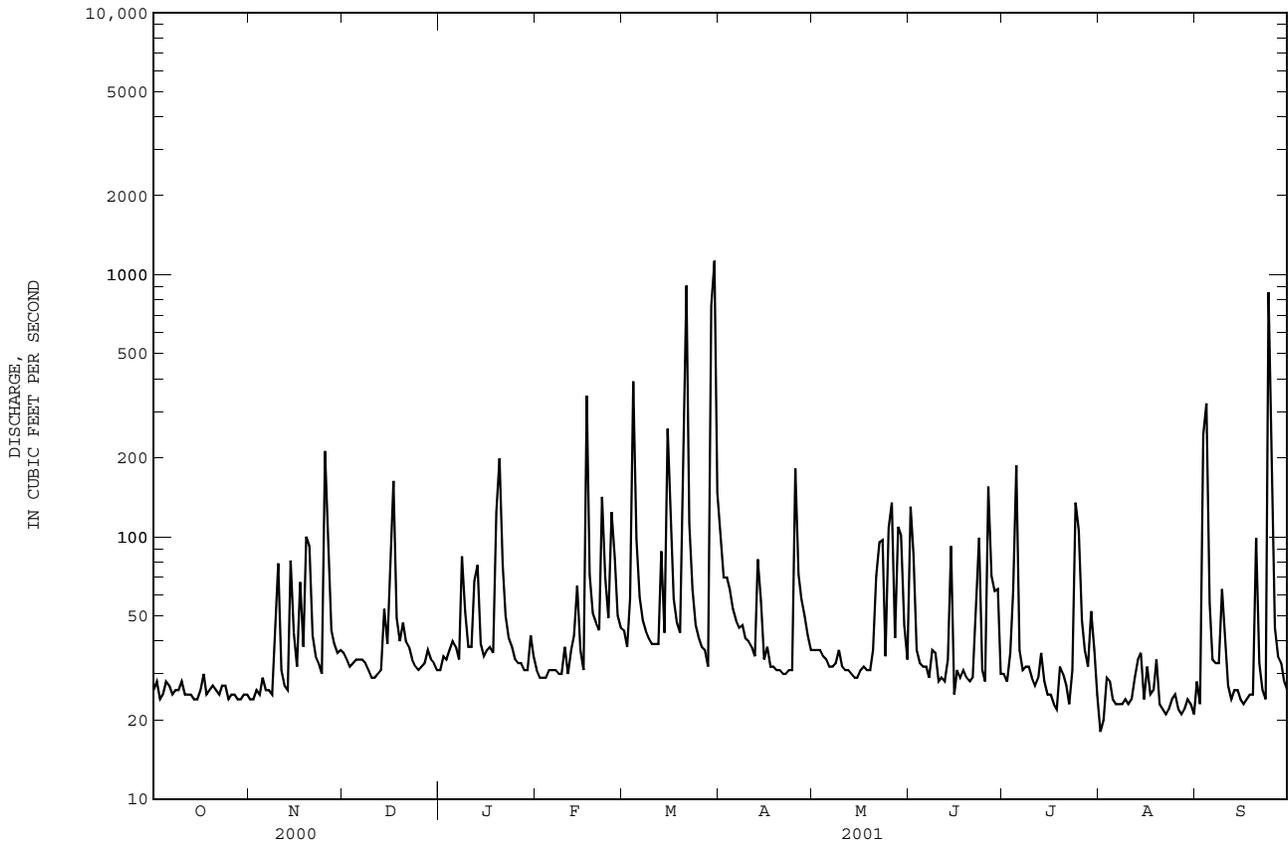
	1995	1996	1997	1998	1999	2000	2001
MEAN	84.4	75.0	70.7	131	136	119	111
MAX	154	182	132	237	232	165	196
(WY)	1996	1996	1998	1998	1995	2001	1998
MIN	25.7	40.8	40.6	50.4	59.8	55.7	44.0
(WY)	2001	1999	2001	2001	2001	1999	1995

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1995 - 2001

ANNUAL TOTAL	24475	20922	
ANNUAL MEAN	66.9	57.3	92.0
HIGHEST ANNUAL MEAN			120
LOWEST ANNUAL MEAN			57.3
HIGHEST DAILY MEAN	902	Mar 20	1130
LOWEST DAILY MEAN	22	Jun 24	18
ANNUAL SEVEN-DAY MINIMUM	23	Jun 20	22
MAXIMUM PEAK FLOW			2850
MAXIMUM PEAK STAGE			11.78
INSTANTANEOUS LOW FLOW			15
ANNUAL RUNOFF (CFSM)	1.02	.88	1.41
ANNUAL RUNOFF (INCHES)	13.94	11.92	19.14
10 PERCENT EXCEEDS	117	97	154
50 PERCENT EXCEEDS	37	34	44
90 PERCENT EXCEEDS	25	24	27

\* See REMARKS.

02146381 SUGAR CREEK AT NC 51 NEAR PINEVILLE, NC--Continued



SANTEE RIVER BASIN

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC

LOCATION.--Lat 35°12'11", long 80°50'15", Mecklenburg County, Hydrologic Unit 03050103, on left bank on upstream side of bridge at Medical Center Drive, 3.3 mi upstream from Briar Creek, and 1.3 mi south of city hall in Charlotte.

DRAINAGE AREA.--11.8 mi<sup>2</sup>, revised.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1994 to current year. Fragmentary records 1964-1966, in files of Geological Survey as "Little Sugar Creek at Brunswick Avenue at Charlotte".

GAGE.--Water-stage recorder. Datum of gage is 612.82 ft above sea level, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Sept. 6, 8, 1997 and may have been affected by regulation of unknown origin. Minimum discharge for current water year also occurred Sept. 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	3.5	3.2	3.4	8.8	4.5	10	3.8	36	2.7	3.1	3.1
2	3.4	3.5	3.3	e3.6	8.9	5.1	6.8	3.7	5.6	2.9	3.0	2.6
3	3.4	3.5	3.1	e3.6	8.9	23	9.2	3.6	3.9	3.3	3.0	140
4	3.1	4.0	3.3	3.5	8.8	88	6.3	3.5	3.6	116	3.0	92
5	3.5	4.1	3.3	e3.5	8.8	10	5.7	3.5	3.4	14	2.8	4.7
6	3.3	3.1	4.1	3.4	8.8	5.8	5.6	3.4	3.3	3.5	2.9	3.4
7	20	3.4	4.9	3.3	8.8	5.2	5.5	3.3	3.2	2.9	2.8	3.1
8	3.0	3.6	4.8	22	8.9	4.9	5.4	3.4	7.4	5.8	2.8	2.9
9	3.1	18	4.7	5.4	8.8	4.9	5.5	3.5	3.7	3.9	2.7	11
10	3.3	12	4.8	4.0	13	4.6	5.3	3.5	3.2	3.0	3.5	3.5
11	3.1	3.0	4.8	3.8	8.7	4.8	5.3	3.5	3.2	2.8	13	2.5
12	3.2	2.9	4.8	19	16	15	5.1	3.6	3.1	2.7	4.4	2.4
13	3.3	2.9	6.5	6.2	17	9.2	30	3.6	108	5.1	5.6	2.4
14	3.2	24	9.3	3.6	18	5.0	5.2	3.3	9.8	2.8	3.0	3.2
15	3.2	3.7	3.5	3.5	9.8	75	6.4	3.7	3.8	2.5	3.2	2.5
16	3.7	3.0	21	3.6	10	8.4	5.0	3.8	3.3	2.5	2.9	2.2
17	3.8	16	44	3.5	121	6.0	4.3	4.0	3.0	2.6	2.7	2.1
18	3.1	3.4	4.6	8.1	8.4	5.4	4.2	4.1	3.2	3.8	42	2.0
19	3.0	34	e4.5	62	6.5	5.1	4.4	4.1	2.9	3.9	7.5	2.0
20	3.0	9.7	e4.2	33	5.8	151	4.4	4.0	2.8	2.6	3.1	26
21	3.1	4.4	e4.0	15	5.4	87	4.2	28	2.8	2.5	2.9	3.1
22	3.2	3.5	e3.8	11	40	10	4.1	31	42	2.5	2.7	2.6
23	3.3	3.4	3.6	10	6.1	7.2	4.2	5.7	6.1	4.8	2.6	2.6
24	e3.5	3.3	3.6	9.5	4.9	6.4	6.0	36	3.0	63	4.4	242
25	e3.3	83	3.5	9.2	34	6.3	54	11	3.0	9.3	2.6	5.3
26	3.4	6.9	3.6	9.1	6.7	5.8	4.8	31	21	13	2.4	3.1
27	3.4	4.1	3.8	9.1	5.0	5.5	4.2	4.1	3.9	3.7	2.5	2.6
28	3.5	3.5	3.4	9.2	4.8	5.4	3.9	33	6.0	3.5	2.5	2.4
29	3.4	3.4	3.4	9.2	---	314	3.8	20	4.8	3.9	2.8	2.3
30	3.5	3.3	e3.6	16	---	25	3.8	4.6	2.8	3.3	3.1	2.3
31	3.6	---	3.6	9.2	---	10	---	3.8	---	3.1	7.9	---
TOTAL	120.2	280.1	186.6	318.5	420.6	923.5	232.6	281.1	311.8	301.9	153.4	581.9
MEAN	3.88	9.34	6.02	10.3	15.0	29.8	7.75	9.07	10.4	9.74	4.95	19.4
MAX	20	83	44	62	121	314	54	36	108	116	42	242
MIN	3.0	2.9	3.1	3.3	4.8	4.5	3.8	3.3	2.8	2.5	2.4	2.0
CFSM	.33	.79	.51	.87	1.27	2.52	.66	.77	.88	.83	.42	1.64
IN.	.38	.88	.59	1.00	1.33	2.91	.73	.89	.98	.95	.48	1.83

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2001, BY WATER YEAR (WY)

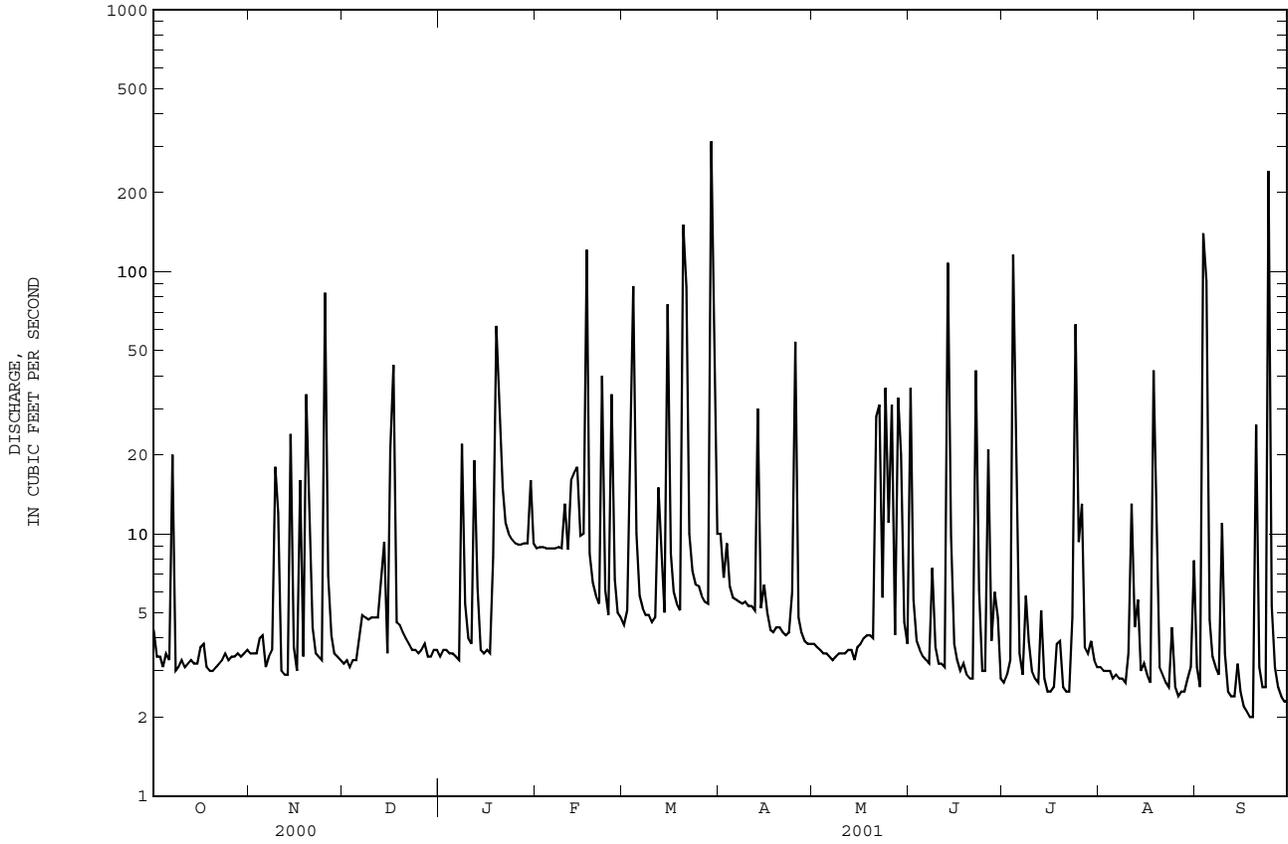
	1995	1996	1997	1998	1999	2000	2001
MEAN	15.8	13.2	11.0	24.6	24.5	19.8	21.1
MAX	28.9	30.3	23.1	48.5	36.9	29.8	42.0
(WY)	1996	1996	1998	1998	1995	2001	1998
MIN	3.88	5.48	6.02	10.3	13.6	8.45	7.06
(WY)	2001	1999	2001	2001	1999	1999	1995

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1995 - 2001

ANNUAL TOTAL	5453.8	4112.2	
ANNUAL MEAN	14.9	11.3	17.9
HIGHEST ANNUAL MEAN			23.8
LOWEST ANNUAL MEAN			11.3
HIGHEST DAILY MEAN	341	Sep 23	1970
LOWEST DAILY MEAN	2.9	Aug 23	1.5
ANNUAL SEVEN-DAY MINIMUM	3.2	Oct 8	2.3
MAXIMUM PEAK FLOW			1350
MAXIMUM PEAK STAGE			8.48
INSTANTANEOUS LOW FLOW			1.7*
ANNUAL RUNOFF (CFSM)	1.26		.95
ANNUAL RUNOFF (INCHES)	17.19		12.96
10 PERCENT EXCEEDS	26		20
50 PERCENT EXCEEDS	5.2		3.9
90 PERCENT EXCEEDS	3.4		2.8

e Estimated.  
\* See REMARKS.

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued



02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.-- Water years 1999 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1999 to current year.

pH: April 1999 to current year.

WATER TEMPERATURE: April 1999 to current year.

DISSOLVED OXYGEN: April 1999 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION: April 1999 to current year.

INSTRUMENTATION.-- Water-quality monitor with radio telemetry.

REMARKS.--Station operated in cooperation with Mecklenburg County Department of Environmental Protection to characterize water-quality conditions in Little Sugar Creek basin. Dissolved oxygen, percent saturation, computed using barometric pressure of 740 mm Hg.

EXTREMES FOR PERIOD OF DAILY RECORD.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	5220, January 23, 2000	26, October 10, 1999, April 13, 15, 2000
pH, standard units	10.6, March 16, 2000	5.9, April 23, 1999
WATER TEMPERATURE, °C	31.4, July 31, 1999	1.5, December 31, 2000, January 3, 2001
DISSOLVED OXYGEN, mg/L	≥ 20.0, September 3, 1999	2.2, August 18, 2000
DISSOLVED OXYGEN, PERCENT SATURATION,%	184, May 20, 2000	24, September 5, 1999

EXTREMES FOR CURRENT YEAR.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	2190, December 22	34, September 24
pH, standard units	8.9, January 19	6.5, September 3, 4
WATER TEMPERATURE, °C	29.8, August 11	1.5, December 31, January 3
DISSOLVED OXYGEN, mg/L	13.1, January 3	3.3, April 24
DISSOLVED OXYGEN, PERCENT SATURATION,%	145, June 21	38, April 15

SANTEE RIVER BASIN

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	270	260	266	254	250	252
2	---	---	---	---	---	---	275	262	270	252	242	246
3	---	---	---	---	---	---	263	259	260	462	240	317
4	---	---	---	---	---	---	266	225	259	259	233	239
5	---	---	---	---	---	---	268	232	260	271	241	257
6	---	---	---	---	---	---	260	252	256	420	243	280
7	---	---	---	---	---	---	265	242	259	269	263	266
8	255	207	243	---	---	---	274	260	268	489	170	223
9	252	239	247	---	---	---	274	267	270	220	189	208
10	258	247	252	---	---	---	270	264	268	250	220	239
11	---	---	---	219	187	203	271	265	269	264	232	255
12	---	---	---	230	219	222	269	266	268	285	158	221
13	---	---	---	250	124	239	267	202	256	212	170	189
14	---	---	---	247	72	150	351	151	230	236	212	226
15	---	---	---	182	148	169	240	226	233	255	236	248
16	---	---	---	219	168	202	259	84	161	270	231	255
17	---	---	---	215	76	136	160	71	117	260	246	254
18	---	---	---	197	153	176	221	160	184	263	195	248
19	---	---	---	231	60	140	982	198	302	234	69	183
20	---	---	---	164	100	130	982	345	471	179	121	144
21	---	---	---	200	164	181	672	278	340	208	153	178
22	---	---	---	231	196	217	2190	357	911	238	208	228
23	---	---	---	243	231	237	377	318	346	255	236	247
24	---	---	---	257	242	251	318	288	304	253	244	250
25	---	---	---	322	59	150	288	273	279	267	248	261
26	---	---	---	182	110	153	274	261	267	265	253	260
27	---	---	---	246	182	209	419	267	292	267	256	262
28	---	---	---	260	234	250	530	297	385	266	253	260
29	---	---	---	259	244	252	297	285	289	264	198	252
30	---	---	---	267	255	261	299	278	291	255	147	212
31	---	---	---	---	---	---	325	250	273	239	201	216
MONTH	---	---	---	---	---	---	2190	71	294	489	69	238

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	255	239	251	289	274	282	278	174	248	311	295	307
2	265	254	261	292	157	262	280	251	267	317	303	310
3	264	249	259	286	93	204	291	210	261	314	299	305
4	262	254	258	184	48	117	276	249	261	315	291	302
5	258	253	255	223	153	196	---	---	---	315	287	303
6	259	253	256	268	223	246	---	---	---	311	283	300
7	263	253	260	282	266	269	---	---	---	305	290	299
8	270	241	260	289	270	282	---	---	---	310	290	302
9	269	260	266	293	277	288	---	---	---	306	292	297
10	291	195	243	295	286	290	---	---	---	294	281	288
11	252	239	247	291	277	286	317	288	300	295	276	286
12	251	173	206	294	126	260	---	---	---	292	282	286
13	227	87	198	217	152	182	---	---	---	303	266	281
14	229	95	182	265	217	244	---	---	---	291	275	283
15	247	198	224	275	68	135	---	---	---	302	290	295
16	265	175	254	237	140	193	---	---	---	302	288	293
17	183	62	122	285	237	259	---	---	---	306	289	296
18	241	176	213	286	272	276	---	---	---	312	297	305
19	260	241	253	286	278	283	---	---	---	313	292	302
20	268	260	264	289	59	171	342	308	321	307	288	300
21	280	265	273	207	67	143	335	311	321	296	86	173
22	285	66	158	263	207	236	331	315	321	199	103	152
23	218	138	185	290	263	276	344	314	329	232	129	179
24	257	218	237	299	284	291	349	225	308	261	71	214
25	268	112	170	322	291	298	271	76	121	199	100	156
26	229	146	194	310	276	283	245	158	210	177	80	131
27	269	229	246	301	289	294	282	245	266	237	177	218
28	285	262	273	304	287	295	295	282	288	244	85	144
29	---	---	---	296	45	124	300	291	297	153	64	94
30	---	---	---	240	95	184	307	276	294	127	82	109
31	---	---	---	---	---	---	---	---	---	150	127	138
MONTH	291	62	231	---	---	---	---	---	---	317	64	247

## SANTEE RIVER BASIN

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	204	76	145	271	257	265	285	271	280	236	138	203
2	228	141	187	292	211	277	284	275	280	278	236	266
3	263	228	245	289	261	284	292	283	287	273	40	110
4	289	235	276	290	55	231	290	252	282	140	48	95
5	294	287	291	195	72	140	296	261	278	242	139	194
6	294	270	286	249	195	226	282	266	276	---	---	---
7	295	282	288	266	249	260	293	272	286	---	---	---
8	292	181	241	271	183	230	303	284	291	274	259	268
9	248	214	231	259	231	245	295	283	291	275	76	207
10	273	248	261	263	252	256	301	147	292	240	186	228
11	285	273	279	281	263	272	287	117	182	269	232	259
12	293	280	287	290	279	283	222	142	190	309	268	294
13	293	46	218	291	209	246	257	127	204	288	273	282
14	206	82	153	273	256	268	278	179	247	294	213	264
15	255	206	234	283	263	275	308	269	286	270	212	241
16	274	255	266	286	270	281	274	257	264	---	---	---
17	283	274	280	290	267	282	285	274	280	297	269	290
18	291	220	272	292	202	274	289	83	254	296	289	294
19	295	258	283	268	202	246	197	106	156	303	292	297
20	309	294	301	285	268	278	239	197	222	295	73	157
21	315	301	307	289	277	286	271	239	248	---	---	---
22	313	54	245	289	277	283	284	269	277	---	---	---
23	206	102	156	288	194	267	287	280	284	252	242	247
24	258	206	235	220	53	155	286	196	237	250	34	103
25	293	258	277	210	95	146	280	249	269	216	124	174
26	295	68	219	171	104	135	278	255	269	253	216	235
27	238	158	201	231	171	207	293	263	280	272	251	262
28	325	174	264	342	224	262	290	283	287	---	---	---
29	217	148	179	294	216	264	292	258	277	288	280	284
30	259	217	243	268	219	250	286	178	254	287	282	284
31	---	---	---	282	262	276	284	95	217	---	---	---
MONTH	325	46	245	342	53	247	308	83	259	---	---	---

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	7.2	7.2	7.2	7.4	7.2	7.3
2	---	---	---	---	---	---	7.3	7.1	7.2	7.4	7.2	7.3
3	---	---	---	---	---	---	7.3	7.1	7.2	7.3	7.1	7.2
4	---	---	---	---	---	---	7.3	7.2	7.2	7.2	7.1	7.1
5	---	---	---	---	---	---	7.2	7.1	7.2	7.3	7.1	7.2
6	---	---	---	---	---	---	7.2	7.1	7.1	7.2	7.0	7.1
7	---	---	---	---	---	---	7.2	7.1	7.1	7.2	7.0	7.1
8	7.5	7.3	7.4	---	---	---	7.2	7.0	7.1	7.8	7.0	7.2
9	7.5	7.3	7.4	---	---	---	7.1	7.0	7.0	7.0	6.8	6.9
10	7.5	7.2	7.4	---	---	---	7.1	7.0	7.1	7.3	6.9	7.1
11	---	---	---	7.2	7.1	7.2	7.1	6.9	7.0	7.3	7.2	7.2
12	---	---	---	7.3	7.2	7.3	7.1	6.9	7.0	7.9	7.2	7.3
13	---	---	---	7.5	7.3	7.4	7.4	7.0	7.2	7.5	7.0	7.2
14	---	---	---	7.8	7.2	7.4	7.7	7.2	7.3	7.2	7.0	7.1
15	---	---	---	7.2	7.2	7.2	7.7	7.1	7.2	7.3	7.1	7.2
16	---	---	---	7.3	7.2	7.2	8.4	7.0	7.3	7.3	7.1	7.2
17	---	---	---	7.4	6.9	7.2	8.1	7.0	7.1	7.5	7.1	7.3
18	---	---	---	7.0	6.9	7.0	7.1	7.0	7.0	7.4	7.2	7.3
19	---	---	---	7.2	6.8	7.0	7.2	6.9	7.1	8.9	7.2	7.4
20	---	---	---	7.1	6.8	6.9	7.3	7.0	7.2	7.2	7.1	7.2
21	---	---	---	7.2	7.1	7.1	7.5	7.3	7.3	7.2	7.2	7.2
22	---	---	---	7.1	7.1	7.1	7.4	7.3	7.4	7.3	7.2	7.3
23	---	---	---	7.2	7.1	7.1	7.4	7.4	7.4	7.5	7.3	7.4
24	---	---	---	7.2	7.2	7.2	7.4	7.4	7.4	7.6	7.4	7.5
25	---	---	---	8.3	7.0	7.2	7.5	7.4	7.4	7.5	7.4	7.5
26	---	---	---	7.2	7.0	7.1	7.5	7.4	7.4	7.6	7.4	7.5
27	---	---	---	7.4	7.2	7.3	7.7	7.3	7.5	7.5	7.4	7.5
28	---	---	---	7.3	7.1	7.2	7.5	7.3	7.4	7.6	7.4	7.4
29	---	---	---	7.3	7.1	7.2	7.4	7.3	7.4	7.6	7.4	7.5
30	---	---	---	7.3	7.2	7.2	7.5	7.3	7.4	7.5	7.1	7.3
31	---	---	---	---	---	---	7.4	7.2	7.3	7.5	7.1	7.3
MONTH	---	---	---	---	---	---	8.4	6.9	7.2	8.9	6.8	7.3

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	7.7	7.4	7.5	7.6	7.4	7.5	7.5	7.3	7.4	7.5	7.3	7.4
2	7.8	7.4	7.6	7.7	7.4	7.5	7.5	7.4	7.5	7.6	7.3	7.4
3	7.8	7.5	7.6	7.4	7.2	7.3	7.5	7.4	7.4	7.8	7.2	7.5
4	7.8	7.5	7.6	7.6	6.9	7.1	7.5	7.4	7.4	7.8	7.2	7.5
5	7.7	7.5	7.6	7.3	7.1	7.2	---	---	---	7.9	6.9	7.5
6	7.8	7.5	7.6	7.3	7.2	7.2	---	---	---	8.2	7.2	7.7
7	7.8	7.5	7.6	7.4	7.1	7.3	---	---	---	8.6	7.5	8.0
8	7.8	7.5	7.6	7.6	7.3	7.4	---	---	---	8.5	7.9	8.1
9	7.9	7.5	7.7	7.6	7.4	7.5	---	---	---	8.4	7.7	8.1
10	7.7	7.3	7.5	7.6	7.5	7.5	---	---	---	8.3	7.7	8.0
11	7.8	7.4	7.6	7.7	7.5	7.6	8.1	7.4	7.7	8.2	7.6	7.8
12	7.5	7.3	7.4	8.4	7.4	7.6	8.4	7.4	7.8	8.1	7.4	7.7
13	7.8	7.2	7.4	7.5	6.9	7.2	---	---	---	8.0	7.4	7.6
14	7.6	7.3	7.4	7.6	7.0	7.4	---	---	---	7.9	7.3	7.5
15	7.5	7.3	7.4	7.9	7.2	7.4	---	---	---	7.9	7.0	7.4
16	7.6	7.1	7.4	7.4	7.3	7.4	---	---	---	8.1	7.2	7.6
17	8.5	7.1	7.4	7.6	7.4	7.5	---	---	---	7.7	7.2	7.4
18	7.4	7.3	7.4	7.7	7.5	7.6	---	---	---	8.1	7.1	7.6
19	7.5	7.4	7.4	7.7	7.5	7.6	---	---	---	7.9	7.3	7.5
20	7.5	7.4	7.4	7.9	7.2	7.5	---	---	---	7.8	7.2	7.4
21	7.5	7.4	7.4	7.3	7.1	7.2	---	---	---	7.7	6.8	7.1
22	8.3	7.3	7.4	7.7	7.2	7.4	---	---	---	7.9	6.6	7.1
23	7.4	7.3	7.4	7.6	7.5	7.5	---	---	---	7.1	6.8	7.0
24	7.6	7.4	7.5	7.6	7.4	7.5	---	---	---	8.1	6.8	7.2
25	7.8	7.2	7.4	7.7	7.5	7.6	7.6	7.1	7.3	7.3	7.0	7.2
26	7.4	7.2	7.3	7.7	7.5	7.6	7.4	7.2	7.3	7.3	6.8	7.0
27	7.6	7.4	7.5	7.7	7.5	7.6	7.5	7.3	7.4	7.4	7.1	7.3
28	7.6	7.3	7.4	7.7	7.6	7.6	7.5	7.3	7.4	7.3	6.8	7.0
29	---	---	---	7.6	7.0	7.3	7.6	7.3	7.4	7.1	6.7	6.9
30	---	---	---	7.4	7.1	7.3	7.6	7.4	7.5	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	8.5	7.1	7.5	---	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	7.8	7.2	7.4	8.0	7.2	7.5	7.0	6.7	6.8
2	---	---	---	7.6	6.9	7.3	8.3	7.3	7.6	7.0	6.8	6.9
3	---	---	---	7.8	7.0	7.3	8.3	7.1	7.5	7.3	6.5	6.7
4	---	---	---	8.2	6.9	7.5	7.7	7.2	7.4	6.9	6.5	6.7
5	---	---	---	7.4	6.9	7.2	8.1	7.2	7.5	6.8	6.7	6.7
6	7.9	7.6	7.8	7.6	7.3	7.4	8.0	7.3	7.6	---	---	---
7	8.0	7.7	7.8	7.7	7.3	7.5	7.9	7.3	7.5	---	---	---
8	7.8	7.5	7.7	7.5	7.1	7.3	7.9	7.3	7.5	7.4	6.8	7.0
9	7.8	7.5	7.6	7.5	7.2	7.3	7.8	7.2	7.5	7.1	6.7	7.0
10	8.2	7.6	7.8	7.7	7.1	7.3	7.9	7.2	7.4	7.2	6.9	7.0
11	8.5	7.6	7.9	8.0	7.2	7.4	7.9	6.8	7.0	7.1	6.8	6.9
12	8.4	7.4	7.8	8.2	7.2	7.6	7.1	6.8	6.9	7.4	6.8	7.1
13	8.3	6.8	7.3	7.7	7.1	7.4	7.1	6.6	6.9	7.7	7.0	7.3
14	7.1	6.8	7.0	8.0	7.2	7.5	7.1	6.7	6.9	8.1	7.2	7.6
15	7.3	7.1	7.2	8.4	7.3	7.6	7.1	6.8	7.0	8.0	7.3	7.5
16	7.5	7.2	7.3	8.4	7.3	7.7	7.1	6.8	7.0	---	---	---
17	7.6	7.2	7.4	8.5	7.2	7.7	7.3	7.0	7.1	8.1	7.4	7.7
18	7.7	7.2	7.4	8.5	6.9	7.7	8.0	6.7	7.2	8.0	7.5	7.6
19	7.8	7.2	7.5	7.5	6.8	7.1	7.0	6.7	6.9	8.0	7.5	7.7
20	8.1	7.1	7.6	7.9	6.9	7.3	7.2	7.0	7.1	7.6	7.3	7.4
21	8.3	7.2	7.7	8.2	7.2	7.6	7.6	7.1	7.3	---	---	---
22	7.8	6.6	7.3	8.3	7.3	7.6	7.8	7.4	7.5	---	---	---
23	6.9	6.6	6.7	7.9	7.2	7.5	8.1	7.4	7.7	7.9	7.6	7.7
24	7.1	6.8	6.9	8.6	7.0	7.3	7.6	7.4	7.5	8.2	7.0	7.3
25	7.3	6.9	7.1	7.7	7.3	7.4	8.0	7.5	7.7	7.5	7.2	7.4
26	8.2	7.0	7.2	7.4	7.2	7.3	8.3	7.5	7.8	7.6	7.5	7.5
27	7.5	7.2	7.4	7.5	7.3	7.4	8.4	7.5	7.8	7.7	7.6	7.6
28	7.7	7.3	7.4	7.5	7.4	7.5	8.4	7.5	7.8	---	---	---
29	7.5	7.1	7.3	7.7	7.4	7.5	8.0	7.4	7.6	7.8	7.5	7.6
30	7.6	7.2	7.4	7.6	7.3	7.4	7.7	7.2	7.4	7.8	7.5	7.6
31	---	---	---	7.8	7.3	7.5	7.6	6.7	7.2	---	---	---
MONTH	---	---	---	8.6	6.8	7.4	8.4	6.6	7.4	---	---	---

## SANTEE RIVER BASIN

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	9.2	7.3	8.4	4.1	2.3	3.2
2	---	---	---	---	---	---	8.9	7.8	8.1	3.9	2.2	3.2
3	---	---	---	---	---	---	7.8	5.8	6.6	3.7	1.5	2.7
4	---	---	---	---	---	---	6.6	4.2	5.5	4.7	1.7	3.1
5	---	---	---	---	---	---	7.2	4.2	5.8	5.7	2.7	4.1
6	---	---	---	---	---	---	6.7	5.3	6.0	6.1	3.7	4.9
7	---	---	---	---	---	---	7.9	5.5	6.7	6.6	4.2	5.4
8	19.0	13.9	15.5	---	---	---	8.8	6.2	7.5	7.4	6.4	6.9
9	14.4	12.4	13.5	---	---	---	8.6	7.1	8.0	6.8	4.8	5.9
10	15.2	11.8	13.5	---	---	---	8.5	7.5	7.8	6.4	3.5	4.9
11	---	---	---	15.3	12.7	13.9	9.4	7.7	8.4	7.0	4.2	5.7
12	---	---	---	14.2	12.1	13.3	10.7	8.1	9.8	8.0	6.5	7.2
13	---	---	---	14.2	11.9	13.1	8.1	5.7	6.5	7.9	5.5	6.8
14	---	---	---	14.6	12.6	13.8	7.7	6.1	6.8	9.2	7.1	8.0
15	---	---	---	12.6	10.5	11.7	7.9	7.3	7.7	10.9	8.1	9.4
16	---	---	---	11.9	10.2	10.9	8.4	6.2	7.0	10.5	8.7	9.6
17	---	---	---	12.1	10.6	11.1	11.8	7.1	9.5	9.6	8.1	8.8
18	---	---	---	10.6	9.0	9.7	7.7	5.3	6.5	9.6	8.7	9.0
19	---	---	---	9.7	5.8	7.4	7.3	5.4	6.2	10.7	8.7	9.4
20	---	---	---	9.6	6.3	8.0	5.4	3.1	4.3	11.1	8.0	10.2
21	---	---	---	8.7	6.8	7.5	5.6	3.3	4.2	8.0	5.7	6.7
22	---	---	---	7.5	5.0	6.4	6.0	4.1	5.2	7.6	5.5	6.4
23	---	---	---	8.6	6.2	7.4	4.4	2.4	3.5	7.4	4.5	6.0
24	---	---	---	9.3	7.7	8.4	5.2	3.0	4.0	8.4	5.6	6.9
25	---	---	---	9.5	8.2	8.9	4.6	2.7	3.4	7.5	6.0	6.8
26	---	---	---	10.8	9.3	9.9	4.2	2.1	3.1	7.0	4.2	5.7
27	---	---	---	10.7	8.8	9.8	5.0	3.6	4.1	8.4	5.3	6.8
28	---	---	---	10.7	8.4	9.6	5.1	4.1	4.9	8.0	5.1	6.6
29	---	---	---	11.3	9.0	10.1	4.4	2.7	3.7	9.3	5.8	7.5
30	---	---	---	11.0	8.9	9.8	4.1	2.7	3.6	11.7	8.9	10.6
31	---	---	---	---	---	---	3.8	1.5	2.6	11.7	9.7	10.7
MONTH	---	---	---	---	---	---	11.8	1.5	6.0	11.7	1.5	6.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	10.9	9.4	10.1	14.1	11.2	12.6	14.3	12.3	13.4	21.8	17.0	19.3
2	9.9	8.5	9.4	16.1	12.0	13.9	14.6	10.1	12.4	22.1	18.0	20.0
3	8.5	6.6	7.6	15.0	12.2	13.8	14.1	12.7	13.3	22.6	18.1	20.3
4	9.5	6.9	8.0	12.4	11.1	11.8	14.8	13.2	13.9	23.0	18.4	20.7
5	10.1	7.6	8.8	13.0	10.4	11.7	---	---	---	23.6	19.0	21.2
6	10.1	6.8	8.5	10.4	7.3	8.4	---	---	---	22.0	19.6	20.6
7	11.4	7.2	9.2	10.1	6.7	8.2	---	---	---	20.3	17.0	18.8
8	12.1	8.7	10.3	11.4	7.0	9.1	---	---	---	19.5	17.4	18.5
9	13.0	9.5	11.2	12.6	9.2	10.6	---	---	---	21.4	18.2	19.6
10	14.4	11.6	13.2	11.9	7.9	9.8	---	---	---	22.7	18.4	20.6
11	11.6	8.4	9.7	12.8	8.4	10.5	22.4	19.5	20.8	23.6	19.4	21.5
12	9.6	6.9	7.9	14.6	10.7	12.2	22.8	19.4	21.1	22.8	20.1	21.5
13	9.8	6.8	7.9	16.5	13.5	14.7	---	---	---	22.2	19.4	20.9
14	11.7	9.4	10.3	15.5	12.4	13.9	---	---	---	21.0	17.4	19.4
15	13.9	11.7	13.0	14.2	12.0	12.7	---	---	---	22.4	18.1	20.2
16	15.7	13.2	14.3	12.3	11.5	11.8	---	---	---	23.3	19.2	21.3
17	15.1	10.8	12.6	14.8	10.7	12.5	---	---	---	21.8	19.2	19.9
18	10.8	7.8	9.1	13.3	10.3	11.9	---	---	---	23.3	18.6	20.9
19	10.6	7.4	8.8	12.9	9.4	11.2	---	---	---	24.5	20.0	22.3
20	12.4	8.5	10.3	11.1	7.8	9.0	17.3	12.9	15.0	24.0	21.2	22.7
21	12.1	11.0	11.5	10.2	8.4	9.3	19.8	15.1	17.3	23.4	21.7	22.5
22	11.2	6.2	7.6	13.3	8.8	11.0	21.1	16.8	18.9	23.6	21.3	22.2
23	10.4	5.9	7.8	14.4	10.4	12.4	22.1	17.7	19.8	22.5	18.9	20.7
24	12.0	8.3	10.0	15.0	11.1	13.0	22.6	18.6	20.4	23.3	18.4	20.3
25	14.1	11.4	12.8	14.1	11.5	12.9	20.4	15.0	16.2	20.9	19.3	20.3
26	15.0	12.2	13.6	13.2	10.3	11.9	18.2	14.0	15.9	21.9	18.2	19.9
27	13.9	11.2	12.6	12.4	8.6	10.4	19.9	14.4	17.0	22.7	18.5	20.6
28	13.4	12.4	12.9	12.9	8.7	10.7	21.3	16.2	18.6	21.1	18.7	19.6
29	---	---	---	11.5	8.4	9.6	19.5	16.9	17.9	22.6	19.5	20.7
30	---	---	---	14.1	8.8	11.2	20.4	15.9	18.1	23.8	19.7	21.7
31	---	---	---	15.2	12.0	13.7	---	---	---	23.0	20.2	21.6
MONTH	15.7	5.9	10.3	16.5	6.7	11.5	---	---	---	24.5	17.0	20.7

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	22.5	20.6	21.5	26.4	24.1	25.4	25.2	23.4	24.3	24.5	23.7	24.2
2	24.0	20.2	21.9	26.5	24.4	25.5	25.4	22.8	24.2	24.6	23.5	24.1
3	24.7	20.1	22.3	26.0	23.7	24.9	25.8	22.8	24.5	24.4	21.5	22.5
4	25.7	21.3	23.5	27.5	23.9	25.1	25.6	23.8	24.3	22.0	21.0	21.6
5	26.9	22.7	24.8	27.3	23.2	25.1	26.1	23.2	24.7	25.3	21.5	23.2
6	26.5	23.1	24.8	26.4	23.9	25.2	26.9	24.3	25.7	---	---	---
7	25.2	23.4	24.1	25.9	23.5	24.8	27.1	24.8	26.2	24.7	22.6	23.8
8	23.9	22.1	23.1	25.3	23.7	24.2	27.8	25.2	26.7	24.7	22.3	23.7
9	23.9	22.0	22.9	25.9	23.1	24.4	28.4	25.7	27.2	24.7	22.6	23.8
10	25.2	21.4	23.4	27.9	23.7	25.7	28.3	26.3	27.4	26.0	23.5	24.8
11	25.4	22.3	23.9	27.7	25.1	26.5	29.8	26.3	27.7	25.6	23.4	24.4
12	25.4	22.8	24.1	26.9	24.2	25.8	28.3	26.2	27.4	24.2	22.2	23.3
13	27.0	23.3	24.5	26.2	23.6	24.3	27.4	25.5	26.2	23.5	21.4	22.7
14	26.8	22.7	24.6	25.2	22.2	23.8	26.7	24.7	25.8	22.9	21.2	22.1
15	26.7	23.6	25.1	25.3	22.7	24.1	26.4	24.5	25.5	22.2	18.8	20.0
16	26.8	23.8	25.3	25.1	22.5	24.0	26.8	24.0	25.5	---	---	---
17	26.5	22.7	24.7	25.9	23.1	24.6	27.2	25.1	26.3	20.4	18.3	19.6
18	26.4	23.0	25.0	26.6	23.8	25.2	27.1	24.9	26.1	21.3	18.7	20.1
19	25.9	23.9	24.9	26.6	24.5	25.6	26.8	24.3	25.5	22.2	19.5	21.0
20	26.0	23.0	24.7	26.0	24.2	25.1	26.8	24.5	25.7	22.8	21.1	22.1
21	26.1	23.5	25.0	25.2	23.0	24.3	25.7	23.2	24.5	---	---	---
22	26.0	23.7	24.5	25.4	22.1	24.0	25.1	22.6	24.1	---	---	---
23	25.1	22.6	23.8	26.2	22.9	24.5	26.0	22.9	24.6	24.3	22.4	23.5
24	24.9	22.2	23.6	28.0	24.8	25.8	27.7	25.2	26.4	23.9	21.2	22.1
25	25.0	22.0	23.6	25.7	24.3	25.0	25.9	23.8	25.0	21.2	18.8	20.1
26	26.7	22.6	24.2	25.8	23.3	24.4	25.5	23.7	24.8	19.4	16.7	18.1
27	26.7	23.1	24.9	25.3	23.2	24.2	26.6	24.3	25.6	19.8	16.9	18.4
28	26.9	23.5	25.2	24.3	22.5	23.3	26.4	24.5	25.7	---	---	---
29	27.0	23.7	25.4	25.1	23.2	23.9	26.5	24.8	25.9	18.4	16.3	17.4
30	27.1	24.4	25.8	26.0	23.3	24.7	27.1	24.7	25.6	17.9	16.1	17.1
31	---	---	---	25.8	23.6	24.8	26.1	24.3	25.1	---	---	---
MONTH	27.1	20.1	24.2	28.0	22.1	24.8	29.8	22.6	25.6	---	---	---

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	---	---	---	9.4	8.2	8.8	12.4	11.6	11.9
2	---	---	---	---	---	---	9.6	8.2	9.1	12.5	11.8	12.1
3	---	---	---	---	---	---	10.9	9.2	10.2	13.1	12.0	12.4
4	---	---	---	---	---	---	11.5	10.1	10.9	12.8	11.5	12.2
5	---	---	---	---	---	---	11.4	10.2	10.8	12.6	10.9	11.8
6	---	---	---	---	---	---	11.3	10.2	10.7	12.3	10.8	11.4
7	---	---	---	---	---	---	11.1	10.0	10.5	12.6	10.7	11.5
8	9.4	7.5	8.6	---	---	---	10.8	9.6	10.2	11.1	10.2	10.7
9	10.1	8.7	9.3	---	---	---	10.7	9.6	10.1	11.3	10.2	10.7
10	10.0	7.9	9.0	---	---	---	10.6	9.8	10.1	12.0	10.4	11.3
11	---	---	---	---	---	---	10.9	9.7	10.2	11.9	10.3	11.1
12	---	---	---	---	---	---	10.5	9.1	9.8	10.8	9.9	10.4
13	---	---	---	---	---	---	11.9	9.8	10.8	11.2	10.3	10.7
14	---	---	---	9.2	7.6	8.3	10.8	9.5	10.2	11.0	9.7	10.3
15	---	---	---	9.3	8.2	8.9	10.0	9.3	9.6	10.8	9.2	9.9
16	---	---	---	9.6	8.9	9.3	11.4	9.5	10.6	10.9	9.1	9.7
17	---	---	---	10.2	8.7	9.3	10.8	9.8	10.2	10.9	9.2	9.9
18	---	---	---	9.6	8.7	9.1	11.1	10.1	10.6	9.9	9.0	9.4
19	---	---	---	11.7	9.0	10.5	11.6	10.2	10.8	9.9	9.0	9.3
20	---	---	---	11.1	9.6	10.3	11.8	10.7	11.2	10.3	9.2	9.6
21	---	---	---	10.5	9.6	10.1	11.5	10.9	11.2	11.0	10.2	10.6
22	---	---	---	10.9	10.0	10.5	11.5	10.3	11.0	11.2	10.4	10.7
23	---	---	---	10.7	9.9	10.3	12.4	11.5	11.8	11.4	10.3	10.8
24	---	---	---	10.2	9.5	9.9	12.0	11.3	11.7	11.0	10.0	10.5
25	---	---	---	11.1	9.4	10.0	12.4	11.4	12.0	11.2	10.0	10.5
26	---	---	---	9.8	9.3	9.6	12.6	11.2	12.1	11.7	10.5	11.0
27	---	---	---	10.1	8.5	9.6	11.9	10.3	11.5	11.3	9.8	10.6
28	---	---	---	9.3	7.5	8.5	10.9	9.9	10.5	11.6	9.8	10.7
29	---	---	---	9.2	7.6	8.5	12.0	10.8	11.4	11.5	9.7	10.6
30	---	---	---	9.1	8.1	8.5	11.9	10.8	11.4	9.8	8.6	9.3
31	---	---	---	---	---	---	12.6	11.5	12.0	10.4	8.6	9.3
MONTH	---	---	---	---	---	---	12.6	8.2	10.7	13.1	8.6	10.7

## SANTEE RIVER BASIN

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	10.9	8.7	9.6	10.2	7.4	8.9	---	---	---	8.7	6.1	7.1
2	11.0	8.8	9.6	10.2	8.1	9.0	---	---	---	9.1	6.1	7.2
3	11.4	8.9	9.9	10.2	7.7	8.6	9.1	8.5	8.8	9.4	6.0	7.3
4	11.0	8.9	9.7	10.7	9.5	10.1	9.2	8.3	8.7	9.6	6.3	7.5
5	10.4	8.7	9.3	10.3	9.4	9.8	---	---	---	9.8	6.2	7.6
6	10.7	8.5	9.3	11.1	9.5	10.5	---	---	---	9.4	6.2	7.6
7	10.3	8.1	9.1	11.0	9.9	10.4	---	---	---	10.0	6.5	8.1
8	10.0	7.9	8.7	10.9	9.5	10.2	---	---	---	9.6	6.8	7.9
9	10.1	7.3	8.5	10.7	9.2	9.8	---	---	---	9.9	6.5	7.8
10	9.3	7.0	8.0	11.2	9.6	10.2	---	---	---	10.0	6.1	7.6
11	10.7	7.7	9.1	11.3	9.5	10.2	10.5	6.0	7.6	9.8	5.9	7.4
12	10.1	8.5	9.3	10.3	8.2	9.3	---	---	---	9.8	5.9	7.5
13	10.8	9.1	9.8	8.4	7.3	8.0	---	---	---	10.1	6.1	7.7
14	9.7	8.5	9.1	9.4	7.6	8.4	---	---	---	10.7	6.6	8.2
15	8.8	7.5	8.1	9.4	7.7	8.8	---	---	---	10.6	6.6	8.1
16	8.8	7.4	7.9	8.9	8.6	8.8	---	---	---	10.5	6.0	7.7
17	9.8	7.6	9.3	9.3	8.3	8.8	---	---	---	9.3	5.6	7.0
18	10.9	9.5	10.3	9.8	8.3	9.0	---	---	---	10.3	5.2	7.4
19	10.8	9.8	10.3	10.0	8.4	9.1	---	---	---	9.6	4.8	6.6
20	10.6	9.3	10.0	11.5	8.4	10.1	8.1	4.9	6.6	9.2	4.9	6.5
21	10.2	9.1	9.5	11.6	9.9	10.8	7.7	5.2	6.3	---	---	---
22	11.9	9.0	10.8	10.5	8.7	9.8	7.3	5.1	5.9	---	---	---
23	11.8	10.5	11.2	9.7	8.7	9.2	6.8	3.5	5.3	6.3	4.8	5.8
24	11.5	9.9	10.6	9.6	8.6	9.0	7.1	3.3	5.3	7.5	4.2	5.1
25	10.4	9.3	9.8	10.0	8.6	9.2	8.3	3.9	7.4	6.2	3.8	4.3
26	10.0	9.0	9.4	10.3	8.7	9.5	7.8	6.1	7.0	7.2	4.7	5.6
27	10.5	8.5	9.7	10.8	9.5	10.1	7.2	5.6	6.4	5.6	4.4	5.0
28	9.5	7.2	8.1	11.2	9.6	10.2	6.7	5.1	5.8	8.7	4.5	6.6
29	---	---	---	---	---	---	7.5	5.2	6.3	8.4	6.3	7.2
30	---	---	---	---	---	---	8.2	5.9	6.8	7.1	5.3	6.4
31	---	---	---	---	---	---	---	---	---	6.5	5.2	5.8
MONTH	11.9	7.0	9.4	---	---	---	---	---	---	---	---	---
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.4	5.3	6.3	8.7	5.3	6.5	9.6	5.3	7.1	6.3	4.8	5.5
2	7.3	5.9	6.7	9.6	4.9	6.7	10.4	5.5	7.4	6.8	5.2	5.8
3	7.0	5.9	6.4	9.2	4.6	6.2	10.4	4.9	7.0	8.1	5.4	7.1
4	6.8	5.5	6.1	10.3	5.3	7.4	8.6	4.9	6.4	8.3	6.9	7.4
5	6.9	5.4	6.0	7.8	6.4	7.2	9.8	5.2	7.0	7.4	6.5	7.0
6	7.8	5.4	6.5	7.9	6.3	7.0	9.5	5.3	6.9	---	---	---
7	8.6	5.8	7.0	9.1	6.3	7.4	9.0	4.9	6.5	---	---	---
8	7.7	6.2	6.8	7.2	6.2	6.6	8.9	4.3	6.1	8.5	6.2	7.1
9	8.7	6.3	7.3	8.4	5.2	6.7	8.5	4.3	5.9	7.5	5.9	6.4
10	9.8	6.3	7.7	8.6	5.1	6.5	8.1	4.1	5.7	6.7	5.0	5.9
11	10.3	6.3	7.9	9.4	4.7	6.4	6.9	4.1	5.0	7.3	5.0	6.0
12	11.1	5.7	7.8	10.4	4.5	6.9	6.0	4.7	5.2	8.2	5.4	6.5
13	10.0	4.8	6.7	8.0	5.0	6.1	6.6	4.3	5.3	8.6	5.4	6.7
14	7.1	6.1	6.7	9.7	5.2	6.8	5.6	4.2	4.9	9.2	5.5	7.0
15	7.3	5.8	6.5	10.6	4.8	7.0	6.3	4.2	5.1	9.6	6.1	7.4
16	7.9	5.8	6.6	11.0	5.3	7.2	6.4	3.8	4.9	---	---	---
17	8.8	5.8	6.9	11.3	5.0	7.4	7.0	4.1	5.3	9.9	6.2	7.6
18	9.5	6.0	7.3	11.4	4.8	7.4	7.5	4.5	6.1	9.6	6.1	7.5
19	10.2	6.1	7.7	7.6	4.1	5.4	6.9	5.6	6.4	9.6	6.2	7.5
20	11.1	5.8	7.7	9.0	4.4	6.2	6.8	5.3	6.0	8.0	6.2	6.9
21	11.5	5.7	7.9	9.9	4.5	6.5	7.5	5.2	6.2	---	---	---
22	10.4	5.8	7.5	9.9	4.8	6.6	8.2	5.2	6.4	---	---	---
23	7.2	5.8	6.6	8.6	4.9	6.4	9.2	5.2	7.0	8.4	6.2	7.0
24	8.1	5.8	6.8	7.1	4.8	5.6	6.9	5.3	6.0	9.0	6.5	8.1
25	8.7	5.9	7.1	6.3	5.4	5.9	8.3	5.4	6.5	---	---	---
26	9.1	5.6	6.7	6.7	5.3	6.2	9.4	5.3	6.9	---	---	---
27	7.1	5.3	6.1	6.1	5.2	5.6	10.1	5.6	7.2	---	---	---
28	7.7	5.2	6.2	6.6	5.5	6.0	10.4	5.5	7.3	---	---	---
29	7.2	5.0	6.0	7.2	5.7	6.4	8.9	5.6	6.8	9.4	7.4	8.2
30	8.0	4.9	6.1	7.7	5.4	6.4	8.4	5.4	6.4	9.9	7.6	8.5
31	---	---	---	8.9	5.5	6.9	8.2	5.8	6.7	---	---	---
MONTH	11.5	4.8	6.9	11.4	4.1	6.6	10.4	3.8	6.2	---	---	---



## SANTEE RIVER BASIN

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	88	62	74	111	66	82	119	64	88	78	58	67
2	88	70	78	123	62	84	130	67	91	84	63	71
3	84	69	75	115	56	78	130	60	86	95	66	85
4	82	68	74	132	65	92	105	60	79	96	81	87
5	88	66	74	98	80	90	124	64	87	89	81	84
6	99	68	80	99	78	87	122	66	87	---	---	---
7	107	72	86	115	79	92	117	63	83	---	---	---
8	94	74	82	88	76	81	117	54	78	105	75	86
9	106	75	87	104	66	83	112	54	77	90	73	78
10	122	74	93	111	65	82	107	52	74	84	64	74
11	128	75	97	123	61	83	91	53	66	91	62	74
12	138	70	96	133	56	87	79	61	68	101	66	78
13	124	61	83	99	61	74	84	55	67	104	63	79
14	90	76	82	120	62	83	72	53	62	109	65	83
15	94	74	81	132	58	87	80	53	64	110	69	84
16	101	72	83	136	63	88	82	47	62	---	---	---
17	111	71	86	142	60	92	90	51	67	113	70	86
18	120	74	91	144	59	92	98	58	77	112	69	85
19	129	75	96	97	51	68	88	71	81	114	70	86
20	140	69	96	115	54	77	86	67	75	94	73	82
21	145	70	99	124	56	81	94	65	77	---	---	---
22	129	72	93	124	58	81	103	65	79	---	---	---
23	90	71	80	107	60	79	117	65	87	103	73	85
24	100	70	82	90	60	71	90	68	77	105	79	95
25	106	71	87	79	67	74	105	67	81	---	---	---
26	110	69	82	81	66	76	118	65	86	---	---	---
27	91	66	76	74	64	68	130	70	91	---	---	---
28	99	66	77	81	65	73	133	69	92	---	---	---
29	92	63	75	89	70	78	114	70	87	102	79	88
30	104	61	77	98	65	80	106	68	81	106	82	91
31	---	---	---	112	69	85	103	72	83	---	---	---
MONTH	145	61	84	144	51	82	133	47	79	---	---	---



Gaging station at Briar Creek near Charlotte, North Carolina.

SANTEE RIVER BASIN

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC

LOCATION.--Lat 35°14'07", long 80°46'18", Mecklenburg County, Hydrologic Unit 03050103, 400 ft upstream from bridge on Shamrock Drive, and 4 mi northwest of city hall in Charlotte.

DRAINAGE AREA.--5.2 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1998 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 672.00 ft above sea level, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records poor. Maximum discharge for period of record and current water year from rating curve extended above 76 ft<sup>3</sup>/s by step-backwater analysis. No flow occurred most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	.28	.39	2.8	.48	1.5	4.5	1.2	20	.22	.18	.21
2	.86	.34	.27	2.3	.48	1.5	2.8	1.0	1.8	.25	.10	.00
3	.77	.54	.14	2.0	.56	7.8	4.3	.91	.66	3.5	.02	25
4	.54	.57	.21	1.2	.69	45	2.7	.91	.85	210	.03	43
5	.53	.50	.25	1.6	.90	4.5	2.2	.88	.76	7.8	.05	1.3
6	.61	.09	.22	1.7	.86	2.1	2.1	.93	.83	.83	.01	.80
7	.52	.07	.43	2.6	1.1	1.7	3.6	.87	.93	.52	.01	.35
8	.52	.09	.46	13	1.2	1.5	1.9	.91	2.6	1.2	.01	.01
9	.53	3.5	.44	3.6	1.6	1.4	1.9	.89	.86	.77	.00	.99
10	.59	2.5	.41	3.6	3.0	1.3	1.9	.90	.70	.60	.00	.06
11	.48	.07	.38	4.8	1.6	1.6	1.9	.90	.68	.61	.00	.01
12	.37	.15	.28	15	5.6	8.1	1.9	.96	.67	.59	.06	.02
13	.30	.15	.73	5.2	3.2	4.3	12	1.0	94	1.1	.04	.02
14	.34	7.5	3.8	3.3	6.8	2.1	1.9	.90	4.8	.67	.21	.17
15	.17	.19	.46	3.1	1.9	32	2.4	1.1	.74	.43	.11	.00
16	.12	.31	5.8	3.6	1.9	4.8	1.6	1.2	.45	.36	.10	.00
17	.34	5.1	19	3.9	62	2.6	2.2	1.4	.38	.48	.06	.00
18	.67	.14	2.5	7.1	3.6	2.1	1.6	1.4	.32	.17	7.3	.00
19	.96	12	3.3	28	2.2	1.9	1.5	1.1	.42	.29	1.5	.00
20	.89	2.2	2.6	18	1.8	59	1.5	1.4	.45	.21	.05	3.5
21	.50	.41	1.2	4.9	1.6	71	1.4	8.1	.33	.19	.02	.00
22	e.50	.31	1.6	1.9	14	4.8	1.2	7.5	10	.33	.01	.00
23	e.52	.38	1.7	1.4	2.3	2.5	1.0	1.6	1.4	2.4	.02	.00
24	.55	.46	1.8	1.2	1.4	2.3	1.6	5.3	.20	7.1	.16	169
25	.58	30	1.9	1.2	10	1.9	16	2.3	.03	2.5	.03	1.3
26	.67	1.5	2.2	1.4	2.5	1.8	1.2	18	.12	7.4	.10	.48
27	.33	.52	1.8	1.4	1.6	2.0	.82	.58	.26	.43	.18	.44
28	.11	.34	1.4	1.2	1.5	2.0	.82	10	23	.37	.22	.39
29	.16	.27	1.6	1.2	---	151	1.0	5.1	2.0	.77	.17	.40
30	.26	.28	2.5	4.0	---	16	1.2	.59	.32	.74	.02	.51
31	.11	---	2.7	.69	---	5.7	---	.46	---	.28	.41	---
TOTAL	15.40	70.76	62.47	146.89	136.37	447.8	82.64	80.29	170.56	253.11	11.18	247.96
MEAN	.50	2.36	2.02	4.74	4.87	14.4	2.75	2.59	5.69	8.16	.36	8.27
MAX	1.0	30	19	28	62	151	16	18	94	210	7.3	169
MIN	.11	.07	.14	.69	.48	1.3	.82	.46	.03	.17	.00	.00
CFSM	.10	.45	.39	.91	.94	2.78	.53	.50	1.09	1.57	.07	1.59
IN.	.11	.51	.45	1.05	.98	3.20	.59	.57	1.22	1.81	.08	1.77

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

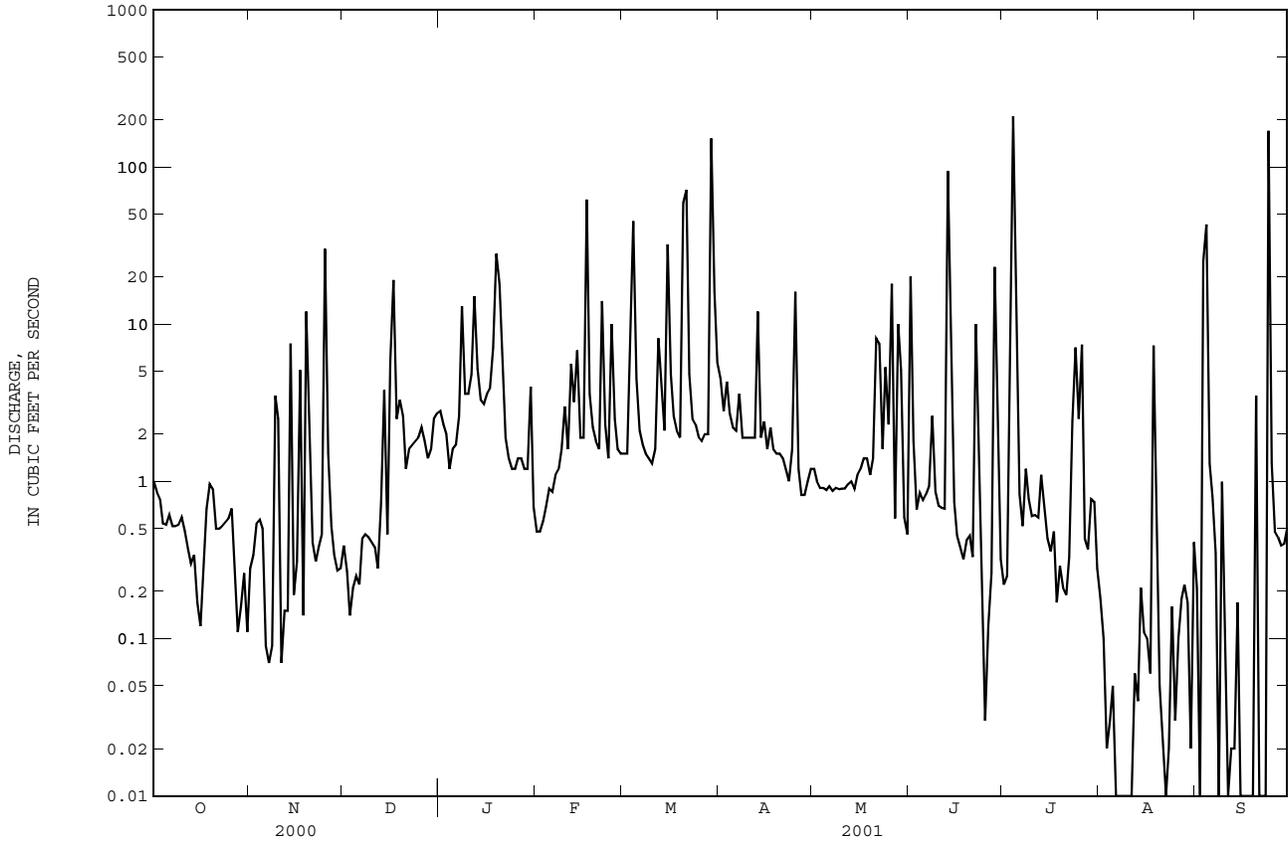
	1998	1999	2000	2001	1998	1999	2000	2001	1998	1999	2000	2001
MEAN	4.59	2.61	3.62	11.2	6.76	8.40	12.4	3.71	3.93	4.93	4.26	11.3
MAX	11.8	2.85	5.84	21.6	8.61	14.4	30.5	7.38	5.69	8.16	8.04	27.3
(WY)	2000	2000	1999	1999	2000	2001	1998	2000	2001	2001	1998	2000
MIN	.50	2.36	2.02	4.74	4.87	2.85	2.75	1.99	1.95	3.60	.36	4.15
(WY)	2001	2001	2001	2001	2001	1999	2001	1999	2000	2000	2001	1999

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1998 - 2001

ANNUAL TOTAL	2569.15	1725.43	
ANNUAL MEAN	7.02	4.73	6.05
HIGHEST ANNUAL MEAN			8.10
LOWEST ANNUAL MEAN			4.73
HIGHEST DAILY MEAN	432	Sep 23	210 Jul 4
LOWEST DAILY MEAN	.07	Nov 7	.00 Aug 9
ANNUAL SEVEN-DAY MINIMUM	.23	Oct 27	.01 Aug 5
MAXIMUM PEAK FLOW			2230* Jul 4
MAXIMUM PEAK STAGE			5.32 Jul 4
INSTANTANEOUS LOW FLOW			.00* Aug 8
ANNUAL RUNOFF (CFSM)	1.35	.91	1.16
ANNUAL RUNOFF (INCHES)	18.38	12.34	15.82
10 PERCENT EXCEEDS	11	7.2	10
50 PERCENT EXCEEDS	1.9	.96	1.6
90 PERCENT EXCEEDS	.35	.09	.31

e Estimated.  
\* See REMARKS.

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC--Continued



## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1999 to current year.

pH: April 1999 to current year.

WATER TEMPERATURE: April 1999 to current year.

DISSOLVED OXYGEN: April 1999 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION: April 1999 to current year.

REMARKS.--Station operated in cooperation with Mecklenburg County Department of Environmental Protection to characterize water-quality conditions in Briar Creek basin. Dissolved oxygen, percent saturation, computed using barometric pressure of 740 mm Hg. Water-quality data deleted during periods of zero flow, Aug. 8-13, 21, Sept. 1-3, 8, 9, 14-24, 2001.

INSTRUMENTATION.-- Water-quality monitor with radio telemetry.

EXTREMES FOR PERIOD OF DAILY RECORD.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	658, January 23, 2000	24, September 23, 2000, September 24, 2001
pH, standard units	9.3, August 8, 1999	5.7, April 27, 1999
WATER TEMPERATURE, °C	33.9, August 14, 1999	0.2, January 28, 2000, January 3-4, 2001
DISSOLVED OXYGEN, mg/L	17.2, April 25, 1999	2.0, June 16, 2000
DISSOLVED OXYGEN, PERCENT SATURATION,%	200, April 25, 1999	21, April 17, 1999

EXTREMES FOR CURRENT YEAR.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	215, October 29	24, September 24
pH, standard units	9.0, July 21, 22	5.9, July 4, September 21
WATER TEMPERATURE, °C	32.6, August 8	0.2, January 3, 4
DISSOLVED OXYGEN, mg/L	13.4, February 13	2.2, May 17, June 6
DISSOLVED OXYGEN, PERCENT SATURATION,%	174, July 21	24, October 29, 30

SANTEE RIVER BASIN

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	156	152	153	189	180	183	148	144	146	162	156	160
2	160	156	157	181	176	178	151	148	149	162	153	157
3	160	157	159	177	175	176	153	151	152	164	154	158
4	162	159	160	176	174	175	155	152	153	164	150	158
5	163	161	162	177	174	176	158	153	155	154	150	152
6	164	163	164	181	176	178	156	154	154	154	149	152
7	165	164	165	184	181	183	156	154	155	153	151	152
8	166	165	165	185	183	184	158	155	156	151	101	126
9	166	164	165	184	117	152	156	155	155	130	103	117
10	167	166	166	128	81	103	159	155	156	140	129	135
11	167	165	166	129	112	122	166	159	163	145	140	142
12	168	166	167	140	129	135	164	158	161	146	90	129
13	168	167	168	151	140	145	159	157	158	111	89	98
14	169	168	168	152	80	107	159	125	146	136	111	123
15	170	168	169	108	86	97	146	127	137	147	136	144
16	171	168	169	124	107	116	160	110	127	151	147	148
17	172	167	170	126	82	94	123	64	80	152	147	149
18	169	167	168	104	87	96	111	89	102	151	131	148
19	170	168	169	109	61	92	174	111	129	131	63	110
20	171	169	170	106	78	88	160	134	139	96	67	85
21	172	170	171	154	106	139	143	135	140	118	95	106
22	174	172	173	149	128	136	154	143	148	134	118	127
23	174	172	173	135	128	131	158	150	153	145	134	140
24	176	173	174	141	135	138	158	152	154	149	145	147
25	180	175	177	143	45	100	155	151	153	152	148	150
26	183	180	181	94	61	78	162	154	158	156	152	154
27	182	180	181	115	93	104	157	150	154	158	156	157
28	204	182	193	129	115	122	151	148	150	158	157	157
29	215	203	210	139	129	134	153	151	152	159	157	158
30	213	200	209	144	139	142	156	153	155	172	128	146
31	200	187	193	---	---	---	165	156	161	145	129	137
MONTH	215	152	172	189	45	133	174	64	147	172	63	139

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	152	145	150	158	155	156	141	135	138	168	164	166
2	155	152	154	161	156	159	150	141	146	170	165	168
3	156	154	155	165	87	143	155	138	148	173	168	170
4	159	156	157	111	44	81	148	138	143	172	168	170
5	160	157	159	136	111	125	153	148	151	173	168	171
6	160	158	159	147	136	143	159	152	156	173	168	170
7	160	158	159	154	147	151	166	115	141	172	167	169
8	162	159	161	156	152	155	162	154	159	171	166	168
9	164	159	161	159	155	157	168	161	165	174	167	170
10	163	151	158	160	156	158	170	163	167	177	170	173
11	166	156	160	162	157	159	173	167	170	177	170	174
12	164	116	147	163	86	147	177	169	174	178	171	174
13	120	112	116	126	86	104	181	89	135	177	171	175
14	121	97	104	148	126	140	155	111	134	177	171	174
15	140	111	128	152	49	90	170	155	164	176	170	173
16	152	140	146	133	90	115	168	160	163	176	171	174
17	151	42	83	148	133	141	171	119	157	176	170	173
18	129	98	116	153	148	151	167	137	159	173	168	171
19	143	129	138	158	153	156	168	166	167	175	169	172
20	150	143	147	160	45	109	170	167	168	176	170	173
21	153	149	151	113	43	85	171	169	170	175	88	114
22	153	61	99	139	113	127	173	170	171	110	77	94
23	127	87	111	150	139	145	175	171	173	140	108	125
24	145	127	137	156	150	153	175	166	172	150	75	135
25	149	87	118	159	155	157	166	49	84	119	96	105
26	135	102	121	161	157	159	144	92	116	105	52	80
27	147	135	143	162	157	160	159	143	152	131	105	118
28	155	147	152	162	157	160	166	157	161	134	58	94
29	---	---	---	160	42	89	164	160	162	100	81	91
30	---	---	---	118	71	98	166	162	164	125	100	112
31	---	---	---	136	118	127	---	---	---	139	125	132
MONTH	166	42	139	165	42	135	181	49	154	178	52	149

## SANTEE RIVER BASIN

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	140	43	87	136	120	126	137	126	130	---	---	---
2	114	71	96	148	136	142	140	136	138	---	---	---
3	132	114	123	151	86	143	142	139	141	---	---	---
4	143	132	136	111	30	89	145	141	143	63	31	52
5	153	143	147	102	54	80	146	141	144	82	60	69
6	158	152	154	114	102	109	146	142	144	74	65	67
7	161	156	158	123	114	117	150	145	147	74	69	72
8	162	130	147	130	123	126	---	---	---	---	---	---
9	144	134	139	134	128	132	---	---	---	---	---	---
10	154	144	148	134	127	130	---	---	---	108	104	106
11	160	154	156	140	134	137	---	---	---	108	104	106
12	165	159	161	142	139	140	---	---	---	108	104	106
13	166	33	121	147	133	141	---	---	---	109	105	107
14	94	46	75	147	140	143	161	156	159	---	---	---
15	113	94	105	149	146	147	160	157	158	---	---	---
16	126	112	119	153	149	151	162	159	161	---	---	---
17	136	126	130	156	153	154	162	159	160	---	---	---
18	147	136	140	163	156	160	160	60	142	---	---	---
19	154	146	149	163	152	158	91	74	79	---	---	---
20	155	152	153	161	154	156	103	91	97	---	---	---
21	157	154	155	164	159	161	110	103	106	---	---	---
22	193	54	136	166	161	164	115	110	111	---	---	---
23	95	58	79	168	87	150	118	114	116	---	---	---
24	119	95	108	115	65	94	121	117	119	---	---	---
25	133	119	125	99	70	87	122	117	120	82	59	73
26	140	133	136	94	57	71	121	118	120	89	81	85
27	150	140	146	104	85	94	123	120	121	89	84	86
28	151	48	127	117	104	110	124	121	123	92	86	89
29	108	69	91	135	117	124	124	119	122	94	91	92
30	120	108	113	136	116	124	123	120	122	101	94	96
31	---	---	---	127	119	122	124	111	121	---	---	---
MONTH	193	33	129	168	30	128	---	---	---	---	---	---

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.2	7.0	7.1	7.2	7.0	7.1	6.9	6.8	6.8	7.2	7.1	7.2
2	7.2	7.0	7.1	7.2	7.0	7.1	6.9	6.7	6.8	7.2	7.1	7.2
3	7.2	7.1	7.1	7.4	7.1	7.2	6.8	6.8	6.8	7.2	7.0	7.1
4	7.2	7.0	7.1	7.3	7.1	7.2	6.9	6.7	6.8	7.2	7.1	7.1
5	7.0	6.9	6.9	7.2	7.0	7.1	6.9	6.7	6.8	7.2	7.1	7.1
6	6.9	6.7	6.8	7.2	7.0	7.0	7.0	6.9	7.0	7.2	7.1	7.1
7	7.0	6.8	6.9	7.0	6.9	7.0	7.0	6.9	7.0	7.3	7.1	7.2
8	7.0	6.9	6.9	7.0	6.8	6.9	7.0	6.9	6.9	7.3	6.9	7.1
9	7.1	6.9	7.0	6.9	6.7	6.8	7.0	6.9	6.9	7.0	6.8	6.9
10	7.1	6.9	7.0	6.8	6.6	6.6	7.0	6.8	6.9	7.0	6.8	7.0
11	7.1	7.0	7.0	6.7	6.6	6.7	6.8	6.7	6.8	7.2	7.0	7.0
12	7.3	7.0	7.1	6.7	6.6	6.7	6.8	6.7	6.8	7.1	6.7	6.9
13	7.2	6.9	7.0	6.8	6.7	6.7	6.9	6.8	6.8	6.9	6.7	6.8
14	7.2	7.0	7.0	6.8	6.6	6.7	6.9	6.8	6.9	7.1	6.8	6.9
15	7.3	7.0	7.1	6.6	6.6	6.6	6.8	6.7	6.8	7.1	6.7	6.9
16	7.5	7.1	7.2	6.8	6.6	6.7	6.8	6.6	6.7	7.1	6.8	6.9
17	7.5	7.2	7.3	6.9	6.7	6.8	6.6	6.4	6.4	7.3	6.8	7.0
18	7.4	7.2	7.3	6.8	6.7	6.7	6.7	6.4	6.6	7.3	7.0	7.1
19	7.4	7.2	7.3	7.0	6.8	6.8	6.8	6.6	6.7	7.0	6.6	6.9
20	7.3	7.2	7.2	6.9	6.7	6.8	6.8	6.7	6.8	6.9	6.7	6.8
21	7.3	7.2	7.2	6.9	6.8	6.9	6.8	6.8	6.8	7.0	6.9	6.9
22	7.2	7.1	7.2	6.9	6.8	6.9	7.0	6.8	6.9	7.1	6.9	7.0
23	7.2	7.0	7.1	7.0	6.9	7.0	7.1	7.0	7.0	7.1	6.9	7.0
24	7.0	6.9	7.0	7.0	7.0	7.0	7.1	7.0	7.0	7.0	6.9	6.9
25	7.0	7.0	7.0	7.0	6.7	6.9	7.2	7.0	7.1	7.1	6.9	7.0
26	7.1	7.0	7.0	6.9	6.8	6.8	7.2	7.1	7.1	7.1	7.0	7.0
27	7.1	7.0	7.1	6.9	6.8	6.9	7.2	7.0	7.1	7.2	7.0	7.0
28	7.1	7.0	7.0	6.9	6.8	6.8	7.1	7.0	7.0	7.2	7.0	7.1
29	7.0	6.9	7.0	6.9	6.8	6.8	7.1	7.0	7.1	7.2	7.0	7.1
30	7.1	6.9	7.0	6.9	6.8	6.8	7.2	7.1	7.1	7.2	6.9	7.0
31	7.2	7.0	7.1	---	---	---	7.2	7.1	7.2	7.1	6.8	6.9
MONTH	7.5	6.7	7.1	7.4	6.6	6.9	7.2	6.4	6.9	7.3	6.6	7.0

SANTEE RIVER BASIN

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	7.4	6.9	7.1	7.5	7.1	7.2	6.9	6.7	6.8	7.4	6.9	7.1
2	7.4	7.0	7.2	7.6	7.0	7.2	7.2	6.8	6.9	7.4	6.9	7.1
3	7.4	7.1	7.2	7.2	6.9	7.1	7.3	6.9	7.1	7.3	6.8	7.0
4	7.5	7.1	7.2	6.9	6.6	6.8	7.4	6.9	7.1	7.3	6.8	7.0
5	7.4	7.1	7.2	7.0	6.8	6.9	7.7	7.0	7.3	7.4	6.7	7.0
6	7.4	7.1	7.2	7.0	6.9	6.9	8.1	7.1	7.4	7.2	6.8	7.0
7	7.5	7.1	7.2	7.3	6.9	7.0	7.9	7.1	7.4	7.5	6.9	7.1
8	7.5	7.1	7.2	7.3	7.1	7.2	8.3	7.0	7.4	7.3	6.8	7.0
9	7.6	7.1	7.3	7.5	7.1	7.2	8.3	7.1	7.5	7.7	6.8	7.2
10	7.5	7.1	7.2	7.6	7.2	7.3	8.3	7.1	7.4	7.8	6.9	7.2
11	7.4	7.0	7.1	7.7	7.2	7.4	8.1	7.0	7.3	7.8	6.9	7.3
12	7.4	6.9	7.1	7.6	6.9	7.3	8.0	7.1	7.4	7.7	6.9	7.3
13	7.3	6.9	7.0	7.2	6.9	7.0	7.1	6.6	6.8	7.8	7.0	7.3
14	7.1	6.8	6.9	7.4	7.0	7.2	6.9	6.6	6.8	7.8	7.0	7.4
15	7.3	6.8	7.0	7.1	6.6	6.8	7.0	6.8	6.9	7.6	7.1	7.3
16	7.5	6.9	7.1	7.0	6.8	6.9	7.0	6.7	6.8	7.7	7.0	7.2
17	7.2	6.5	6.8	7.2	6.9	7.0	7.0	6.7	6.9	7.3	7.0	7.1
18	7.0	6.8	6.9	7.3	7.0	7.1	7.2	6.7	6.9	7.6	7.0	7.2
19	7.1	7.0	7.0	7.4	7.0	7.1	7.4	7.0	7.1	7.5	7.0	7.2
20	7.2	7.0	7.1	7.1	6.6	6.9	7.4	7.0	7.2	7.3	6.9	7.1
21	7.2	7.0	7.1	6.8	6.4	6.7	7.6	7.1	7.2	7.1	6.6	6.8
22	7.2	6.8	7.0	7.0	6.8	6.9	7.5	7.0	7.2	7.0	6.7	6.8
23	7.1	7.0	7.1	7.1	6.9	7.0	7.5	7.0	7.2	6.9	6.7	6.8
24	7.2	7.0	7.1	7.1	7.0	7.0	7.6	7.0	7.2	7.0	6.7	6.8
25	7.1	6.7	6.9	7.3	7.0	7.1	7.0	6.7	6.8	6.8	6.6	6.7
26	7.1	6.8	6.9	7.4	7.0	7.1	7.0	6.8	6.9	6.9	6.6	6.7
27	7.1	6.8	7.0	7.4	7.0	7.2	7.1	6.8	6.9	6.8	6.6	6.7
28	7.4	6.9	7.1	7.5	7.0	7.2	7.2	6.8	6.9	6.8	6.5	6.6
29	---	---	---	7.1	6.4	6.7	7.3	6.8	7.0	6.8	6.6	6.7
30	---	---	---	6.8	6.5	6.7	7.4	6.9	7.1	6.7	6.6	6.7
31	---	---	---	6.9	6.8	6.8	---	---	---	6.8	6.7	6.8
MONTH	7.6	6.5	7.1	7.7	6.4	7.0	8.3	6.6	7.1	7.8	6.5	7.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.0	6.4	6.7	7.0	6.6	6.8	6.8	6.6	6.7	---	---	---
2	6.8	6.6	6.7	6.9	6.6	6.8	7.0	6.5	6.7	---	---	---
3	7.0	6.8	6.9	7.0	6.5	6.8	7.2	6.6	6.9	---	---	---
4	7.0	6.9	7.0	6.8	5.9	6.5	7.2	6.8	7.0	6.5	6.2	6.4
5	7.2	6.9	7.0	6.4	6.2	6.4	7.5	6.8	7.1	6.8	6.5	6.6
6	7.2	6.9	7.1	6.4	6.3	6.4	7.7	7.1	7.3	6.9	6.7	6.8
7	7.1	6.8	6.9	6.6	6.3	6.4	7.8	7.2	7.4	7.1	6.8	6.9
8	7.0	6.7	6.9	6.7	6.4	6.5	---	---	---	---	---	---
9	7.0	6.7	6.8	6.7	6.6	6.7	---	---	---	---	---	---
10	7.2	6.9	7.0	7.0	6.6	6.8	---	---	---	6.9	6.7	6.8
11	7.3	7.0	7.1	7.2	6.8	6.9	---	---	---	6.9	6.6	6.7
12	7.6	7.1	7.3	7.3	6.8	7.0	---	---	---	6.8	6.6	6.7
13	7.5	6.8	7.2	7.3	6.9	7.1	---	---	---	6.8	6.6	6.7
14	7.0	6.9	7.0	7.9	7.0	7.2	7.8	7.1	7.3	---	---	---
15	7.2	7.0	7.1	7.9	7.1	7.3	7.5	7.0	7.2	---	---	---
16	7.3	7.1	7.2	8.2	7.1	7.4	7.8	7.1	7.4	---	---	---
17	7.4	7.2	7.3	7.7	7.1	7.4	7.8	7.2	7.4	---	---	---
18	7.5	7.2	7.3	8.1	7.3	7.6	7.4	6.7	7.1	---	---	---
19	7.7	7.3	7.4	8.1	7.2	7.4	6.8	6.7	6.8	---	---	---
20	7.8	7.2	7.4	8.8	7.2	7.8	7.0	6.7	6.9	---	---	---
21	7.9	7.3	7.5	9.0	7.3	8.0	7.0	6.7	6.9	---	---	---
22	7.5	6.8	7.2	9.0	7.3	8.0	7.3	6.8	6.9	---	---	---
23	7.0	6.7	6.9	8.2	7.0	7.4	7.2	6.9	7.0	---	---	---
24	7.2	6.9	7.0	7.1	6.5	6.8	6.9	6.7	6.8	---	---	---
25	7.4	7.0	7.2	6.7	6.5	6.6	7.1	6.7	6.8	6.7	6.6	6.6
26	7.6	7.1	7.3	6.7	6.5	6.5	7.1	6.7	6.9	6.8	6.7	6.7
27	7.6	7.1	7.3	6.5	6.4	6.5	7.1	6.8	6.9	6.8	6.7	6.8
28	7.3	6.6	7.0	6.7	6.5	6.6	7.1	6.8	6.9	6.8	6.6	6.7
29	6.7	6.5	6.6	6.8	6.6	6.6	7.1	6.7	6.9	6.9	6.7	6.8
30	6.9	6.6	6.7	6.8	6.7	6.7	6.9	6.7	6.8	7.0	6.8	6.9
31	---	---	---	7.2	6.6	6.8	6.9	6.6	6.8	---	---	---
MONTH	7.9	6.4	7.1	9.0	5.9	7.0	---	---	---	---	---	---

## SANTEE RIVER BASIN

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN									
1	20.5	16.7	18.3	14.3	10.7	12.5	8.4	5.1	6.7	2.0	.3	1.1
2	20.3	16.2	17.9	14.4	10.7	12.4	6.7	5.6	5.9	2.7	.5	1.5
3	21.1	17.1	18.9	14.8	11.6	13.0	6.0	3.8	5.3	2.2	.2	1.1
4	22.0	18.1	19.8	15.4	13.4	14.3	4.7	2.5	3.9	2.3	.2	1.1
5	22.5	18.3	20.0	17.1	14.0	15.2	4.8	2.1	3.6	2.8	.3	1.5
6	21.2	18.9	20.1	15.0	11.8	13.4	4.1	2.3	3.7	3.6	.9	2.3
7	21.0	17.7	19.3	14.1	13.2	13.6	6.7	3.1	4.9	3.8	1.4	2.5
8	17.7	13.1	15.2	16.5	13.6	14.9	7.7	4.1	5.7	6.9	3.5	5.1
9	14.4	11.0	12.7	18.0	15.5	16.8	7.1	4.6	6.0	6.4	3.9	5.1
10	14.4	10.1	12.0	17.9	14.9	16.4	6.5	5.8	6.2	5.5	1.6	3.4
11	14.4	10.3	12.2	15.5	11.7	13.6	7.8	6.1	6.8	5.5	2.3	4.0
12	15.3	10.8	12.8	13.5	10.1	11.8	10.3	7.5	8.8	6.5	5.3	5.8
13	16.3	11.5	13.6	12.4	9.7	11.2	7.5	4.9	5.7	7.5	3.9	5.8
14	16.8	12.4	14.4	14.7	11.5	12.8	6.6	4.6	5.5	8.3	5.9	6.9
15	16.9	13.1	14.8	12.1	8.8	10.3	6.7	5.9	6.5	10.8	6.6	8.5
16	17.4	13.7	15.5	9.6	7.8	8.5	6.8	5.6	6.0	9.6	7.1	8.5
17	18.5	14.9	16.5	11.0	8.6	9.9	9.8	5.7	8.4	8.5	6.5	7.4
18	19.5	16.0	17.4	9.4	7.3	8.3	6.2	3.4	5.0	7.7	7.4	7.5
19	18.8	15.4	17.1	7.8	5.3	6.3	4.7	3.2	4.3	9.4	7.5	8.3
20	18.0	15.1	16.4	9.1	5.3	6.7	4.0	1.5	2.8	10.2	6.8	9.4
21	17.9	14.8	16.3	7.2	4.4	5.8	2.5	1.1	1.8	7.7	4.2	5.8
22	19.0	15.5	17.1	6.0	2.8	4.5	5.3	2.1	3.4	6.9	3.2	5.0
23	19.3	15.8	17.3	7.2	4.0	5.3	3.4	.9	1.9	6.8	2.7	4.7
24	18.4	14.7	16.5	7.2	5.2	6.3	3.4	.6	1.9	7.8	3.7	5.6
25	18.0	15.8	16.8	8.4	6.8	7.6	2.8	.7	1.8	7.0	3.7	5.4
26	19.4	15.1	16.8	9.6	8.1	8.7	1.5	.3	1.0	6.0	2.1	4.1
27	18.8	14.4	16.3	9.6	6.7	8.1	2.2	1.0	1.4	8.5	3.7	5.8
28	19.4	15.3	17.1	10.1	6.1	7.9	3.4	1.9	2.8	7.0	3.0	5.3
29	18.9	15.0	16.7	9.7	6.7	8.2	3.0	1.0	2.3	8.4	4.1	6.2
30	16.4	13.2	14.7	9.8	7.2	8.5	3.1	.9	2.0	12.3	7.9	10.1
31	15.2	11.3	13.3	---	---	---	2.5	.4	1.3	12.3	8.4	10.2
MONTH	22.5	10.1	16.3	18.0	2.8	10.4	10.3	.3	4.3	12.3	.2	5.3
DAY	MAX	MIN	MEAN									
1	10.3	8.1	9.0	14.9	9.0	11.7	15.0	10.8	12.6	23.0	15.9	19.3
2	9.0	7.0	8.0	16.4	10.4	13.2	17.0	8.2	12.2	23.5	17.2	20.1
3	7.6	4.5	6.3	14.8	11.5	13.1	13.9	11.5	12.6	24.1	17.2	20.3
4	8.8	4.7	6.6	11.9	10.7	11.3	15.2	12.0	13.3	24.8	17.6	20.9
5	10.5	6.0	8.1	14.7	9.2	11.6	16.1	11.3	13.6	25.0	18.3	21.4
6	9.7	4.7	7.4	9.8	5.6	7.7	20.5	12.3	16.1	21.7	18.8	20.2
7	10.6	5.2	7.8	11.4	4.7	7.7	22.5	15.2	18.7	22.0	16.3	18.8
8	11.9	6.7	9.2	12.4	5.1	8.6	24.5	17.1	20.4	18.4	16.0	17.4
9	13.0	8.1	10.6	14.1	7.6	10.5	25.2	18.0	21.2	22.3	16.7	19.0
10	15.6	11.7	13.1	13.2	6.4	9.6	25.2	18.3	21.5	23.4	17.6	20.3
11	11.7	7.5	9.4	14.0	6.6	10.2	22.7	18.6	20.5	24.8	18.6	21.4
12	9.0	5.7	6.9	13.7	9.4	11.5	24.5	18.7	21.4	23.6	19.5	21.5
13	8.7	5.5	6.9	18.9	12.9	15.3	21.6	18.4	19.9	24.4	19.0	21.2
14	11.7	8.7	9.9	16.4	11.0	13.8	22.5	16.1	19.1	22.8	16.7	19.4
15	14.0	11.5	12.8	14.2	11.6	12.2	19.1	16.8	17.6	23.0	17.3	19.8
16	16.4	12.8	14.5	11.9	10.2	11.2	21.2	15.1	17.7	24.6	18.7	21.2
17	15.3	9.5	12.5	16.8	9.2	12.4	16.7	11.6	14.3	20.9	18.1	19.2
18	10.7	6.3	8.5	15.4	9.2	12.0	16.7	9.4	12.7	24.9	17.4	20.5
19	10.9	5.5	8.0	14.6	7.4	10.8	17.2	9.7	13.2	26.7	19.7	22.8
20	12.6	6.8	9.7	10.8	7.5	8.5	17.3	11.1	14.3	24.4	20.8	22.5
21	11.5	9.6	10.6	9.8	8.3	9.0	21.4	13.9	17.3	22.7	20.8	21.6
22	10.2	5.4	7.1	16.2	7.6	11.3	22.7	15.9	19.0	23.1	20.3	21.4
23	11.8	5.0	7.8	16.6	8.3	12.1	24.0	16.6	20.0	22.9	17.8	20.0
24	12.6	6.6	9.7	16.5	9.0	12.7	24.5	18.0	20.7	23.3	17.3	20.0
25	14.0	11.2	12.4	15.6	10.5	12.8	19.4	14.5	16.2	20.4	18.6	19.6
26	16.5	10.7	13.3	15.7	9.2	12.0	19.9	12.3	15.6	22.4	17.5	19.4
27	14.4	9.3	12.1	14.4	6.8	10.3	21.1	12.7	16.6	22.9	16.7	19.6
28	13.1	11.0	12.2	14.8	6.6	10.4	23.2	15.0	18.7	20.0	16.8	18.6
29	---	---	---	11.5	8.5	9.4	19.8	16.6	17.9	22.8	18.2	20.0
30	---	---	---	15.2	8.8	11.4	21.7	14.7	17.9	23.2	18.0	20.3
31	---	---	---	15.6	10.3	12.9	---	---	---	22.8	19.0	20.8
MONTH	16.5	4.5	9.7	18.9	4.7	11.2	25.2	8.2	17.1	26.7	15.9	20.3





SANTEE RIVER BASIN

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	90	63	74	68	46	54	77	63	69	91	82	86
2	90	63	75	76	47	62	74	68	71	94	82	87
3	89	63	76	89	60	72	79	70	74	96	82	88
4	88	61	73	82	67	74	---	---	---	95	85	89
5	83	59	71	72	56	64	---	---	---	95	82	88
6	76	60	69	69	49	57	83	74	79	95	77	85
7	87	61	72	56	48	51	86	76	80	98	77	86
8	77	66	70	62	44	51	83	72	78	96	69	81
9	91	68	80	65	43	54	83	71	77	89	64	75
10	94	73	82	57	39	48	81	71	75	94	72	81
11	93	77	84	52	32	39	78	69	74	98	73	85
12	97	78	86	55	39	45	80	70	75	93	74	80
13	101	72	84	64	47	55	---	---	---	96	68	81
14	102	70	82	---	---	---	84	72	78	101	71	83
15	94	68	80	56	42	47	78	68	73	106	68	85
16	99	66	80	58	47	51	77	67	74	101	66	83
17	99	64	80	72	58	65	77	62	71	110	69	87
18	93	66	80	64	53	58	84	63	72	104	72	81
19	87	60	74	---	---	---	78	66	72	87	69	76
20	81	59	69	---	---	---	87	70	80	78	67	75
21	81	60	70	82	67	74	---	---	---	92	69	78
22	79	60	69	81	68	74	---	---	---	92	66	78
23	80	56	65	84	71	76	89	77	82	96	69	80
24	63	45	53	77	68	72	87	79	83	97	71	82
25	59	45	51	80	67	73	87	75	80	95	67	81
26	71	45	54	74	65	70	85	79	82	100	74	85
27	66	50	55	74	62	67	83	74	76	102	74	87
28	55	34	47	77	62	67	80	72	76	104	73	87
29	45	24	32	76	63	68	85	71	77	109	77	92
30	47	24	34	74	60	66	87	74	80	---	---	---
31	60	38	48	---	---	---	90	80	84	---	---	---
MONTH	102	24	68	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	113	60	85	128	71	93	102	72	83	---	---	---
2	116	66	89	129	64	91	113	73	89	---	---	---
3	113	70	91	83	59	69	104	73	83	132	33	76
4	116	74	94	81	70	75	121	70	91	134	34	76
5	114	69	93	89	67	75	134	73	97	134	35	78
6	113	69	91	90	66	76	148	72	101	110	36	72
7	119	71	93	98	69	81	131	67	93	130	49	84
8	117	69	92	105	70	84	153	62	94	---	---	---
9	119	68	93	117	71	89	152	61	95	---	---	---
10	---	---	---	122	72	92	149	61	94	147	33	81
11	---	---	---	132	74	98	145	62	92	148	34	83
12	---	---	---	125	76	89	151	53	91	139	32	80
13	118	72	90	109	72	87	75	47	59	147	38	82
14	105	74	86	126	70	92	84	47	61	147	42	85
15	111	64	82	83	67	78	72	45	54	130	43	80
16	109	54	79	85	70	76	90	48	63	136	30	76
17	83	58	76	102	66	80	---	---	---	86	25	52
18	91	73	80	103	64	80	---	---	---	133	38	75
19	---	---	---	105	65	81	119	61	82	120	31	69
20	---	---	---	87	67	75	121	59	84	100	30	62
21	---	---	---	91	83	87	128	56	82	72	39	57
22	---	---	---	98	75	86	124	50	78	---	---	---
23	93	68	78	106	75	86	126	48	77	64	38	51
24	103	68	84	111	73	87	126	47	74	75	30	51
25	87	70	80	118	71	88	---	---	---	67	42	54
26	---	---	---	124	71	91	---	---	---	75	49	65
27	---	---	---	126	70	92	107	46	69	70	46	56
28	---	---	---	132	71	94	116	43	71	80	41	63
29	---	---	---	88	69	80	113	42	73	81	50	68
30	---	---	---	90	79	85	132	52	84	68	45	54
31	---	---	---	97	74	84	---	---	---	68	34	51
MONTH	---	---	---	132	59	85	---	---	---	---	---	---





USGS hydrographer making a wading discharge measurement below dam at Cullasaja River near Highlands, North Carolina.

## SANTEE RIVER BASIN

0214645022 BRIAR CREEK ABOVE COLONY ROAD AT CHARLOTTE, NC

LOCATION.--Lat 35°10'30", long 80°49'55", Mecklenburg County, Hydrologic Unit 03050103, on left bank on upstream side of third footbridge 900 feet upstream of Colony Road at Charlotte. Located within Myers Park Country Club.

DRAINAGE AREA.--19.0 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1995 to current year.

GAGE.--Water-stage recorder. Datum of gage is 598.02 ft above sea level, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records poor. Maximum gage height for period of record 15.41 ft, from floodmarks. Maximum discharge for period of record from slope-area measurement of peak flow.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 27, 1995 reached a stage of 15.6 ft, present site and datum, from floodmarks; discharge not determined.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	2.2	3.2	4.7	4.1	6.5	14	3.7	84	2.3	1.8	4.8
2	2.9	2.2	3.2	4.3	4.0	6.2	8.3	3.5	8.6	4.9	1.7	1.1
3	2.8	2.4	3.0	4.9	4.0	23	11	3.4	3.7	4.0	1.6	109
4	2.7	2.1	3.0	4.7	4.1	123	7.4	3.1	3.7	183	1.6	101
5	2.6	3.1	3.0	4.8	4.1	18	6.3	3.2	3.1	48	1.6	4.1
6	2.7	2.4	3.2	4.1	3.9	9.2	6.0	3.1	2.8	4.4	1.4	2.5
7	2.3	2.4	3.0	3.4	3.8	7.4	8.0	3.4	2.9	3.0	1.4	1.7
8	2.2	2.3	2.9	21	3.8	6.5	6.1	3.8	6.8	5.2	1.3	1.2
9	2.2	16	2.9	5.1	3.9	6.1	5.5	3.1	3.6	4.0	1.3	8.7
10	2.3	11	3.0	3.7	7.0	5.5	5.2	3.0	3.3	2.9	1.3	1.9
11	2.3	2.3	3.0	3.6	4.1	5.2	4.9	3.0	2.8	2.5	1.5	1.0
12	2.3	2.0	3.1	23	13	20	4.6	2.9	2.6	2.3	1.6	.90
13	2.3	2.6	3.1	9.4	8.7	17	30	2.9	137	3.7	e2.0	.94
14	2.3	25	7.6	4.2	22	5.7	6.0	2.7	35	2.6	e1.8	.89
15	2.3	3.1	3.8	3.8	5.3	98	6.9	3.2	4.3	2.2	1.3	1.0
16	2.2	2.3	22	3.7	4.9	14	5.7	3.6	3.6	2.1	1.1	.87
17	2.4	18	46	3.5	131	8.5	6.7	3.5	3.1	2.0	1.3	1.1
18	2.0	3.2	5.2	6.7	10	6.8	6.1	3.4	2.9	2.1	2.5	.91
19	1.9	37	5.7	57	7.2	6.0	5.2	3.0	3.3	3.6	7.1	.85
20	1.9	10	6.3	41	6.3	159	5.0	3.2	3.4	2.0	1.2	19
21	2.0	4.1	3.7	12	5.6	158	4.7	34	2.5	1.7	.82	1.7
22	2.1	2.8	3.9	6.5	54	15	4.5	29	33	1.6	.83	1.1
23	2.1	2.6	3.2	5.6	10	8.9	4.5	8.1	11	2.5	.77	1.1
24	2.1	2.5	3.3	4.9	6.9	7.1	6.7	12	3.0	40	1.1	297
25	2.1	87	3.4	4.7	30	6.0	68	14	2.5	12	1.1	6.8
26	2.2	9.7	4.4	4.3	9.7	5.4	6.2	69	14	15	.88	2.9
27	2.3	3.8	7.6	4.6	6.8	4.8	4.3	3.8	3.8	2.7	.98	2.5
28	2.3	3.4	4.1	4.3	6.8	4.7	3.8	34	21	2.3	.99	2.0
29	2.1	3.0	3.5	4.1	---	366	3.6	27	9.5	2.4	.94	1.8
30	2.1	2.7	3.7	12	---	56	3.6	4.1	2.8	3.4	.91	1.6
31	2.1	---	3.8	4.9	---	16	---	3.0	---	2.2	10	---
TOTAL	71.1	273.2	180.8	284.5	385.0	1199.5	268.8	302.7	423.6	372.6	55.72	581.96
MEAN	2.29	9.11	5.83	9.18	13.8	38.7	8.96	9.76	14.1	12.0	1.80	19.4
MAX	3.0	.87	.46	.57	.131	.366	.68	.69	.137	.183	.10	.297
MIN	1.9	2.0	2.9	3.4	3.8	4.7	3.6	2.7	2.5	1.6	.77	.85
CFSM	.12	.48	.31	.48	.72	2.04	.47	.51	.74	.63	.09	1.02
IN.	.14	.53	.35	.56	.75	2.35	.53	.59	.83	.73	.11	1.14

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

	1996	1997	1998	1999	2000	2001
MEAN	15.9	12.1	15.0	33.1	29.9	28.4
MAX	31.0	19.4	31.5	65.2	46.9	38.7
(WY)	2000	1998	1998	1998	2001	1998
MIN	2.29	8.39	5.83	9.18	13.8	11.5
(WY)	2001	1999	2001	2001	2001	1999

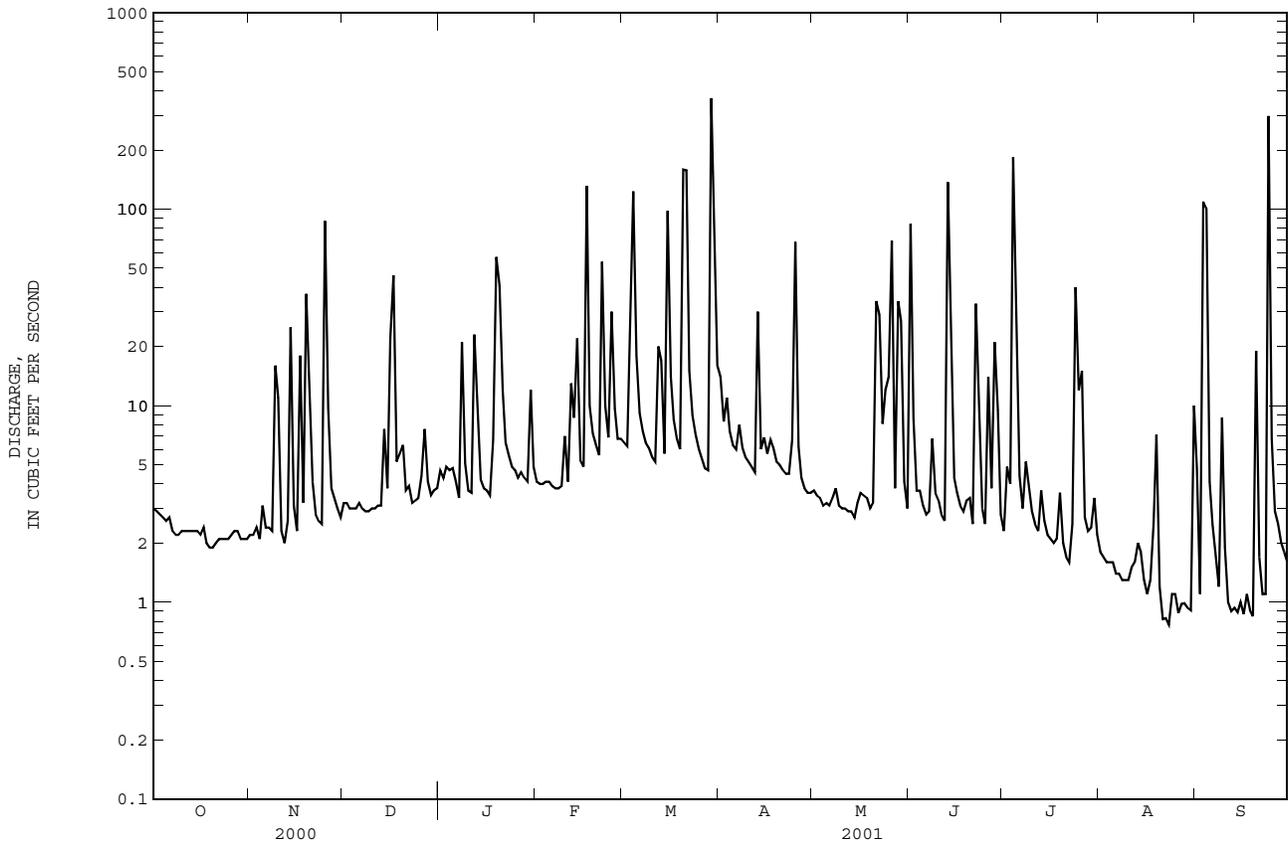
## SUMMARY STATISTICS

	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1996 - 2001
ANNUAL TOTAL	6570.9	4399.48	
ANNUAL MEAN	18.0	12.1	21.4
HIGHEST ANNUAL MEAN			30.8
LOWEST ANNUAL MEAN			12.1
HIGHEST DAILY MEAN	701	366	2610
LOWEST DAILY MEAN	1.3	.77	.77
ANNUAL SEVEN-DAY MINIMUM	1.5	.93	.93
MAXIMUM PEAK FLOW		1390	5680*
MAXIMUM PEAK STAGE		8.72	15.41*
INSTANTANEOUS LOW FLOW		.55	.55
ANNUAL RUNOFF (CFSM)	.94	.63	1.13
ANNUAL RUNOFF (INCHES)	12.87	8.61	15.30
10 PERCENT EXCEEDS	38	21	40
50 PERCENT EXCEEDS	5.1	3.7	6.8
90 PERCENT EXCEEDS	2.1	1.6	2.6

e Estimated.

\* See REMARKS.

0214645022 BRIAR CREEK ABOVE COLONY ROAD AT CHARLOTTE, NC--Continued



0214645022 BRIAR CREEK ABOVE COLONY RD AT CHARLOTTE, NC--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1999 to current year.

pH: April 1999 to current year.

WATER TEMPERATURE: April 1999 to current year.

DISSOLVED OXYGEN: April 1999 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION: April 1999 to current year.

INSTRUMENTATION.-- Water-quality monitor with radio telemetry.

REMARKS.--Station operated in cooperation with Mecklenburg County Department of Environmental Protection to characterize water-quality conditions in Briar Creek basin. Dissolved oxygen, percent saturation, computed using barometric pressure of 740 mm Hg.

EXTREMES FOR PERIOD OF DAILY RECORD.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	640, January 23, 2000	27, September 23, 2000
pH, standard units	9.6, October 8, 1999	6.0, June 27, 1999
WATER TEMPERATURE, °C	35.0, July 31, 1999	-0.2, December 26, 31, 2000, January 3,4, 2001
DISSOLVED OXYGEN, mg/L	15.4, February 3, 2001	2.7, April 13, 14, 2001
DISSOLVED OXYGEN, PERCENT SATURATION,%	184, August 9, 2000	24, September 5, 1999

EXTREMES FOR CURRENT YEAR.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	366, September 8	33, September 24
pH, standard units	9.2, June 11	6.4, June 13-14
WATER TEMPERATURE, °C	32.9, August 8	-0.2, December 26, 31, 2000, January 3, 4, 2001
DISSOLVED OXYGEN, mg/L	15.4, February 3	2.7, April 13, 14
DISSOLVED OXYGEN, PERCENT SATURATION,%	174, June 11	30, April 13, 14

SANTEE RIVER BASIN

0214645022 BRIAR CREEK ABOVE COLONY RD AT CHARLOTTE, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	196	192	194	163	149	159	186	166	177
2	---	---	---	195	188	192	168	160	163	251	176	191
3	186	171	176	198	192	194	160	158	159	360	179	219
4	186	174	178	202	194	198	165	159	163	218	181	197
5	190	177	180	201	197	199	167	161	163	193	172	181
6	190	174	181	204	199	200	169	163	165	248	168	184
7	189	180	183	204	199	201	169	165	167	247	181	197
8	194	183	187	204	200	202	185	167	170	335	147	178
9	194	186	188	207	137	175	171	169	170	152	140	146
10	192	185	188	152	124	141	171	168	170	159	152	156
11	191	183	187	156	150	154	172	169	171	182	159	171
12	190	180	185	165	156	160	172	169	170	192	129	159
13	185	178	182	172	165	169	174	169	172	134	121	126
14	185	176	181	172	97	130	179	154	167	146	130	139
15	185	178	181	129	115	121	160	156	158	160	146	153
16	186	174	180	143	129	137	161	104	124	168	160	165
17	184	174	179	143	98	116	116	79	87	205	168	177
18	185	176	182	126	116	119	136	89	105	176	156	171
19	192	176	182	131	79	104	156	117	127	160	82	136
20	190	185	187	107	82	96	281	147	194	107	82	96
21	188	183	186	124	105	115	177	154	166	132	107	121
22	198	184	191	139	124	131	273	168	202	151	131	142
23	208	193	201	153	139	146	253	202	217	161	151	156
24	205	187	199	161	153	157	207	188	199	168	160	165
25	194	187	190	160	56	109	188	179	183	170	167	168
26	195	185	191	103	67	87	180	167	177	173	166	170
27	196	185	192	129	103	116	167	138	146	173	160	170
28	196	185	192	143	129	137	206	150	181	173	160	169
29	198	192	194	155	141	148	196	183	188	178	172	174
30	199	185	194	160	155	158	186	182	184	179	143	163
31	198	192	195	---	---	---	191	183	187	168	157	161
MONTH	---	---	---	207	56	150	281	79	166	360	82	164
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	169	157	163	174	170	171	163	146	154	192	172	185
2	170	164	167	---	---	---	174	152	163	192	158	180
3	172	166	169	---	---	---	189	164	175	190	155	179
4	174	166	171	117	56	85	182	168	175	192	162	181
5	173	166	170	142	117	131	181	176	178	190	167	183
6	175	168	172	160	142	152	185	181	183	191	180	186
7	177	169	173	172	160	167	185	175	181	194	182	189
8	178	168	174	174	169	171	181	169	173	204	186	193
9	179	168	174	178	172	175	189	180	183	211	196	204
10	180	158	170	180	176	178	193	184	187	200	194	196
11	173	162	168	181	177	179	195	185	191	202	195	197
12	174	132	152	182	110	171	199	186	192	197	195	196
13	145	121	140	130	112	118	198	126	166	200	196	197
14	126	89	113	176	130	149	170	132	150	219	195	198
15	150	125	137	173	64	99	183	170	178	219	190	197
16	162	144	155	139	91	118	188	176	183	235	178	194
17	158	54	87	160	139	151	188	166	184	198	194	196
18	137	103	123	168	160	164	---	---	---	204	189	196
19	153	136	146	173	167	170	---	---	---	202	166	190
20	164	152	157	173	51	123	---	---	---	195	149	178
21	181	164	175	125	55	90	---	---	---	199	99	133
22	179	81	117	152	125	142	---	---	---	141	82	122
23	134	94	116	167	151	161	---	---	---	138	101	116
24	157	134	147	172	167	170	205	184	194	154	90	141
25	162	114	138	177	172	175	188	78	102	127	76	114
26	145	117	129	180	176	178	143	95	122	105	64	86
27	161	145	155	181	178	179	168	143	155	138	105	123
28	171	161	166	184	178	181	182	168	173	141	77	104
29	---	---	---	181	46	104	187	177	182	120	67	87
30	---	---	---	198	69	119	191	177	184	137	104	122
31	---	---	---	200	143	153	---	---	---	154	137	145
MONTH	181	54	151	---	---	---	---	---	---	235	64	165

## SANTEE RIVER BASIN

0214645022 BRIAR CREEK ABOVE COLONY RD AT CHARLOTTE, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	158	48	97	152	135	143	172	159	166	124	87	113
2	122	70	100	159	95	151	174	165	170	136	124	131
3	149	122	135	151	108	132	186	171	177	139	40	81
4	163	147	154	157	38	120	187	177	180	78	41	59
5	172	159	162	96	49	76	185	180	182	100	73	89
6	224	169	178	122	96	109	184	180	182	266	100	131
7	184	173	179	141	122	131	189	170	181	362	233	303
8	188	154	173	148	140	144	184	166	176	366	286	328
9	171	158	163	149	139	143	183	162	174	286	86	177
10	175	162	170	158	148	152	187	163	175	144	114	131
11	178	164	169	169	158	161	178	163	172	158	144	153
12	181	170	176	172	166	169	178	168	174	165	157	161
13	273	42	148	182	164	171	---	---	---	175	163	169
14	100	45	77	169	163	165	---	---	---	185	174	180
15	131	100	116	175	165	170	278	138	159	188	178	182
16	149	131	140	178	170	174	176	164	168	190	182	186
17	161	149	154	182	174	178	197	168	182	190	185	188
18	169	156	162	291	178	185	205	132	178	199	188	193
19	172	158	167	185	128	169	177	109	123	200	193	197
20	170	155	163	181	140	174	138	119	130	219	86	123
21	173	154	166	189	181	185	154	138	145	136	113	123
22	180	81	157	198	189	193	169	150	155	142	136	140
23	110	82	94	199	178	193	238	169	195	163	140	149
24	135	110	123	188	68	143	185	167	175	167	33	86
25	158	135	144	102	72	92	183	173	178	104	77	93
26	165	94	137	102	88	95	187	172	180	124	104	115
27	132	100	117	122	100	112	193	178	184	221	124	136
28	269	58	137	140	122	132	188	176	183	150	130	142
29	114	85	98	153	140	148	190	180	185	157	150	154
30	135	114	124	159	149	154	212	188	199	175	156	168
31	---	---	---	167	154	160	208	86	181	---	---	---
MONTH	273	42	143	291	38	149	---	---	---	366	33	153

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	8.2	7.6	7.8	7.3	7.2	7.2	7.5	7.4	7.5
2	---	---	---	8.2	7.6	7.8	7.3	7.2	7.2	7.5	7.4	7.5
3	8.5	7.1	7.6	8.2	7.6	7.8	7.2	7.2	7.2	7.7	7.4	7.5
4	8.5	7.0	7.6	8.1	7.5	7.7	7.3	7.1	7.2	7.6	7.5	7.5
5	8.5	7.0	7.6	7.8	7.4	7.6	7.4	7.2	7.3	7.6	7.4	7.5
6	8.4	6.9	7.4	7.8	7.4	7.5	7.4	7.2	7.3	7.5	7.4	7.4
7	8.2	6.9	7.4	7.6	7.3	7.5	7.4	7.2	7.3	7.5	7.3	7.4
8	8.1	7.0	7.4	7.6	7.3	7.4	8.3	7.2	7.4	7.3	7.1	7.2
9	7.8	6.9	7.3	7.4	7.0	7.2	7.4	7.2	7.3	7.2	7.0	7.1
10	7.9	6.9	7.3	7.4	7.2	7.3	7.3	7.2	7.2	7.2	7.0	7.1
11	8.0	7.1	7.4	7.3	7.1	7.2	7.3	7.1	7.2	7.4	7.2	7.3
12	8.2	7.1	7.5	7.2	7.1	7.1	7.4	7.1	7.2	7.6	7.2	7.3
13	8.3	7.1	7.5	7.1	7.0	7.1	7.6	7.1	7.3	7.2	7.1	7.2
14	8.2	7.1	7.5	7.1	6.9	7.0	7.4	7.3	7.3	7.4	7.1	7.2
15	8.4	7.1	7.6	7.1	7.0	7.1	7.4	7.2	7.3	7.6	7.2	7.3
16	8.4	7.1	7.6	7.2	7.1	7.2	8.1	7.2	7.4	7.8	7.2	7.4
17	8.6	7.3	7.9	7.3	7.2	7.3	7.4	7.2	7.2	8.9	7.3	7.9
18	8.6	7.3	7.8	7.4	7.2	7.3	7.3	7.2	7.3	7.6	7.2	7.4
19	8.5	7.3	7.7	7.4	7.3	7.4	7.4	7.3	7.3	7.6	7.1	7.3
20	8.7	7.3	7.8	7.4	7.4	7.4	7.4	7.2	7.3	7.2	7.1	7.1
21	8.7	7.4	7.8	7.4	7.3	7.4	7.4	7.3	7.3	7.3	7.1	7.2
22	8.3	7.3	7.6	7.4	7.3	7.4	7.4	7.3	7.3	7.3	7.1	7.1
23	7.9	7.2	7.5	7.4	7.3	7.3	7.4	7.3	7.4	7.5	7.1	7.3
24	8.2	7.3	7.6	7.4	7.2	7.3	7.4	7.2	7.3	7.6	7.3	7.5
25	8.7	7.4	7.8	7.3	6.8	7.1	7.4	7.3	7.3	7.6	7.3	7.4
26	8.6	7.4	7.9	7.0	6.9	6.9	7.4	7.3	7.3	7.6	7.3	7.4
27	8.6	7.4	7.9	7.1	6.9	7.0	7.3	7.2	7.2	7.7	7.3	7.5
28	8.5	7.4	7.8	7.3	7.1	7.2	7.3	7.2	7.3	7.8	7.3	7.4
29	8.2	7.4	7.7	7.2	7.1	7.2	7.4	7.3	7.4	8.0	7.3	7.5
30	8.1	7.5	7.7	7.2	7.1	7.2	7.5	7.3	7.4	7.4	7.1	7.2
31	8.1	7.6	7.8	---	---	---	7.5	7.4	7.4	8.1	7.0	7.4
MONTH	---	---	---	8.2	6.8	7.3	8.3	7.1	7.3	8.9	7.0	7.4

0214645022 BRIAR CREEK ABOVE COLONY RD AT CHARLOTTE, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	8.6	7.3	7.7	8.0	7.3	7.6	7.4	7.2	7.3	8.6	7.1	7.7
2	8.7	7.3	7.8	8.3	7.3	7.7	7.4	7.2	7.3	8.8	7.1	7.8
3	8.6	7.4	7.8	7.4	7.1	7.3	7.4	7.2	7.3	8.8	7.3	7.9
4	8.7	7.4	7.9	7.1	6.7	6.9	7.6	7.2	7.4	8.6	7.3	7.8
5	8.8	7.4	8.0	7.2	7.0	7.1	7.8	7.3	7.5	8.4	7.3	7.7
6	8.7	7.5	7.9	7.3	7.0	7.2	8.1	7.4	7.6	8.1	7.3	7.6
7	8.9	7.5	8.0	7.6	7.1	7.3	8.3	7.4	7.7	8.1	7.4	7.6
8	9.0	7.5	8.1	7.7	7.4	7.5	8.7	7.3	7.8	7.8	7.3	7.5
9	9.0	7.5	8.1	7.8	7.4	7.5	9.0	7.4	8.0	7.9	7.3	7.5
10	8.4	7.4	7.8	8.0	7.4	7.6	9.1	7.4	8.1	7.8	7.3	7.5
11	8.8	7.4	7.9	8.3	7.4	7.7	8.9	7.4	8.0	7.9	7.3	7.5
12	7.7	7.3	7.5	8.2	7.3	7.6	9.0	7.4	8.1	8.0	7.2	7.5
13	8.0	7.3	7.5	7.6	7.2	7.3	7.6	6.8	7.2	8.0	7.2	7.5
14	7.5	7.2	7.3	8.3	7.2	7.6	7.1	6.9	7.0	8.2	7.2	7.5
15	7.6	7.2	7.4	7.5	7.1	7.2	7.1	7.0	7.1	8.1	7.2	7.5
16	8.3	7.3	7.6	7.3	7.1	7.2	7.1	7.0	7.0	8.2	7.2	7.5
17	7.4	6.8	7.0	7.6	7.2	7.4	7.4	7.0	7.2	7.9	7.2	7.4
18	7.3	7.1	7.2	7.7	7.2	7.4	---	---	---	8.3	7.3	7.6
19	7.4	7.2	7.3	7.8	7.2	7.4	---	---	---	8.4	7.3	7.6
20	7.5	7.2	7.3	7.3	6.7	7.1	---	---	---	8.2	7.2	7.6
21	7.6	7.2	7.4	6.8	6.6	6.7	---	---	---	7.3	6.7	6.9
22	7.4	7.2	7.3	7.2	6.8	7.0	---	---	---	7.2	6.8	6.9
23	7.5	7.2	7.4	7.4	7.1	7.2	---	---	---	7.1	6.9	7.0
24	7.5	7.3	7.4	7.5	7.2	7.3	7.5	6.8	7.1	7.2	6.8	7.1
25	7.4	7.2	7.3	7.7	7.3	7.4	6.8	6.5	6.6	7.0	6.9	6.9
26	7.4	7.2	7.3	7.8	7.3	7.5	7.0	6.6	6.8	7.0	6.7	6.8
27	7.7	7.3	7.5	7.9	7.4	7.6	7.2	6.9	7.0	7.1	6.8	6.9
28	7.7	7.3	7.5	8.0	7.4	7.6	7.5	6.9	7.1	7.1	6.9	7.0
29	---	---	---	7.5	6.8	7.1	8.0	7.0	7.3	7.3	6.9	7.1
30	---	---	---	7.2	6.9	7.1	8.5	7.1	7.5	7.5	7.2	7.3
31	---	---	---	7.4	7.2	7.3	---	---	---	7.7	7.2	7.4
MONTH	9.0	6.8	7.6	8.3	6.6	7.3	---	---	---	8.8	6.7	7.4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.4	6.9	7.1	8.5	7.3	7.7	9.0	7.5	8.1	7.2	6.6	6.9
2	7.2	6.9	7.0	8.9	7.3	7.9	8.4	7.1	7.7	8.0	6.8	7.2
3	7.4	7.0	7.1	8.0	7.2	7.4	8.4	7.0	7.5	7.2	6.6	6.9
4	7.7	7.1	7.3	8.2	6.7	7.5	7.9	7.1	7.3	7.0	6.7	6.8
5	8.6	7.0	7.6	7.1	6.7	7.0	8.2	7.1	7.5	7.1	6.8	7.0
6	9.0	7.3	8.0	7.4	7.1	7.3	8.0	7.0	7.3	7.4	7.0	7.1
7	9.0	7.3	8.0	7.9	7.2	7.5	8.0	6.9	7.3	7.7	7.0	7.2
8	7.7	7.3	7.5	7.6	7.3	7.4	8.0	7.0	7.3	7.9	7.0	7.3
9	8.8	7.3	7.8	8.2	7.3	7.6	8.0	7.0	7.4	7.4	6.8	7.0
10	9.0	7.3	8.0	8.3	7.1	7.6	7.9	7.0	7.4	7.6	6.9	7.1
11	9.2	7.3	8.1	8.4	7.0	7.5	8.1	7.1	7.4	8.4	6.9	7.4
12	8.8	7.1	7.8	8.5	7.0	7.6	8.1	7.1	7.4	8.8	7.1	7.7
13	8.4	6.4	7.2	7.9	7.0	7.3	---	---	---	8.9	7.2	7.8
14	6.9	6.4	6.7	8.4	7.0	7.5	---	---	---	8.8	7.2	7.9
15	7.2	6.8	7.0	8.6	7.0	7.7	7.4	6.9	7.1	8.7	7.3	7.8
16	7.7	7.0	7.3	8.6	7.1	7.6	8.0	7.0	7.4	8.9	7.5	8.0
17	8.5	7.1	7.6	8.2	7.0	7.5	8.3	7.0	7.4	8.7	7.6	8.0
18	8.8	7.1	7.8	8.2	7.0	7.4	7.8	6.8	7.2	8.8	7.6	8.0
19	8.6	7.0	7.7	8.1	6.8	7.3	7.0	6.6	6.7	8.9	7.6	8.0
20	8.7	6.9	7.6	8.1	7.0	7.4	7.6	6.6	6.9	7.8	7.1	7.3
21	8.8	7.1	7.7	8.5	7.2	7.7	8.5	6.7	7.4	7.4	7.0	7.1
22	8.6	6.8	7.5	8.5	7.3	7.7	8.7	7.1	7.7	7.7	7.0	7.3
23	7.1	6.8	6.9	8.2	7.3	7.7	8.8	7.0	7.7	8.1	7.1	7.5
24	7.8	6.9	7.2	8.4	7.0	7.5	8.7	7.2	7.7	7.4	6.7	7.1
25	8.5	7.0	7.6	7.3	7.0	7.2	8.9	7.3	7.9	7.3	7.1	7.2
26	8.0	6.8	7.3	7.5	7.1	7.3	8.9	7.2	7.8	7.5	7.3	7.4
27	7.7	6.8	7.2	7.5	7.2	7.3	7.8	7.3	7.6	7.8	7.3	7.5
28	8.1	6.8	7.4	7.7	7.2	7.4	8.5	7.3	7.8	7.6	7.4	7.5
29	7.3	6.9	7.1	8.1	7.2	7.5	8.3	7.2	7.6	7.8	7.4	7.5
30	7.9	7.2	7.5	8.7	7.3	7.9	8.2	7.1	7.5	7.9	7.4	7.6
31	---	---	---	9.0	7.4	8.1	8.3	6.6	7.3	---	---	---
MONTH	9.2	6.4	7.5	9.0	6.7	7.5	---	---	---	8.9	6.6	7.4

## SANTEE RIVER BASIN

0214645022 BRIAR CREEK ABOVE COLONY RD AT CHARLOTTE, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	14.4	10.1	12.4	8.2	4.7	6.6	3.7	.3	1.8
2	---	---	---	14.7	10.5	12.8	7.2	5.8	6.3	2.6	.0	1.4
3	23.0	17.1	20.3	15.9	11.7	14.0	6.0	3.7	5.1	2.2	-.2	.9
4	23.4	18.2	21.0	16.7	14.2	15.6	4.6	1.4	3.1	2.5	-.2	1.0
5	23.5	18.2	21.1	16.3	13.8	15.2	5.0	1.2	3.3	4.5	.1	2.2
6	22.5	18.9	21.0	14.7	10.9	13.2	4.9	2.0	3.7	4.7	.7	2.8
7	20.5	17.5	19.2	15.2	14.1	14.6	5.9	2.7	4.5	5.6	1.6	3.7
8	17.9	12.4	14.6	17.7	14.1	15.8	7.2	3.3	5.4	6.9	4.8	5.7
9	14.0	10.1	12.3	18.4	16.6	17.4	7.0	4.2	5.8	5.7	3.3	4.7
10	14.4	9.4	12.3	17.6	14.1	16.4	6.8	5.8	6.4	5.3	1.2	3.4
11	15.1	9.8	12.9	14.1	10.7	12.5	8.5	6.4	7.4	5.8	1.8	3.9
12	15.9	10.6	13.7	13.2	9.4	11.4	10.3	6.4	8.8	6.6	5.3	6.0
13	16.7	11.3	14.5	12.7	9.2	11.3	6.4	3.8	5.1	7.8	4.2	6.0
14	17.4	12.2	15.3	14.6	11.0	12.9	6.8	4.8	5.8	9.2	6.0	7.4
15	18.0	12.8	15.7	11.2	8.3	10.0	7.0	5.7	6.5	10.8	6.4	8.5
16	18.3	13.5	16.3	9.7	7.4	8.8	7.1	5.8	6.3	9.9	6.9	8.5
17	19.8	14.9	17.8	11.2	8.8	10.2	9.7	5.7	8.3	8.8	6.6	7.8
18	20.9	16.8	18.8	8.8	6.8	8.1	6.0	3.5	5.0	8.3	7.8	8.0
19	19.4	15.5	17.5	8.1	5.8	6.8	4.9	3.6	4.5	9.8	7.9	8.7
20	18.9	14.7	16.9	9.2	5.7	7.0	3.6	1.4	2.7	10.5	7.4	9.7
21	19.4	14.7	17.2	6.6	4.4	5.6	3.3	.7	2.1	7.8	4.6	6.1
22	20.1	15.8	18.1	5.6	2.2	4.2	4.6	2.2	3.3	7.1	3.5	5.2
23	19.1	15.9	17.6	7.3	3.5	5.4	2.7	.0	1.5	6.8	2.5	4.7
24	18.3	14.4	16.7	7.9	5.1	6.7	3.8	.7	2.1	7.7	3.2	5.5
25	19.2	16.5	17.7	8.5	7.1	7.8	2.4	.1	1.2	6.5	3.9	5.2
26	18.9	14.9	16.9	10.2	8.3	9.0	2.0	-.2	.9	6.3	1.7	4.2
27	18.6	14.1	16.6	9.4	6.4	8.0	4.3	1.5	3.3	8.2	3.4	5.7
28	19.1	15.5	17.4	8.9	5.5	7.5	4.7	2.7	4.0	7.3	2.8	5.2
29	17.7	14.6	16.0	10.3	6.8	8.6	3.8	.7	2.2	8.7	3.7	6.3
30	15.7	11.9	13.8	9.4	6.6	7.9	3.6	1.0	2.1	11.8	8.4	9.9
31	14.8	10.2	12.6	---	---	---	1.9	-.2	.8	12.0	8.2	10.0
MONTH	---	---	---	18.4	2.2	10.6	10.3	-.2	4.3	12.0	-.2	5.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	10.2	7.9	9.0	15.9	9.5	12.3	16.0	11.3	13.3	25.8	16.3	20.7
2	9.8	7.0	8.1	18.0	10.9	14.1	18.0	9.1	12.8	25.4	17.5	21.3
3	7.9	4.2	6.2	15.1	12.2	13.6	13.9	12.3	12.9	27.0	17.5	21.9
4	9.4	5.1	7.1	12.2	11.1	11.6	16.5	12.6	14.0	27.5	17.7	22.3
5	10.5	5.8	8.1	15.0	9.3	11.7	17.0	12.4	14.4	28.0	18.4	22.9
6	9.9	4.5	7.3	10.4	6.1	8.0	21.5	12.8	16.6	23.4	19.4	21.2
7	11.2	5.1	8.2	12.5	5.0	8.0	22.7	16.1	19.1	24.9	16.3	20.1
8	12.1	6.3	9.3	13.4	5.3	8.9	25.9	17.7	21.1	21.0	16.3	18.6
9	13.5	7.6	10.6	14.8	7.6	10.6	27.2	18.5	22.2	24.5	17.5	20.5
10	15.8	10.7	13.1	14.4	6.4	10.0	27.1	19.0	22.6	26.9	17.5	21.9
11	10.7	7.2	9.3	14.9	6.7	10.5	25.6	19.3	22.1	27.5	18.6	23.0
12	9.2	6.4	7.2	13.8	9.6	11.7	26.8	19.5	22.6	25.9	19.4	22.7
13	9.4	6.1	7.7	19.0	13.0	15.1	21.6	19.3	20.6	26.6	18.9	22.6
14	11.6	8.9	10.1	17.5	10.8	14.0	24.5	16.9	20.3	25.7	16.1	21.0
15	14.3	11.6	13.0	13.9	11.9	12.5	19.6	17.5	18.6	26.4	17.7	22.0
16	17.0	12.5	14.5	12.2	10.4	11.5	23.2	15.2	18.6	27.9	18.6	23.2
17	14.9	10.0	12.7	17.6	9.8	12.8	17.0	11.8	15.1	22.7	19.5	20.6
18	11.4	7.0	8.9	16.6	9.7	12.5	---	---	---	27.9	18.5	22.7
19	11.7	6.1	8.5	16.1	8.1	11.5	---	---	---	29.0	19.4	24.3
20	13.1	7.1	9.9	10.4	8.1	8.8	---	---	---	27.9	21.6	24.5
21	12.4	9.6	10.8	9.8	8.5	9.1	---	---	---	24.3	21.6	22.6
22	10.1	5.8	7.4	16.0	7.9	11.2	---	---	---	25.0	21.2	22.6
23	12.2	5.5	8.1	17.3	9.1	12.6	---	---	---	27.0	18.4	22.2
24	13.0	6.8	9.8	17.2	9.9	13.3	25.9	18.6	21.7	26.0	17.4	21.4
25	13.6	11.2	12.3	16.5	11.1	13.3	20.6	14.8	16.9	21.9	18.1	20.8
26	17.1	10.9	13.5	16.7	9.4	12.5	22.2	12.8	16.8	23.8	18.1	20.2
27	15.1	9.7	12.4	15.8	7.5	11.1	24.0	13.1	18.1	26.7	17.2	21.6
28	13.9	11.0	12.4	16.2	7.2	11.3	25.0	15.2	19.9	20.9	18.0	19.1
29	---	---	---	11.5	8.8	9.8	21.6	16.6	18.7	24.0	18.9	20.7
30	---	---	---	14.6	9.0	11.3	24.4	15.2	19.3	28.0	18.6	22.8
31	---	---	---	16.9	11.2	13.8	---	---	---	26.1	19.9	23.0
MONTH	17.1	4.2	9.8	19.0	5.0	11.6	---	---	---	29.0	16.1	21.8

SANTEE RIVER BASIN

0214645022 BRIAR CREEK ABOVE COLONY RD AT CHARLOTTE, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN									
1	22.4	20.2	21.2	31.0	24.4	27.3	27.3	23.2	25.2	26.3	23.5	24.6
2	27.9	19.9	23.0	31.6	24.5	27.6	30.1	21.8	25.8	26.9	23.1	24.8
3	28.9	19.8	24.0	29.1	24.4	26.3	29.6	22.4	26.2	24.5	21.5	22.6
4	30.3	21.6	25.4	31.0	23.7	26.5	26.8	24.4	25.5	21.8	21.0	21.4
5	31.9	22.7	26.9	30.6	23.1	26.1	30.1	22.9	26.4	28.0	20.5	23.9
6	30.6	23.4	26.9	30.4	23.4	26.8	30.9	24.2	27.5	28.5	22.4	25.1
7	27.2	24.1	25.5	28.6	23.3	26.0	32.7	25.0	28.8	27.9	21.9	24.8
8	25.1	22.6	23.7	25.8	23.5	24.3	32.9	25.9	29.2	27.6	21.5	24.6
9	26.5	21.3	23.7	27.8	22.6	25.2	32.8	26.4	29.6	25.8	22.3	23.7
10	29.0	20.9	24.8	31.0	23.5	27.2	32.4	26.5	29.6	28.2	22.9	25.4
11	28.4	22.2	25.5	32.2	24.8	28.3	32.8	26.6	29.4	27.9	23.1	25.3
12	29.2	22.7	25.7	31.1	24.4	27.8	31.9	26.1	28.7	27.4	21.1	24.1
13	28.4	23.8	25.4	27.4	23.7	25.3	---	---	---	26.8	20.1	23.4
14	29.8	22.6	25.6	29.7	21.5	25.5	---	---	---	25.5	19.4	22.3
15	30.6	23.1	26.6	29.6	22.3	26.0	29.4	24.1	26.6	22.9	17.0	19.8
16	29.8	23.6	26.6	30.1	22.0	26.2	31.0	23.8	27.2	23.2	16.0	19.4
17	31.2	22.5	26.8	29.4	23.6	26.7	31.4	25.4	27.9	22.9	16.1	19.7
18	31.2	22.7	26.9	29.8	24.1	27.1	30.4	25.7	27.8	24.4	16.9	20.6
19	30.4	23.6	26.9	30.2	24.9	27.2	29.5	24.8	27.1	25.4	18.0	21.6
20	30.9	23.2	26.9	29.9	24.5	26.9	30.0	24.5	27.1	23.8	21.0	22.1
21	31.2	23.6	27.3	29.8	22.8	26.1	29.5	23.1	26.0	26.0	20.9	23.3
22	29.9	24.1	26.4	30.6	21.6	26.0	28.9	21.6	25.3	26.2	20.6	23.5
23	29.2	23.0	25.6	28.3	23.0	25.7	30.6	22.5	26.4	27.3	22.0	24.4
24	28.9	22.2	25.3	27.7	24.5	25.5	29.7	24.8	27.1	24.0	21.0	22.0
25	28.5	21.8	25.2	26.7	24.0	25.1	30.0	23.4	26.5	22.6	18.4	20.5
26	27.5	22.8	24.8	28.4	23.3	25.2	29.5	23.1	26.1	20.5	15.4	18.1
27	30.7	22.6	26.5	25.6	23.0	24.4	30.7	23.9	27.0	20.9	15.2	18.3
28	30.2	23.7	26.5	24.6	22.0	23.4	29.9	24.2	27.0	20.2	16.5	18.4
29	30.9	23.3	26.4	25.9	23.0	24.2	30.3	25.1	27.5	19.7	15.2	17.5
30	31.7	24.2	27.5	29.7	23.0	26.0	28.2	24.9	26.1	19.0	14.6	16.8
31	---	---	---	29.4	22.7	26.0	27.7	23.8	25.5	---	---	---
MONTH	31.9	19.8	25.6	32.2	21.5	26.1	---	---	---	28.5	14.6	22.1

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	11.8	8.0	9.5	10.9	9.5	10.1	12.4	11.3	11.9
2	---	---	---	12.0	8.1	9.5	10.7	9.7	10.2	12.8	11.4	12.0
3	12.4	6.6	8.8	11.7	7.8	9.3	11.3	10.1	10.7	12.6	11.7	12.1
4	12.9	6.3	8.7	10.8	7.0	8.5	11.7	10.6	11.1	12.6	11.6	12.1
5	12.6	6.1	8.5	9.2	6.6	7.7	11.9	10.6	11.3	12.3	10.8	11.7
6	12.1	5.9	8.0	9.7	6.8	7.9	12.0	10.7	11.3	12.1	10.5	11.3
7	11.7	6.0	8.2	8.2	6.1	7.0	11.8	10.5	11.1	12.4	10.3	11.3
8	12.3	6.6	8.9	9.6	6.5	7.6	11.7	10.3	11.0	10.3	9.1	9.6
9	11.8	8.1	9.6	6.6	5.8	6.3	11.8	10.4	11.0	10.5	9.1	9.8
10	12.1	7.9	9.5	6.8	5.6	6.2	11.6	10.5	10.9	11.8	10.1	10.9
11	11.9	7.8	9.3	8.0	6.2	7.1	11.5	10.2	10.7	12.1	10.1	11.0
12	12.1	7.7	9.3	8.7	7.0	7.8	11.7	9.8	10.6	10.1	9.6	9.9
13	12.2	7.5	9.3	9.1	7.2	8.0	13.0	10.5	11.6	11.0	9.6	10.2
14	11.9	7.4	9.0	7.8	7.1	7.5	10.8	9.5	10.3	11.3	9.6	10.2
15	12.1	7.2	9.0	9.1	7.7	8.4	11.4	9.3	10.2	11.6	9.2	10.2
16	11.5	7.0	8.7	9.6	8.4	9.1	10.3	9.3	9.7	12.2	9.1	10.2
17	11.8	6.7	8.6	9.3	8.8	9.1	9.4	8.3	8.7	13.2	9.4	10.8
18	11.7	6.3	8.1	---	---	---	10.4	8.9	9.7	11.5	9.5	10.2
19	11.6	6.2	8.3	---	---	---	10.1	9.4	9.7	11.2	9.1	9.8
20	12.3	6.7	8.8	---	---	---	11.1	9.6	10.5	10.1	9.2	9.5
21	12.3	6.6	8.8	11.4	10.2	10.8	11.7	10.6	11.2	11.8	10.0	11.1
22	11.5	6.1	8.3	12.2	10.9	11.5	11.3	10.6	10.9	12.7	11.4	11.9
23	10.4	5.3	7.3	11.9	10.5	11.2	12.3	11.0	11.7	13.1	11.1	12.1
24	11.6	5.5	7.9	11.4	10.3	10.8	12.2	11.1	11.8	12.8	11.0	11.8
25	12.5	6.1	8.4	10.4	9.4	10.0	12.7	11.3	12.2	13.0	11.0	11.8
26	12.2	6.8	8.8	9.5	8.8	9.2	13.1	12.2	12.7	13.7	11.4	12.5
27	12.1	7.0	8.9	10.1	9.0	9.5	12.3	10.5	11.5	13.4	11.1	12.1
28	11.6	6.8	8.6	10.4	9.1	9.7	11.3	10.3	10.8	14.1	11.2	12.4
29	11.3	7.0	8.7	10.2	8.9	9.6	12.2	10.8	11.4	14.7	10.7	12.5
30	11.6	7.8	9.2	10.4	9.0	9.7	12.1	11.1	11.6	11.4	9.1	10.3
31	11.4	7.8	9.2	---	---	---	12.6	11.5	12.0	13.4	9.0	10.7
MONTH	---	---	---	---	---	---	13.1	8.3	10.9	14.7	9.0	11.1

## SANTEE RIVER BASIN

0214645022 BRIAR CREEK ABOVE COLONY RD AT CHARLOTTE, NC--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	14.9	9.1	11.4	11.4	8.7	9.7	9.8	8.3	9.0	13.1	6.8	9.3
2	15.1	9.6	11.7	12.0	8.2	9.7	10.3	8.7	9.5	12.4	5.6	8.7
3	15.4	10.3	12.4	9.0	7.9	8.4	10.0	8.6	9.0	12.0	5.5	8.0
4	15.2	10.1	12.1	9.3	8.6	9.0	10.9	8.5	9.5	11.0	5.1	7.5
5	14.9	9.7	11.6	9.7	8.8	9.2	11.3	8.8	9.8	10.4	5.0	7.1
6	14.8	9.7	11.6	10.9	9.2	10.2	11.5	7.9	9.6	9.9	5.1	7.1
7	14.8	9.2	11.6	11.6	9.9	10.6	11.0	7.5	9.0	10.3	5.8	7.5
8	14.6	8.8	11.1	11.5	9.6	10.5	11.5	7.1	8.8	9.8	5.9	7.5
9	14.1	8.0	10.5	11.4	9.5	10.2	11.8	7.0	8.8	10.0	5.9	7.5
10	11.4	7.1	8.7	12.0	9.5	10.5	12.1	7.0	8.9	10.0	5.4	7.3
11	13.3	7.2	9.9	12.6	9.5	10.8	12.3	6.2	8.8	9.7	4.9	7.0
12	10.9	8.5	9.6	12.7	8.4	10.2	12.4	6.0	8.5	9.6	5.0	6.8
13	12.8	9.3	10.6	10.2	8.0	8.9	8.7	2.7	5.8	9.6	5.0	6.9
14	10.1	8.5	9.3	11.9	8.0	9.7	5.8	2.7	4.6	10.2	5.1	7.3
15	10.6	8.0	8.8	9.3	8.2	8.9	6.4	4.7	5.5	10.0	5.1	7.2
16	11.7	7.8	9.2	9.8	9.0	9.3	7.4	4.9	6.1	10.3	5.0	7.2
17	8.9	7.7	8.5	10.6	8.8	9.6	9.1	5.8	7.5	10.0	5.1	7.0
18	10.4	8.9	9.8	11.1	8.8	9.8	---	---	---	10.7	5.1	7.4
19	10.9	9.6	10.2	11.6	9.2	10.1	---	---	---	10.5	5.0	7.2
20	10.9	9.1	10.1	10.6	9.3	10.1	---	---	---	10.3	5.0	7.3
21	10.4	8.7	9.5	10.7	9.7	10.1	---	---	---	7.9	4.4	5.3
22	9.9	8.7	9.5	10.2	8.7	9.7	---	---	---	6.6	4.7	5.5
23	10.6	9.1	9.8	10.4	8.7	9.5	---	---	---	6.9	5.1	6.0
24	10.6	8.7	9.7	10.2	8.1	9.2	9.4	4.7	6.9	7.7	5.4	6.5
25	8.8	7.8	8.5	11.5	8.1	9.9	7.7	4.7	6.8	8.1	5.7	6.3
26	9.4	7.8	8.5	11.7	9.2	10.3	8.5	6.8	7.7	8.1	5.9	6.7
27	10.3	8.2	9.1	12.5	9.7	10.9	9.1	6.5	7.8	7.2	5.4	6.4
28	10.8	8.3	9.3	12.9	9.8	11.2	9.9	6.4	7.9	8.0	5.6	6.9
29	---	---	---	10.8	9.4	10.1	11.7	6.6	8.8	7.7	6.7	7.2
30	---	---	---	10.2	8.9	9.7	12.7	7.1	9.3	8.1	6.1	7.1
31	---	---	---	9.8	8.3	9.2	---	---	---	8.9	6.2	7.3
MONTH	15.4	7.1	10.1	12.9	7.9	9.8	---	---	---	13.1	4.4	7.1
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.7	6.2	6.8	9.8	5.0	6.9	---	---	---	6.8	4.8	5.5
2	7.3	5.9	6.7	10.7	4.9	7.2	---	---	---	8.8	4.7	6.1
3	7.8	5.5	6.7	8.9	4.6	6.0	11.4	4.9	7.5	6.6	4.6	5.8
4	8.9	5.3	6.8	8.9	4.5	6.8	9.7	4.8	6.8	6.9	6.0	6.4
5	10.6	4.7	7.3	6.8	5.7	6.2	10.6	4.7	7.2	6.8	6.0	6.4
6	12.3	4.5	7.6	7.4	5.5	6.3	9.7	4.4	6.4	7.8	5.9	6.8
7	12.2	4.5	7.7	8.8	5.5	7.0	9.9	4.4	6.5	8.8	6.2	7.2
8	8.2	5.0	6.3	7.7	5.6	6.6	9.9	4.3	6.4	10.5	6.1	7.9
9	11.6	5.2	7.7	9.6	5.8	7.3	9.7	4.2	6.5	8.0	6.1	6.8
10	12.5	4.9	8.0	10.8	5.3	7.6	9.6	4.2	6.3	9.4	5.8	7.3
11	13.2	4.9	8.3	11.0	4.8	7.3	9.3	4.2	6.1	11.5	5.8	8.0
12	13.1	4.5	7.8	11.2	4.8	7.4	9.0	4.3	6.2	12.5	6.0	8.4
13	11.1	4.5	6.6	9.3	4.6	6.6	---	---	---	13.2	6.3	8.8
14	6.7	5.5	6.2	11.1	5.2	7.6	---	---	---	13.3	6.1	8.8
15	7.3	5.2	6.3	11.5	5.1	7.7	8.1	4.5	5.9	11.8	6.1	8.4
16	8.6	5.3	6.7	11.0	5.1	7.4	9.4	4.7	6.7	12.4	6.4	8.7
17	9.8	4.6	7.0	11.2	4.7	7.3	10.1	4.5	6.5	11.9	6.4	8.4
18	10.4	4.5	7.0	10.5	4.6	6.9	7.9	4.2	5.5	11.6	5.9	8.1
19	12.1	4.5	7.7	9.7	4.4	6.3	6.2	4.2	5.1	11.9	5.6	8.0
20	12.0	5.1	7.8	9.6	4.3	6.5	7.9	4.2	5.7	7.3	5.5	6.2
21	12.3	4.6	7.8	10.7	4.8	7.1	10.0	4.3	6.7	7.8	5.0	6.0
22	11.8	4.6	7.4	10.7	4.9	7.1	10.3	4.8	7.1	8.9	5.2	6.7
23	7.0	5.2	6.0	9.8	4.9	6.9	11.8	4.5	7.5	9.5	5.2	6.7
24	8.9	5.3	6.8	9.5	5.4	6.3	11.2	4.5	6.8	7.7	5.2	6.6
25	10.7	5.3	7.5	6.6	4.9	5.9	11.2	4.9	7.3	7.5	6.5	6.9
26	10.7	5.3	6.9	6.8	4.8	5.8	11.4	4.8	7.2	8.2	6.8	7.5
27	9.1	5.0	6.8	6.9	4.8	5.6	8.9	4.7	6.1	8.6	6.5	7.5
28	10.1	5.0	6.8	8.0	5.1	6.3	10.1	4.3	6.7	8.6	6.8	7.5
29	7.2	5.3	6.3	8.6	4.9	6.2	9.6	4.2	6.3	9.1	6.9	7.9
30	8.3	5.1	6.5	9.4	4.8	6.7	9.7	4.5	6.3	9.8	7.3	8.3
31	---	---	---	---	---	---	10.6	4.6	6.4	---	---	---
MONTH	13.2	4.5	7.1	---	---	---	---	---	---	13.3	4.6	7.3

0214645022 BRIAR CREEK ABOVE COLONY RD AT CHARLOTTE, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	119	76	91	92	81	85	95	83	88
2	---	---	---	121	77	93	90	82	85	96	83	88
3	147	74	101	120	78	93	93	83	87	93	84	87
4	153	72	101	114	73	88	91	81	85	94	85	88
5	151	70	99	97	67	79	94	83	87	96	83	87
6	143	67	93	97	64	77	94	84	88	95	81	86
7	133	67	92	84	62	71	96	85	88	100	80	88
8	125	70	90	104	67	79	98	85	90	83	75	79
9	117	76	92	71	62	68	99	86	91	86	74	79
10	120	75	92	72	60	65	98	87	91	95	77	84
11	121	73	91	79	62	69	101	85	91	97	79	86
12	125	73	93	86	66	74	106	88	94	85	79	82
13	128	74	94	87	70	75	105	85	94	94	78	84
14	127	73	93	77	69	73	90	80	85	100	80	87
15	132	72	94	86	71	77	96	78	85	107	80	90
16	125	73	92	86	75	81	85	78	81	111	78	90
17	133	69	94	86	81	83	81	73	76	117	80	93
18	134	67	90	---	---	---	85	73	78	100	82	89
19	130	68	90	---	---	---	81	74	77	101	81	87
20	136	71	94	---	---	---	85	74	80	88	84	86
21	137	69	95	95	85	88	88	80	84	100	85	92
22	130	67	90	98	87	91	89	81	84	107	91	97
23	116	56	79	98	88	91	92	82	86	106	92	97
24	126	56	84	97	88	91	95	85	88	108	89	96
25	140	65	92	89	83	86	94	85	89	109	88	96
26	135	70	94	85	80	82	96	88	91	112	90	98
27	133	72	94	88	79	83	92	83	88	116	91	99
28	129	72	93	90	79	83	90	81	85	119	90	100
29	122	73	91	91	81	84	94	80	86	128	90	104
30	120	76	91	91	80	84	94	82	86	108	82	94
31	115	74	89	---	---	---	92	83	86	128	81	98
MONTH	---	---	---	---	---	---	106	73	86	128	74	90

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	136	80	102	117	79	94	101	83	89	160	78	108
2	137	82	103	129	80	98	107	82	92	153	64	101
3	134	83	103	89	79	83	99	83	88	151	63	95
4	136	85	103	88	82	85	114	83	95	140	60	90
5	137	81	102	97	82	87	120	85	99	133	60	86
6	135	81	100	99	82	89	131	85	102	119	60	83
7	139	80	101	105	85	92	128	80	100	123	64	85
8	139	78	100	109	83	93	143	79	103	112	65	82
9	139	76	98	112	83	94	150	79	105	121	68	86
10	118	68	86	118	82	96	154	79	108	121	64	87
11	123	66	89	126	83	100	153	73	104	122	60	84
12	92	73	81	124	83	97	158	69	102	119	60	82
13	114	77	92	113	80	91	100	30	67	122	59	82
14	94	80	85	128	78	97	71	30	53	124	59	85
15	106	76	86	89	81	86	71	51	61	125	60	86
16	124	76	93	94	85	88	87	52	67	133	60	87
17	86	78	83	109	85	94	97	61	77	118	60	80
18	95	81	87	114	84	95	---	---	---	137	62	89
19	100	84	90	117	84	96	---	---	---	138	62	90
20	104	85	91	93	84	89	---	---	---	132	62	91
21	99	80	88	95	87	90	---	---	---	93	53	63
22	85	77	81	101	83	90	---	---	---	81	56	66
23	95	80	86	107	82	92	---	---	---	86	61	72
24	101	80	88	106	80	90	119	55	81	97	61	76
25	85	77	82	120	80	97	82	53	72	88	64	73
26	98	75	84	122	86	100	99	73	82	88	66	76
27	105	77	88	126	88	102	107	71	85	88	64	75
28	108	80	89	133	89	106	121	72	89	89	64	77
29	---	---	---	96	87	92	136	73	97	92	74	83
30	---	---	---	99	87	91	153	78	105	100	73	85
31	---	---	---	101	84	92	---	---	---	112	73	88
MONTH	139	66	91	133	78	93	---	---	---	160	53	84

## SANTEE RIVER BASIN

0214645022 BRIAR CREEK ABOVE COLONY RD AT CHARLOTTE, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	90	73	79	134	65	91	---	---	---	87	59	68
2	90	72	81	148	63	95	---	---	---	113	56	76
3	100	68	82	119	57	77	153	63	97	79	57	69
4	118	66	86	121	56	87	124	60	86	80	70	75
5	147	61	95	88	73	79	142	61	93	87	73	79
6	167	58	99	98	70	82	132	57	84	101	76	85
7	159	58	98	116	70	90	140	56	87	115	76	90
8	100	60	77	95	69	81	141	56	86	138	76	99
9	147	62	94	125	70	92	137	55	88	96	73	82
10	163	61	101	147	70	100	135	56	86	123	74	92
11	174	60	105	154	63	97	132	56	83	151	72	101
12	172	57	100	152	63	97	126	56	83	162	72	104
13	146	55	83	120	58	83	---	---	---	170	74	107
14	86	71	78	149	65	97	---	---	---	167	69	105
15	99	68	81	152	63	99	109	57	76	142	68	96
16	116	67	86	148	63	95	129	60	87	149	70	98
17	135	59	90	151	60	94	141	57	86	140	70	95
18	142	58	91	142	58	90	108	53	72	142	67	94
19	164	58	101	133	56	83	83	54	66	149	67	94
20	164	65	102	130	55	85	108	53	74	85	64	74
21	168	60	103	143	59	92	134	55	86	98	62	73
22	158	58	95	144	62	92	137	60	89	114	64	82
23	92	65	76	128	61	87	161	58	97	122	63	83
24	117	65	86	125	67	80	150	55	88	90	64	78
25	142	65	95	85	61	74	151	62	95	86	75	79
26	137	65	87	89	61	73	152	60	92	91	76	82
27	125	64	87	86	59	69	115	58	79	96	74	82
28	138	63	88	98	62	76	136	56	87	96	75	83
29	96	70	80	108	59	77	130	53	83	102	75	85
30	115	66	86	125	60	85	128	58	80	109	76	88
31	---	---	---	---	---	---	139	56	81	---	---	---
MONTH	174	55	90	---	---	---	---	---	---	170	56	87



Bridal Veil Falls near Highlands, North Carolina.

SANTEE RIVER BASIN

02146470 LITTLE HOPE CREEK AT SENECA PLACE AT CHARLOTTE, NC

LOCATION.--Lat 35°09'53", long 80°51'12", Mecklenburg County, Hydrologic Unit 03050103, on right bank at downstream side of bridge on Seneca Place, 0.8 mi upstream from mouth, and 4 mi south of city hall in Charlotte.

DRAINAGE AREA.--2.63 mi<sup>2</sup>, revised.

PERIOD OF RECORD.--Water years 1967 to 1970 (annual maximum), December 1982 to September 1990, October 1994 to current year.

REVISED RECORDS.--WDR NC-85-1: 1984 (P). WDR NC-88-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 597.77 ft above sea level (North Carolina Coast and Geodetic Survey bench mark). Radio telemetry at station.

REMARKS.--Records poor. No flow occurred periodically in 1986, 1987, 1988, and 2001.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.28	.25	.97	.42	.54	.65	1.9	.55	8.3	.28	.17	.28
2	.33	.25	.96	.49	.53	.65	1.3	.58	.66	.82	.11	.09
3	.32	.38	1.0	e.50	.53	4.0	2.2	.57	.41	.35	.07	16
4	.30	.25	.99	e.48	.53	15	1.2	.54	.38	12	.09	14
5	.26	.41	.99	.62	.54	2.3	1.1	.51	.36	1.3	.10	.32
6	.26	.22	.98	.61	.53	.99	1.1	.47	.32	.30	.06	.22
7	.25	.24	1.0	.59	.54	.83	1.1	.43	.37	.24	.00	.21
8	.28	.24	1.0	4.2	.54	.74	1.0	.47	.81	.60	.00	.21
9	.31	2.8	.75	.58	.56	.73	1.0	.50	.33	.29	.01	3.6
10	.29	1.3	.73	.49	1.1	.75	.99	.44	.31	.22	.00	.22
11	.27	.30	.75	.52	.53	.82	.94	.42	.27	.16	.00	.17
12	.22	.31	.79	4.7	2.0	3.1	.90	.45	.25	.11	.00	.14
13	.24	.32	.88	.87	2.1	1.2	4.1	.46	6.8	.40	14	.11
14	.21	3.3	1.6	.57	2.3	.71	.86	.44	.77	.17	.32	.13
15	.21	.39	.42	.54	.69	14	1.0	.49	.27	.08	.14	.09
16	.18	.33	6.0	.51	.69	1.3	.86	.47	.25	e.08	.08	.06
17	.19	2.6	7.6	.50	15	.96	.80	.52	.27	e.09	.08	.04
18	.21	.38	.58	1.1	.87	.82	.79	.48	.24	e.13	.07	.05
19	.17	6.9	e.56	8.8	.71	.82	.79	.43	.16	e.60	.00	.02
20	.22	1.2	e.52	3.5	.66	30	.77	.43	.13	.19	.00	4.9
21	.23	1.5	e.50	.90	.62	13	.77	7.0	.12	.10	.00	.14
22	.50	.37	e.46	.70	7.3	1.7	.77	4.6	11	.09	.00	.07
23	.50	.32	.44	.62	.87	1.3	.74	.74	.69	1.1	.00	.03
24	.43	.32	.44	.60	.71	1.1	1.2	1.8	.28	12	.00	33
25	.19	13	.42	.56	3.6	1.0	9.8	1.6	.24	.74	.00	.27
26	.21	1.4	e.40	.55	.89	.91	.62	4.2	9.0	.67	.00	.12
27	.20	.47	e.42	.57	.70	.91	.56	.50	.46	.21	.00	.10
28	.19	.52	e.40	.58	.68	.81	.55	5.3	20	.20	.00	.10
29	.24	.40	.44	.51	---	58	.57	4.5	.75	.36	.00	.14
30	.21	.73	.43	1.6	---	5.1	.56	.57	.29	.24	.00	.10
31	.25	---	.41	.58	---	2.2	---	.49	---	.17	.47	---
TOTAL	8.15	41.40	33.83	38.36	46.86	166.40	40.84	40.95	64.49	34.29	15.77	74.93
MEAN	.26	1.38	1.09	1.24	1.67	5.37	1.36	1.32	2.15	1.11	.51	2.50
MAX	.50	13	7.6	8.8	15	58	9.8	7.0	20	12	14	33
MIN	.17	.22	.40	.42	.53	.65	.55	.42	.12	.08	.00	.02
CFSM	.10	.52	.41	.47	.64	2.04	.52	.50	.82	.42	.19	.95
IN.	.12	.59	.48	.54	.66	2.35	.58	.58	.91	.49	.22	1.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2001,® BY WATER YEAR (WY)

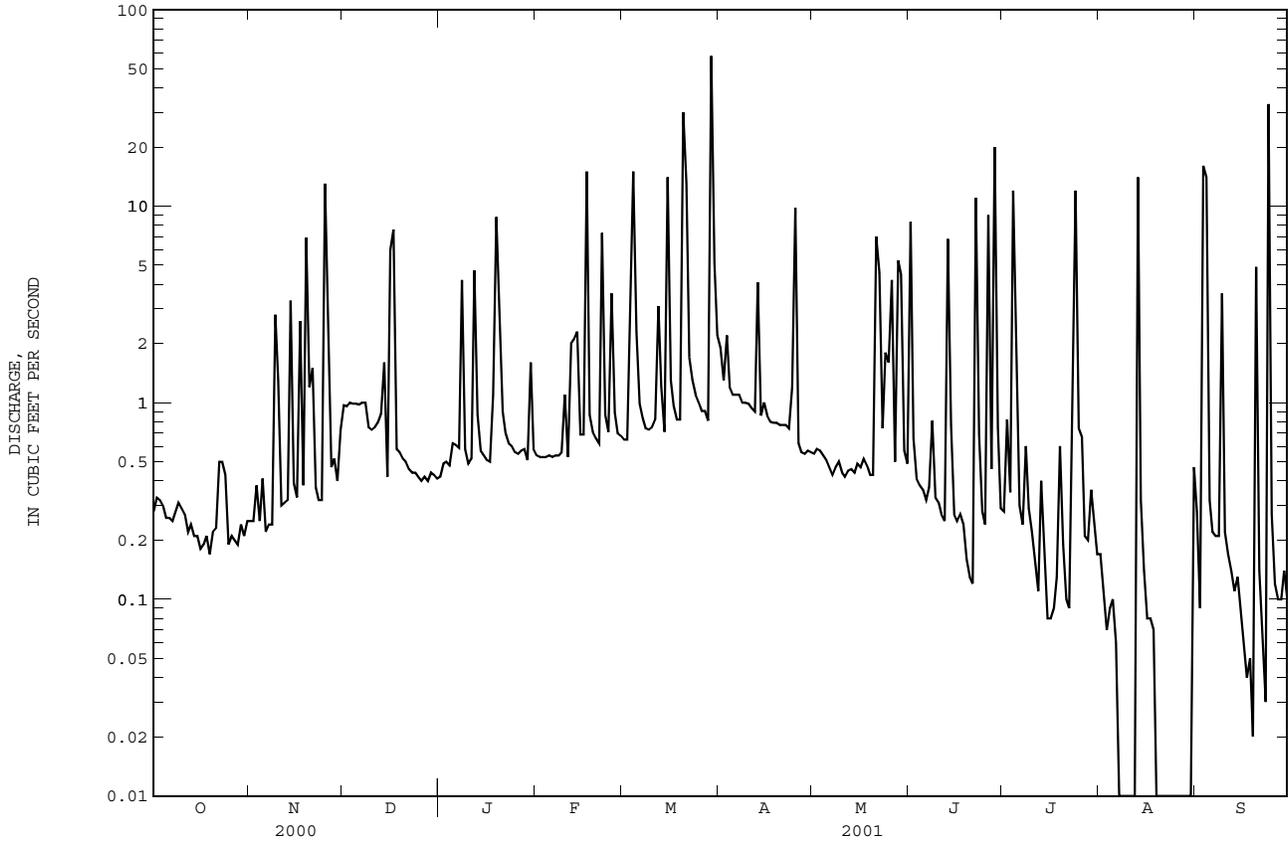
	MEAN	2.35	2.89	2.95	4.37	5.44	4.47	3.32	2.59	2.47	2.92	2.60	2.40
MAX	5.05	10.5	10.5	9.46	8.96	9.04	9.13	6.65	7.18	13.8	9.12	8.17	
(WY)	1990	1986	1984	1998	1990	1984	1998	1990	1985	1997	1995	1989	
MIN	.26	.95	1.09	1.24	1.59	1.03	1.24	.88	.22	.31	.19	.34	
(WY)	2001	1985	2001	2001	1986	1985	1985	1987	1986	1986	1987	1983	

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1983 - 2001®

ANNUAL TOTAL	823.79	606.27	
ANNUAL MEAN	2.25	1.66	3.22
HIGHEST ANNUAL MEAN			4.87
LOWEST ANNUAL MEAN			1.66
HIGHEST DAILY MEAN	34	Mar 20	58
LOWEST DAILY MEAN	.15	Aug 23	.00
ANNUAL SEVEN-DAY MINIMUM	.20	Oct 14	.00
MAXIMUM PEAK FLOW			412
MAXIMUM PEAK STAGE			5.68
INSTANTANEOUS LOW FLOW			.00*
ANNUAL RUNOFF (CFSM)	.86		.63
ANNUAL RUNOFF (INCHES)	11.65		8.58
10 PERCENT EXCEEDS	4.6		3.6
50 PERCENT EXCEEDS	.88		.51
90 PERCENT EXCEEDS	.27		.10

e Estimated.  
® See PERIOD OF RECORD.  
\* See REMARKS.

02146470 LITTLE HOPE CREEK AT SENECA PLACE AT CHARLOTTE, NC--Continued



## SANTEE RIVER BASIN

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC

LOCATION.--Lat 35°08'52", long 80°51'29", Mecklenburg County, Hydrologic Unit 03050103, on left bank at downstream side of bridge on Archdale Drive (Secondary Road 3657) in Charlotte, 0.7 mi downstream of Little Hope Creek, and 5.0 mi south of city hall, Charlotte.

DRAINAGE AREA.--42.6 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1978 to current year.

GAGE.--Water-stage recorder. Datum of gage is 564.46 ft above sea level (levels by City of Charlotte). Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. A daily average of 21.1 ft<sup>3</sup>/s of treated sewage effluent from Little Sugar Creek wastewater treatment plant was discharged into the stream 0.4 mi upstream from gage. Minimum discharge for period of record and current water year affected by regulation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 22, 1975, reached a stage of about 12.7 ft, from floodmarks, discharge, 7,360 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	25	33	33	35	39	55	35	234	29	27	40
2	28	26	32	e32	34	38	40	35	49	40	28	26
3	27	26	32	e33	33	87	49	29	34	37	29	410
4	27	26	32	e32	33	384	40	32	39	380	28	357
5	22	31	33	e33	33	77	35	34	38	162	28	38
6	22	26	33	e32	32	47	36	33	39	34	28	31
7	45	29	32	33	32	46	37	34	32	30	28	29
8	22	27	33	92	32	41	35	35	44	37	30	27
9	21	66	32	40	31	41	34	34	35	34	28	69
10	21	67	32	35	43	40	35	34	32	31	27	35
11	22	28	33	35	32	40	34	33	31	29	39	31
12	21	27	33	92	54	67	34	32	31	28	34	29
13	21	27	33	54	46	74	112	32	327	34	120	30
14	20	99	53	36	82	41	43	31	127	31	33	30
15	20	32	38	35	36	320	41	32	35	27	28	26
16	22	31	97	35	34	63	41	32	32	24	27	24
17	29	78	178	35	401	47	37	30	32	26	33	28
18	26	31	41	44	48	43	37	32	31	26	67	25
19	25	135	42	213	41	41	36	31	31	47	53	25
20	25	55	e40	132	40	481	36	31	31	34	29	100
21	25	35	36	55	38	451	35	124	30	25	28	29
22	26	27	37	39	172	67	34	136	149	25	27	26
23	26	26	33	37	48	50	34	51	62	33	27	25
24	26	28	32	36	40	46	40	76	31	208	29	861
25	29	303	33	35	117	44	217	70	29	66	28	51
26	25	57	33	34	50	42	39	183	100	60	26	32
27	26	37	e32	35	41	41	35	33	37	29	26	33
28	26	35	35	34	41	40	34	126	102	27	26	32
29	25	34	32	35	---	1100	33	102	54	30	27	30
30	25	32	33	58	---	186	34	43	31	37	26	29
31	26	---	32	38	---	59	---	34	---	28	41	---
TOTAL	778	1506	1280	1542	1699	4183	1382	1629	1909	1688	1055	2558
MEAN	25.1	50.2	41.3	49.7	60.7	135	46.1	52.5	63.6	54.5	34.0	85.3
MAX	45	303	178	213	401	1100	217	183	327	380	120	861
MIN	20	25	32	32	31	38	33	29	29	24	26	24
CFSM	.59	1.18	.97	1.17	1.42	3.17	1.08	1.23	1.49	1.28	.80	2.00
IN.	.68	1.32	1.12	1.35	1.48	3.65	1.21	1.42	1.67	1.47	.92	2.23

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2001, BY WATER YEAR (WY)

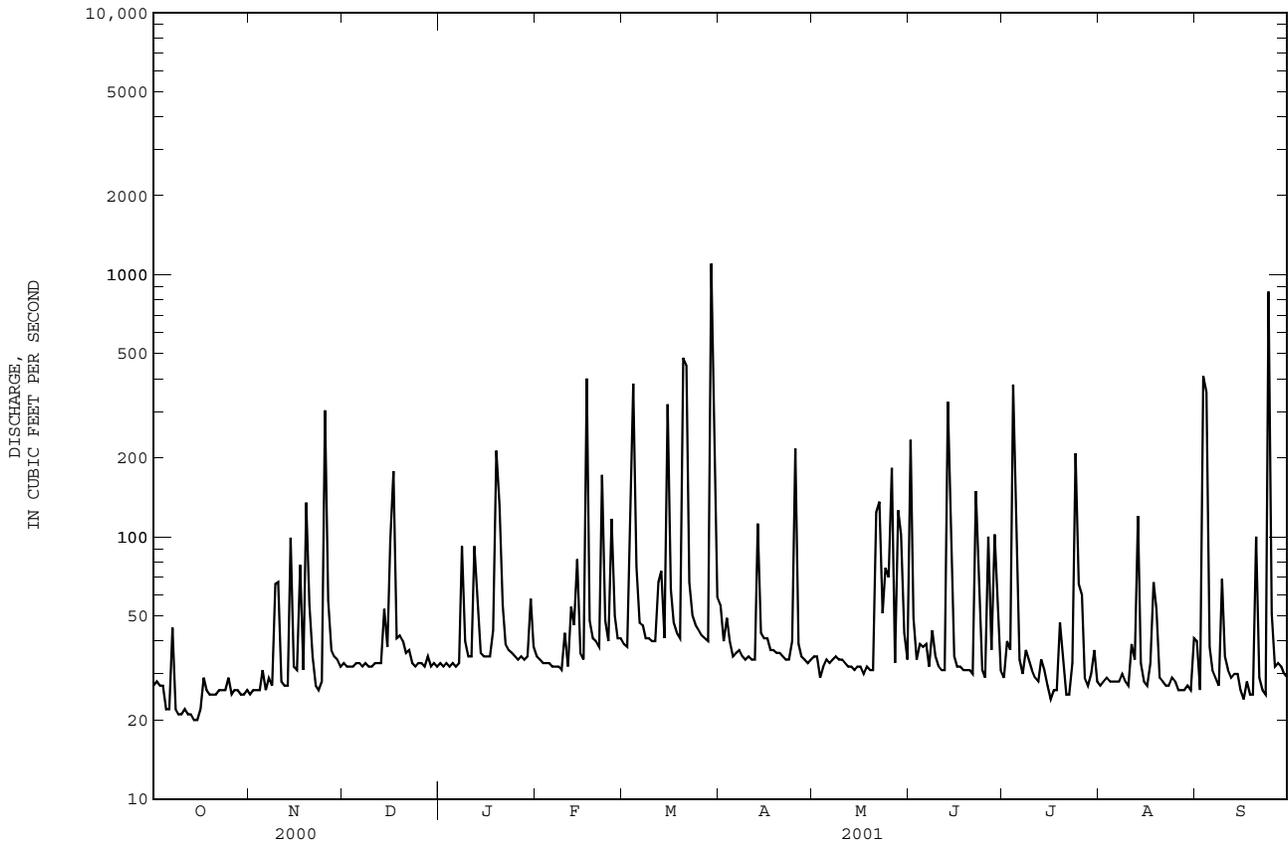
	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	71.0	71.0	68.0	110	113	119	85.0	68.9	71.2	70.3	72.7	65.4												
MAX	258	197	164	207	194	245	205	119	152	310	227	147												
(WY)	1991	1986	1984	1978	1979	1993	1998	1985	1992	1997	1995	1979												
MIN	25.1	22.6	32.8	31.6	44.8	40.0	30.8	33.8	20.5	27.2	29.5	21.7												
(WY)	2001	1982	1981	1981	1986	1985	1981	1986	1986	1986	1987	1986												

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1978 - 2001	
ANNUAL TOTAL	26278		21209			
ANNUAL MEAN	71.8		58.1		82.0	
HIGHEST ANNUAL MEAN					110	
LOWEST ANNUAL MEAN					51.7	
HIGHEST DAILY MEAN	1420	Sep 23	1100	Mar 29	6160	Jul 23 1997
LOWEST DAILY MEAN	20	Oct 14	20	Oct 14	15	Sep 20 1981
ANNUAL SEVEN-DAY MINIMUM	21	Oct 9	21	Oct 9	15	May 28 1994
MAXIMUM PEAK FLOW			3960		13600	
MAXIMUM PEAK STAGE			9.15		15.06	
INSTANTANEOUS LOW FLOW			9.6*		6.3*	
ANNUAL RUNOFF (CFSM)	1.69		1.36		1.92	
ANNUAL RUNOFF (INCHES)	22.95		18.52		26.15	
10 PERCENT EXCEEDS	136		98		147	
50 PERCENT EXCEEDS	37		34		38	
90 PERCENT EXCEEDS	27		26		25	

e Estimated.

\* See REMARKS.

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC--Continued



02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1999 to current year.

pH: April 1999 to current year.

WATER TEMPERATURE: April 1999 to current year.

DISSOLVED OXYGEN: April 1999 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION: April 1999 to current year.

INSTRUMENTATION.-- Water-quality monitor with radio telemetry.

REMARKS.--Station operated in cooperation with Mecklenburg County Department of Environmental Protection to characterize water-quality conditions in Little Sugar Creek basin. Dissolved oxygen, percent saturation, computed using barometric pressure of 740 mm Hg.

EXTREMES FOR PERIOD OF DAILY RECORD.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	2560, April 24, 2000	27, September 24, 2001
pH, standard units	11.8, April 24, 2000	5.9, April 27, 1999
WATER TEMPERATURE, °C	31.6, July 31, 1999	2.5, January 30, 2000
DISSOLVED OXYGEN, mg/L	13.0, June 23, 1999	1.9, September 5, 1999
DISSOLVED OXYGEN, PERCENT SATURATION,%	159, June 26, 2000, July 16, 2001	24, September 5, 1999

EXTREMES FOR CURRENT YEAR.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	1800, February 22	27, September 24
pH, standard units	8.7, July 16	6.3, September 3
WATER TEMPERATURE, °C	30.8, August 11	6.3, January 21
DISSOLVED OXYGEN, mg/L	11.8, July 16	3.5, April 13, August 18
DISSOLVED OXYGEN, PERCENT SATURATION,%	159, July 16	41, April 13

SANTEE RIVER BASIN

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	527	430	496	682	475	624	546	429	509	439	359	404
2	477	381	440	719	544	652	587	461	547	435	305	389
3	519	400	477	665	529	630	596	441	565	---	---	---
4	564	443	533	681	559	644	580	442	539	579	449	519
5	574	480	536	654	447	568	556	450	536	586	408	525
6	637	432	599	644	522	593	590	456	548	604	429	540
7	611	213	462	658	539	608	599	440	569	582	439	522
8	574	487	550	658	521	609	579	468	541	510	251	360
9	590	489	564	652	265	445	543	448	514	537	330	444
10	563	474	544	610	214	403	531	426	506	558	435	534
11	---	---	---	631	487	579	574	435	520	558	417	528
12	637	503	618	595	439	547	661	543	608	565	206	363
13	633	547	602	593	476	547	643	498	593	450	260	375
14	606	524	579	561	180	353	554	335	430	544	353	486
15	561	485	531	529	348	472	554	365	498	591	434	554
16	553	461	525	619	432	558	555	198	328	581	433	553
17	605	430	552	605	218	373	306	121	222	583	474	558
18	603	480	561	583	376	526	483	277	379	584	295	502
19	576	467	546	582	149	347	536	359	478	442	140	324
20	630	428	550	396	225	322	555	392	489	283	201	240
21	662	524	623	561	372	486	522	416	494	394	187	324
22	679	538	643	576	431	543	567	439	499	417	301	393
23	673	536	632	609	484	567	699	453	573	486	339	436
24	665	549	631	580	463	543	478	406	449	539	396	496
25	688	550	642	546	94	292	448	388	418	579	434	537
26	657	548	628	411	178	306	407	346	390	573	402	518
27	676	554	642	474	325	424	408	308	368	531	397	502
28	693	552	657	515	447	489	498	345	446	530	415	493
29	690	567	653	532	405	513	571	457	531	490	379	455
30	699	545	654	550	407	502	538	440	513	493	287	380
31	671	528	629	---	---	---	515	413	460	523	357	472
MONTH	---	---	---	719	94	502	699	121	486	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	549	424	514	563	439	516	362	301	336	542	487	523
2	562	425	535	530	297	467	397	310	362	591	446	545
3	551	416	519	494	184	358	410	284	371	588	443	538
4	505	394	475	272	73	178	437	343	405	617	481	579
5	477	378	456	396	204	312	439	383	422	630	534	605
6	498	374	469	466	323	419	470	307	425	590	481	537
7	546	410	506	521	356	469	461	388	433	534	423	500
8	551	412	523	516	239	460	432	355	416	570	461	544
9	539	408	514	517	363	465	449	356	422	587	470	556
10	537	382	474	493	392	473	459	383	444	596	476	570
11	599	426	545	485	396	457	505	391	468	613	499	589
12	574	258	419	471	255	419	515	430	493	598	478	543
13	560	243	453	454	219	347	510	218	375	524	430	485
14	510	190	361	527	377	470	471	317	415	477	392	446
15	568	394	527	532	116	261	471	350	424	560	433	502
16	603	451	561	421	189	350	464	361	418	619	507	569
17	553	84	247	486	334	433	472	394	445	621	513	585
18	410	257	347	461	351	427	486	420	458	601	503	573
19	441	328	402	471	340	419	498	413	481	582	482	559
20	476	374	450	447	73	260	523	446	491	559	472	535
21	571	362	492	318	86	195	525	442	504	535	188	304
22	1800	116	663	397	278	331	516	437	494	399	124	299
23	729	484	656	431	338	401	495	404	471	546	231	412
24	547	408	516	467	363	433	498	350	465	602	144	489
25	533	190	342	473	391	446	396	138	233	479	216	364
26	432	247	359	435	363	422	506	307	430	372	126	237
27	538	275	453	456	374	437	531	419	499	467	302	418
28	575	395	498	463	373	441	541	428	522	475	133	293
29	---	---	---	465	53	218	536	421	512	466	159	294
30	---	---	---	315	126	222	534	431	506	592	340	513
31	---	---	---	331	253	314	---	---	---	596	485	543
MONTH	1800	84	474	563	53	381	541	138	438	630	124	485

## SANTEE RIVER BASIN

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN									
1	581	113	304	508	416	462	599	513	558	471	279	399
2	427	245	344	446	144	392	616	505	589	450	394	425
3	494	366	445	441	214	366	619	514	570	431	60	205
4	527	399	494	456	69	339	565	462	515	279	70	162
5	564	442	521	330	75	210	508	446	482	460	248	362
6	603	471	558	407	290	365	496	411	463	528	380	483
7	556	479	534	419	364	398	553	420	504	579	423	534
8	535	340	441	404	298	355	563	359	519	563	474	535
9	467	346	437	424	302	357	592	468	554	531	193	375
10	451	363	423	466	372	425	570	469	529	479	328	421
11	467	383	431	484	412	463	527	295	443	546	439	502
12	539	401	485	529	442	496	454	330	399	559	475	531
13	553	64	405	520	395	459	461	102	346	599	495	558
14	395	108	268	503	439	475	521	312	432	578	498	549
15	480	299	440	487	398	466	626	491	572	564	448	509
16	481	388	451	524	408	473	665	550	615	520	470	497
17	468	397	437	536	450	494	665	180	592	525	463	502
18	450	396	421	579	469	523	542	154	461	557	477	531
19	541	436	481	590	303	497	438	197	348	608	489	572
20	599	444	548	569	485	531	540	413	463	607	178	344
21	582	499	541	555	439	512	603	462	550	487	343	449
22	544	121	420	509	413	483	630	503	590	536	454	494
23	439	176	337	491	389	454	618	517	578	543	477	510
24	442	350	420	548	99	338	579	486	551	516	27	191
25	438	391	416	391	150	313	631	537	584	440	190	329
26	454	141	338	430	224	332	611	512	574	535	222	454
27	519	270	404	519	382	469	559	490	538	584	480	544
28	550	95	422	543	457	505	543	476	516	612	453	569
29	518	226	408	513	341	460	544	473	517	582	455	528
30	565	446	521	497	386	447	618	525	563	511	433	477
31	---	---	---	543	425	484	640	281	562	---	---	---
MONTH	603	64	436	590	69	430	665	102	519	612	27	451

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN									
1	7.2	6.8	7.0	7.5	7.2	7.3	7.2	6.9	7.1	7.2	6.7	6.9
2	7.3	6.8	7.0	7.4	7.2	7.3	7.2	7.0	7.1	7.2	6.7	6.9
3	7.5	6.9	7.1	7.4	7.2	7.3	7.2	7.0	7.1	---	---	---
4	7.6	7.0	7.2	7.4	7.2	7.3	7.3	7.0	7.1	7.4	7.0	7.2
5	8.0	7.1	7.3	7.4	7.2	7.3	7.2	7.1	7.1	7.4	7.1	7.3
6	7.7	7.2	7.4	7.4	7.3	7.3	7.3	7.1	7.2	7.5	7.2	7.3
7	7.3	7.1	7.2	7.4	7.2	7.3	7.3	7.1	7.2	7.6	7.2	7.3
8	7.3	7.1	7.2	7.5	7.2	7.3	7.3	7.1	7.2	7.3	7.1	7.2
9	7.4	7.2	7.3	7.3	7.1	7.2	7.3	7.1	7.2	7.3	7.1	7.2
10	7.4	7.1	7.2	7.3	7.0	7.2	7.3	7.1	7.2	7.5	7.2	7.3
11	---	---	---	7.3	7.2	7.3	7.3	7.1	7.2	7.5	7.2	7.3
12	7.5	7.2	7.3	7.3	7.2	7.3	7.4	7.1	7.2	7.4	7.2	7.2
13	7.6	7.2	7.3	7.4	7.1	7.3	7.4	7.1	7.2	7.3	7.1	7.2
14	7.6	7.2	7.3	7.2	7.0	7.1	7.3	7.0	7.2	7.2	7.1	7.1
15	7.7	7.2	7.4	7.2	7.0	7.1	7.2	6.9	7.1	7.2	7.0	7.1
16	8.0	7.2	7.4	7.2	7.0	7.1	7.2	7.0	7.1	7.1	6.9	7.0
17	7.4	7.2	7.3	7.2	7.1	7.1	7.4	7.1	7.2	7.2	6.9	7.1
18	7.6	7.2	7.3	7.3	7.1	7.2	7.5	7.2	7.3	7.2	7.0	7.1
19	7.7	7.2	7.4	7.3	7.1	7.2	7.5	7.2	7.4	7.4	6.9	7.1
20	7.7	7.2	7.4	7.2	7.1	7.2	7.9	7.2	7.4	7.0	7.0	7.0
21	7.7	7.3	7.4	7.2	7.1	7.2	7.4	7.1	7.2	7.1	7.0	7.1
22	7.7	7.2	7.4	7.3	7.1	7.2	7.3	7.1	7.2	7.2	7.0	7.1
23	7.5	7.1	7.2	7.3	7.1	7.2	7.5	7.1	7.2	7.5	7.0	7.2
24	7.6	7.2	7.3	7.3	7.1	7.2	7.2	6.9	7.0	7.6	7.2	7.4
25	7.4	7.1	7.2	7.3	6.8	7.1	7.1	6.9	7.0	7.6	7.2	7.4
26	7.4	7.1	7.3	7.1	7.0	7.1	7.2	6.7	6.8	7.7	7.4	7.5
27	7.4	7.2	7.3	7.3	7.0	7.1	7.2	6.8	6.9	7.7	7.3	7.5
28	7.4	7.3	7.3	7.4	7.1	7.2	7.2	6.8	7.0	7.7	7.4	7.5
29	7.5	7.3	7.4	7.3	7.0	7.1	7.3	6.8	7.0	7.6	7.3	7.4
30	7.5	7.2	7.3	7.2	7.0	7.1	7.2	7.0	7.1	7.5	7.3	7.4
31	7.4	7.2	7.3	---	---	---	7.3	6.8	7.0	7.6	7.2	7.4
MONTH	---	---	---	7.5	6.8	7.2	7.9	6.7	7.1	---	---	---

SANTEE RIVER BASIN

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	7.6	7.2	7.3	7.8	7.3	7.5	7.7	7.4	7.6	7.8	7.3	7.4
2	7.7	7.2	7.3	7.9	7.3	7.5	7.4	7.2	7.3	7.8	7.3	7.5
3	7.6	7.3	7.4	7.5	7.3	7.4	7.5	7.2	7.3	8.0	7.3	7.6
4	7.7	7.2	7.4	7.3	7.1	7.2	7.4	7.2	7.3	7.8	7.3	7.5
5	7.7	7.2	7.3	7.5	7.2	7.4	7.5	7.3	7.4	7.8	7.3	7.5
6	7.7	7.2	7.3	7.5	7.3	7.4	7.6	7.3	7.4	7.9	7.3	7.5
7	7.6	7.1	7.3	7.5	7.2	7.4	7.8	7.3	7.5	7.9	7.3	7.5
8	7.7	7.1	7.3	8.0	7.3	7.4	8.2	7.3	7.6	7.8	7.4	7.5
9	7.6	7.1	7.3	7.7	7.3	7.5	8.4	7.3	7.6	7.8	7.3	7.5
10	7.6	7.0	7.2	7.7	7.3	7.5	8.1	7.3	7.5	7.6	7.3	7.4
11	7.6	7.0	7.2	7.8	7.3	7.5	8.4	7.2	7.6	7.9	7.3	7.5
12	7.5	7.1	7.2	7.7	7.2	7.5	8.3	7.3	7.6	7.7	7.2	7.4
13	7.6	7.3	7.4	7.5	7.2	7.3	---	---	---	8.1	7.2	7.4
14	7.4	7.2	7.3	7.5	7.2	7.3	---	---	---	7.7	7.1	7.3
15	7.4	7.2	7.3	7.3	7.1	7.2	---	---	---	8.1	7.2	7.5
16	7.7	7.2	7.4	7.3	7.1	7.2	---	---	---	8.1	7.3	7.5
17	7.3	7.0	7.2	7.5	7.3	7.4	---	---	---	8.2	7.3	7.6
18	7.4	7.2	7.3	7.5	7.3	7.4	7.6	7.3	7.4	8.2	7.3	7.6
19	7.9	7.4	7.5	7.6	7.3	7.4	7.6	7.3	7.4	8.4	7.3	7.5
20	7.7	7.3	7.5	7.4	7.1	7.3	7.8	7.3	7.5	7.9	7.2	7.4
21	7.6	7.3	7.4	7.2	7.0	7.1	8.0	7.3	7.5	7.3	7.0	7.1
22	7.5	7.3	7.4	7.4	7.2	7.2	8.1	7.3	7.5	7.2	6.8	7.0
23	7.4	7.2	7.3	7.3	7.2	7.3	7.9	7.3	7.5	7.3	7.0	7.1
24	7.4	7.2	7.3	7.4	7.2	7.3	7.9	7.3	7.5	7.3	6.9	7.2
25	7.4	7.2	7.3	7.5	7.2	7.3	7.3	7.1	7.2	7.3	7.0	7.2
26	7.4	7.2	7.3	7.6	7.2	7.3	7.4	7.1	7.3	7.2	6.8	7.0
27	7.7	7.2	7.3	7.6	7.2	7.3	7.4	7.2	7.2	7.2	6.9	7.0
28	7.6	7.2	7.3	7.6	7.2	7.3	7.5	7.2	7.3	7.1	6.9	7.0
29	---	---	---	7.3	6.8	7.1	7.6	7.2	7.4	7.2	6.9	7.0
30	---	---	---	6.9	6.7	6.7	7.7	7.2	7.4	7.3	7.2	7.3
31	---	---	---	7.6	6.7	7.2	---	---	---	7.4	7.2	7.3
MONTH	7.9	7.0	7.3	8.0	6.7	7.3	---	---	---	8.4	6.8	7.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.7	6.9	7.2	7.8	7.2	7.4	7.9	7.4	7.5	7.4	7.0	7.2
2	7.3	7.1	7.2	8.0	7.0	7.3	8.3	7.4	7.6	7.2	6.8	7.0
3	7.3	7.2	7.2	7.4	7.0	7.1	7.9	7.3	7.5	6.9	6.3	6.7
4	7.4	7.2	7.3	7.8	6.7	7.3	7.6	7.2	7.4	6.9	6.4	6.6
5	7.5	7.1	7.3	7.1	6.6	7.0	7.7	7.2	7.3	7.3	6.9	7.1
6	7.8	7.1	7.3	7.3	7.0	7.1	7.6	7.2	7.3	7.6	7.2	7.4
7	8.1	7.2	7.5	7.5	7.1	7.3	7.9	7.2	7.5	7.7	7.4	7.5
8	7.7	7.2	7.4	7.5	7.2	7.3	7.9	7.3	7.6	7.8	7.3	7.5
9	8.1	7.2	7.5	7.6	7.2	7.4	7.8	7.3	7.5	7.5	7.1	7.3
10	8.6	7.2	7.5	7.9	7.4	7.7	7.9	7.3	7.6	7.4	7.1	7.2
11	8.1	7.2	7.5	8.3	7.3	7.7	7.9	7.1	7.4	7.4	7.2	7.3
12	8.3	7.3	7.6	8.2	7.3	7.6	7.6	7.1	7.3	7.4	7.2	7.3
13	8.1	7.0	7.5	8.1	7.4	7.6	7.5	6.8	7.1	7.4	7.2	7.3
14	7.2	6.9	7.1	8.0	7.3	7.6	7.4	6.9	7.2	7.5	7.2	7.3
15	7.4	7.2	7.3	8.4	7.3	7.7	7.4	7.1	7.2	7.7	7.3	7.4
16	7.6	7.3	7.5	8.7	7.2	7.7	7.7	7.2	7.4	7.7	7.2	7.4
17	7.6	7.3	7.4	8.2	7.1	7.5	7.8	7.0	7.4	7.4	7.1	7.2
18	7.6	7.3	7.4	8.3	7.2	7.6	7.5	6.8	7.3	7.6	7.1	7.3
19	8.1	7.4	7.7	7.8	7.1	7.4	7.4	7.1	7.2	7.8	7.3	7.5
20	8.2	7.4	7.7	7.8	7.2	7.5	7.4	7.1	7.2	7.4	7.0	7.2
21	8.3	7.4	7.7	8.5	7.4	7.7	7.6	7.2	7.4	7.6	7.0	7.3
22	8.6	7.0	7.7	8.6	7.4	7.7	7.9	7.3	7.5	7.7	7.3	7.5
23	7.4	7.0	7.3	8.0	7.3	7.6	7.9	7.3	7.5	7.6	7.3	7.4
24	7.7	7.3	7.4	7.8	7.0	7.4	8.0	7.3	7.5	7.4	7.0	7.2
25	7.9	7.3	7.5	7.6	7.1	7.4	8.1	7.3	7.5	7.4	7.2	7.3
26	7.8	7.2	7.4	7.6	7.3	7.4	8.1	7.3	7.5	7.5	7.2	7.4
27	7.6	7.2	7.4	7.6	7.4	7.5	7.9	7.2	7.4	7.4	7.2	7.3
28	7.7	7.1	7.4	7.8	7.5	7.6	7.8	7.2	7.4	7.5	7.2	7.3
29	7.6	7.2	7.4	7.7	7.4	7.5	7.7	7.2	7.4	7.5	7.2	7.3
30	7.7	7.3	7.5	7.6	7.3	7.4	7.8	7.3	7.4	7.6	7.2	7.3
31	---	---	---	7.9	7.3	7.5	7.8	7.2	7.5	---	---	---
MONTH	8.6	6.9	7.4	8.7	6.6	7.5	8.3	6.8	7.4	7.8	6.3	7.3

## SANTEE RIVER BASIN

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	24.7	21.1	23.2	22.0	17.4	20.4	16.5	12.1	15.2	10.8	7.7	9.8
2	24.8	20.4	23.0	22.4	17.4	20.6	15.8	12.6	14.9	11.3	7.2	9.8
3	25.7	21.5	23.9	22.2	17.9	21.1	15.0	10.8	14.2	---	---	---
4	26.1	22.0	24.4	22.4	19.7	21.6	15.0	9.5	13.5	11.6	7.2	10.1
5	26.0	22.5	24.4	21.8	18.7	20.6	15.2	11.2	13.5	11.7	8.3	10.3
6	25.5	22.8	24.2	21.5	17.9	20.1	14.7	10.1	13.6	12.4	7.4	10.9
7	24.5	19.6	23.0	22.0	19.4	20.9	15.6	11.2	14.2	12.7	8.1	11.3
8	22.4	19.2	20.8	22.8	19.3	21.4	15.8	11.2	14.5	12.4	7.7	9.8
9	21.4	17.8	19.7	22.3	18.8	20.5	15.5	11.8	14.6	12.1	8.5	10.8
10	21.3	17.9	19.6	21.1	17.7	19.4	15.2	12.0	14.6	12.7	7.4	11.1
11	---	---	---	21.2	16.7	19.5	15.7	12.5	15.0	12.8	7.9	11.6
12	22.1	17.7	20.2	20.7	16.2	19.1	16.7	13.9	15.7	12.6	7.3	9.5
13	22.5	18.2	20.6	20.4	16.0	19.1	15.1	11.1	14.0	12.0	7.1	10.2
14	22.9	19.0	21.1	19.9	14.2	16.8	13.4	9.6	11.4	13.6	10.0	12.4
15	23.0	19.1	21.2	18.7	13.7	17.1	14.6	10.4	13.7	14.7	10.6	13.3
16	23.2	19.1	21.6	19.2	14.2	17.7	14.4	7.5	10.3	14.8	11.2	13.6
17	24.1	19.2	22.4	18.3	11.7	14.8	12.0	9.6	10.9	14.1	12.0	13.3
18	24.5	20.8	23.1	17.2	12.9	16.1	12.9	8.5	11.6	13.8	9.7	12.9
19	24.1	20.3	22.7	17.0	7.3	11.8	12.5	9.0	11.4	12.9	9.6	11.2
20	23.6	19.7	22.3	14.0	8.9	11.9	11.5	6.6	9.9	11.7	9.8	11.1
21	23.8	20.1	22.4	15.1	11.5	13.7	11.9	7.9	11.1	11.5	6.3	10.0
22	24.0	20.3	22.5	16.1	10.6	14.2	12.9	9.4	11.4	12.5	7.9	10.9
23	23.6	20.3	22.3	16.5	12.0	14.8	12.5	7.4	11.0	12.6	7.8	11.1
24	23.5	19.9	22.2	16.6	13.7	15.5	12.6	7.9	11.0	13.1	8.4	11.7
25	23.9	21.0	22.7	16.3	8.4	11.8	11.4	8.6	10.4	12.8	9.2	11.8
26	23.7	20.3	22.4	14.8	10.6	13.1	11.0	6.8	10.0	13.0	7.1	11.6
27	23.7	19.8	22.3	15.9	11.7	14.7	10.6	6.4	9.5	13.7	8.7	12.2
28	23.9	20.3	22.6	16.9	13.3	15.2	11.9	7.9	10.9	13.3	8.6	11.7
29	23.5	19.9	22.1	17.2	12.3	16.0	12.1	7.4	10.8	13.8	8.9	12.2
30	22.6	18.2	21.1	17.2	12.7	15.9	11.8	7.9	10.5	13.7	11.6	12.9
31	22.3	17.0	20.6	---	---	---	11.0	7.2	9.8	15.3	11.4	13.9
MONTH	---	---	---	22.8	7.3	17.2	16.7	6.4	12.4	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	14.8	12.4	13.9	17.4	13.1	15.7	16.1	14.0	14.9	23.6	19.5	21.6
2	14.6	11.4	13.6	18.4	12.4	16.3	17.4	11.7	14.8	24.1	19.9	22.1
3	14.0	9.8	12.6	17.3	13.5	15.6	15.6	14.5	15.1	24.8	20.1	22.4
4	14.4	10.1	12.9	13.5	11.9	12.9	17.6	14.7	16.2	24.9	20.2	22.6
5	14.9	10.6	13.3	15.9	11.3	13.7	17.9	15.4	16.7	25.1	20.8	23.0
6	14.9	9.6	13.1	13.9	9.9	12.4	20.0	15.2	17.9	23.3	21.4	22.4
7	15.4	10.1	13.6	15.5	9.1	13.0	21.6	17.6	19.7	23.4	19.4	21.6
8	15.9	10.8	14.1	15.8	9.8	13.5	22.6	18.7	20.6	22.6	19.5	21.3
9	16.3	11.5	14.7	16.8	11.4	14.6	23.5	19.5	21.3	23.7	20.3	22.2
10	16.6	13.9	15.4	16.3	11.3	14.3	23.6	20.1	21.8	24.3	20.4	22.8
11	15.1	11.5	13.9	16.4	11.5	14.5	23.5	20.5	21.8	25.7	21.3	23.6
12	14.0	8.6	11.2	16.2	13.1	14.9	23.8	20.8	22.2	24.7	21.9	23.5
13	13.6	8.8	11.7	18.7	14.2	16.3	22.0	20.3	21.3	25.0	21.2	23.0
14	14.7	9.9	12.4	18.1	14.0	16.5	22.4	18.5	20.6	24.2	19.9	22.2
15	16.4	14.1	15.5	17.0	13.0	14.2	20.5	19.1	19.8	25.1	20.7	23.0
16	17.9	15.0	16.6	14.9	12.2	14.1	21.3	17.7	19.5	25.8	21.7	23.7
17	16.8	12.8	14.0	18.0	12.4	15.5	19.0	15.9	18.0	23.5	22.1	22.9
18	13.9	10.0	12.3	17.1	12.8	15.3	19.1	14.7	17.1	25.8	21.4	23.7
19	14.3	10.1	12.8	16.9	11.8	14.9	19.9	14.6	17.8	26.7	22.1	24.5
20	15.5	11.0	13.9	14.9	8.9	11.5	20.2	16.4	18.4	25.8	23.2	24.5
21	15.6	12.6	14.7	12.0	9.1	10.6	22.2	17.9	20.0	24.2	22.3	23.1
22	14.7	8.0	10.5	15.9	10.7	13.0	22.9	18.9	20.9	24.5	22.3	23.2
23	14.4	8.4	11.9	17.0	12.0	14.7	23.5	19.4	21.5	25.0	20.1	22.8
24	15.5	10.7	13.8	17.8	12.6	15.7	24.0	20.3	22.0	25.2	21.0	23.1
25	15.1	12.9	14.3	17.2	13.7	15.7	21.4	16.3	17.8	23.0	20.2	22.1
26	17.2	12.9	15.3	17.1	12.8	15.3	21.1	16.3	18.8	23.4	18.7	20.9
27	16.8	12.9	15.4	16.7	11.6	14.6	22.2	17.4	20.0	24.7	19.8	22.6
28	16.8	14.5	15.6	17.0	11.3	14.9	22.9	18.2	21.0	22.4	19.2	20.8
29	---	---	---	15.5	9.0	11.5	21.7	19.0	20.5	23.6	19.8	21.8
30	---	---	---	14.9	9.7	12.4	22.7	18.1	20.6	25.4	20.8	23.5
31	---	---	---	17.1	12.5	15.1	---	---	---	25.3	22.5	24.0
MONTH	17.9	8.0	13.7	18.7	8.9	14.3	24.0	11.7	19.3	26.7	18.7	22.7



SANTEE RIVER BASIN

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	9.5	6.6	7.7
2	---	---	---	---	---	---	---	---	---	9.8	6.2	7.7
3	---	---	---	---	---	---	9.3	7.9	8.4	10.2	6.2	7.7
4	---	---	---	---	---	---	9.1	7.7	8.3	9.6	6.1	7.5
5	---	---	---	---	---	---	9.3	7.5	8.2	9.9	6.1	7.5
6	---	---	---	---	---	---	9.5	6.8	8.0	9.5	6.0	7.6
7	---	---	---	---	---	---	9.7	6.4	7.7	10.2	6.5	7.9
8	---	---	---	---	---	---	10.3	6.1	7.6	9.5	6.5	7.7
9	---	---	---	---	---	---	10.1	5.2	7.2	9.5	6.5	7.7
10	---	---	---	---	---	---	9.7	4.5	6.5	9.7	6.5	7.7
11	---	---	---	---	---	---	9.0	4.1	5.9	10.0	6.2	7.6
12	---	---	---	---	---	---	8.1	3.7	5.7	9.7	6.1	7.5
13	---	---	---	---	---	---	---	---	---	10.5	6.1	7.7
14	---	---	---	---	---	---	---	---	---	10.2	6.2	8.0
15	---	---	---	---	---	---	---	---	---	10.4	6.3	7.9
16	---	---	---	---	---	---	---	---	---	10.5	6.0	7.8
17	---	---	---	---	---	---	---	---	---	10.4	5.7	7.5
18	---	---	---	---	---	---	9.4	7.3	8.1	10.5	6.2	7.8
19	---	---	---	---	---	---	9.6	7.3	8.2	11.1	5.9	7.7
20	---	---	---	---	---	---	10.1	7.1	8.2	10.6	5.6	7.6
21	---	---	---	10.1	8.0	8.9	10.7	6.9	8.2	6.5	4.7	5.5
22	---	---	---	8.8	7.2	8.2	10.9	6.6	8.1	6.7	4.8	5.6
23	---	---	---	8.4	6.9	7.7	10.5	6.4	8.1	7.0	5.5	6.4
24	---	---	---	8.1	6.4	7.4	10.5	5.7	7.9	7.6	4.8	6.6
25	---	---	---	8.2	6.4	7.0	7.3	5.6	6.7	6.9	5.4	6.2
26	---	---	---	7.7	6.2	6.8	7.9	6.7	7.3	6.9	5.4	6.1
27	---	---	---	8.1	6.2	6.9	8.4	6.6	7.3	7.3	5.9	6.7
28	---	---	---	8.3	5.9	6.8	8.5	6.4	7.2	7.1	6.4	6.8
29	---	---	---	---	---	---	9.1	6.3	7.5	7.4	6.9	7.1
30	---	---	---	---	---	---	9.6	6.7	7.7	7.9	6.8	7.3
31	---	---	---	---	---	---	---	---	---	8.3	6.7	7.4
MONTH	---	---	---	---	---	---	---	---	---	11.1	4.7	7.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.9	6.4	7.1	8.0	5.5	6.4	8.5	5.6	6.8	6.9	5.1	5.9
2	6.9	5.9	6.5	9.5	5.6	7.1	8.8	5.6	6.5	7.4	5.5	6.2
3	---	---	---	8.1	5.9	6.8	7.9	5.3	6.4	---	---	---
4	---	---	---	8.9	6.1	7.2	7.0	5.0	5.8	---	---	---
5	---	---	---	7.2	6.1	6.5	7.4	5.1	6.1	---	---	---
6	9.9	5.7	7.3	7.2	6.1	6.7	7.6	5.2	6.2	---	---	---
7	9.8	5.4	7.4	7.9	6.0	6.9	8.2	5.2	6.6	7.4	5.9	6.5
8	8.7	5.8	7.0	---	---	---	8.7	5.5	6.7	8.0	6.0	6.7
9	10.2	6.0	7.8	---	---	---	7.8	4.8	6.3	6.9	6.0	6.2
10	11.6	6.1	8.0	---	---	---	8.5	5.1	6.6	6.9	5.9	6.3
11	10.7	6.0	8.1	---	---	---	8.0	4.8	6.2	7.2	5.8	6.3
12	10.7	6.1	7.9	10.4	5.8	7.6	7.9	4.8	6.2	7.6	5.8	6.6
13	10.1	5.0	7.1	9.6	5.8	7.2	7.7	5.5	6.2	7.9	5.8	6.6
14	6.7	5.8	6.3	9.8	6.3	7.8	6.8	5.6	6.1	8.1	5.7	6.5
15	7.0	5.8	6.4	11.3	6.4	8.2	7.2	5.6	6.3	8.2	5.8	6.6
16	7.7	6.1	6.8	11.8	6.1	8.3	8.1	5.7	6.5	8.5	6.2	6.9
17	---	---	---	11.0	5.7	7.6	8.3	5.5	6.5	8.2	6.1	6.8
18	---	---	---	10.9	5.7	7.5	7.1	3.5	6.0	8.1	6.1	6.7
19	---	---	---	9.5	5.5	6.9	6.5	5.3	5.9	8.2	5.9	6.8
20	10.4	5.7	7.7	8.1	5.2	6.4	6.8	5.6	6.2	6.9	6.0	6.3
21	10.8	5.9	7.6	9.5	5.1	6.6	7.6	5.6	6.4	7.0	5.7	6.4
22	11.0	5.2	7.4	9.9	5.3	6.8	8.5	5.4	6.5	7.6	6.1	6.7
23	6.8	5.0	6.2	8.7	5.3	6.6	8.5	5.3	6.4	8.0	6.1	6.8
24	7.8	5.9	6.7	8.5	4.9	6.0	8.2	5.0	6.3	---	---	---
25	8.7	6.1	7.1	6.5	5.4	6.0	8.9	5.5	6.7	---	---	---
26	8.7	5.4	6.5	6.9	5.8	6.2	9.2	5.6	6.7	---	---	---
27	7.3	5.8	6.5	6.9	5.8	6.3	8.4	5.5	6.7	6.6	5.8	6.3
28	8.0	5.4	6.7	7.4	6.0	6.6	8.7	5.6	6.8	7.7	5.8	6.6
29	6.9	5.4	6.2	7.5	5.8	6.5	8.4	5.8	6.8	8.2	6.7	7.1
30	7.0	5.6	6.2	7.5	5.7	6.4	8.1	5.4	6.4	8.5	6.7	7.2
31	---	---	---	8.7	5.7	6.7	8.1	5.1	6.3	---	---	---
MONTH	---	---	---	---	---	---	9.2	3.5	6.4	---	---	---

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	115	74	90
2	---	---	---	---	---	---	---	---	---	119	72	91
3	---	---	---	---	---	---	95	80	86	127	72	92
4	---	---	---	---	---	---	98	78	87	120	71	90
5	---	---	---	---	---	---	101	78	87	124	71	90
6	---	---	---	---	---	---	105	75	87	115	70	90
7	---	---	---	---	---	---	112	71	87	122	73	93
8	---	---	---	---	---	---	122	68	88	114	73	90
9	---	---	---	---	---	---	122	61	84	116	74	91
10	---	---	---	---	---	---	116	52	77	119	74	92
11	---	---	---	---	---	---	108	47	70	126	73	93
12	---	---	---	---	---	---	99	43	68	119	72	91
13	---	---	---	---	---	---	---	---	---	131	72	93
14	---	---	---	---	---	---	---	---	---	125	70	94
15	---	---	---	---	---	---	---	---	---	130	73	95
16	---	---	---	---	---	---	---	---	---	132	71	95
17	---	---	---	---	---	---	---	---	---	126	67	90
18	---	---	---	---	---	---	104	75	87	132	72	96
19	---	---	---	---	---	---	109	75	89	143	70	96
20	---	---	---	---	---	---	114	77	91	133	68	94
21	---	---	---	90	76	82	126	75	93	79	56	67
22	---	---	---	89	71	81	130	73	94	81	57	68
23	---	---	---	89	71	78	127	72	95	87	66	76
24	---	---	---	86	67	77	128	66	94	95	57	79
25	---	---	---	87	65	73	79	62	73	79	63	73
26	---	---	---	82	62	70	91	75	81	79	60	70
27	---	---	---	84	60	70	98	72	83	90	69	79
28	---	---	---	87	59	69	102	71	83	81	74	78
29	---	---	---	---	---	---	105	71	86	89	80	84
30	---	---	---	---	---	---	113	73	89	100	79	89
31	---	---	---	---	---	---	---	---	---	103	80	91
MONTH	---	---	---	---	---	---	---	---	---	143	56	87

## SANTEE RIVER BASIN

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN									
1	94	76	84	106	69	83	112	72	88	91	64	76
2	86	72	78	128	70	92	118	71	85	98	70	81
3	---	---	---	106	74	87	106	69	83	---	---	---
4	---	---	---	118	77	93	92	64	76	---	---	---
5	---	---	---	93	77	82	99	65	79	---	---	---
6	130	70	92	96	77	86	102	66	82	---	---	---
7	126	68	94	104	76	89	112	67	87	99	74	85
8	108	71	87	---	---	---	121	73	90	106	76	87
9	129	72	97	---	---	---	107	63	85	86	76	79
10	150	74	101	---	---	---	117	67	89	91	75	82
11	138	74	103	---	---	---	111	63	83	95	75	83
12	140	75	100	141	74	100	107	63	83	101	74	85
13	131	62	90	125	74	93	103	70	81	105	73	85
14	87	72	79	130	79	101	92	72	81	106	72	84
15	92	72	82	148	82	106	98	73	83	106	71	83
16	101	77	88	159	78	108	111	73	87	108	76	86
17	---	---	---	146	72	100	114	73	87	104	76	86
18	---	---	---	147	74	99	96	45	80	104	74	85
19	---	---	---	128	71	90	87	68	76	107	72	87
20	139	72	100	109	68	84	92	72	81	84	73	78
21	145	75	99	127	66	86	103	71	84	92	70	81
22	148	65	96	135	68	89	114	68	85	100	77	86
23	89	61	79	116	68	85	115	67	86	106	77	88
24	102	74	86	113	64	78	110	65	84	---	---	---
25	115	76	91	85	69	77	120	72	88	---	---	---
26	113	68	83	90	72	79	124	72	89	---	---	---
27	96	72	84	89	73	81	115	71	89	84	71	77
28	107	68	86	95	76	84	118	73	91	97	70	81
29	92	68	80	97	74	83	114	76	91	101	79	87
30	95	72	81	99	72	83	110	71	85	105	79	87
31	---	---	---	116	72	88	109	65	84	---	---	---
MONTH	---	---	---	---	---	---	124	45	85	---	---	---



Gaging station at Briar Creek near Charlotte, North Carolina.

## SANTEE RIVER BASIN

02146530 LITTLE SUGAR CREEK AT HIGHWAY 51 AT PINEVILLE, NC

LOCATION.--Lat 35°05'06", long 80°52'58", Mecklenburg County, Hydrologic Unit 03050103, on left bank on upstream side of bridge on State Highway 51, 0.5 mi east of intersection of State Highway 51 and U.S. Highway 521 at Pineville.,

DRAINAGE AREA.--49.2 mi<sup>2</sup>.

PERIOD OF RECORD.--Occasional discharge measurements, water years 1966-97. June 1997 to current year.

GAGE.--Water-stage recorder. Datum of gage is 531.94 ft above sea level, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. A daily average of 21.1 ft<sup>3</sup>/s of treated effluent from Little Sugar Creek wastewater treatment plant was discharged into the stream 5.2 mi upstream from the gage. Maximum gage height for period of record from floodmarks. Maximum discharge for period of record from rating curve extended above 10,100 ft<sup>3</sup>/s. Minimum discharge for period of record also occurred Nov. 13, 1998.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	31	39	e34	36	38	75	34	244	31	30	54
2	33	33	38	e34	36	36	56	34	77	31	30	30
3	32	33	37	e34	35	73	62	30	39	55	31	385
4	31	34	38	e34	35	404	53	30	40	193	31	401
5	28	39	39	e34	35	85	46	32	39	315	30	60
6	27	34	39	e34	34	49	44	32	39	41	30	42
7	52	37	39	43	34	46	44	32	34	35	30	39
8	33	38	39	102	34	41	42	33	42	38	30	38
9	32	70	38	48	34	40	41	33	37	39	32	74
10	32	78	38	37	44	38	41	32	32	34	29	42
11	32	34	38	37	36	37	40	32	31	32	34	37
12	32	32	40	90	53	46	40	31	31	32	40	34
13	33	32	40	66	48	99	109	31	186	37	111	34
14	33	107	57	37	93	39	48	31	249	34	43	34
15	32	44	47	38	39	326	41	31	42	30	31	31
16	33	40	106	37	38	79	42	32	37	28	29	30
17	40	88	201	36	386	49	37	31	35	30	44	32
18	37	41	53	37	58	43	38	32	35	30	50	30
19	33	142	50	171	45	41	37	32	34	45	88	29
20	33	79	53	187	42	349	37	31	33	40	32	108
21	33	45	44	66	39	604	36	117	33	28	30	35
22	32	37	45	44	180	87	35	142	104	28	29	30
23	33	34	42	40	55	57	35	77	112	33	29	29
24	32	36	40	39	42	50	37	41	35	162	30	875
25	35	301	40	38	125	46	237	107	33	122	30	73
26	33	84	38	37	57	43	47	218	96	67	28	35
27	33	46	e38	37	41	40	37	39	50	35	28	33
28	33	41	e36	36	40	39	35	134	89	31	28	31
29	33	40	e36	37	---	999	34	113	76	42	29	30
30	32	40	e36	58	---	324	34	48	34	39	29	29
31	32	---	e36	41	---	87	---	38	---	33	31	---
TOTAL	1031	1770	1500	1643	1774	4334	1540	1710	1998	1770	1126	2764
MEAN	33.3	59.0	48.4	53.0	63.4	140	51.3	55.2	66.6	57.1	36.3	92.1
MAX	52	301	201	187	386	999	237	218	249	315	111	875
MIN	27	31	36	34	34	36	34	30	31	28	28	29
CFSM	.68	1.20	.98	1.08	1.29	2.84	1.04	1.12	1.35	1.16	.74	1.87
IN.	.78	1.34	1.13	1.24	1.34	3.28	1.16	1.29	1.51	1.34	.85	2.09

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

	1997	1998	1999	2000	2001
MEAN	69.4	62.4	74.5	137	105
MAX	115	95.0	130	236	167
(WY)	2000	1998	1998	1998	2001
MIN	33.3	44.4	46.9	53.0	63.4
(WY)	2001	1999	2000	2001	2001

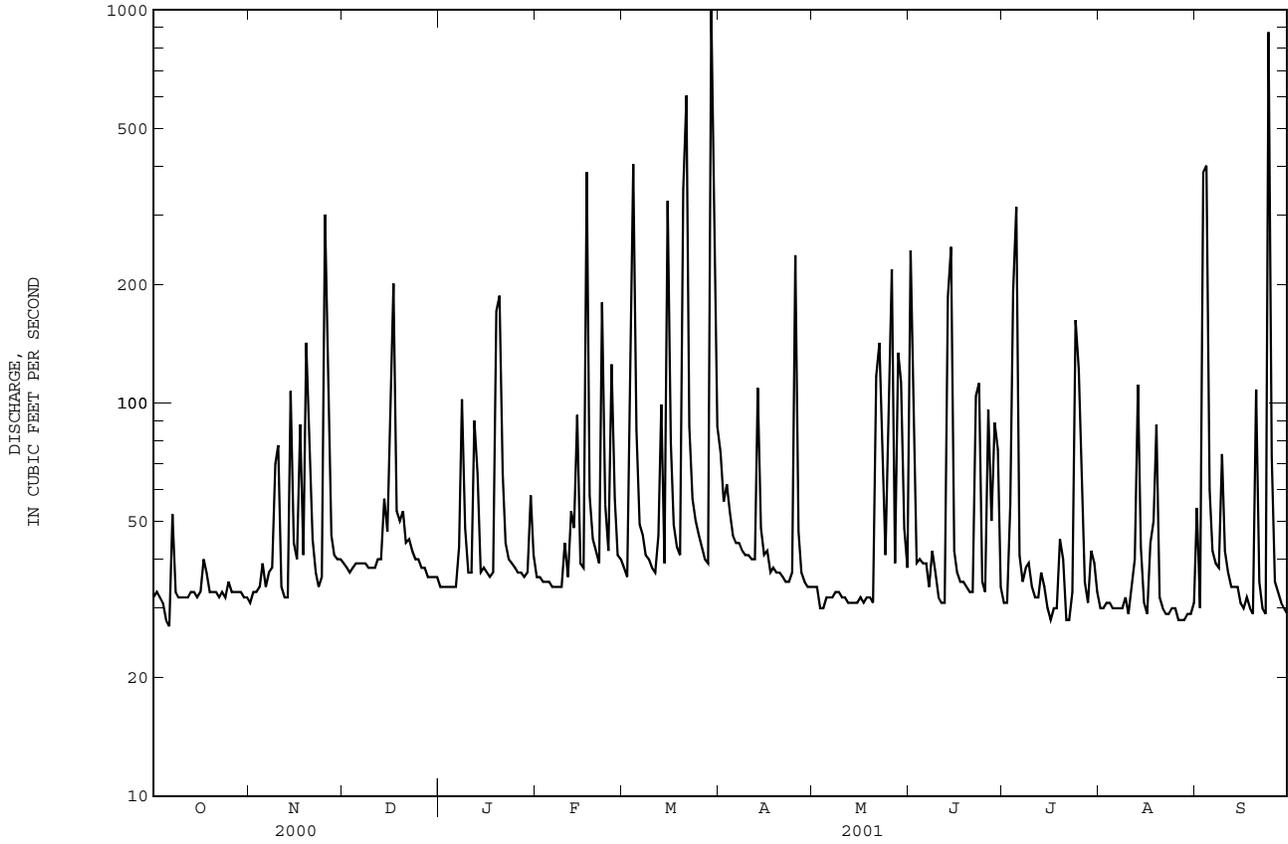
## SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1997 - 2001

ANNUAL TOTAL	28283	22960	
ANNUAL MEAN	77.3	62.9	84.9
HIGHEST ANNUAL MEAN			123
LOWEST ANNUAL MEAN			62.9
HIGHEST DAILY MEAN	1370	Sep 23	999
LOWEST DAILY MEAN	27	Jun 25	27
ANNUAL SEVEN-DAY MINIMUM	29	Jun 20	29
MAXIMUM PEAK FLOW			3200
MAXIMUM PEAK STAGE			13.11
INSTANTANEOUS LOW FLOW			20
ANNUAL RUNOFF (CFSM)	1.57	1.28	1.73
ANNUAL RUNOFF (INCHES)	21.38	17.36	23.46
10 PERCENT EXCEEDS	163	106	163
50 PERCENT EXCEEDS	40	38	40
90 PERCENT EXCEEDS	31	31	30

e Estimated.

\* See REMARKS.

02146530 LITTLE SUGAR CREEK AT HIGHWAY 51 AT PINEVILLE, NC--Continued



## SANTEE RIVER BASIN

0214655255 MCALPINE CREEK AT STATE ROAD 3150 NEAR IDLEWILD, NC

LOCATION.--Lat 35°10'33", long 80°43'12", Mecklenburg County, Hydrologic Unit 03050103, on left bank at upstream side of culvert on State Road 3150 (Idlewild Road), 1.5 mi above Irvins Creek, and 1.6 mi southeast of Idlewild.

DRAINAGE AREA.--7.52 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 613.19 ft above sea level, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period June to Sept. 1999 also occurred Aug. 20. Minimum discharge for 2000 water year also occurred June 25, 26. Minimum discharge for period of record also occurred June 25, 26, 2000 and Aug. 30, 2001.

DISCHARGE, CUBIC FEET PER SECOND, FOR PERIOD JUNE TO SEPTEMBER 1999  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	1.1	2.0	4.4	.49
2	---	---	---	---	---	---	---	---	.88	1.3	2.7	.40
3	---	---	---	---	---	---	---	---	.68	.96	2.0	.27
4	---	---	---	---	---	---	---	---	.53	.71	1.6	.68
5	---	---	---	---	---	---	---	---	.46	.54	1.3	12
6	---	---	---	---	---	---	---	---	.41	8.2	1.3	6.4
7	---	---	---	---	---	---	---	---	.33	26	1.1	2.9
8	---	---	---	---	---	---	---	---	.28	8.6	.93	1.8
9	---	---	---	---	---	---	---	---	.31	3.7	1.8	1.4
10	---	---	---	---	---	---	---	---	3.4	2.2	.80	1.8
11	---	---	---	---	---	---	---	---	4.9	2.1	.58	.99
12	---	---	---	---	---	---	---	---	2.0	9.9	.42	.79
13	---	---	---	---	---	---	---	---	1.4	14	.37	.71
14	---	---	---	---	---	---	---	---	1.0	4.4	.18	.38
15	---	---	---	---	---	---	---	---	6.1	2.9	.13	7.9
16	---	---	---	---	---	---	---	---	15	2.3	.11	11
17	---	---	---	---	---	---	---	---	8.4	2.9	.11	3.0
18	---	---	---	---	---	---	---	---	3.5	1.8	.08	2.0
19	---	---	---	---	---	---	---	---	2.5	1.4	.06	1.4
20	---	---	---	---	---	---	---	---	2.6	1.0	1.3	1.1
21	---	---	---	---	---	---	---	---	2.2	.69	2.4	1.2
22	---	---	---	---	---	---	---	---	1.4	.59	.32	4.5
23	---	---	---	---	---	---	---	---	1.5	.53	.11	1.3
24	---	---	---	---	---	---	---	---	1.2	1.6	.09	.84
25	---	---	---	---	---	---	---	---	4.2	1.7	5.8	.63
26	---	---	---	---	---	---	---	---	2.6	.64	11	.54
27	---	---	---	---	---	---	---	---	2.0	.39	2.4	4.7
28	---	---	---	---	---	---	---	---	1.5	.32	1.5	6.4
29	---	---	---	---	---	---	---	---	3.0	1.7	1.1	58
30	---	---	---	---	---	---	---	---	3.2	1.7	.68	16
31	---	---	---	---	---	---	---	---	---	11	.55	---
TOTAL	---	---	---	---	---	---	---	---	78.58	117.77	47.22	151.52
MEAN	---	---	---	---	---	---	---	---	2.62	3.80	1.52	5.05
MAX	---	---	---	---	---	---	---	---	15	26	11	58
MIN	---	---	---	---	---	---	---	---	.28	.32	.06	.27
CFSM	---	---	---	---	---	---	---	---	.35	.51	.20	.67
IN.	---	---	---	---	---	---	---	---	.39	.58	.23	.75

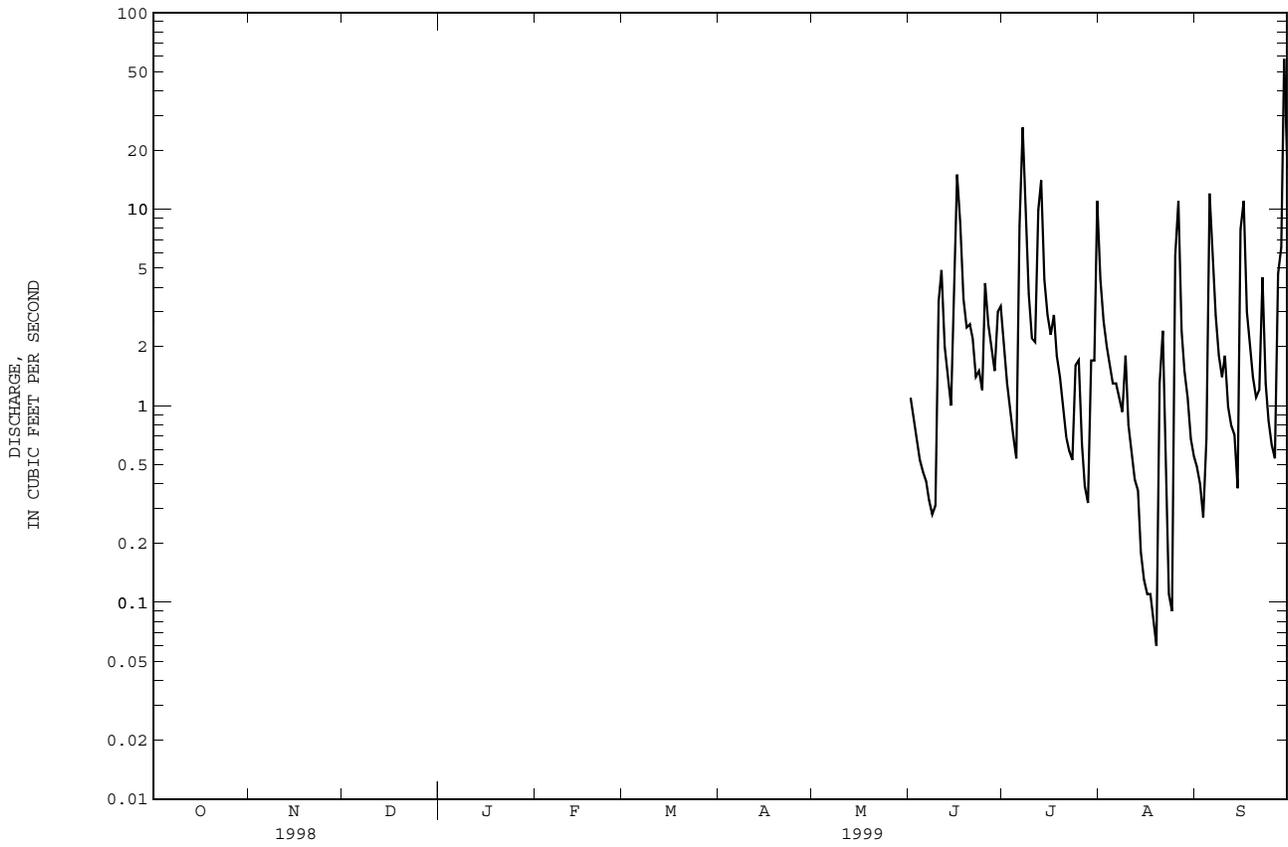
## SUMMARY STATISTICS

## FOR PERIOD JUNE TO SEPTEMBER 1999

MAXIMUM PEAK FLOW 184 Sep 29  
 MAXIMUM PEAK STAGE 3.72 Sep 29  
 INSTANTANEOUS LOW FLOW .05\* Aug 19

\* See REMARKS.

0214655255 MCALPINE CREEK AT STATE ROAD 3150 NEAR IDLEWILD, NC--Continued



## SANTEE RIVER BASIN

0214655255 MCALPINE CREEK AT STATE ROAD 3150 NEAR IDLEWILD, NC--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	.99	1.2	1.1	19	2.3	1.9	2.0	.25	1.2	16	4.6
2	2.3	15	1.0	1.1	13	2.1	3.3	7.4	.19	2.6	8.9	13
3	1.9	3.3	.94	1.2	12	1.9	4.1	6.0	.12	.40	4.1	5.1
4	2.5	1.9	.94	2.2	11	6.4	3.3	2.6	2.5	.10	16	9.2
5	2.5	1.7	1.1	2.4	7.2	3.8	1.9	2.0	11	.07	3.4	2.3
6	1.7	1.5	1.4	1.4	5.3	2.6	1.7	1.7	1.8	.16	1.8	.89
7	1.5	1.1	1.2	1.2	4.3	2.2	1.6	1.5	.94	.27	1.1	.49
8	1.4	.95	.94	.98	3.6	2.2	26	1.4	.72	.12	.50	.19
9	1.4	.93	.94	3.3	3.5	2.1	10	1.3	.57	6.4	.25	.14
10	57	1.2	3.6	38	3.2	1.9	4.5	1.4	.41	.26	10	.12
11	e122	5.3	1.8	7.6	3.2	3.2	3.1	1.3	.38	4.8	1.8	.08
12	7.6	2.9	1.4	3.1	64	3.2	2.6	1.1	.31	e35	.63	.07
13	18	1.8	2.1	2.4	16	1.8	32	1.0	.24	8.9	.24	.06
14	5.1	2.2	22	2.1	e100	1.7	17	1.3	.18	10	.08	.06
15	2.3	1.8	4.4	1.6	13	1.6	66	.64	.31	21	.06	.08
16	1.7	1.5	2.5	1.5	6.7	6.4	23	.54	.11	3.3	.05	.04
17	1.5	1.4	1.7	1.4	4.7	3.9	8.6	.54	.08	1.5	.05	.04
18	1.3	1.2	1.4	2.2	15	2.3	5.5	.50	.05	.82	.51	8.8
19	.95	1.2	1.7	1.8	6.9	1.9	4.1	.43	.02	4.5	1.0	9.7
20	16	1.3	3.1	5.8	4.4	62	3.4	.41	.02	6.0	.04	2.0
21	9.0	1.4	6.9	2.5	3.6	12	2.9	.51	.02	1.6	.03	1.3
22	3.2	1.7	4.8	1.8	3.0	4.8	2.5	2.2	.02	.66	.03	19
23	2.2	1.6	2.6	18	2.7	3.1	2.3	.51	.02	.37	.02	e105
24	1.1	1.6	2.0	11	2.6	3.1	5.0	.86	.01	8.6	.18	7.3
25	.62	1.6	1.5	23	2.6	2.4	15	.60	.01	3.2	1.4	22
26	.62	16	1.2	12	2.4	1.9	6.1	.75	.01	1.9	.03	10
27	.72	5.7	1.2	5.5	5.5	9.6	3.1	.37	.02	1.1	.02	2.8
28	.72	2.3	1.2	3.5	4.9	6.1	5.9	.36	1.8	.56	.02	1.6
29	.72	1.6	1.1	3.5	2.7	2.8	3.8	.44	7.1	.27	.02	.99
30	.76	1.3	.94	e87	---	2.5	2.6	.29	2.2	.15	.02	.75
31	.92	---	1.1	35	---	2.2	---	.31	---	.09	.72	---
TOTAL	273.23	83.97	79.90	285.18	346.0	166.0	272.8	42.26	31.41	125.90	69.00	227.70
MEAN	8.81	2.80	2.58	9.20	11.9	5.35	9.09	1.36	1.05	4.06	2.23	7.59
MAX	122	16	22	87	100	62	66	7.4	11	35	16	105
MIN	.62	.93	.94	.98	2.4	1.6	1.6	.29	.01	.07	.02	.04
CFSM	1.17	.37	.34	1.22	1.59	.71	1.21	.18	.14	.54	.30	1.01
IN.	1.35	.42	.40	1.41	1.71	.82	1.35	.21	.16	.62	.34	1.13

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	8.81	2.80	2.58	9.20	11.9	5.35	9.09	1.36	1.83	3.93	1.87	6.32
MAX	8.81	2.80	2.58	9.20	11.9	5.35	9.09	1.36	2.62	4.06	2.23	7.59
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	1999	2000	2000	2000
MIN	8.81	2.80	2.58	9.20	11.9	5.35	9.09	1.36	1.05	3.80	1.52	5.05
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	1999	1999	1999

## SUMMARY STATISTICS

## FOR 2000 WATER YEAR

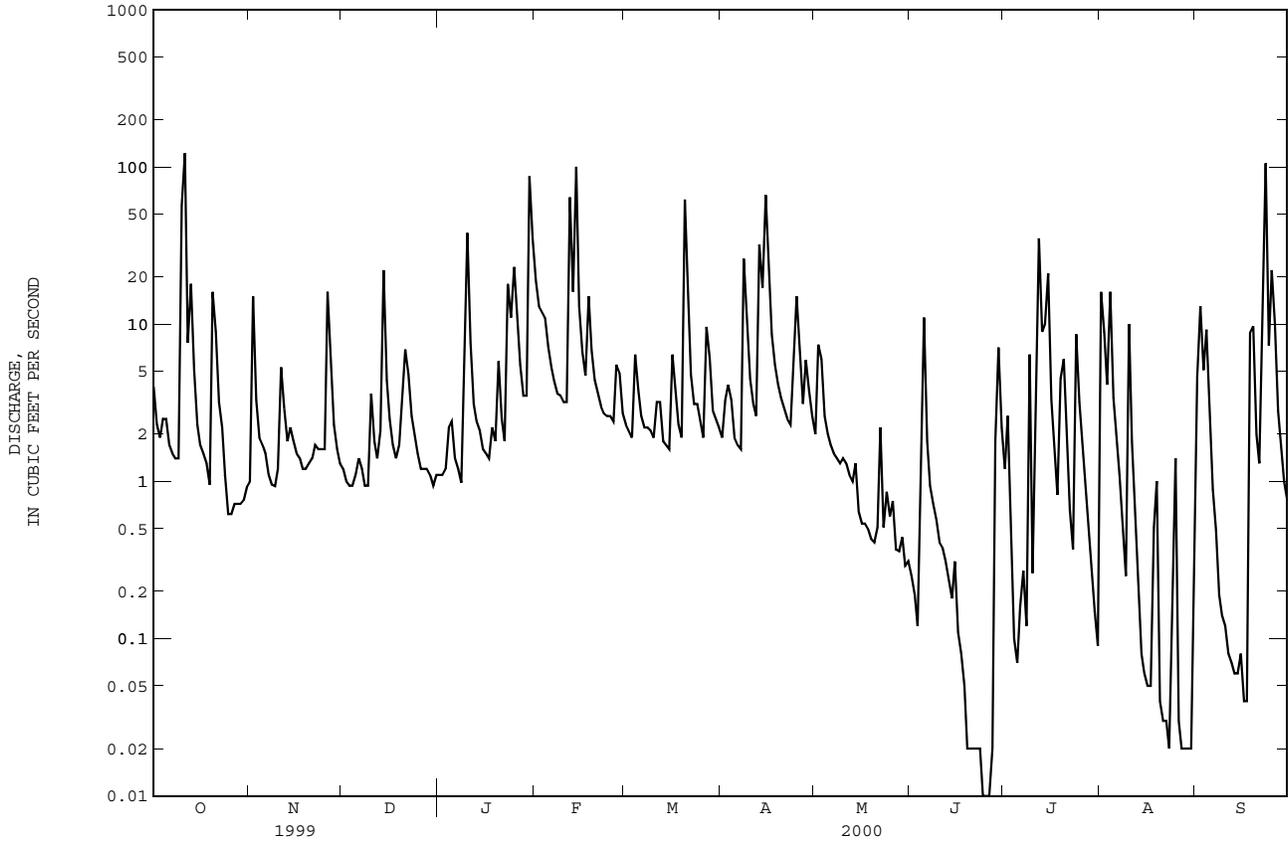
## WATER YEARS 1999 - 2000

ANNUAL TOTAL	2003.35		
ANNUAL MEAN	5.47		5.47
HIGHEST ANNUAL MEAN			5.47
LOWEST ANNUAL MEAN			5.47
HIGHEST DAILY MEAN	e122	Oct 11	e122
LOWEST DAILY MEAN	.01	Jun 24	.01
ANNUAL SEVEN-DAY MINIMUM	.02	Jun 20	.02
MAXIMUM PEAK FLOW	NOT DETERMINED		NOT DETERMINED
MAXIMUM PEAK STAGE	5.22	Oct 11	5.22
INSTANTANEOUS LOW FLOW	.01*	Jun 24	.01*
ANNUAL RUNOFF (CFSM)	.73		.73
ANNUAL RUNOFF (INCHES)	9.91		9.89
10 PERCENT EXCEEDS	12		11
50 PERCENT EXCEEDS	1.8		1.8
90 PERCENT EXCEEDS	.12		.18

e Estimated.

\* See REMARKS.

0214655255 MCALPINE CREEK AT STATE ROAD 3150 NEAR IDLEWILD, NC--Continued



SANTEE RIVER BASIN

0214655255 MCALPINE CREEK AT STATE ROAD 3150 NEAR IDLEWILD, NC--Continued  
 DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.62	.19	1.2	.86	1.8	2.7	7.9	1.3	22	.86	.85	1.6
2	2.0	.19	1.3	.91	1.6	2.6	5.6	1.1	7.6	.75	.64	1.6
3	1.4	.20	1.5	.78	1.5	12	5.2	.94	2.8	1.6	.44	14
4	.45	.39	1.3	.78	1.4	54	4.2	.81	1.7	7.7	.36	18
5	.27	.94	1.3	.99	1.4	21	3.4	.88	1.3	12	.29	4.1
6	.27	.96	1.3	.75	1.4	14	3.1	.83	.89	2.5	.16	1.8
7	.31	.82	1.4	.73	1.3	11	2.9	.62	.89	1.4	.15	.96
8	.34	1.1	1.4	2.9	1.3	9.2	2.9	.55	1.4	1.9	.07	.56
9	.38	2.6	1.3	2.0	1.4	8.6	2.7	.61	1.3	1.9	.05	1.7
10	.45	4.5	1.5	1.1	2.1	7.9	2.5	.55	.90	1.2	.82	.95
11	.57	1.5	1.5	.91	1.6	7.5	2.4	.55	.73	.84	.98	.45
12	.36	.92	1.7	7.2	3.7	11	2.3	.53	.70	.62	.11	.36
13	.32	.78	1.6	5.5	3.3	16	4.6	.34	15	.99	3.6	.07
14	.31	5.5	2.2	2.9	5.9	10	3.4	.27	13	.76	1.1	.06
15	.31	2.2	2.1	2.3	2.9	35	2.6	.23	3.3	.58	.14	.05
16	.31	1.3	4.8	1.8	2.3	19	2.3	.20	2.0	.41	.05	.04
17	.30	4.3	7.5	1.4	26	e12	1.8	.35	1.4	.33	1.2	.03
18	.32	2.2	2.8	e2.0	6.5	e9.0	1.5	.40	.95	.31	4.6	.03
19	.28	8.9	1.9	12	4.0	24	1.5	7.7	.82	.32	.93	.03
20	.27	6.1	2.2	16	3.1	58	1.5	4.9	.72	.20	.79	5.2
21	.24	3.1	1.3	5.8	2.8	71	1.4	1.8	.89	.15	.50	1.7
22	.32	1.7	1.5	3.3	11	17	1.4	8.6	13	.08	.28	.36
23	.86	1.3	.93	2.4	5.9	10	1.3	5.6	8.2	.32	.12	.11
24	.45	1.2	.76	2.1	3.6	7.4	1.6	2.7	2.4	3.5	.18	25
25	.41	21	.78	2.0	6.6	5.7	16	3.2	1.4	6.1	.23	5.6
26	.33	8.2	.71	1.8	5.5	5.4	4.2	11	1.3	5.9	.03	1.8
27	.36	3.5	.94	1.8	3.6	4.9	2.4	2.9	1.3	2.4	.02	1.2
28	.39	2.4	1.3	1.7	3.0	5.0	1.8	7.2	.92	1.6	.02	.55
29	.30	1.9	1.0	1.6	---	76	1.5	7.0	.79	1.4	.01	.33
30	.17	1.6	.91	3.1	---	31	1.4	2.8	.83	1.8	.01	.23
31	.14	---	.83	2.3	---	8.4	---	1.6	---	1.1	.73	---
TOTAL	13.81	91.49	52.76	91.71	116.5	586.3	97.3	78.06	110.43	61.52	19.46	88.47
MEAN	.45	3.05	1.70	2.96	4.16	18.9	3.24	2.52	3.68	1.98	.63	2.95
MAX	2.0	21	7.5	16	26	76	16	11	22	12	4.6	25
MIN	.14	.19	.71	.73	1.3	2.6	1.3	.20	.70	.08	.01	.03
CFSM	.06	.41	.23	.39	.55	2.52	.43	.33	.49	.26	.08	.39
IN.	.07	.45	.26	.45	.58	2.90	.48	.39	.55	.30	.10	.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

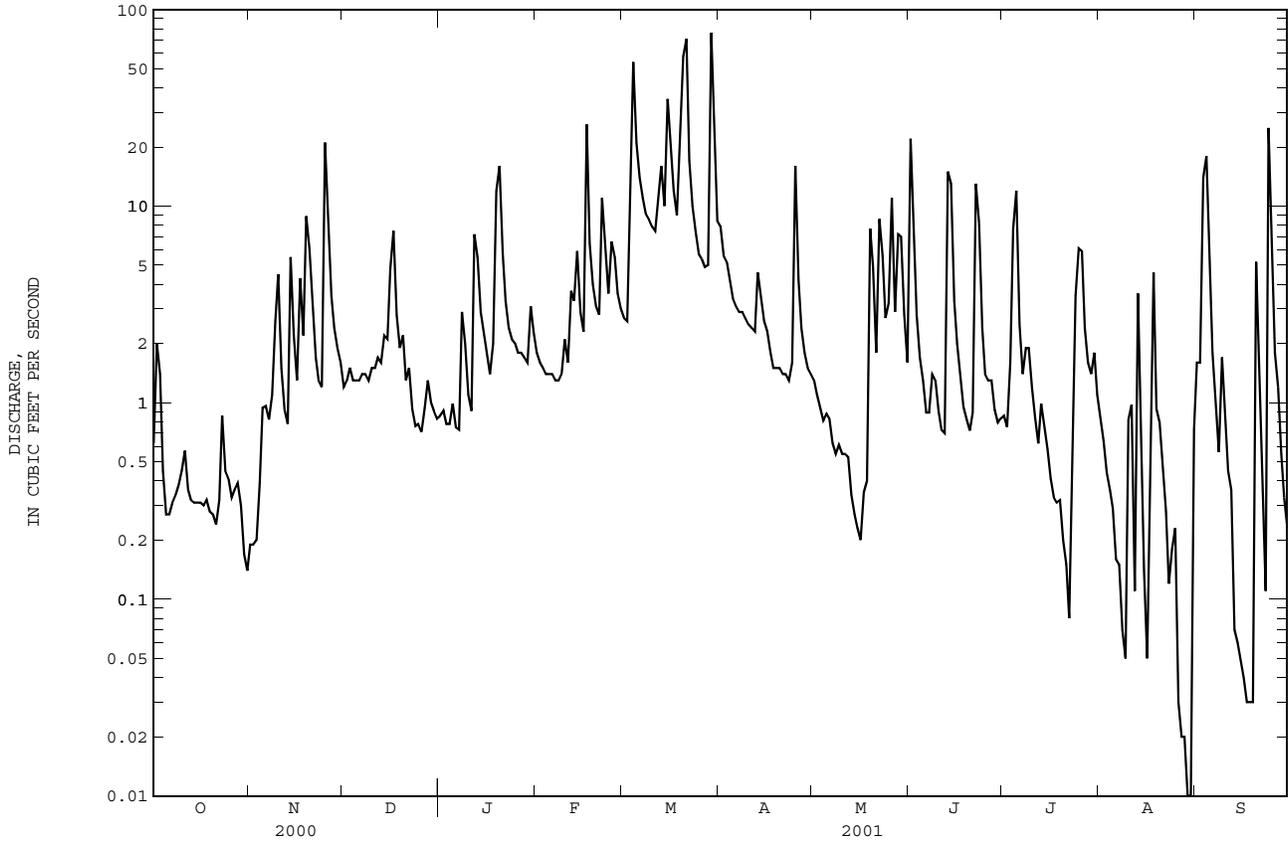
	1999	2000	2001	1999	2000	2001	1999	2000	2001	1999	2000	2001
MEAN	4.63	2.92	2.14	6.08	8.11	12.1	6.17	1.94	2.45	3.28	1.46	5.20
MAX	8.81	3.05	2.58	9.20	11.9	18.9	9.09	2.52	3.68	4.06	2.23	7.59
(WY)	2000	2001	2000	2000	2000	2001	2000	2001	2001	2000	2000	2000
MIN	.45	2.80	1.70	2.96	4.16	5.35	3.24	1.36	1.05	1.98	.63	2.95
(WY)	2001	2000	2001	2001	2001	2000	2001	2000	2000	2001	2001	2001

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1999 - 2001

ANNUAL TOTAL	1724.31	1407.81	
ANNUAL MEAN	4.71	3.86	4.67
HIGHEST ANNUAL MEAN			5.47 2000
LOWEST ANNUAL MEAN			3.86 2001
HIGHEST DAILY MEAN	105	76	122 Oct 11 1999
LOWEST DAILY MEAN	.01	.01	Jun 24 2000
ANNUAL SEVEN-DAY MINIMUM	.02	.04	Jun 20 2000
MAXIMUM PEAK FLOW		259	NOT DETERMINED
MAXIMUM PEAK STAGE		4.25	5.22 Oct 11 1999
INSTANTANEOUS LOW FLOW		.01	.01* Jun 24 2000
ANNUAL RUNOFF (CFSM)	.63	.51	.62
ANNUAL RUNOFF (INCHES)	8.53	6.96	8.43
10 PERCENT EXCEEDS	10	8.7	10
50 PERCENT EXCEEDS	1.6	1.4	1.6
90 PERCENT EXCEEDS	.12	.27	.23

e Estimated.  
 \* See REMARKS.

0214655255 MCALPINE CREEK AT STATE ROAD 3150 NEAR IDLEWILD, NC--Continued



## SANTEE RIVER BASIN

02146562 CAMPBELL CREEK NEAR CHARLOTTE, NC

LOCATION.--Lat 35°11'11", long 80°44'12", Mecklenburg County, Hydrologic Unit 03050103, on right bank upstream side culvert on Secondary Road 3150, 2.3 mi upstream from mouth, and 6.0 mi east of Charlotte.

DRAINAGE AREA.--5.6 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 663.92 ft above sea level, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period July 1999 to Sept. 1999 also occurred on Sept. 4.

DISCHARGE, CUBIC FEET PER SECOND, FOR PERIOD JULY TO SEPTEMBER 1999  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	.74	3.2	.22
2	---	---	---	---	---	---	---	---	---	.54	1.2	.24
3	---	---	---	---	---	---	---	---	---	.46	.61	.22
4	---	---	---	---	---	---	---	---	---	.42	.56	.29
5	---	---	---	---	---	---	---	---	---	.37	.69	16
6	---	---	---	---	---	---	---	---	---	50	.54	2.4
7	---	---	---	---	---	---	---	---	---	19	.50	.72
8	---	---	---	---	---	---	---	---	---	3.0	.57	.46
9	---	---	---	---	---	---	---	---	---	1.2	1.7	.50
10	---	---	---	---	---	---	---	---	---	.77	.52	.57
11	---	---	---	---	---	---	---	---	---	2.3	.50	.28
12	---	---	---	---	---	---	---	---	---	10	.42	.25
13	---	---	---	---	---	---	---	---	---	9.7	.33	.26
14	---	---	---	---	---	---	---	---	---	2.1	.38	.29
15	---	---	---	---	---	---	---	---	---	1.3	.32	12
16	---	---	---	---	---	---	---	---	---	1.1	.36	7.1
17	---	---	---	---	---	---	---	---	---	3.5	.34	.64
18	---	---	---	---	---	---	---	---	---	.97	.31	.35
19	---	---	---	---	---	---	---	---	---	.89	.31	.29
20	---	---	---	---	---	---	---	---	---	.82	4.2	.44
21	---	---	---	---	---	---	---	---	---	.84	1.4	3.0
22	---	---	---	---	---	---	---	---	---	.77	.36	3.0
23	---	---	---	---	---	---	---	---	---	.77	.29	.39
24	---	---	---	---	---	---	---	---	---	6.1	1.4	.28
25	---	---	---	---	---	---	---	---	---	2.2	5.4	.24
26	---	---	---	---	---	---	---	---	---	.92	13	.22
27	---	---	---	---	---	---	---	---	---	.69	.74	6.2
28	---	---	---	---	---	---	---	---	---	.67	.43	16
29	---	---	---	---	---	---	---	---	---	5.8	.33	78
30	---	---	---	---	---	---	---	---	---	1.5	.27	6.2
31	---	---	---	---	---	---	---	---	---	5.5	.24	---
TOTAL	---	---	---	---	---	---	---	---	---	134.94	41.42	157.05
MEAN	---	---	---	---	---	---	---	---	---	4.35	1.34	5.24
MAX	---	---	---	---	---	---	---	---	---	50	13	78
MIN	---	---	---	---	---	---	---	---	---	.37	.24	.22
CFSM	---	---	---	---	---	---	---	---	---	.78	.24	.93
IN.	---	---	---	---	---	---	---	---	---	.90	.28	1.04

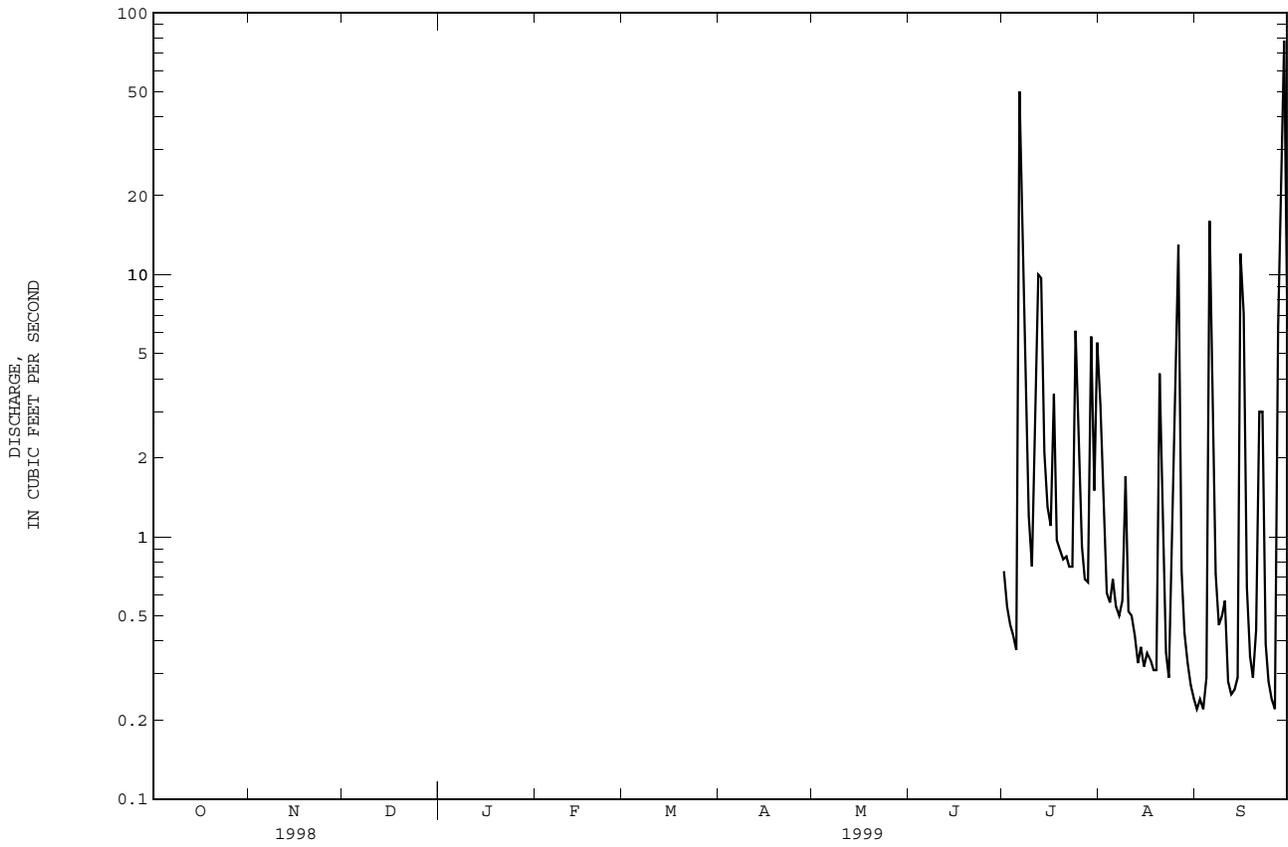
## SUMMARY STATISTICS

FOR PERIOD JULY TO SEPTEMBER 1999

MAXIMUM PEAK FLOW	404	Sep 29
MAXIMUM PEAK STAGE	3.99	Sep 29
INSTANTANEOUS LOW FLOW	.17*	Sep 2

\* See REMARKS.

02146562 CAMPBELL CREEK NEAR CHARLOTTE, NC--Continued



## SANTEE RIVER BASIN

02146562 CAMPBELL CREEK NEAR CHARLOTTE, NC--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.1	1.1	1.1	8.3	2.6	1.8	1.6	.78	.64	42	1.2
2	1.3	18	1.1	1.1	6.1	2.4	4.1	37	.72	.50	12	54
3	.76	1.8	1.2	1.2	5.0	2.2	5.0	25	.67	.44	31	7.4
4	2.2	1.2	1.2	4.5	4.4	6.9	2.3	3.0	5.1	.35	33	4.1
5	.94	1.1	1.2	1.8	3.2	3.1	1.9	1.8	11	.35	3.1	2.4
6	.63	1.1	1.7	1.8	2.5	2.5	1.7	1.5	1.4	.44	1.4	1.0
7	.55	1.1	1.3	1.4	2.2	2.2	1.7	1.3	.93	3.3	1.2	.80
8	.51	1.2	1.1	1.1	2.0	2.2	37	1.3	.78	.58	.95	.69
9	.48	1.2	1.1	5.5	2.0	2.1	5.2	1.2	.74	1.5	.91	.66
10	100	1.3	5.2	46	1.8	2.0	2.3	2.7	.81	.39	29	.62
11	146	6.9	1.4	4.4	2.1	4.2	1.8	1.4	.62	9.5	2.2	.58
12	4.7	2.0	1.0	2.1	53	3.1	1.6	1.1	.57	81	1.2	e.61
13	17	1.1	3.0	1.7	7.2	2.0	45	1.9	.57	5.9	.94	e.60
14	3.4	1.1	20	1.3	87	1.9	12	1.9	1.4	25	.86	.59
15	1.7	1.2	2.4	1.2	7.2	1.9	45	1.0	1.2	19	.76	.55
16	1.2	1.2	1.6	1.2	4.4	12	9.3	.96	.70	2.9	.76	.45
17	1.2	1.2	1.3	1.2	3.6	3.7	4.2	.94	.55	1.6	.67	.44
18	1.1	1.2	1.2	2.4	12	2.2	3.3	1.0	.55	1.0	3.0	19
19	2.8	1.1	1.8	1.5	4.4	2.1	2.3	.86	.67	10	1.4	8.8
20	20	1.1	3.0	6.4	3.3	66	2.0	.96	.50	4.1	.92	1.2
21	5.3	1.5	8.5	1.6	2.8	7.9	1.9	3.4	.50	1.2	1.0	.89
22	1.8	1.3	3.1	1.4	2.6	3.6	1.7	2.5	.59	1.0	.82	60
23	1.2	1.2	1.9	20	2.5	2.8	1.7	.92	.63	3.4	.64	195
24	1.1	1.2	1.5	7.6	2.4	2.5	7.4	1.6	.46	8.9	2.9	11
25	1.1	1.2	1.3	22	2.4	2.2	23	1.3	.42	2.2	1.8	41
26	1.1	31	1.3	6.5	2.3	2.0	4.1	1.1	.40	1.3	.70	e5.0
27	1.1	3.4	1.3	3.2	10	7.4	2.2	.84	2.1	.93	.59	e3.0
28	1.0	1.7	1.2	2.3	4.8	3.7	12	.89	8.7	.81	.59	e1.1
29	1.0	1.3	1.2	3.5	2.8	2.3	3.8	.96	10	.74	.53	.91
30	.97	1.2	1.1	86	---	2.1	2.0	.72	1.1	.67	1.3	.83
31	1.0	---	1.1	15	---	2.1	---	.80	---	.61	1.8	---
TOTAL	324.64	92.2	76.4	258.0	254.3	165.9	249.3	103.45	55.16	190.25	179.94	424.42
MEAN	10.5	3.07	2.46	8.32	8.77	5.35	8.31	3.34	1.84	6.14	5.80	14.1
MAX	146	31	20	86	87	66	45	37	11	81	42	195
MIN	.48	1.1	1.0	1.1	1.8	1.9	1.6	.72	.40	.35	.53	.44
CFSM	1.87	.55	.44	1.49	1.57	.96	1.48	.60	.33	1.10	1.04	2.53
IN.	2.16	.61	.51	1.71	1.69	1.10	1.66	.69	.37	1.26	1.20	2.82

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

	1999	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MEAN	10.5	3.07	2.46	8.32	8.77	5.35	8.31	3.34	1.84	5.24	3.57	9.69
MAX	10.5	3.07	2.46	8.32	8.77	5.35	8.31	3.34	1.84	6.14	5.80	14.1
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MIN	10.5	3.07	2.46	8.32	8.77	5.35	8.31	3.34	1.84	4.35	1.34	5.24
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	1999	1999	1999

## SUMMARY STATISTICS

## FOR 2000 WATER YEAR

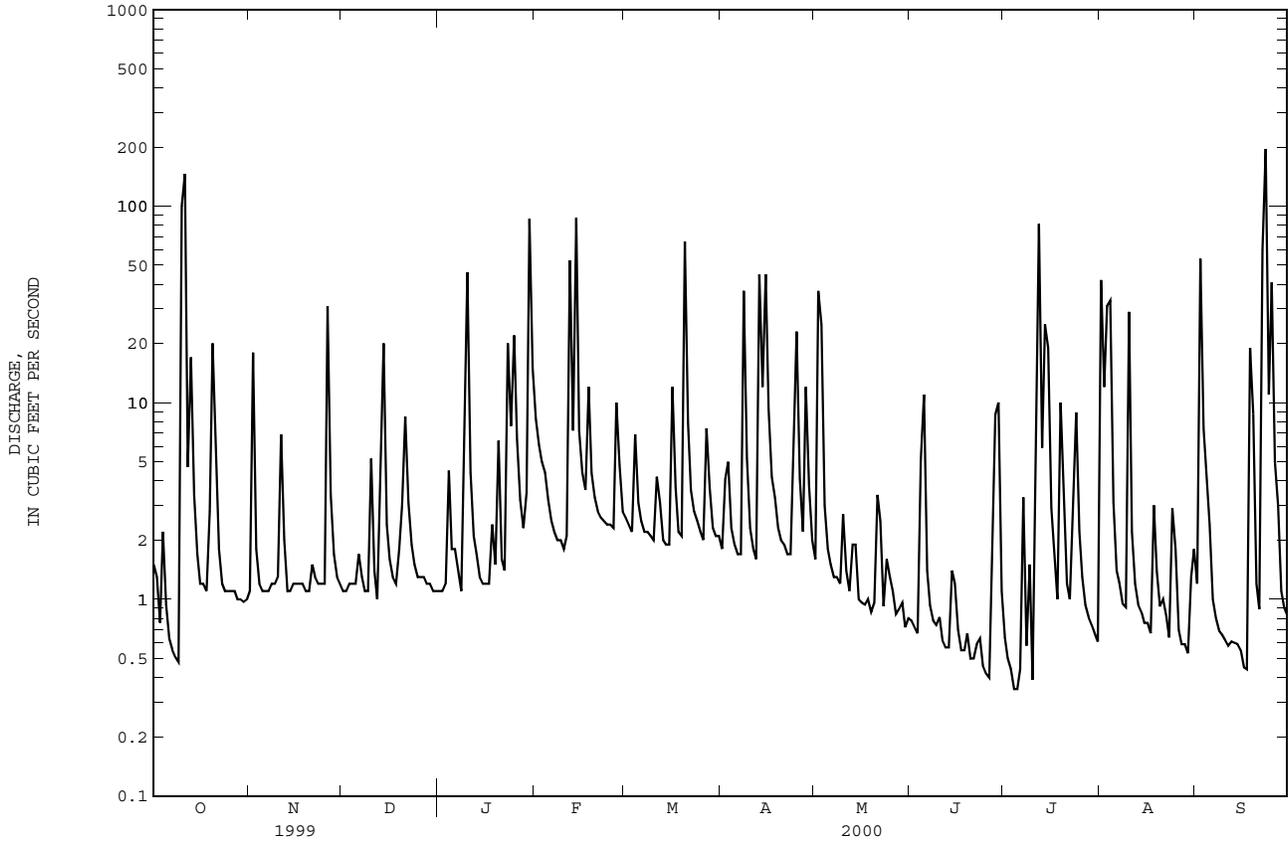
## WATER YEARS 1999 - 2000

ANNUAL TOTAL	2373.96		
ANNUAL MEAN	6.49	6.49	
HIGHEST ANNUAL MEAN		6.49	2000
LOWEST ANNUAL MEAN		6.49	2000
HIGHEST DAILY MEAN	195	Sep 23	2000
LOWEST DAILY MEAN	.35	Jul 4	1999
ANNUAL SEVEN-DAY MINIMUM	.50	Jun 20	1999
MAXIMUM PEAK FLOW	583	Jul 12	2000
MAXIMUM PEAK STAGE	4.98	Jul 12	2000
INSTANTANEOUS LOW FLOW	.25	Jul 7	1999
ANNUAL RUNOFF (CFSM)	1.16		
ANNUAL RUNOFF (INCHES)	15.77		
10 PERCENT EXCEEDS	12		
50 PERCENT EXCEEDS	1.7		
90 PERCENT EXCEEDS	.64		

e Estimated.

\* See REMARKS.

02146562 CAMPBELL CREEK NEAR CHARLOTTE, NC--Continued



## SANTEE RIVER BASIN

02146562 CAMPBELL CREEK NEAR CHARLOTTE, NC--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.76	.34	1.2	1.1	1.1	1.3	5.5	.96	24	.37	.22	.87
2	.70	.39	1.3	1.1	.97	1.3	3.0	.92	3.3	.32	.18	.19
3	.69	.42	1.3	1.1	.91	6.3	3.5	.86	1.2	2.8	.17	40
4	.69	.39	1.3	1.1	.91	47	2.4	.84	.83	42	.17	37
5	.73	1.2	1.3	1.0	.96	6.4	2.0	.83	.71	9.1	.16	1.8
6	.67	.45	1.3	.97	.88	2.9	1.9	.79	.64	1.2	.14	.66
7	.60	.52	1.3	.95	.85	2.0	1.7	.80	.59	.55	.18	.48
8	.73	e.52	1.3	5.2	1.0	1.7	1.7	.84	2.9	1.6	.10	.34
9	.59	e2.0	1.3	1.5	.89	1.5	1.6	.80	.90	.62	.07	1.6
10	.59	e5.6	1.5	1.0	1.7	1.4	1.5	.75	.65	.45	3.6	.44
11	.58	e.98	1.4	1.0	.86	1.3	1.4	.74	.56	.35	.94	.25
12	.56	e.52	1.6	9.7	4.5	8.6	1.4	.72	.50	.59	.21	.22
13	.54	e.51	2.2	3.0	3.4	4.6	6.7	.70	38	.85	7.9	.19
14	.49	e7.4	4.0	1.6	5.3	1.8	1.9	.67	7.6	.31	.50	.17
15	.58	.80	2.3	1.5	1.6	27	2.0	.63	1.4	.25	.23	.15
16	.57	.60	6.6	1.2	1.4	5.3	1.5	.78	.82	.24	.19	.15
17	.56	4.7	9.4	1.1	40	2.9	1.4	1.0	.59	.95	9.6	.14
18	.51	e.98	1.8	2.4	3.4	2.0	1.3	1.0	.50	.21	1.7	.16
19	.49	e10	2.1	20	1.9	1.6	1.3	3.2	.46	.29	.22	.21
20	.50	e5.1	1.8	13	1.5	39	1.2	1.9	.41	.25	.16	5.1
21	.51	1.7	1.2	3.9	1.3	46	1.2	3.2	.35	.29	.11	.33
22	.43	.99	1.5	2.1	15	5.8	1.1	19	15	.12	.09	.19
23	.42	.95	1.1	1.6	3.1	3.3	1.1	2.6	3.0	.92	.08	.16
24	.43	e.94	1.1	1.4	1.8	2.5	2.5	2.5	.89	7.1	.27	82
25	.47	e40	1.0	1.3	8.2	2.1	18	2.8	.59	4.9	.08	2.1
26	.44	e6.0	1.0	1.2	2.9	1.9	2.2	19	.75	4.2	.05	.33
27	.45	e3.8	1.2	1.1	1.8	1.7	1.3	1.7	.52	.54	.06	.17
28	.41	e2.8	1.3	1.1	1.5	1.6	1.1	9.0	1.4	.35	.12	e.11
29	.40	1.2	1.1	1.0	---	87	.98	9.1	1.0	.58	.14	e.08
30	.35	1.3	1.0	3.7	---	15	.95	1.6	.52	.45	.05	.07
31	.36	---	1.0	1.3	---	5.4	---	.89	---	.24	2.7	---
TOTAL	16.80	103.10	58.8	89.22	109.63	338.2	75.33	91.12	110.58	82.99	30.39	175.66
MEAN	.54	3.44	1.90	2.88	3.92	10.9	2.51	2.94	3.69	2.68	.98	5.86
MAX	.76	40	9.4	20	40	87	18	19	38	42	9.6	82
MIN	.35	.34	1.0	.95	.85	1.3	.95	.63	.35	.12	.05	.07
CFSM	.10	.61	.34	.51	.70	1.95	.45	.52	.66	.48	.18	1.05
IN.	.11	.68	.39	.59	.73	2.25	.50	.61	.73	.55	.20	1.17

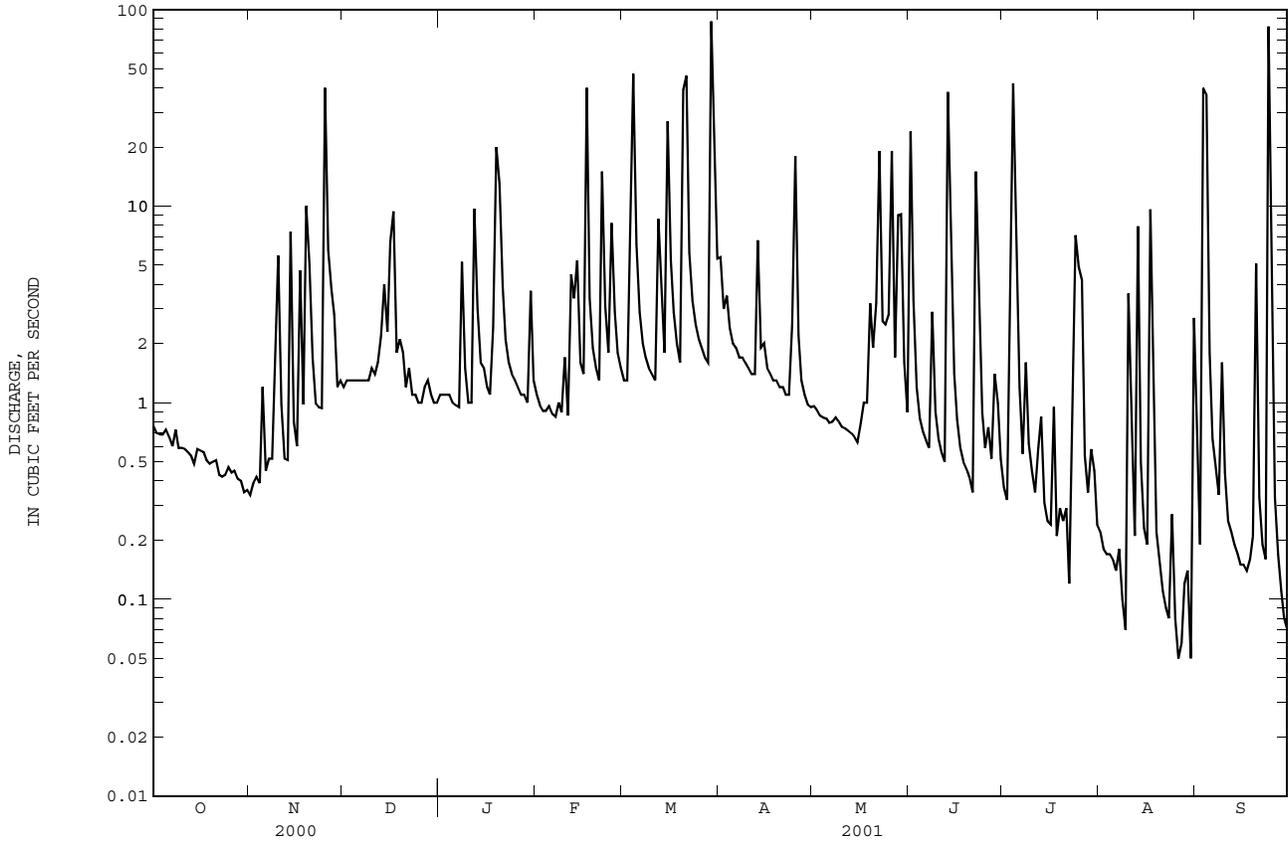
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

	1999	2000	2001	1999	2000	2001	1999	2000	2001	1999	2000	2001
MEAN	5.51	3.25	2.18	5.60	6.38	8.13	5.41	3.14	2.76	4.39	2.71	8.41
MAX	10.5	3.44	2.46	8.32	8.77	10.9	8.31	3.34	3.69	6.14	5.80	14.1
(WY)	2000	2001	2000	2000	2000	2001	2000	2000	2001	2000	2000	2000
MIN	.54	3.07	1.90	2.88	3.92	5.35	2.51	2.94	1.84	2.68	.98	5.24
(WY)	2001	2000	2001	2001	2001	2000	2001	2001	2000	2001	2001	1999

## SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1999 - 2001

	2000 CALENDAR YEAR	2001 WATER YEAR	1999	2000	2001
ANNUAL TOTAL	2059.42	1281.82			
ANNUAL MEAN	5.63	3.51		5.00	
HIGHEST ANNUAL MEAN				6.49	2000
LOWEST ANNUAL MEAN				3.51	2001
HIGHEST DAILY MEAN	195	87	195		Sep 23 2000
LOWEST DAILY MEAN	.34	.05	.05		Aug 26 2001
ANNUAL SEVEN-DAY MINIMUM	.38	.11	.11		Aug 21 2001
MAXIMUM PEAK FLOW		371	583		Jul 12 2000
MAXIMUM PEAK STAGE		3.80	4.98		Jul 12 2000
INSTANTANEOUS LOW FLOW		.03	.03		Aug 29 2001
ANNUAL RUNOFF (CFSM)	1.00	.63	.89		
ANNUAL RUNOFF (INCHES)	13.68	8.51	12.13		
10 PERCENT EXCEEDS	10	6.5	9.0		
50 PERCENT EXCEEDS	1.5	1.1	1.3		
90 PERCENT EXCEEDS	.52	.22	.35		

02146562 CAMPBELL CREEK NEAR CHARLOTTE, NC--Continued



## SANTEE RIVER BASIN

0214657975 IRVINS CREEK AT SR3168 NEAR CHARLOTTE, NC

LOCATION.--Lat 35°09'30", long 80°42'49", Mecklenburg County, Hydrologic Unit 03050103, on right bank at downstream side of bridge on Secondary Road 3168, 4.0 mi southwest of Mint Hill.

DRAINAGE AREA.--8.37 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 612.56 ft above sea level, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those above 300 ft<sup>3</sup>/s, and those for estimated daily discharges, which are poor. Maximum discharge for 2000 water year, current water year, and period of record from rating curve extended above 210 ft<sup>3</sup>/s by step-backwater analysis. Minimum discharge for period June 1999 to Sept. 1999 also occurred on Sept. 5. Minimum discharge for 2000 water year also occurred on Aug. 28-30. Minimum discharge for period of record and current water year also occurred on Aug. 26, 27, 28, 29, 30, 31.

DISCHARGE, CUBIC FEET PER SECOND, FOR PERIOD JUNE TO SEPTEMBER 1999  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	1.2	1.1	1.1	.13
2	---	---	---	---	---	---	---	---	1.1	1.0	.75	.18
3	---	---	---	---	---	---	---	---	1.1	.95	.44	.24
4	---	---	---	---	---	---	---	---	.99	.92	.38	.07
5	---	---	---	---	---	---	---	---	.97	.83	.38	5.4
6	---	---	---	---	---	---	---	---	.90	1.7	.37	1.9
7	---	---	---	---	---	---	---	---	.87	21	.34	.49
8	---	---	---	---	---	---	---	---	.80	3.3	.46	.42
9	---	---	---	---	---	---	---	---	1.8	1.4	1.2	.57
10	---	---	---	---	---	---	---	---	2.5	1.5	.44	.94
11	---	---	---	---	---	---	---	---	2.4	1.4	.35	.54
12	---	---	---	---	---	---	---	---	1.3	5.5	.28	.36
13	---	---	---	---	---	---	---	---	1.1	14	.25	.29
14	---	---	---	---	---	---	---	---	1.0	2.9	.33	.26
15	---	---	---	---	---	---	---	---	4.3	2.1	.35	3.6
16	---	---	---	---	---	---	---	---	9.7	1.7	.36	6.3
17	---	---	---	---	---	---	---	---	4.3	3.5	.33	.65
18	---	---	---	---	---	---	---	---	1.6	1.7	.32	.39
19	---	---	---	---	---	---	---	---	1.3	1.2	.26	.38
20	---	---	---	---	---	---	---	---	1.7	1.1	.89	.61
21	---	---	---	---	---	---	---	---	1.6	1.0	1.2	.52
22	---	---	---	---	---	---	---	---	1.4	1.0	.41	1.9
23	---	---	---	---	---	---	---	---	1.3	.90	.35	.49
24	---	---	---	---	---	---	---	---	1.2	.89	.35	.36
25	---	---	---	---	---	---	---	---	1.9	1.1	2.2	.37
26	---	---	---	---	---	---	---	---	2.1	.83	4.4	.35
27	---	---	---	---	---	---	---	---	1.8	.78	.57	2.4
28	---	---	---	---	---	---	---	---	1.3	.57	.43	2.4
29	---	---	---	---	---	---	---	---	1.2	.55	.40	32
30	---	---	---	---	---	---	---	---	1.3	.95	.34	5.8
31	---	---	---	---	---	---	---	---	---	4.4	.24	---
TOTAL	---	---	---	---	---	---	---	---	56.03	81.77	20.47	70.31
MEAN	---	---	---	---	---	---	---	---	1.87	2.64	.66	2.34
MAX	---	---	---	---	---	---	---	---	9.7	21	4.4	32
MIN	---	---	---	---	---	---	---	---	.80	.55	.24	.07
CFSM	---	---	---	---	---	---	---	---	.22	.32	.08	.28
IN.	---	---	---	---	---	---	---	---	.25	.36	.09	.31

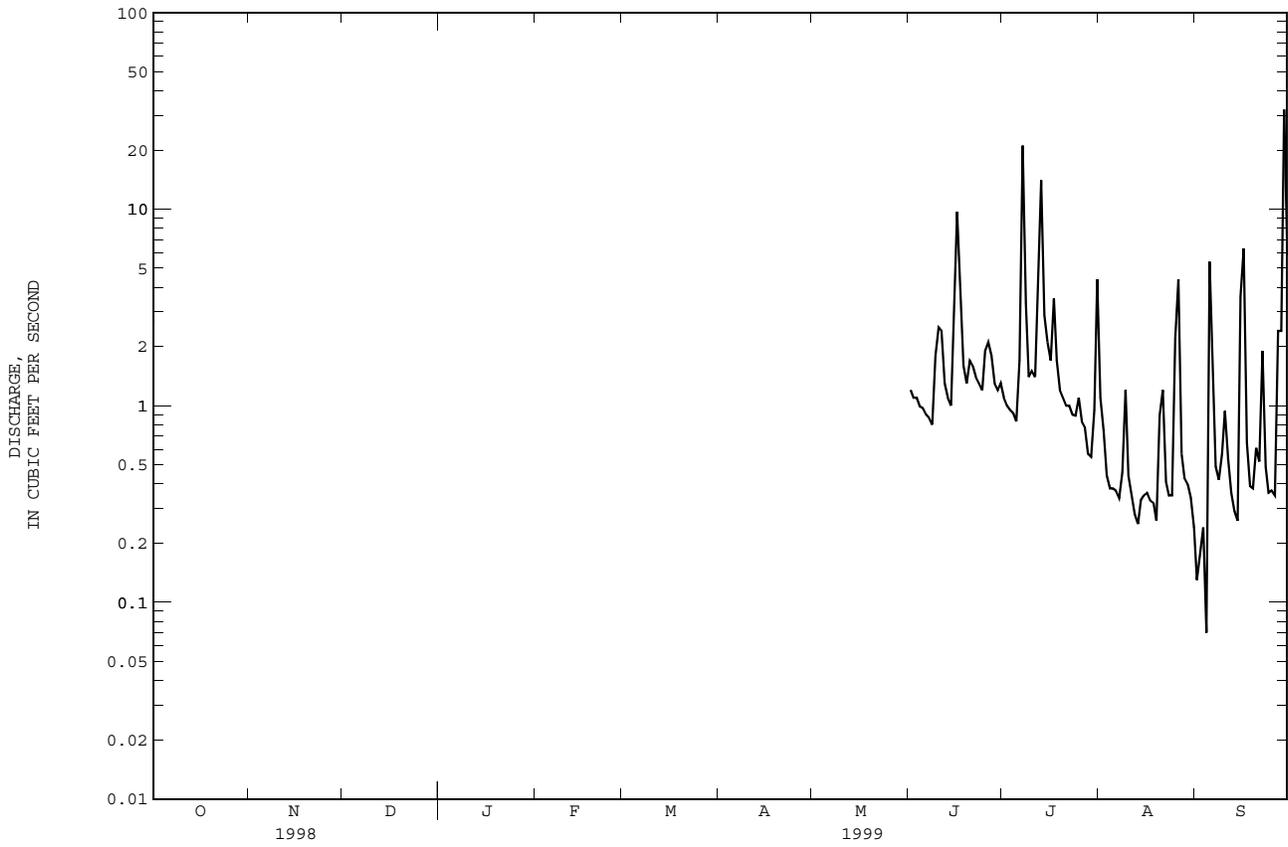
## SUMMARY STATISTICS

FOR PERIOD JUNE TO SEPTEMBER 1999

MAXIMUM PEAK FLOW	203	Jul 7
MAXIMUM PEAK STAGE	4.26	Jul 7
INSTANTANEOUS LOW FLOW	.05*	Sep 4

\* See REMARKS.

0214657975 IRVINS CREEK AT SR3168 NEAR CHARLOTTE, NC--Continued



## SANTEE RIVER BASIN

0214657975 IRVINS CREEK AT SR3168 NEAR CHARLOTTE, NC--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.6	.89	1.4	18	2.9	2.6	2.5	.63	.93	9.8	25
2	.98	9.1	.97	1.5	13	2.8	3.0	2.8	.58	2.1	2.2	14
3	.91	2.5	1.2	1.4	13	2.8	3.2	e10	.53	.32	1.2	1.7
4	1.5	1.8	1.2	1.9	11	5.2	2.8	e2.5	3.7	.21	6.2	6.3
5	1.6	1.3	1.1	1.7	7.7	3.7	2.4	e2.0	41	.21	.84	1.2
6	1.2	1.1	1.2	1.3	5.6	3.0	2.3	e1.8	3.6	.20	.47	.57
7	1.2	1.1	1.1	1.3	4.9	2.8	2.2	e1.7	1.4	.26	.36	.43
8	1.3	1.2	1.0	1.2	6.2	2.8	12	e1.6	1.1	.23	.29	.45
9	1.5	1.2	1.1	2.2	8.1	2.7	4.9	e1.5	.94	3.5	.23	.43
10	71	1.2	3.1	41	6.4	2.6	3.0	e3.0	.84	.28	4.4	.46
11	158	2.3	1.6	5.5	4.8	3.0	2.6	e2.3	.74	9.4	.53	.61
12	7.9	1.9	1.3	2.6	59	3.3	2.5	e1.6	.65	19	.30	.38
13	9.9	1.1	1.5	2.3	13	2.4	12	e1.7	.64	2.0	.18	.41
14	3.9	1.0	18	1.9	101	2.4	6.8	e2.5	.52	.75	.24	.42
15	2.1	1.1	3.3	1.5	13	2.4	37	1.1	.52	4.9	.34	.49
16	1.6	1.1	1.8	1.7	7.5	5.5	11	1.1	.53	.53	.11	.39
17	1.6	1.0	1.6	2.3	5.8	5.7	5.8	1.1	.48	.42	.10	.34
18	1.5	1.2	1.4	4.6	12	3.0	5.1	1.1	.44	.43	.12	4.9
19	1.4	1.1	1.8	2.7	7.0	2.8	3.7	1.1	.52	.51	.15	4.1
20	15	1.0	2.5	5.2	5.5	58	3.2	1.0	.49	4.9	.17	.35
21	9.4	1.1	4.9	1.9	4.9	9.2	2.8	1.2	.47	.40	.13	.39
22	3.3	1.1	3.9	2.0	4.5	5.4	2.6	2.3	.39	.35	.12	11
23	2.2	1.1	2.2	13	5.6	4.3	2.4	.96	.37	.31	.11	91
24	1.8	1.1	1.7	7.3	6.3	3.7	5.2	1.1	.30	1.5	.18	3.0
25	1.6	1.1	1.5	16	7.9	3.3	11	1.0	.25	.56	.68	19
26	1.7	10	1.5	8.8	4.0	3.0	4.4	1.0	.24	.39	.15	5.7
27	1.6	2.9	1.5	5.0	5.3	5.1	3.3	.79	.27	.33	.08	1.6
28	1.5	1.2	1.5	3.9	5.4	4.6	9.1	.76	.34	.25	.08	1.1
29	1.5	1.1	1.4	3.8	4.6	3.0	4.2	.86	1.5	.18	.08	.82
30	1.5	.84	1.3	68	---	2.9	2.9	.68	.64	.18	.09	.72
31	1.5	---	1.4	29	---	2.8	---	.63	---	.15	.53	---
TOTAL	313.19	56.44	70.46	243.9	371.0	167.1	176.0	55.28	64.62	55.68	30.46	197.26
MEAN	10.1	1.88	2.27	7.87	12.8	5.39	5.87	1.78	2.15	1.80	.98	6.58
MAX	158	10	18	68	101	58	37	10	41	19	9.8	91
MIN	.91	.84	.89	1.2	4.0	2.4	2.2	.63	.24	.15	.08	.34
CFSM	1.21	.22	.27	.94	1.53	.64	.70	.21	.26	.21	.12	.79
IN.	1.39	.25	.31	1.08	1.65	.74	.78	.25	.29	.25	.14	.88

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

	1999	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MEAN	10.1	1.88	2.27	7.87	12.8	5.39	5.87	1.78	2.01	2.22	.82	4.46
MAX	10.1	1.88	2.27	7.87	12.8	5.39	5.87	1.78	2.15	2.64	.98	6.58
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	1999	2000	2000
MIN	10.1	1.88	2.27	7.87	12.8	5.39	5.87	1.78	1.87	1.80	.66	2.34
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	1999	2000	1999	1999

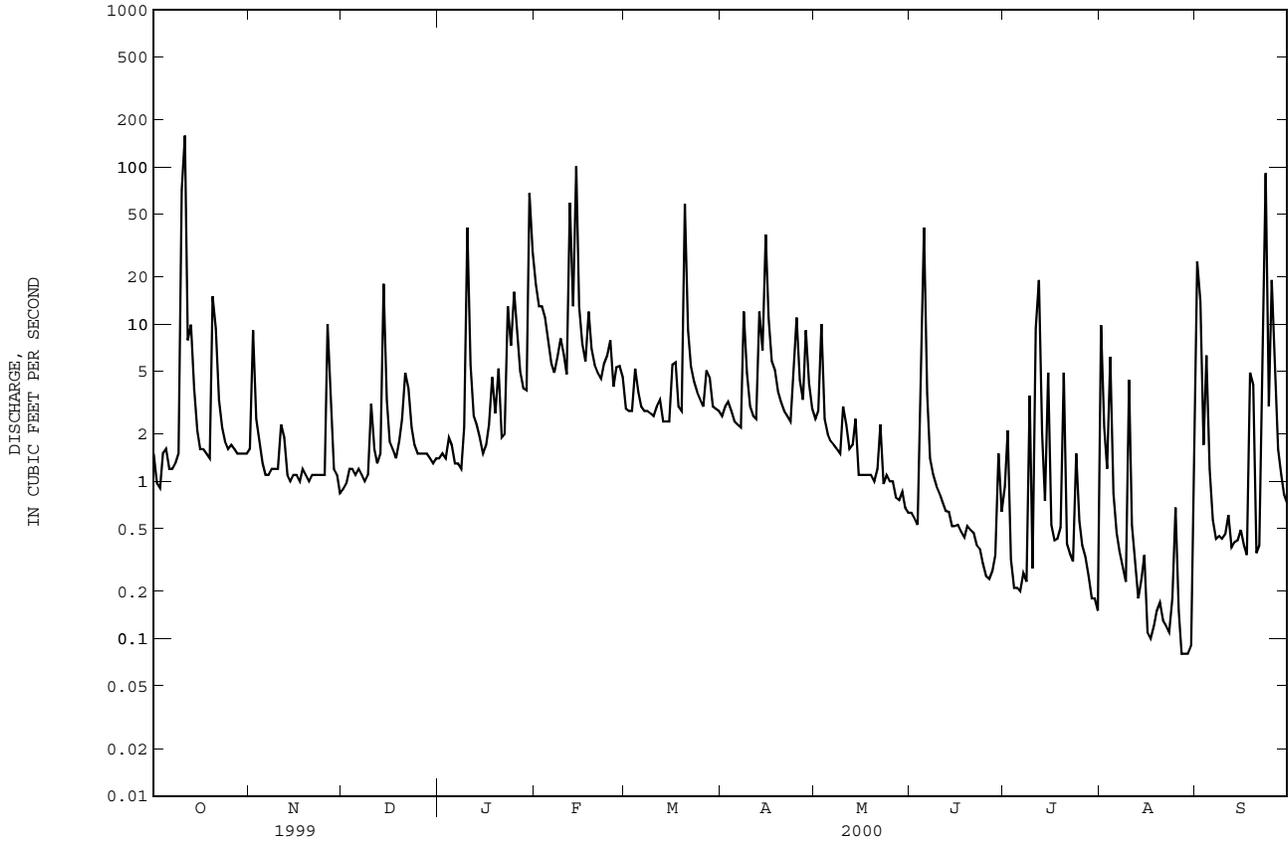
## SUMMARY STATISTICS FOR 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1999 - 2000

ANNUAL TOTAL							1801.39					
ANNUAL MEAN							4.92			4.92		
HIGHEST ANNUAL MEAN										4.92		2000
LOWEST ANNUAL MEAN										4.92		2000
HIGHEST DAILY MEAN				158	Oct 11		158	Oct 11		158	Oct 11	1999
LOWEST DAILY MEAN				.07	Sep 4		.08	Aug 27		.07	Sep 4	1999
ANNUAL SEVEN-DAY MINIMUM				.23	Aug 29		.13	Aug 16		.13	Aug 16	2000
MAXIMUM PEAK FLOW							802*	Oct 11		802*	Oct 11	1999
MAXIMUM PEAK STAGE							6.99	Oct 11		6.99	Oct 11	1999
INSTANTANEOUS LOW FLOW							.06*	Aug 27		.05	Sep 4	1999
ANNUAL RUNOFF (CFSM)							.59			.59		
ANNUAL RUNOFF (INCHES)							8.01			7.99		
10 PERCENT EXCEEDS				4.3			9.4			7.7		
50 PERCENT EXCEEDS				1.2			1.6			1.5		
90 PERCENT EXCEEDS				.36			.34			.33		

e Estimated.

\* See REMARKS.

0214657975 IRVINS CREEK AT SR3168 NEAR CHARLOTTE, NC--Continued



SANTEE RIVER BASIN

0214657975 IRVINS CREEK AT SR3168 NEAR CHARLOTTE, NC--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.67	.48	.79	.83	1.1	1.7	5.7	1.5	8.9	.36	.21	.29
2	.56	.49	.91	.84	1.1	1.6	4.1	1.5	3.1	.30	.20	.16
3	.48	.49	.85	.84	1.0	2.4	3.7	1.4	1.4	.44	.17	4.3
4	.48	.52	.75	.89	1.0	30	3.3	1.3	1.1	1.3	.16	9.5
5	.41	.63	.74	.94	1.0	6.0	2.9	1.3	.95	2.0	.15	.54
6	.46	.59	.75	.93	1.0	3.4	2.7	1.2	.87	.41	.14	.10
7	.44	.55	.75	.96	1.0	2.5	2.6	1.2	.81	.30	.12	.06
8	.37	.61	.76	1.7	.98	2.2	2.4	1.3	1.0	.37	.10	.05
9	.45	.88	.86	1.3	1.0	2.0	2.3	1.2	.97	.52	.08	.16
10	.49	1.8	.73	1.1	1.3	1.8	2.2	1.2	.80	.33	.06	.36
11	.57	.57	.66	1.1	.98	1.7	2.1	1.1	.70	.25	.15	.07
12	.55	.49	.64	5.5	1.9	2.0	2.1	1.1	.65	.22	.11	.04
13	.51	.51	.57	4.7	1.9	3.4	3.2	.97	6.7	.51	2.0	.04
14	.45	2.1	.75	1.8	3.9	1.9	2.1	.91	3.1	.37	.58	.04
15	.39	.72	.79	1.4	1.7	18	2.0	.90	.97	.21	.17	.03
16	.50	.65	1.7	1.2	1.5	5.5	1.9	.88	.82	.17	.11	.03
17	.44	1.5	3.0	1.1	27	3.4	1.8	.96	.77	.16	.12	.03
18	.49	.72	1.4	1.2	3.7	2.6	1.8	1.0	.61	.16	1.1	.03
19	.55	2.7	1.2	8.0	2.4	2.2	1.8	18	.60	.16	.21	.03
20	.58	2.1	1.4	12	2.0	30	1.7	5.7	.53	.15	.12	.58
21	.45	.85	1.0	3.4	1.8	69	1.7	1.3	.51	.13	.07	.41
22	.59	.64	1.1	2.0	8.2	8.1	1.7	3.7	1.0	.11	.05	.05
23	.67	.68	.94	1.6	3.7	4.5	1.7	2.0	1.3	.16	.04	.04
24	.64	.60	.88	1.5	2.4	3.4	2.0	1.3	.74	1.1	.03	20
25	.66	14	.83	1.3	3.2	2.8	10	2.1	.53	6.2	.03	.90
26	.58	2.9	.77	1.3	2.7	2.5	2.5	8.2	.86	1.8	.03	.17
27	.60	1.4	.93	1.2	2.0	2.2	1.9	1.4	.84	.54	.02	.11
28	.54	1.1	1.1	1.2	1.8	2.0	1.8	4.0	.45	.40	.02	.11
29	.51	1.0	.98	1.1	---	94	1.6	2.9	.42	.33	.02	.08
30	.45	.92	.91	1.7	---	27	1.6	1.4	.54	.39	.02	.09
31	.45	---	.83	1.3	---	7.0	---	1.2	---	.26	.09	---
TOTAL	15.98	43.19	30.27	65.93	83.26	346.8	78.9	74.12	42.54	20.11	6.48	38.40
MEAN	.52	1.44	.98	2.13	2.97	11.2	2.63	2.39	1.42	.65	.21	1.28
MAX	.67	14	3.0	12	27	94	10	18	8.9	6.2	2.0	20
MIN	.37	.48	.57	.83	.98	1.6	1.6	.88	.42	.11	.02	.03
CFSM	.06	.17	.12	.25	.36	1.34	.31	.29	.17	.08	.02	.15
IN.	.07	.19	.13	.29	.37	1.54	.35	.33	.19	.09	.03	.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

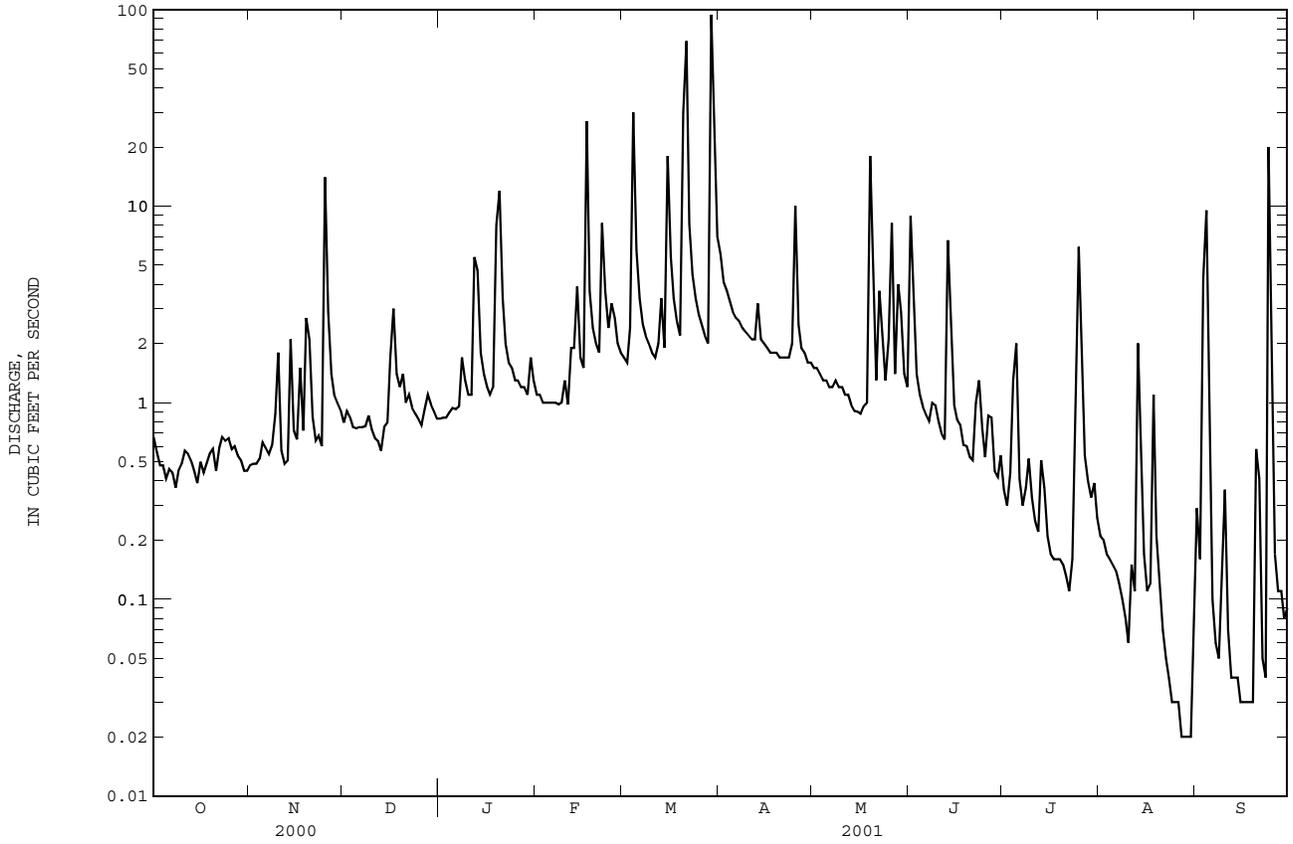
	1999	2000	2001	1999	2000	2001	1999	2000	2001	1999	2000	2001
MEAN	5.31	1.66	1.62	5.00	7.97	8.29	4.25	2.60	1.81	1.69	.62	3.40
MAX	10.1	1.88	2.27	7.87	12.8	11.2	5.87	2.82	2.15	2.64	.98	6.58
(WY)	2000	2000	2000	2000	2000	2001	2000	2000	2000	1999	2000	2000
MIN	.52	1.44	.98	2.13	2.97	5.39	2.63	2.39	1.42	.65	.21	1.28
(WY)	2001	2001	2001	2001	2001	2000	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1999 - 2001

ANNUAL TOTAL	1450.74	845.98	
ANNUAL MEAN	3.96	2.32	3.67
HIGHEST ANNUAL MEAN			5.01
LOWEST ANNUAL MEAN			2.32
HIGHEST DAILY MEAN	101	94	158
LOWEST DAILY MEAN	.08	.02	.02
ANNUAL SEVEN-DAY MINIMUM	.13	.02	.02
MAXIMUM PEAK FLOW		417*	802*
MAXIMUM PEAK STAGE		5.47	6.99
INSTANTANEOUS LOW FLOW		.02*	.02*
ANNUAL RUNOFF (CFSM)	.47	.28	.44
ANNUAL RUNOFF (INCHES)	6.45	3.76	5.95
10 PERCENT EXCEEDS	7.8	3.5	5.7
50 PERCENT EXCEEDS	1.1	.95	1.2
90 PERCENT EXCEEDS	.34	.12	.24

\* See REMARKS.

0214657975 IRVINS CREEK AT SR3168 NEAR CHARLOTTE, NC--Continued

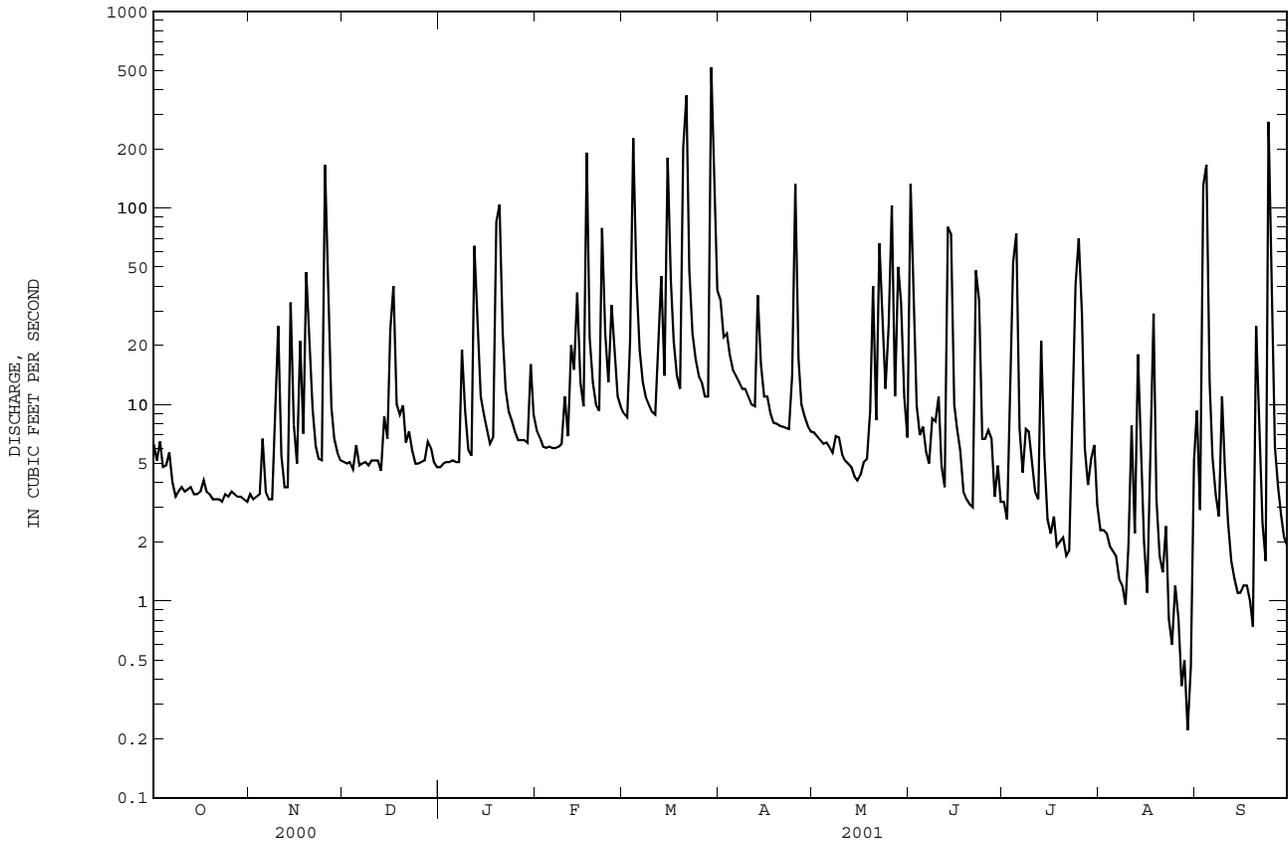




02146600 MCALPINE CREEK AT SARDIS ROAD NEAR CHARLOTTE, NC--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1962 - 2001	
ANNUAL TOTAL	10668.5		6904.98		43.4	
ANNUAL MEAN	29.1		18.9		72.4	
HIGHEST ANNUAL MEAN					1975	
LOWEST ANNUAL MEAN					18.9	
HIGHEST DAILY MEAN	883	Sep 23	519	Mar 29	4490	Aug 27 1995
LOWEST DAILY MEAN	1.6	Sep 17	.22	Aug 29	.22	Aug 29 2001
ANNUAL SEVEN-DAY MINIMUM	2.3	Sep 11	.60	Aug 24	.40	Jul 14 1986
MAXIMUM PEAK FLOW			1770	Mar 29	9040	Aug 27 1995
MAXIMUM PEAK STAGE			7.94	Mar 29	17.79	Aug 27 1995
INSTANTANEOUS LOW FLOW			.11*	Aug 29	.11*	Aug 29 2001
ANNUAL RUNOFF (CFSM)	.74		.48		1.10	
ANNUAL RUNOFF (INCHES)	10.02		6.49		14.90	
10 PERCENT EXCEEDS	58		36		73	
50 PERCENT EXCEEDS	9.0		6.6		13	
90 PERCENT EXCEEDS	3.4		2.2		3.8	

e Estimated.  
 \* See REMARKS.



SANTEE RIVER BASIN

02146600 MCALPINE CREEK AT SARDIS ROAD NEAR CHARLOTTE, NC--Continued

PRECIPITATION RECORDS

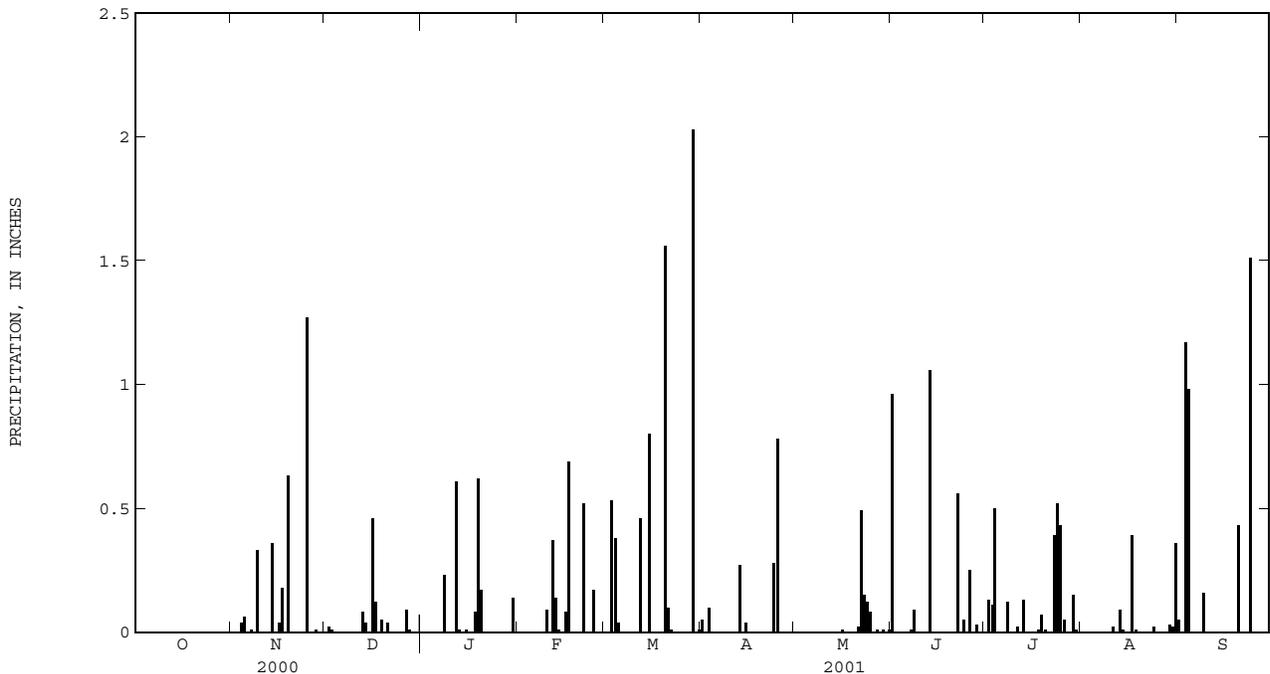
PERIOD OF RECORD.--November 1992 to current year. Records for period November 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.05	.00	.96	.00	.00	.05
2	.00	.00	.02	.00	.00	.00	.00	.00	.00	.13	.00	.00
3	.00	.00	.01	.00	.00	.53	.10	.00	.00	.11	.00	1.17
4	.00	.04	.00	.00	.00	.38	.00	.00	.00	.50	.00	.98
5	.00	.06	.00	.00	.00	.04	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
8	.00	.00	.00	.23	.00	.00	.00	.00	.09	.12	.00	.00
9	.00	.33	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16
10	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00
12	.00	.00	.00	.61	.37	.46	.00	.00	.00	.00	.00	.00
13	.00	.00	.08	.01	.14	.00	.27	.00	1.06	.13	.09	.00
14	.00	.36	.04	.00	.01	.00	.00	.00	.00	.00	.01	.00
15	.00	.00	.00	.01	.00	.80	.04	.00	.00	.00	.00	.00
16	.00	.04	.46	.00	.08	.00	.00	.01	.00	.00	.00	.00
17	.00	.18	.12	.00	.69	.00	.00	.00	.00	.00	.39	.00
18	.00	.00	.00	.08	.00	.00	.00	.00	.00	.01	.01	.00
19	.00	.63	.05	.62	.00	.00	.00	.00	.00	.07	.00	.00
20	.00	.00	.00	.17	.00	1.56	.00	.00	.00	.01	.00	.43
21	.00	.00	.04	.00	.00	.10	.00	.02	.00	.00	.00	.00
22	.00	.00	.00	.00	.52	.01	.00	.49	.56	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.15	.00	.39	.00	.00
24	.00	.00	.00	.00	.00	.00	.28	.12	.05	.52	.02	1.51
25	.00	1.27	.00	.00	.17	.00	.78	.08	.00	.43	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.25	.05	.00	.00
27	.00	.00	.09	.00	.00	.00	.00	.01	.00	.00	.00	.00
28	.00	.01	.01	.00	.00	.00	.00	.00	.03	.00	.00	.00
29	.00	.00	.00	.00	---	2.03	.00	.01	.00	.15	.03	.00
30	.00	.00	.00	.14	---	.00	.00	.00	.00	.01	.02	.00
31	.00	---	.00	.00	---	.01	---	.01	---	.00	.36	---
TOTAL	0.00	2.93	0.92	1.87	2.07	5.92	1.52	0.90	3.01	2.65	0.95	4.30





Crest stage at North Buffalo Creek near Greensboro, North Carolina.

SANTEE RIVER BASIN

02146670 FOUR MILE CREEK NEAR PINEVILLE, NC

LOCATION.--Lat 35°04'30", long 80°49'20", Mecklenburg County, Hydrologic Unit 03050103, on left bank on downstream side of bridge at Elm Lane W. (Secondary Road 3649), 0.5 mi south of State Highway 51, 1.25 mi upstream of McAlpine Creek, and 4.5 mi east of U.S. Highway 521 at Pineville.

DRAINAGE AREA.--17.8 mi<sup>2</sup>.

PERIOD OF RECORD.-- July 1997 to current year.

GAGE.--Water-stage recorder. Datum of gage is 528.69 ft above sea level, North American Vertical Datum of 1988 (City of Charlotte bench mark). Radio telemetry at station.

REMARKS.--Records poor. Maximum discharge for period of record from rating curve extended above 885 ft<sup>3</sup>/s. Minimum discharge for current water year and period of record also occurred July 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	e.57	4.6	3.3	7.3	4.3	18	1.2	61	.42	.27	1.2
2	1.1	e.56	5.3	3.0	5.7	3.8	12	1.0	28	.40	.22	1.5
3	1.1	e.55	5.2	2.9	5.1	6.9	11	.94	4.0	1.2	.19	50
4	1.0	e.88	4.5	3.2	5.0	108	8.4	1.0	2.6	32	.22	116
5	1.1	e2.0	5.0	3.3	5.0	27	5.0	1.0	e1.8	56	.22	28
6	1.8	e1.0	5.0	3.4	4.8	11	4.1	1.2	e1.4	1.8	.21	5.0
7	e1.4	.86	5.2	3.0	4.5	7.0	4.7	1.1	e1.3	.48	.18	1.6
8	e1.2	.43	5.4	10	4.4	5.3	3.5	1.4	e1.6	.40	.20	1.3
9	e1.0	1.1	6.2	9.1	4.4	4.3	2.8	2.4	4.7	e.57	.18	4.2
10	e.98	6.3	5.3	3.9	7.5	3.5	3.1	1.8	4.1	e.37	.16	2.8
11	e.98	.56	5.3	3.1	e5.8	3.2	2.8	e1.7	e2.7	e.29	.20	1.3
12	e.96	.41	5.3	44	e6.8	8.6	4.2	e1.7	e1.3	e.25	.26	e1.2
13	e1.0	.39	5.2	43	11	26	3.8	e1.6	8.9	10	.25	e.98
14	e.98	10	8.0	16	14	5.1	3.6	e1.6	32	.87	.30	e.88
15	e.96	1.9	7.9	12	8.4	95	1.6	e1.5	2.6	.21	.33	e.82
16	e.96	.42	17	9.4	e6.0	36	3.4	e1.5	19	.15	.30	e.79
17	e1.6	2.5	31	7.9	e99	15	1.1	e1.4	14	.14	.32	e.77
18	e1.2	.74	9.7	7.5	e19	7.9	1.2	e1.4	.31	.13	1.3	e.74
19	e1.0	19	6.5	36	e8.0	5.5	.91	e1.4	.26	.17	.40	e.71
20	e.95	16	6.3	85	e7.0	97	.97	9.3	.38	.32	.32	4.5
21	e.90	1.6	4.2	24	6.0	194	1.7	8.8	.52	.35	.30	5.9
22	e.86	.47	4.6	14	47	37	1.1	23	13	.38	.32	3.5
23	e.82	.40	3.9	11	20	17	1.4	17	23	.43	.31	3.6
24	e.76	.37	3.6	9.9	9.0	11	2.6	4.2	.56	16	.36	201
25	e.72	118	5.3	8.7	16	8.7	66	12	.35	59	.38	51
26	e.69	43	3.3	7.0	13	7.0	8.3	62	3.3	26	.37	20
27	e.66	14	3.9	6.9	6.7	4.8	2.6	4.6	3.9	1.7	.36	4.9
28	e.63	8.4	7.1	6.4	5.1	4.3	2.1	16	.51	.68	.34	3.4
29	e.61	6.4	4.6	6.4	---	229	1.9	13	.46	8.7	.37	1.1
30	e.59	5.3	4.0	13	---	119	1.4	2.5	.42	18	.44	1.1
31	e.58	---	3.6	9.4	---	30	---	1.9	---	.60	.62	---
TOTAL	30.29	264.11	202.0	425.7	361.5	1142.2	185.28	201.14	237.97	238.01	10.20	519.79
MEAN	.98	8.80	6.52	13.7	12.9	36.8	6.18	6.49	7.93	7.68	.33	17.3
MAX	1.8	118	31	85	99	229	66	62	61	59	1.3	201
MIN	.58	.37	3.3	2.9	4.4	3.2	.91	.94	.26	.13	.16	.71
CFSM	.05	.49	.37	.77	.73	2.07	.35	.36	.45	.43	.02	.97
IN.	.06	.55	.42	.89	.76	2.39	.39	.42	.50	.50	.02	1.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

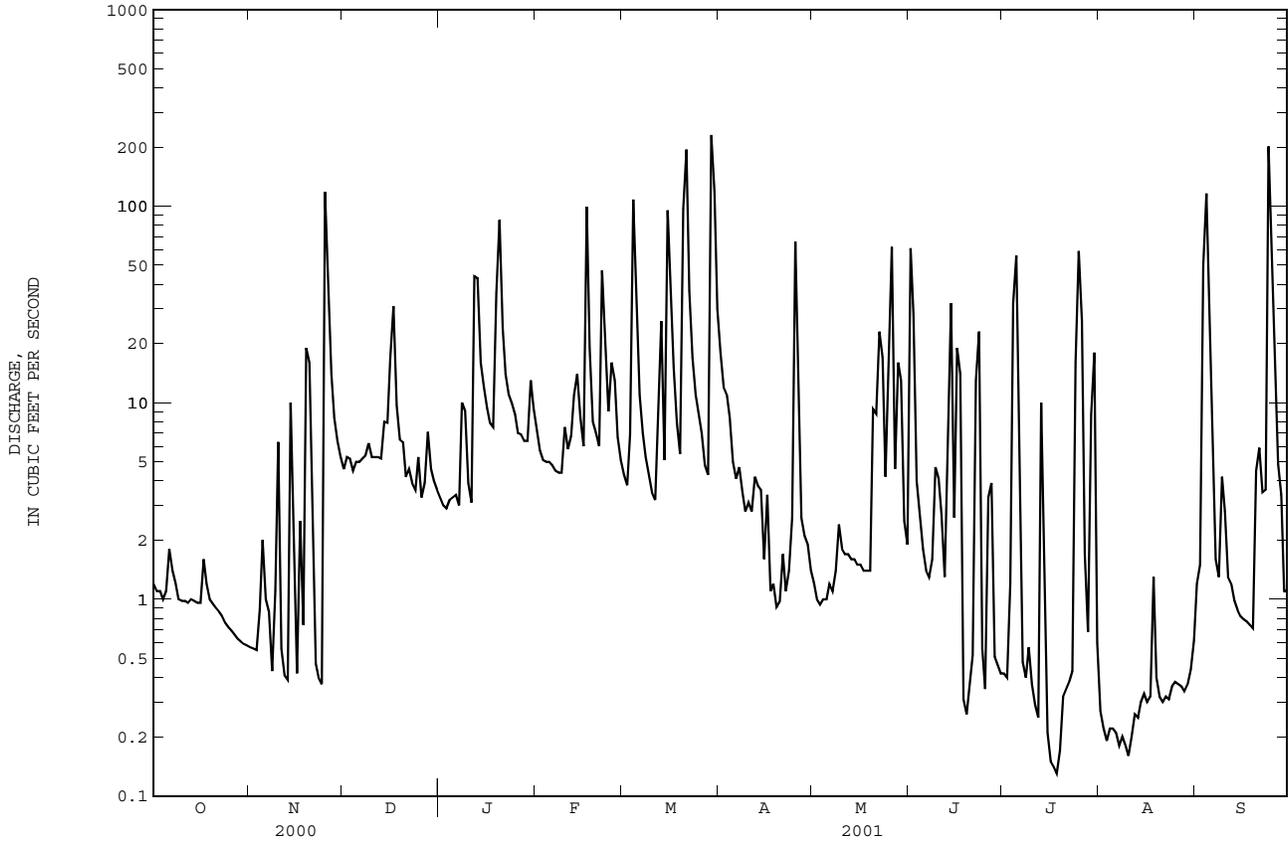
	1997	1998	1999	2000	2001	1997	1998	1999	2000	2001		
MEAN	12.3	12.0	15.3	35.7	28.9	27.8	25.0	8.34	10.5	17.4	6.94	16.8
MAX	23.6	24.4	31.6	56.2	46.1	41.9	56.3	19.1	19.0	31.6	20.2	34.8
(WY)	1998	1998	1998	1998	1998	1998	1998	1998	2000	1997	1998	2000
MIN	.98	7.35	5.94	13.7	12.9	10.8	6.18	3.03	4.07	7.68	.33	4.21
(WY)	2001	2000	2000	2001	2001	1999	2001	1999	1999	2001	2001	1999

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1997 - 2001

ANNUAL TOTAL	6135.08	3818.19	
ANNUAL MEAN	16.8	10.5	18.0
HIGHEST ANNUAL MEAN			31.4
LOWEST ANNUAL MEAN			10.5
HIGHEST DAILY MEAN	430	Sep 23	602
LOWEST DAILY MEAN	.37	Nov 24	.13
ANNUAL SEVEN-DAY MINIMUM	.58	Oct 28	.19
MAXIMUM PEAK FLOW			683
MAXIMUM PEAK STAGE			9.55
INSTANTANEOUS LOW FLOW			.10*
ANNUAL RUNOFF (CFSM)	.94		.59
ANNUAL RUNOFF (INCHES)	12.82		7.98
10 PERCENT EXCEEDS	41	23	40
50 PERCENT EXCEEDS	4.9	3.3	5.0
90 PERCENT EXCEEDS	.91	.37	.91

e Estimated.  
\* See REMARKS.

02146670 FOUR MILE CREEK NEAR PINEVILLE, NC--Continued



SANTEE RIVER BASIN

02146700 MCMULLEN CREEK AT SHARON VIEW ROAD NEAR CHARLOTTE, NC

LOCATION.--Lat 35°08'27", long 80°49'13", Mecklenburg County, Hydrologic Unit 03050103, on left bank downstream of culvert wingwall at Sharon View Road (Secondary Road 3673), 3.3 mi south of Queens College, Charlotte, and 6.9 mi upstream from mouth.

DRAINAGE AREA.--6.95 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1962 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 592.91 ft above sea level (levels by city of Charlotte). Prior to Oct. 13, 1970, at site 73 ft upstream at same datum. Oct. 13, 1970, to Dec. 30, 1971, at site 154 ft downstream at 590.91 ft. Radio telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for the current water year also occurred Aug. 23-25. Maximum discharge for period of record from rating curve extended above 2,650 ft<sup>3</sup>/s on basis of computation of peak flow through culvert. No flow occurred periodically from 1962 to 1973.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 6, 1962, reached a stage of 7.5 ft, former site and datum, from floodmarks; discharge, 1,040 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	.97	.54	.81	.81	1.3	5.5	1.2	34	.62	.39	1.9
2	1.3	.93	.67	.81	.78	1.3	2.7	1.1	2.9	6.2	.38	.57
3	1.2	.94	.62	.81	.71	8.4	4.5	1.0	1.2	2.3	.36	41
4	1.2	e.93	.59	.76	.81	53	2.5	1.0	.92	22	.40	50
5	1.3	e1.3	1.5	.77	.90	6.1	2.1	.90	.93	6.3	.37	1.5
6	1.3	e.50	.60	.71	.74	2.4	2.0	.88	.74	.97	.36	.68
7	1.3	.56	.56	.78	.76	1.9	2.0	.78	.73	.66	.39	.41
8	1.4	.60	.65	6.1	.78	1.6	1.9	.86	1.8	1.5	1.1	.41
9	.84	3.1	.55	1.2	.72	1.5	1.9	.93	1.2	1.3	.55	6.0
10	1.1	3.3	.56	.62	2.1	1.4	1.9	.87	.68	.78	.42	.93
11	1.1	1.6	.55	.61	.89	1.3	1.8	1.1	.56	.59	.71	.58
12	.75	.61	.45	12	5.0	9.4	1.8	.97	.58	.56	.47	.42
13	.95	.47	.66	2.7	4.5	4.8	10	.86	49	1.4	13	.37
14	.96	8.3	1.8	1.1	6.0	1.7	2.1	.72	5.6	.57	1.6	.31
15	1.0	.91	.80	1.0	1.4	43	2.0	.74	1.0	.46	.49	.33
16	1.1	.99	7.0	.94	1.3	4.7	1.8	.82	.74	.45	.31	.43
17	1.0	6.0	11	.80	40	2.7	1.4	.62	.66	.43	16	.46
18	.97	1.3	1.3	1.8	2.3	2.0	1.3	.60	.53	.52	5.2	.34
19	1.0	14	1.4	26	1.5	1.7	1.2	.76	.58	4.1	.72	.32
20	.94	2.8	1.6	13	1.3	72	1.2	.67	.46	1.1	.40	6.7
21	.83	1.1	.84	2.5	1.3	45	1.3	3.1	.47	.42	.30	.75
22	1.0	.81	1.1	1.3	19	5.3	1.2	26	9.4	.36	.31	.56
23	1.3	.89	.78	1.1	2.4	3.0	1.2	2.5	2.8	1.5	.29	.55
24	1.0	.95	.67	1.0	1.6	2.4	2.6	1.9	.83	6.1	.42	125
25	.84	37	.67	.91	9.5	2.1	25	4.5	.77	4.7	.31	2.4
26	.80	2.9	.95	.86	2.5	1.9	1.8	31	8.9	3.1	.31	.81
27	1.0	1.1	1.3	.82	1.6	1.7	1.2	1.4	1.8	.68	.30	.51
28	.90	.78	1.4	.81	1.4	1.6	1.2	12	9.1	.41	.32	.41
29	.94	.55	.85	.81	---	141	1.2	8.3	1.8	1.8	.38	.36
30	1.1	.54	.81	4.1	---	15	1.1	1.4	.74	.92	.36	.28
31	.93	---	.81	1.1	---	4.8	---	.97	---	.77	1.0	---
TOTAL	32.45	96.73	43.58	88.63	112.60	446.0	89.4	110.45	141.42	73.57	47.92	245.29
MEAN	1.05	3.22	1.41	2.86	4.02	14.4	2.98	3.56	4.71	2.37	1.55	8.18
MAX	1.4	37	11	26	40	141	25	31	49	22	16	125
MIN	.75	.47	.45	.61	.71	1.3	1.1	.60	.46	.36	.29	.28
CFSM	.15	.46	.20	.41	.58	2.07	.43	.51	.68	.34	.22	1.18
IN.	.17	.52	.23	.47	.60	2.39	.48	.59	.76	.39	.26	1.31

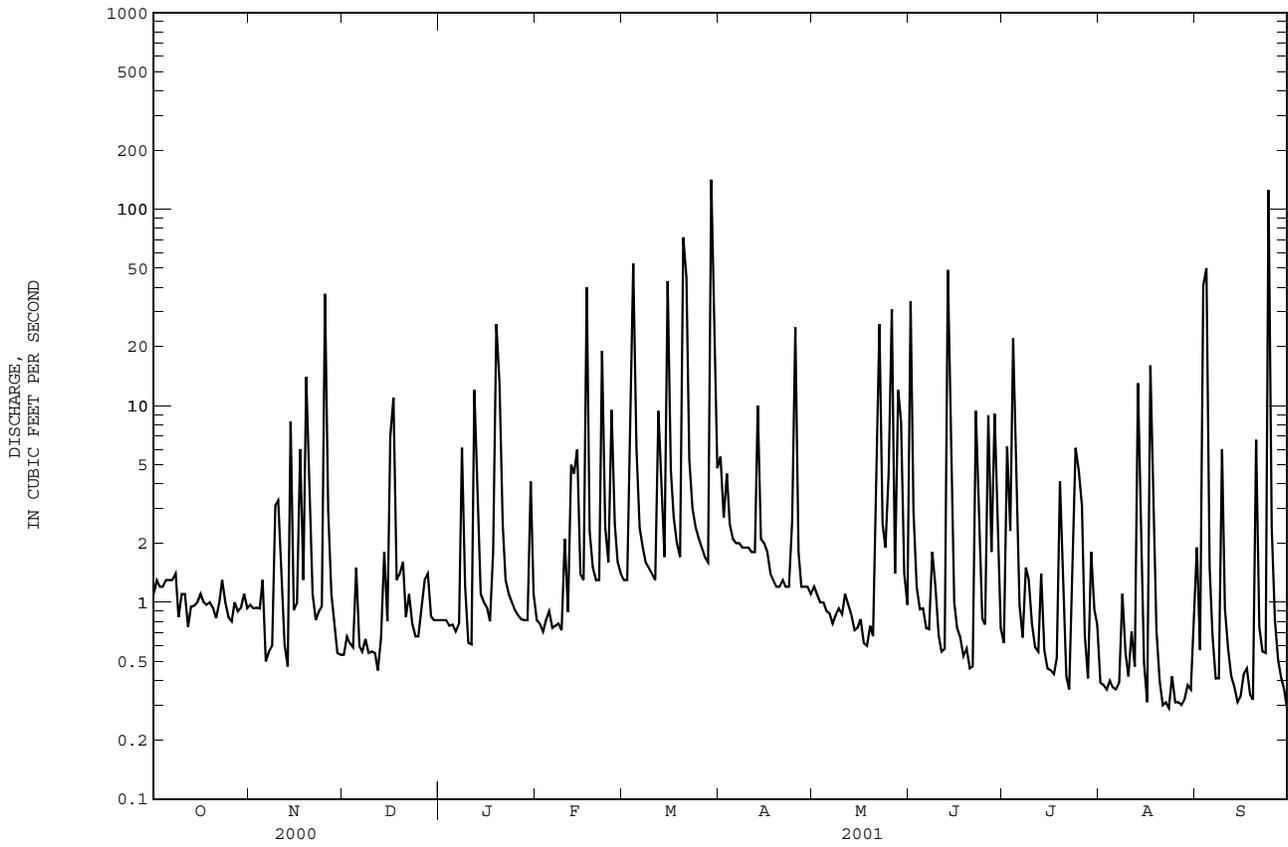
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2001, BY WATER YEAR (WY)

MEAN	6.21	5.74	7.56	12.6	13.4	14.9	7.80	6.30	6.55	6.38	5.76	5.69
MAX	30.4	21.3	24.3	33.5	28.1	38.8	25.1	31.3	27.3	27.7	32.1	23.8
(WY)	1991	1986	1977	1978	1979	1977	1998	1975	1992	1997	1995	1987
MIN	.21	.54	.86	1.02	1.77	1.74	1.13	1.08	.75	.61	.24	.084
(WY)	1964	1970	1966	1981	1968	1985	1981	1962	1966	1963	1968	1970

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1962 - 2001
ANNUAL TOTAL	2256.99	1528.04	
ANNUAL MEAN	6.17	4.19	8.24
HIGHEST ANNUAL MEAN			13.8
LOWEST ANNUAL MEAN			3.19
HIGHEST DAILY MEAN	274	Sep 23	868
LOWEST DAILY MEAN	.30	Aug 29	.00
ANNUAL SEVEN-DAY MINIMUM	.44	Jun 20	.01
MAXIMUM PEAK FLOW		938	3470*
MAXIMUM PEAK STAGE		6.33	11.03
INSTANTANEOUS LOW FLOW		.22*	.00*
ANNUAL RUNOFF (CFSM)	.89	.60	1.19
ANNUAL RUNOFF (INCHES)	12.08	8.18	16.10
10 PERCENT EXCEEDS	12	6.8	15
50 PERCENT EXCEEDS	1.3	1.0	1.6
90 PERCENT EXCEEDS	.53	.44	.31

e Estimated.  
\* See REMARKS.

02146700 MCMULLEN CREEK AT SHARON VIEW ROAD NEAR CHARLOTTE, NC--Continued



SANTEE RIVER BASIN

02146750 MCALPINE CREEK BELOW MCMULLEN CREEK NEAR PINEVILLE, NC

LOCATION.--Lat 35°03'59", long 80°52'12", Mecklenburg County, Hydrologic Unit, 03050103, on right bank at McAlpine Creek Wastewater Treatment Plant of Charlotte, 150 ft downstream of McMullen Creek, 735 ft upstream from effluent outfall, and 2.1 mi south of Pineville.

DRAINAGE AREA.--92.4 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 516.38 ft above sea level. Prior to Oct. 1, 1977, present site at 517.38 ft. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Records for periods of heavy overbank flow may be affected by variable backwater not adequately defined. Maximum stage for period of record from high-water mark in gage house. Maximum discharge for period of record from rating curve extended above 11,600 ft<sup>3</sup>/s.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1964, about 12.9 ft. (former datum), Apr. 1, 1973, from information by wastewater treatment plant operator.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	7.6	22	e19	24	28	78	16	111	8.7	7.9	e10
2	13	7.0	21	e19	22	27	63	16	183	9.4	6.5	8.6
3	13	7.0	22	e21	21	37	53	15	28	18	5.7	254
4	12	9.3	21	e21	20	656	51	14	18	54	5.4	618
5	11	13	22	e22	21	130	37	14	15	187	5.1	77
6	11	14	21	e20	20	60	34	13	13	23	5.0	23
7	12	12	20	19	19	41	31	12	12	12	4.7	15
8	9.3	9.0	20	43	19	34	30	12	14	11	4.5	11
9	8.9	16	20	44	19	31	28	14	19	14	5.4	21
10	8.8	59	20	24	27	29	26	14	17	10	4.4	21
11	8.9	18	20	21	25	27	24	12	15	9.2	6.2	12
12	8.6	11	19	116	29	35	23	12	11	8.3	7.1	9.4
13	9.1	8.7	19	143	47	119	41	12	84	18	11	7.6
14	8.9	54	24	41	65	41	42	11	257	17	21	6.7
15	8.9	30	27	32	35	473	23	11	30	7.9	6.8	6.7
16	8.5	13	61	28	29	184	24	10	17	6.0	5.2	5.6
17	9.3	35	119	24	431	53	20	10	31	5.4	11	5.0
18	10	23	47	23	87	36	19	10	13	5.5	57	4.9
19	8.8	78	e28	122	43	28	19	10	10	5.8	12	4.9
20	7.4	82	e29	390	37	260	18	35	9.4	9.8	7.0	21
21	7.6	27	e19	82	31	1370	18	16	8.7	6.4	5.0	28
22	7.7	16	e21	44	178	174	17	74	33	5.2	e4.4	11
23	7.8	13	e18	34	84	66	17	114	123	4.9	e5.0	8.0
24	7.5	10	e16	30	40	44	19	19	21	25	e4.4	744
25	8.0	406	e17	27	65	35	300	45	14	98	e4.3	355
26	8.9	300	e17	24	67	30	57	313	21	81	e4.0	27
27	7.7	53	e18	24	36	27	27	37	31	18	e3.8	14
28	7.6	35	e19	23	30	25	21	75	20	11	e3.9	9.1
29	7.3	28	e18	23	---	690	19	72	25	21	e3.8	6.7
30	8.0	25	e17	37	---	1340	17	30	12	29	5.2	5.6
31	8.9	---	e18	34	---	127	---	17	---	12	e3.8	---
TOTAL	287.4	1419.6	800	1574	1571	6257	1196	1085	1216.1	751.5	246.5	2350.8
MEAN	9.27	47.3	25.8	50.8	56.1	202	39.9	35.0	40.5	24.2	7.95	78.4
MAX	13	406	119	390	431	1370	300	313	257	187	57	744
MIN	7.3	7.0	16	19	19	25	17	10	8.7	4.9	3.8	4.9
CFSM	.10	.51	.28	.55	.61	2.18	.43	.38	.44	.26	.09	.85
IN.	.12	.57	.32	.63	.63	2.52	.48	.44	.49	.30	.10	.95

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2001, BY WATER YEAR (WY)

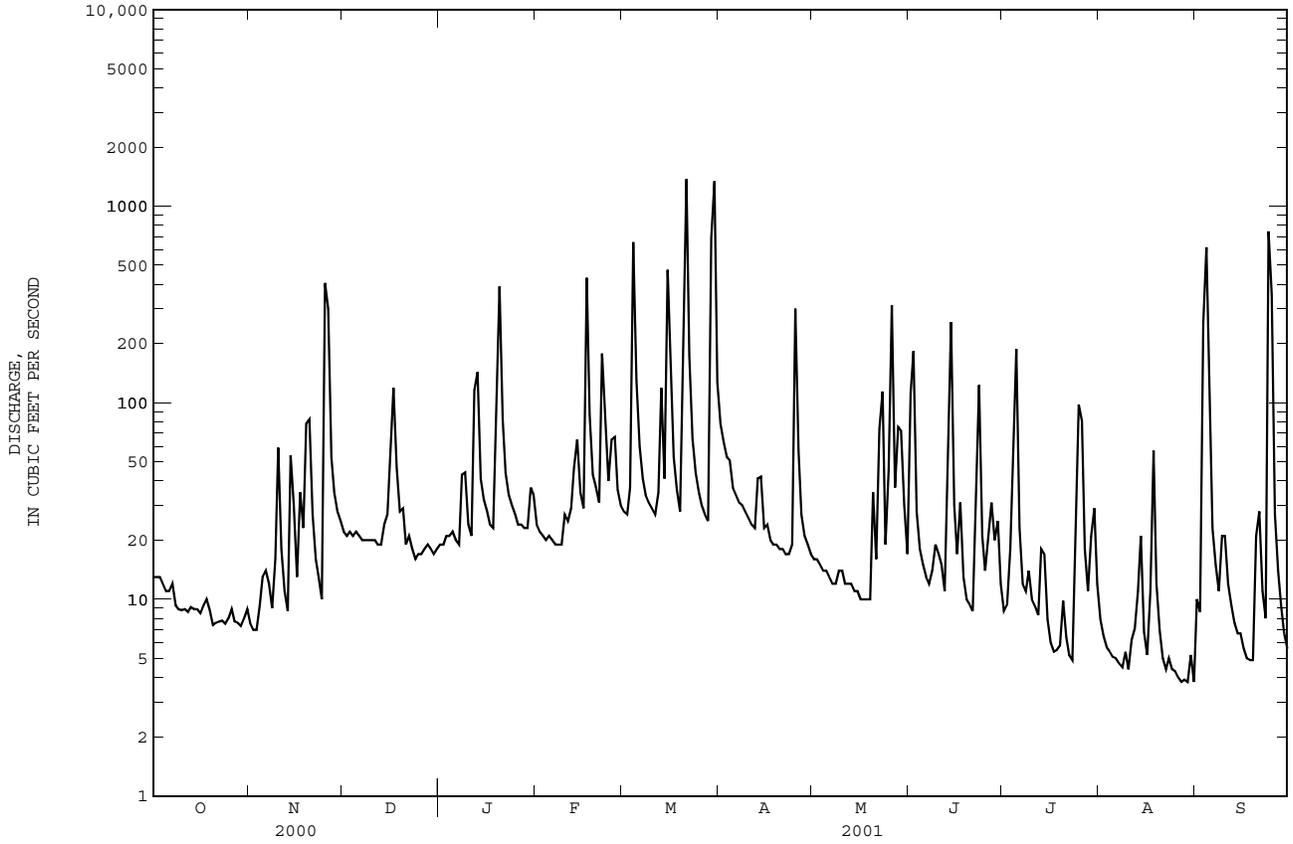
	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
MEAN	102	105	125	230	218	249	126	91.7	74.3	89.7	104	85.8
MAX	540	414	497	550	506	544	304	397	258	400	597	510
(WY)	1991	1986	1984	1978	1984	1980	1998	1975	1992	1997	1994	1987
MIN	6.82	11.5	24.0	18.6	39.0	35.8	21.9	18.2	7.43	7.07	7.95	5.03
(WY)	1979	1982	1981	1981	1978	1981	1981	1981	1986	1977	2001	1983

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1974 - 2001

ANNUAL TOTAL	29365.9	18754.9	
ANNUAL MEAN	80.2	51.4	
HIGHEST ANNUAL MEAN			133
LOWEST ANNUAL MEAN			235
HIGHEST DAILY MEAN	2430	Sep 23	7740
LOWEST DAILY MEAN	5.8	Sep 17	.46
ANNUAL SEVEN-DAY MINIMUM	7.4	Sep 11	.76
MAXIMUM PEAK FLOW			2320
MAXIMUM PEAK STAGE			9.05
INSTANTANEOUS LOW FLOW			NOT DETERMINED
ANNUAL RUNOFF (CFSM)	.87		.56
ANNUAL RUNOFF (INCHES)	11.82		7.55
10 PERCENT EXCEEDS	166		83
50 PERCENT EXCEEDS	22		19
90 PERCENT EXCEEDS	8.7		6.7

e Estimated.  
\* See REMARKS.

02146750 MCALPINE CREEK BELOW MCMULLEN CREEK NEAR PINEVILLE, NC--Continued



SANTEE RIVER BASIN

02146750 MCALPINE CREEK BELOW MCMULLEN CREEK NEAR PINEVILLE, NC--Continued

PRECIPITATION RECORDS

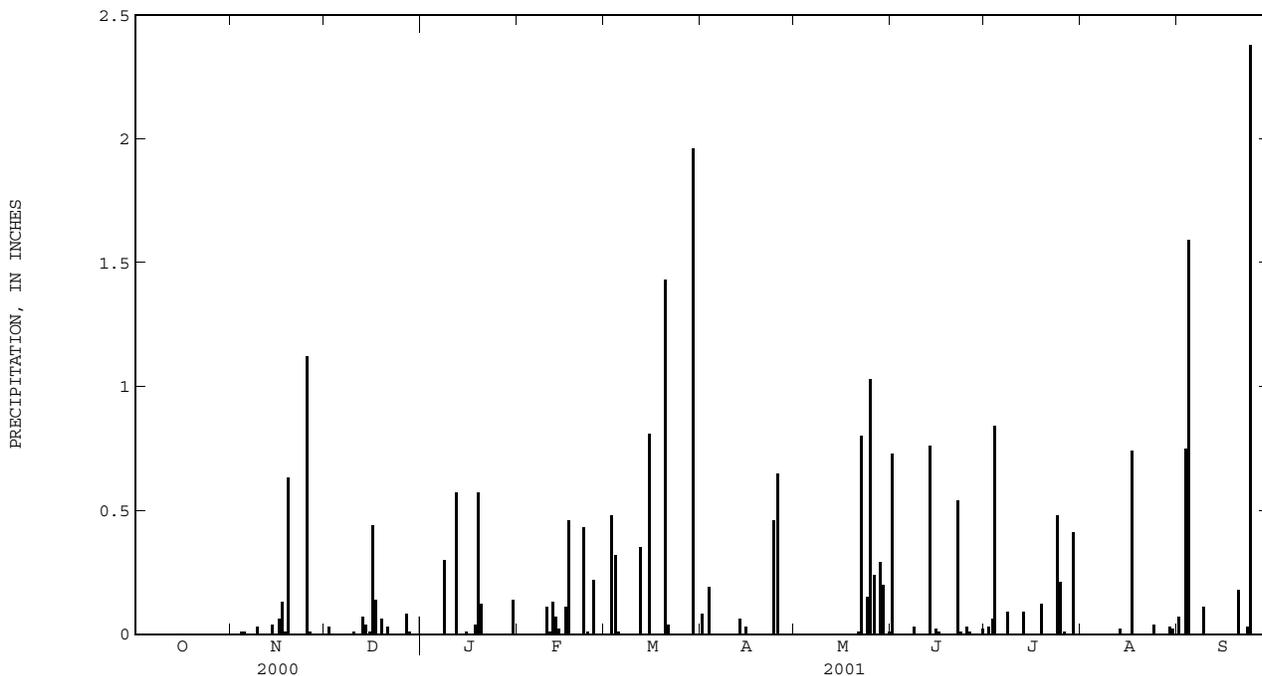
PERIOD OF RECORD.--May 1993 to current year. Records for period May 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.08	.00	.73	.00	.00	.07
2	.00	.00	.03	.00	.00	.00	.00	.00	.00	.03	.00	.00
3	.00	.00	.00	.00	.00	.48	.19	.00	.00	.06	.00	.75
4	.00	.01	.00	.00	.00	.32	.00	.00	.00	.84	.00	1.59
5	.00	.01	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.30	.00	.00	.00	.00	.03	.09	.00	.00
9	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11
10	.00	.00	.01	.00	.11	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.57	.13	.35	.00	.00	.00	.00	.00	.00
13	.00	.00	.07	.00	.07	.00	.06	.00	.76	.09	.02	.00
14	.00	.04	.04	.00	.02	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.01	.01	.00	.81	.03	.00	.02	.00	.00	.00
16	.00	.06	.44	.00	.11	.00	.00	.00	.01	.00	.00	.00
17	.00	.13	.14	.00	.46	.00	.00	.00	.00	.00	.74	.00
18	.00	.01	.00	.04	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.63	.06	.57	.00	.00	.00	.00	.00	.12	.00	.00
20	.00	.00	.00	.12	.00	1.43	.00	.00	.00	.00	.00	.18
21	.00	.00	.03	.00	.00	.04	.00	.01	.00	.00	.00	.00
22	.00	.00	.00	.00	.43	.00	.00	.80	.54	.00	.00	.00
23	.00	.00	.00	.00	.01	.00	.00	.00	.01	.00	.00	.03
24	.00	.00	.00	.00	.00	.00	.46	.15	.00	.48	.04	2.38
25	.00	1.12	.00	.00	.22	.00	.65	1.03	.03	.21	.00	.00
26	.00	.01	.00	.00	.00	.00	.00	.24	.01	.01	.00	.00
27	.00	.00	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.01	.00	.00	.00	.00	.29	.00	.00	.00	.00
29	.00	.00	.00	.00	---	1.96	.00	.20	.00	.41	.03	.00
30	.00	.00	.00	.14	---	.00	.00	.00	.02	.00	.02	.00
31	.00	---	.00	.00	---	.00	---	.01	---	.00	.00	---
TOTAL	0.00	2.05	0.92	1.75	1.57	5.40	1.47	2.73	2.16	2.34	0.85	5.11





Gaging station at Rocky River near Stanfield, North Carolina.

SANTEE RIVER BASIN

0214678175 STEELE CREEK AT SECONDARY ROAD 1441 NEAR PINEVILLE, NC

LOCATION.--Lat 35°06'17", long 80°57'14", Mecklenburg County, Hydrologic Unit 03050103, on right bank on upstream side of culvert on Secondary Road 1441 (Carowinds Blvd.), and 4.5 mi west of Pineville.

DRAINAGE AREA.--6.73 mi<sup>2</sup>.

PERIOD OF RECORD.-- May 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 562.23 ft above sea level, from levels. Radio telemetry at station.

REMARKS.--Records good, except those for estimated daily discharges and Oct. 6-15, which are poor. Minimum discharge for period of record and current water year also occurred Aug. 17, 19, 20, 22, 23, 27, 28, 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.68	.62	.75	.77	1.1	1.6	5.6	.83	9.5	.35	.69	.20
2	.61	.59	1.3	.78	1.0	1.5	4.2	.79	2.7	5.9	.45	.25
3	.57	.59	.73	.85	.99	6.4	5.5	.71	1.1	3.1	.39	13
4	.54	.72	.61	.86	.85	45	3.3	.65	.72	24	.33	28
5	.56	1.1	.61	.79	.89	7.2	2.5	.67	.53	6.6	.34	1.4
6	.79	e.80	e.60	.73	.81	3.9	2.3	.70	.39	1.3	.31	.62
7	.89	e.70	e.60	.67	.76	4.1	2.2	.66	.35	.68	.26	.30
8	.97	e.60	.57	7.2	.77	3.8	1.9	.65	.82	.78	2.2	.23
9	1.0	2.8	.53	2.1	.74	3.7	1.8	.69	.60	.57	.45	.37
10	1.2	2.9	.54	1.1	1.8	3.7	1.7	.63	.40	.74	.15	.36
11	1.1	.71	.54	.91	.83	3.3	1.5	.65	.40	.35	.09	.23
12	1.0	.50	.53	11	3.0	5.8	1.4	.59	.31	.41	.08	.26
13	1.0	1.2	.63	4.8	2.0	5.6	1.8	.63	5.5	1.6	1.1	.19
14	1.0	5.0	3.0	2.5	5.5	4.1	1.5	.60	2.1	.49	.27	.18
15	.99	1.0	.99	2.1	1.8	31	1.5	.75	1.5	.31	.10	.19
16	.71	.64	10	1.8	1.3	8.7	1.5	.51	2.0	.28	.06	.24
17	.72	4.1	17	1.1	29	6.1	1.3	.47	.78	.34	.33	.25
18	.66	.87	2.6	1.6	3.7	7.0	1.5	.47	.48	.37	.18	.24
19	.60	11	2.5	14	2.3	7.9	1.4	.41	.27	3.5	.06	.21
20	.62	5.0	1.6	14	1.9	90	1.2	.58	.27	1.4	.05	3.3
21	.70	1.5	1.1	3.7	1.6	76	1.1	3.6	.26	.56	.06	.40
22	.79	.94	1.3	2.1	13	8.8	1.2	12	3.8	.39	.06	.31
23	.77	.68	.88	1.7	3.9	5.2	1.1	2.6	2.1	.45	.06	.80
24	.90	.60	.93	1.4	2.3	3.7	1.1	1.1	.73	17	.29	97
25	.86	27	.87	1.3	6.4	2.8	12	1.9	.80	3.4	.08	2.7
26	.86	5.1	.89	1.1	3.4	2.4	2.0	4.8	.35	2.9	.06	.81
27	1.3	2.1	1.1	1.1	2.2	2.1	1.2	1.0	.29	1.0	.06	.43
28	.87	1.3	1.7	1.0	1.8	1.9	1.0	6.5	6.3	.67	.05	.31
29	e.70	.90	.99	.97	---	250	.84	3.9	1.8	13	.07	.29
30	e.70	.79	.87	2.4	---	27	.81	1.2	.56	3.3	.06	.40
31	e.60	---	.79	1.3	---	8.0	---	.62	---	1.1	.07	---
TOTAL	25.26	82.35	57.65	87.73	95.64	638.3	67.95	51.86	47.71	96.84	8.81	153.47
MEAN	.81	2.74	1.86	2.83	3.42	20.6	2.26	1.67	1.59	3.12	.28	5.12
MAX	1.3	27	17	14	29	250	12	12	9.5	24	2.2	97
MIN	.54	.50	.53	.67	.74	1.5	.81	.41	.26	.28	.05	.18
CFSM	.12	.41	.28	.42	.51	3.06	.34	.25	.24	.46	.04	.76
IN.	.14	.46	.32	.48	.53	3.53	.38	.29	.26	.54	.05	.85

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

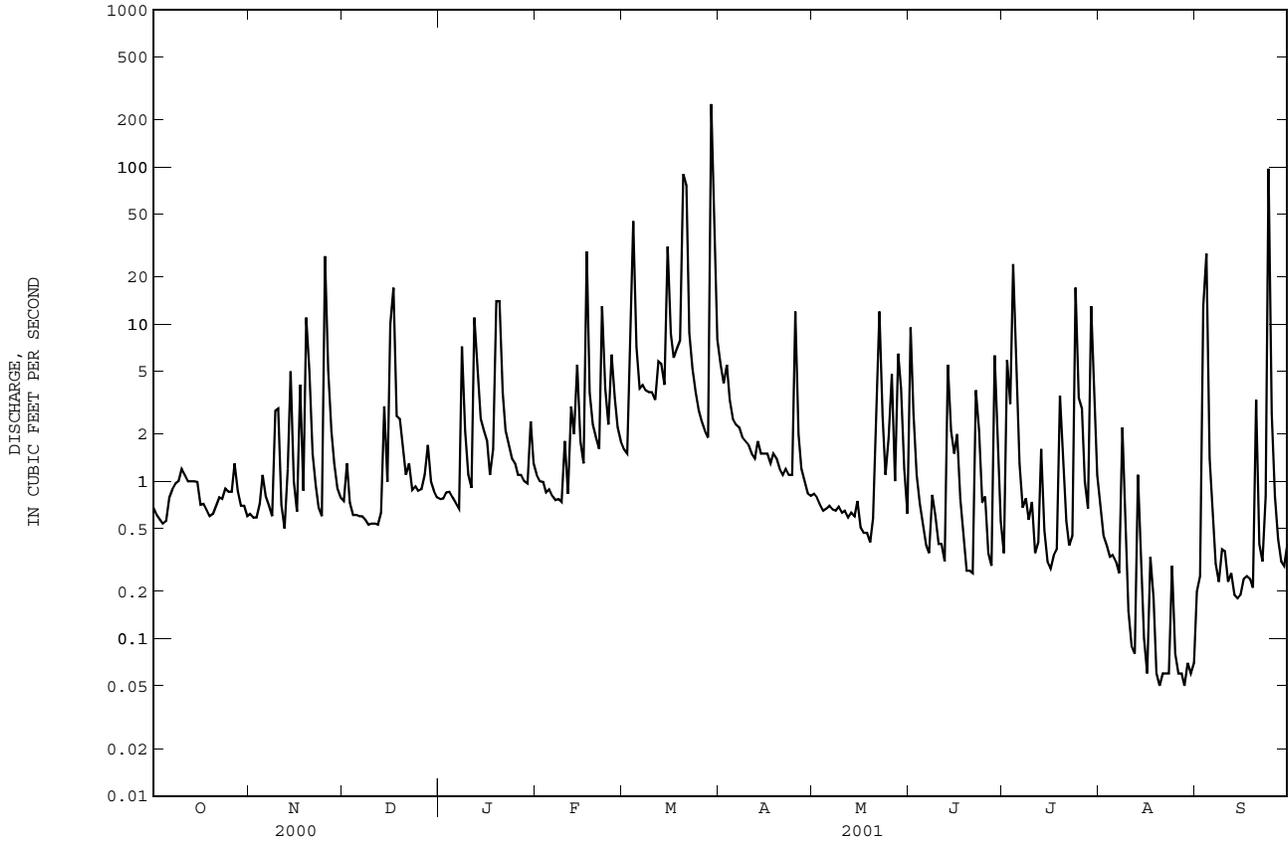
	1998	1999	2000	2001
MEAN	5.93	2.17	2.77	8.68
MAX	15.4	2.74	4.66	14.2
(WY)	2000	2001	1999	1999
MIN	.81	1.84	1.81	2.83
(WY)	2001	1999	2000	2001

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1998 - 2001

ANNUAL TOTAL	1858.67	1413.57		
ANNUAL MEAN	5.08	3.87	4.80	
HIGHEST ANNUAL MEAN			6.24	2000
LOWEST ANNUAL MEAN			3.87	2001
HIGHEST DAILY MEAN	142	Feb 14	250	Mar 29
LOWEST DAILY MEAN	.27	Aug 18	.05	Aug 20
ANNUAL SEVEN-DAY MINIMUM	.31	Aug 15	.06	Aug 25
MAXIMUM PEAK FLOW			922	Mar 29
MAXIMUM PEAK STAGE			7.99	Mar 29
INSTANTANEOUS LOW FLOW			.04*	Aug 16
ANNUAL RUNOFF (CFSM)	.75		.58	.71
ANNUAL RUNOFF (INCHES)	10.27		7.81	9.68
10 PERCENT EXCEEDS	10		6.2	8.0
50 PERCENT EXCEEDS	1.2		.97	1.1
90 PERCENT EXCEEDS	.50		.29	.39

e Estimated.  
\* See REMARKS.

0214678175 STEELE CREEK AT SECONDARY ROAD 1441 NEAR PINEVILLE, NC--Continued



SANTEE RIVER BASIN

02146900 TWELVE MILE CREEK NEAR WAXHAW, NC

LOCATION.--Lat 34°57'08", long 80°45'21", Union County, Hydrologic Unit 03050103, on left bank at downstream side of bridge on State Highway 16, 680 ft downstream of West Fork Twelve Mile Creek, and 2.5 mi north of Waxhaw.

DRAINAGE AREA.--76.5 mi<sup>2</sup>.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-60. October 1960 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 489.04 ft above sea level. Prior to Mar. 13, 1962, water-stage recorder at site 20 ft upstream, Mar. 13, 1962 to June 4, 1997, water-stage recorder at site 100 ft upstream at same datum. Satellite telemetry at station.

REMARKS.--Records poor. No flow also occurred Oct. 6, 1968, Oct. 7-15, 1970, Oct. 1-22, 1983 and Aug. 26, 2001.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1900 is 23.6 ft, Sept. 7, 1949, from floodmarks. No flow observed on Oct. 6, 1954.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	.40	6.0	5.5	19	19	37	5.4	11	1.2	.52	.02
2	2.7	.36	6.0	5.4	19	18	27	5.3	23	.97	.29	.01
3	2.2	.42	6.3	5.2	18	18	22	5.0	7.9	1.4	.22	e.20
4	1.9	.52	6.8	5.2	17	111	23	4.6	5.3	12	.18	32
5	1.5	.61	6.4	5.2	17	69	19	4.4	4.0	20	.12	16
6	1.3	.70	6.6	5.4	17	36	16	4.2	3.2	7.8	.07	4.2
7	1.3	.76	7.0	5.3	17	26	14	3.9	2.8	3.4	.08	1.6
8	1.3	.80	7.0	5.7	17	22	13	3.8	2.5	1.9	.07	.76
9	1.2	1.2	7.1	6.6	17	20	12	4.2	2.4	1.2	.17	.53
10	1.2	1.5	7.1	6.6	17	19	11	4.1	2.4	.98	.19	e.17
11	1.4	1.4	7.3	6.0	18	18	9.9	4.0	2.3	.82	2.0	e.14
12	1.4	1.2	7.9	8.3	18	18	9.3	3.9	2.1	.68	3.8	e.11
13	1.4	1.2	8.3	22	23	22	9.1	3.8	2.3	4.0	.71	e.08
14	1.4	1.5	9.3	11	e22	23	8.6	3.6	11	9.8	.25	e.06
15	1.4	1.7	9.6	7.8	e22	204	8.2	3.2	6.4	3.5	.21	.05
16	1.4	1.6	24	6.6	21	141	8.2	2.9	4.0	1.4	.22	.04
17	1.3	1.6	69	5.6	140	57	7.8	3.1	12	.82	.14	.03
18	1.2	1.6	21	5.1	70	37	8.2	3.2	5.7	.59	.12	.02
19	1.3	1.6	9.3	5.2	32	29	7.8	3.1	3.4	.48	.14	.01
20	1.2	5.3	7.6	144	25	101	7.6	2.9	2.2	.35	.20	.23
21	1.2	3.4	6.5	49	23	711	7.5	2.7	1.7	.28	.17	6.7
22	1.0	1.6	6.0	19	30	137	7.2	3.3	1.6	.24	.10	4.3
23	1.0	.89	5.6	17	50	64	7.0	3.8	4.5	.49	.06	.98
24	.94	.70	5.4	19	28	e40	7.0	3.6	4.7	.48	.06	58
25	.92	6.2	5.1	21	24	e32	28	3.2	2.5	6.0	.03	33
26	.88	23	4.9	19	25	e28	22	6.2	2.4	6.5	.00	5.7
27	.77	10	5.1	19	23	25	10	6.6	6.6	3.2	.04	2.8
28	.69	6.9	6.2	18	21	23	8.2	7.9	4.2	1.3	.07	1.2
29	.62	5.9	6.3	18	---	255	6.9	10	2.4	.83	.06	1.0
30	.49	5.7	6.0	19	---	564	5.8	7.1	1.4	.60	.07	1.3
31	.43	---	5.7	19	---	71	---	4.9	---	.62	.04	---
TOTAL	40.44	90.26	302.4	514.7	790	2958	388.3	137.9	147.9	93.83	10.40	171.24
MEAN	1.30	3.01	9.75	16.6	28.2	95.4	12.9	4.45	4.93	3.03	.34	5.71
MAX	3.5	23	69	144	140	711	37	10	23	20	3.8	58
MIN	.43	.36	4.9	5.1	17	18	5.8	2.7	1.4	.24	.00	.01
CFSM	.02	.04	.13	.22	.37	1.25	.17	.06	.06	.04	.00	.07
IN.	.02	.04	.15	.25	.38	1.44	.19	.07	.07	.05	.01	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2001, BY WATER YEAR (WY)

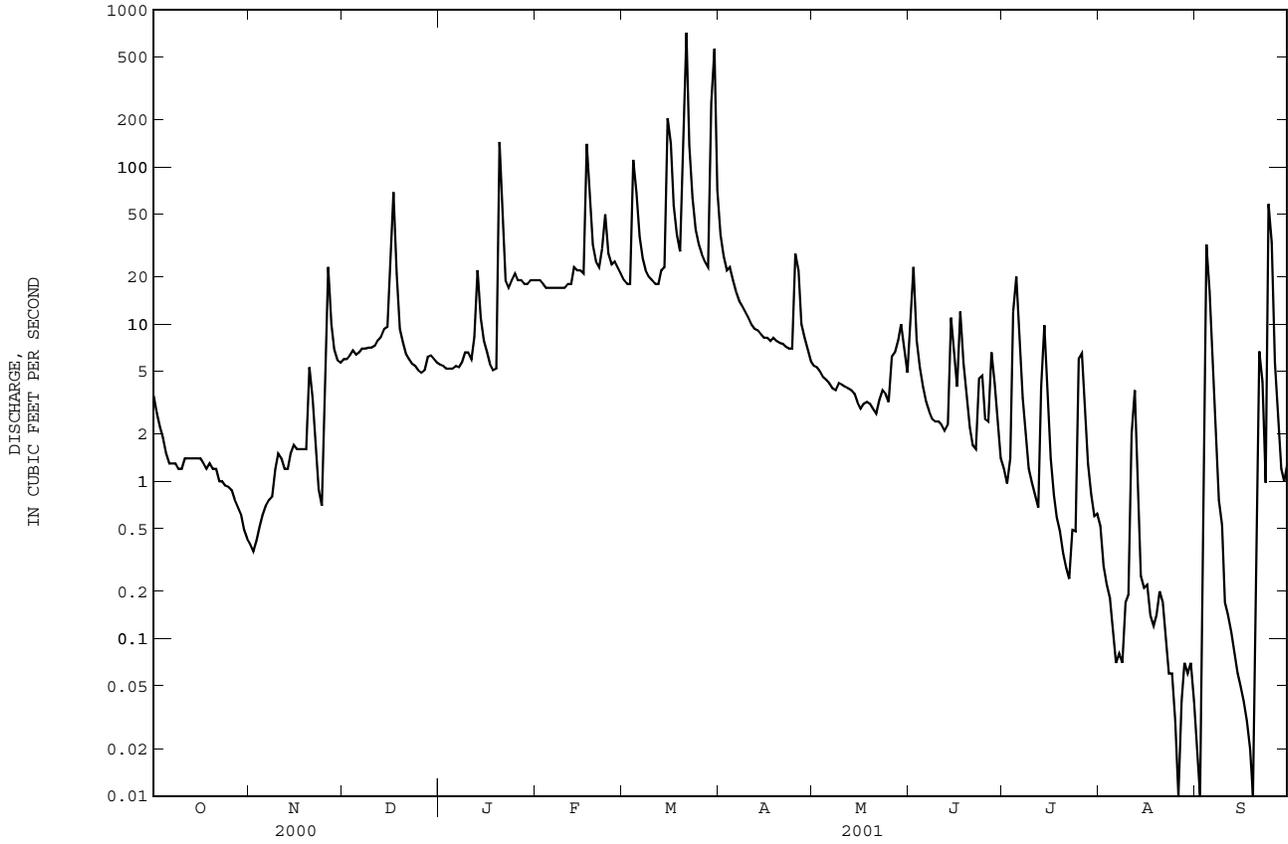
	MEAN	50.7	35.9	63.4	133	159	162	91.3	43.2	32.1	35.3	41.9	30.0
MAX	372	161	261	331	351	425	289	178	111	238	318	161	
(WY)	1991	1986	1984	1978	1990	1980	1973	1989	1992	1978	1995	1987	
MIN	.39	2.18	5.21	11.5	22.7	25.8	12.9	4.45	1.26	2.33	.34	.15	
(WY)	1984	1962	2000	1981	1986	1985	2001	2001	1986	1986	2001	1968	

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1961 - 2001

ANNUAL TOTAL	11030.50	5645.37	
ANNUAL MEAN	30.1	15.5	72.7
HIGHEST ANNUAL MEAN			150
LOWEST ANNUAL MEAN			15.5
HIGHEST DAILY MEAN	890	Feb 14	711
LOWEST DAILY MEAN	.36	Nov 2	.00
ANNUAL SEVEN-DAY MINIMUM	.46	Oct 30	.04
MAXIMUM PEAK FLOW			1290
MAXIMUM PEAK STAGE			10.33
INSTANTANEOUS LOW FLOW			.00*
ANNUAL RUNOFF (CFSM)	.39		.20
ANNUAL RUNOFF (INCHES)	5.36		2.75
10 PERCENT EXCEEDS	60		25
50 PERCENT EXCEEDS	7.0		5.1
90 PERCENT EXCEEDS	1.4		.22

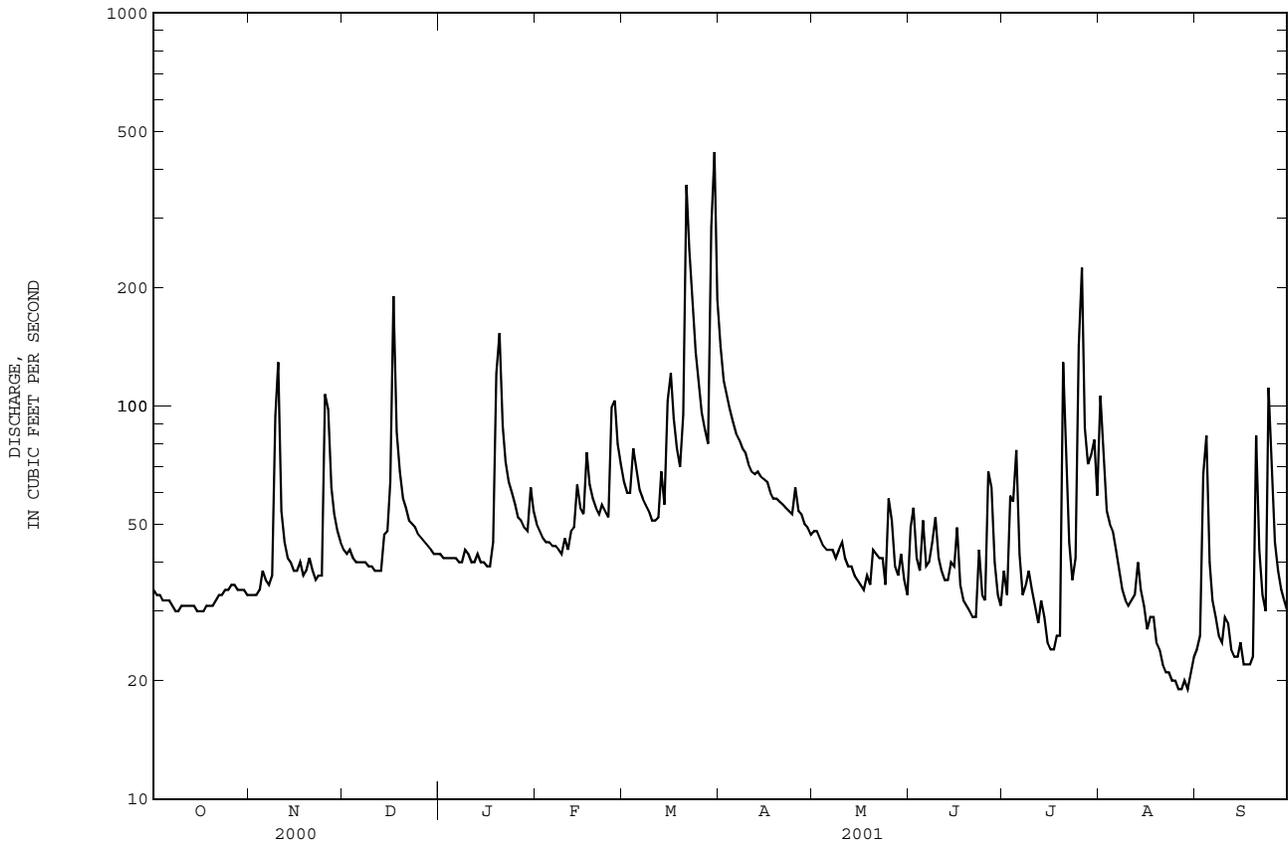
e Estimated.  
\* See REMARKS.

02146900 TWELVE MILE CREEK NEAR WAXHAW, NC--Continued





02149000 COVE CREEK NEAR LAKE LURE, NC--Continued



SANTEE RIVER BASIN

02150495 SECOND BROAD RIVER NEAR LOGAN, NC

LOCATION.--Lat 35°24'15", long 81°52'20", Rutherford County, Hydrologic Unit 03050105, on right bank 30 ft downstream of bridge on Secondary Road 1538, 2.2 mi southeast of Logan, and 2.7 mi upstream from Catheys Creek.

DRAINAGE AREA.--86.2 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 840 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges and those above 600 ft<sup>3</sup>/s, which are fair. Maximum discharge for period of record and current water year from rating curve extended above 600 ft<sup>3</sup>/s by logarithmic plotting. Minimum discharge for period of record and current water year also occurred Aug. 30, 31, 2000 and Aug. 24, 26, 27, 28, 29, 30, 2001.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	26	33	e39	48	68	157	42	42	34	54	21
2	26	26	33	e39	46	63	97	42	50	31	46	22
3	26	26	33	e39	44	62	115	40	34	290	41	498
4	26	26	32	e39	45	75	106	39	30	85	41	213
5	26	28	32	e38	44	77	95	38	29	81	41	98
6	26	27	31	38	43	70	89	37	27	52	37	64
7	25	27	31	38	42	65	83	36	30	42	33	52
8	24	28	31	43	41	60	79	36	31	41	30	45
9	23	42	30	42	42	58	74	37	39	44	28	40
10	24	83	30	38	46	54	70	36	32	39	27	41
11	25	41	29	39	42	53	67	34	29	34	27	39
12	25	35	31	41	46	54	65	33	27	31	25	34
13	25	34	33	40	47	69	65	32	26	35	25	32
14	25	34	40	39	55	59	63	30	30	32	24	34
15	25	33	41	39	53	104	61	30	38	28	22	35
16	24	33	51	39	52	157	60	30	49	26	22	31
17	24	35	227	38	87	112	55	29	31	25	23	30
18	24	33	96	42	78	90	53	30	27	25	26	30
19	24	33	71	82	67	79	51	28	24	35	22	30
20	24	34	59	152	61	91	50	28	23	75	20	90
21	25	32	54	89	57	328	50	36	23	41	19	55
22	25	31	51	71	59	244	49	35	24	34	18	43
23	26	31	e48	62	57	165	48	34	32	30	18	38
24	26	31	e46	58	53	123	48	29	25	31	19	211
25	27	55	45	53	89	101	54	43	27	56	18	172
26	27	71	42	49	110	87	49	43	111	113	18	92
27	27	45	43	49	86	77	46	33	80	96	18	68
28	27	40	42	46	76	72	45	32	43	83	18	58
29	27	37	41	46	---	158	43	36	38	71	17	50
30	27	35	40	55	---	460	41	31	34	80	19	46
31	28	---	e40	53	---	208	---	28	---	60	20	---
TOTAL	789	1092	1486	1575	1616	3543	2028	1067	1085	1780	816	2312
MEAN	25.5	36.4	47.9	50.8	57.7	114	67.6	34.4	36.2	57.4	26.3	77.1
MAX	28	83	227	152	110	460	157	43	111	290	54	498
MIN	23	26	29	38	41	53	41	28	23	25	17	21
CFSM	.30	.42	.56	.59	.67	1.33	.78	.40	.42	.67	.31	.89
IN.	.34	.47	.64	.68	.70	1.53	.88	.46	.47	.77	.35	1.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

	1999	2000	2001	1999	2000	2001	1999	2000	2001	1999	2000	2001
MEAN	47.4	55.6	62.2	78.9	86.5	109	94.7	57.9	43.9	46.7	27.7	45.7
MAX	72.6	72.9	78.7	115	128	120	111	78.2	57.5	57.4	32.1	77.1
(WY)	1999	1999	1999	1999	1999	2000	2000	1999	1999	2001	1999	2001
MIN	25.5	36.4	47.9	50.8	57.7	92.9	67.6	34.4	36.2	30.7	24.7	29.0
(WY)	2001	2001	2001	2001	2001	1999	2001	2001	2001	2000	2000	1999

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

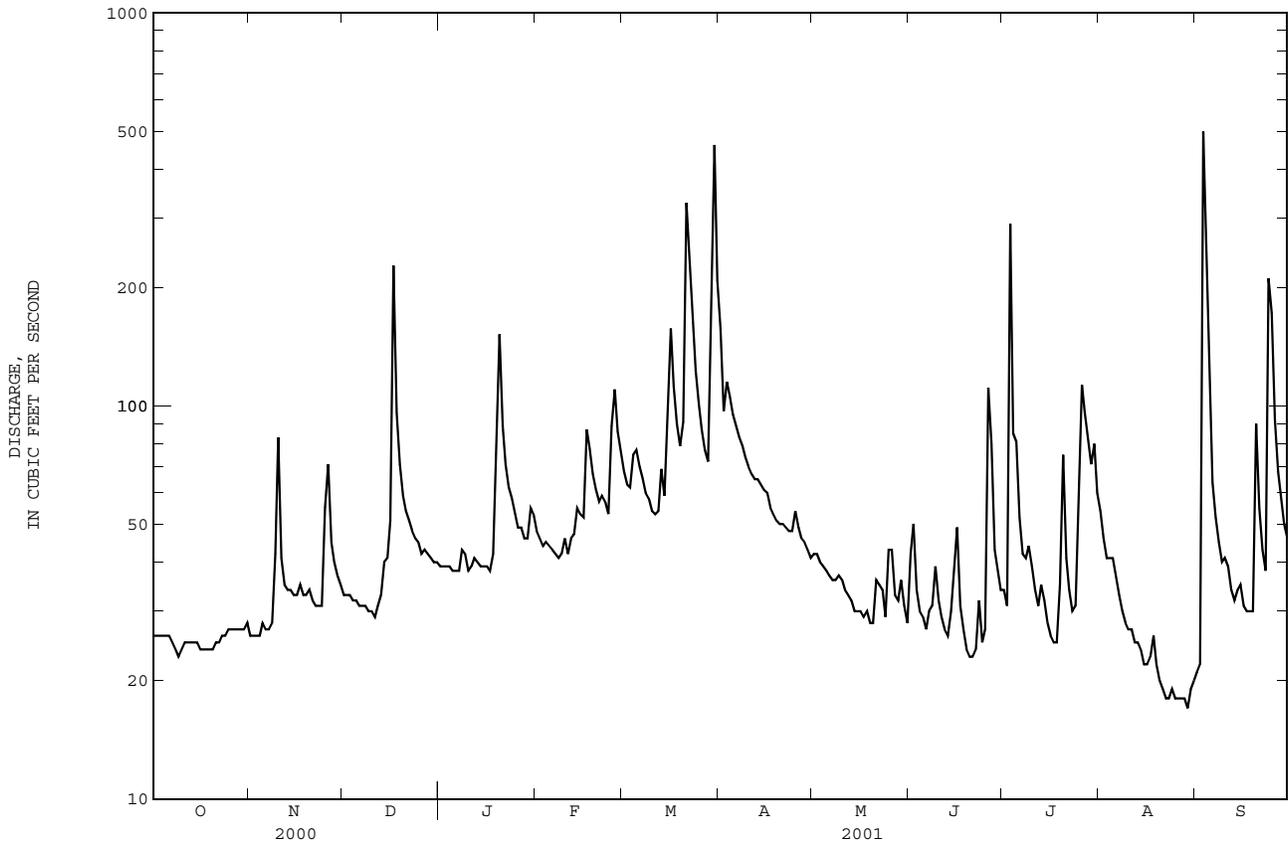
FOR 2001 WATER YEAR

WATER YEARS 1999 - 2001

ANNUAL TOTAL	20452	19189	
ANNUAL MEAN	55.9	52.6	62.9
HIGHEST ANNUAL MEAN			75.9
LOWEST ANNUAL MEAN			52.6
HIGHEST DAILY MEAN	1030	Mar 20	498
LOWEST DAILY MEAN	17	Aug 30	17
ANNUAL SEVEN-DAY MINIMUM	19	Aug 25	18
MAXIMUM PEAK FLOW			1340*
MAXIMUM PEAK STAGE			7.94
INSTANTANEOUS LOW FLOW			17*
ANNUAL RUNOFF (CFSM)	.65	.61	.73
ANNUAL RUNOFF (INCHES)	8.83	8.28	9.91
10 PERCENT EXCEEDS	93	88	104
50 PERCENT EXCEEDS	42	39	52
90 PERCENT EXCEEDS	24	25	26

e Estimated.  
\* See REMARKS.

02150495 SECOND BROAD RIVER NEAR LOGAN, NC--Continued



SANTEE RIVER BASIN

02150495 SECOND BROAD RIVER NEAR LOGAN, NC--Continued

PRECIPITATION RECORDS

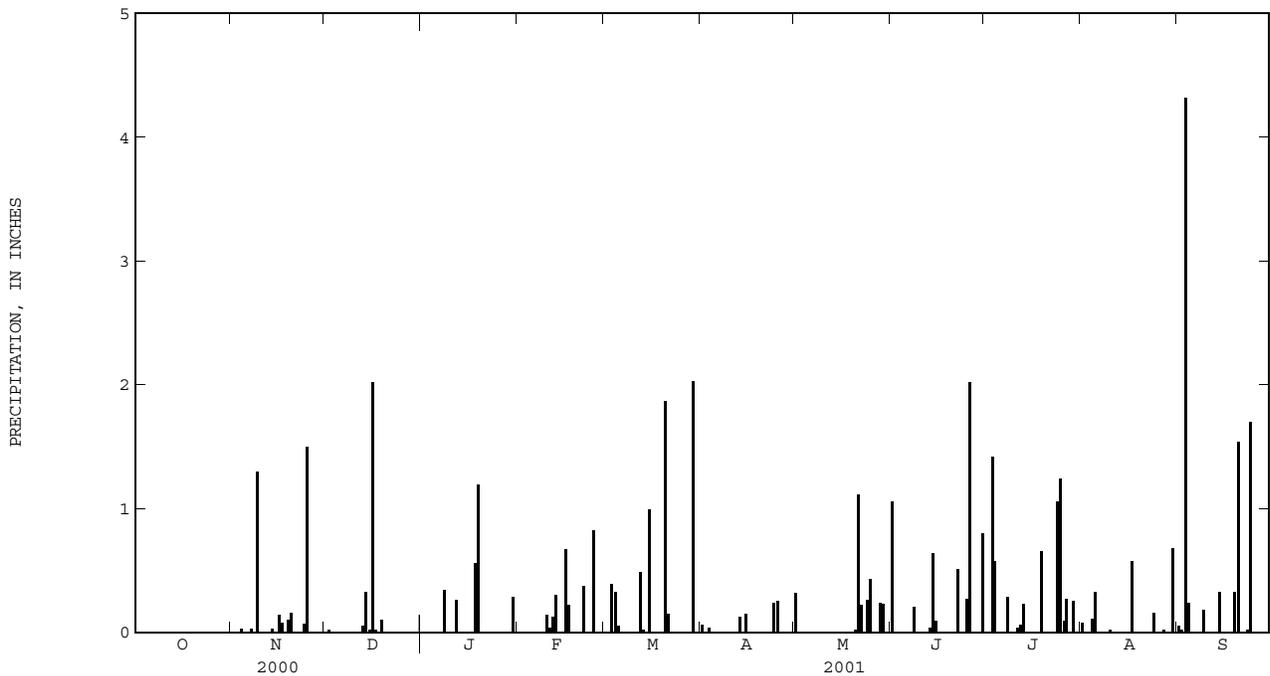
PERIOD OF RECORD.--November 2000 to September 2001.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at site.

REMARKS.--Gage is operated in cooperation with North Carolina Department of Environment and Natural Resources. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	.00	.00	.00	.00	.00	.06	.32	1.06	.00	.08	.05
2	---	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.02
3	---	.00	.00	.00	.00	.39	.04	.00	.00	1.42	.00	4.32
4	---	.03	.00	.00	.00	.33	.00	.00	.00	.58	.11	.24
5	---	.00	.00	.00	.00	.05	.00	.00	.00	.00	.33	.00
6	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	---	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	---	.00	.00	.34	.00	.00	.00	.00	.21	.29	.00	.00
9	---	1.30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18
10	---	.00	.00	.00	.14	.00	.00	.00	.00	.00	.02	.00
11	---	.00	.00	.00	.04	.00	.00	.00	.00	.04	.00	.00
12	---	.00	.00	.26	.13	.49	.00	.00	.00	.06	.00	.00
13	---	.00	.05	.00	.30	.02	.13	.00	.04	.23	.01	.00
14	---	.03	.33	.00	.01	.00	.00	.00	.64	.00	.00	.33
15	---	.00	.02	.00	.00	.99	.15	.00	.09	.00	.00	.00
16	---	.14	2.02	.00	.67	.01	.00	.00	.01	.00	.00	.00
17	---	.08	.02	.01	.22	.01	.00	.00	.00	.00	.58	.00
18	---	.00	.00	.56	.00	.00	.00	.00	.00	.00	.00	.00
19	---	.10	.10	1.19	.00	.00	.00	.01	.00	.66	.00	.33
20	---	.16	.00	.00	.00	1.87	.00	.02	.00	.00	.00	1.54
21	---	.00	.00	.00	.00	.15	.00	1.11	.00	.00	.00	.00
22	---	.00	.00	.00	.37	.00	.00	.22	.51	.00	.00	.00
23	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
24	---	.07	.00	.00	.01	.00	.24	.26	.00	1.06	.16	1.70
25	---	1.50	.00	.00	.82	.00	.25	.43	.27	1.24	.00	.00
26	---	.00	.00	.00	.00	.00	.00	.00	2.02	.09	.00	.00
27	---	.00	.00	.00	.00	.00	.00	.00	.00	.27	.02	.00
28	---	.00	.00	.00	.00	.00	.00	.24	.00	.01	.01	.00
29	---	.00	.00	.00	---	2.03	.00	.23	.00	.25	.00	.00
30	---	.00	.00	.29	---	.00	.00	.00	.80	.00	.68	.00
31	---	---	.00	.00	---	.01	---	.00	---	.00	.01	---
TOTAL	---	3.44	2.56	2.65	2.71	6.35	0.87	2.84	5.65	6.20	2.01	8.73





Gaging station at Mallard Creek below Stony Creek near Harrisburg, North Carolina.

## SANTEE RIVER BASIN

02151500 BROAD RIVER NEAR BOILING SPRINGS, NC

LOCATION.--Lat 35°12'39", long 81°41'52", Cleveland County, Hydrologic Unit 03050105, on right bank 0.5 mi upstream from Sandy Run Creek, 3 mi downstream of Second Broad River, and 3.5 mi southwest of Boiling Springs.

DRAINAGE AREA.--875 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1925 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area. WDR NC-88: 1986(m).

GAGE.--Water-stage recorder. Datum of gage is 639.92 ft above sea level (Duke Power Company bench mark). Prior to July 20, 1934, at site 500 ft upstream at 640.92 ft. Satellite and telephone telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Considerable diurnal fluctuation and some regulation caused by power plants upstream from station. Maximum discharge and gage height for period of record from former site, present datum.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	328	348	560	347	579	888	1560	427	536	425	643	347
2	299	509	698	354	749	900	1620	480	910	403	787	284
3	293	523	381	332	660	1040	1320	657	605	1250	657	655
4	297	859	343	351	414	581	1440	641	430	873	664	1610
5	281	352	629	581	395	592	1180	517	480	1420	570	753
6	264	308	525	672	403	799	1140	433	520	1010	454	438
7	315	440	496	389	405	522	1120	405	426	714	452	354
8	304	456	361	365	408	678	781	444	471	559	515	416
9	269	514	458	401	646	727	644	462	487	540	489	333
10	269	1210	358	482	779	645	886	487	430	485	433	304
11	286	1180	341	499	427	454	919	480	396	442	450	331
12	294	432	577	529	387	447	906	457	390	398	391	325
13	292	357	809	586	463	524	1120	439	374	771	387	300
14	317	395	966	487	469	755	837	384	404	544	410	376
15	308	543	781	378	618	895	543	436	457	446	471	327
16	284	489	779	363	650	1330	533	403	417	397	488	302
17	280	714	1720	396	961	1200	821	433	445	349	333	267
18	276	807	1540	491	707	693	898	391	357	375	393	373
19	274	389	1220	608	505	596	735	412	378	404	430	480
20	274	387	973	1760	478	888	511	405	320	425	335	694
21	400	372	999	1040	639	3270	817	532	332	1220	263	685
22	312	294	1040	735	762	2460	495	1080	366	642	313	476
23	284	376	1000	576	907	1950	436	652	378	521	321	334
24	348	345	604	737	751	1690	457	552	313	407	316	570
25	399	676	436	529	575	1140	816	531	374	835	369	1970
26	352	886	408	595	920	930	624	670	651	1340	307	1080
27	350	929	396	613	1270	1370	838	507	1070	1180	284	656
28	424	786	398	436	1030	1070	781	441	627	964	313	619
29	328	651	483	425	---	1620	444	495	470	770	360	565
30	295	642	719	535	---	5240	405	560	461	637	361	372
31	294	---	399	560	---	2700	---	447	---	647	334	---
TOTAL	9590	17169	21397	17152	17957	38594	25627	15660	14275	21393	13293	16596
MEAN	309	572	690	553	641	1245	854	505	476	690	429	553
MAX	424	1210	1720	1760	1270	5240	1620	1080	1070	1420	787	1970
MIN	264	294	341	332	387	447	405	384	313	349	263	267
CFSM	.35	.65	.79	.63	.73	1.42	.98	.58	.54	.79	.49	.63
IN.	.41	.73	.91	.73	.76	1.64	1.09	.67	.61	.91	.57	.71

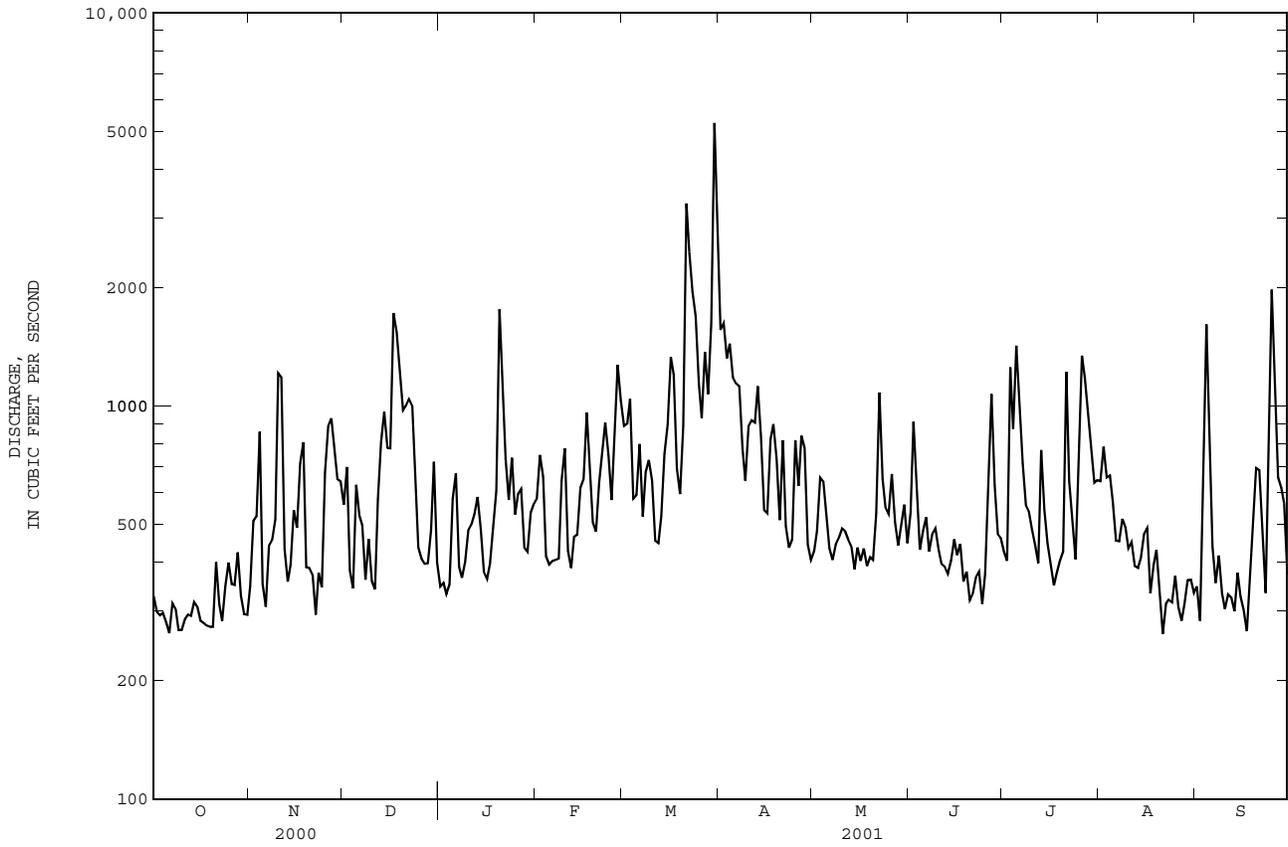
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2001, BY WATER YEAR (WY)

	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	
MEAN	1265	1222	1439	1757	1905	2097	1922	1535	1301	1094	1212	1055																				
MAX	5499	3275	2875	4750	4304	4868	4525	3441	2812	2505	6893	3100																				
(WY)	1965	1993	1984	1937	1960	1975	1936	1973	1973	1949	1928	1945																				
MIN	237	407	449	422	641	783	821	505	420	351	295	288																				
(WY)	1955	1955	1956	1956	2001	1988	1986	2001	1988	1986	1956	1954																				

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1925 - 2001
ANNUAL TOTAL	272634	228703	
ANNUAL MEAN	745	627	1484
HIGHEST ANNUAL MEAN			2328
LOWEST ANNUAL MEAN			627
HIGHEST DAILY MEAN	7160	Mar 21	63900
LOWEST DAILY MEAN	264	Oct 6	105
ANNUAL SEVEN-DAY MINIMUM	284	Oct 5	185
MAXIMUM PEAK FLOW		6160	73300*
MAXIMUM PEAK STAGE		5.67	24.30*
INSTANTANEOUS LOW FLOW		190	40
ANNUAL RUNOFF (CFSM)	.85	.72	1.70
ANNUAL RUNOFF (INCHES)	11.59	9.72	23.04
10 PERCENT EXCEEDS	1370	1070	2490
50 PERCENT EXCEEDS	573	487	1160
90 PERCENT EXCEEDS	312	317	557

\* See REMARKS.

02151500 BROAD RIVER NEAR BOILING SPRINGS, NC--Continued



SANTEE RIVER BASIN

02152100 FIRST BROAD RIVER NEAR CASAR, NC

LOCATION.--Lat 35°29'35", long 81°40'56", Cleveland County, Hydrologic Unit 03050105, on right bank 570 ft upstream from bridge on Secondary Road 1530, 0.5 mi upstream from No Business Creek, and 4.0 mi southwest of Casar.

DRAINAGE AREA.--60.5 mi<sup>2</sup>.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-56, March 1959 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 899.87 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for current water year also occurred Aug. 23, 24, 25, 26, 27, 28, 29, 30, 31.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1916 and August 1940 reached a stage of about 25 ft, from information by local resident. A discharge of 14.5 ft<sup>3</sup>/s was measured on Sept. 21, 1955.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	20	20	e25	28	e41	92	22	23	16	24	12
2	18	20	20	e24	27	e36	71	22	28	16	21	13
3	17	20	20	e24	26	e37	63	21	18	16	19	141
4	17	20	19	e24	26	e38	60	21	17	19	21	55
5	17	22	20	e24	26	e45	54	20	16	22	21	29
6	17	21	19	e24	26	39	48	19	21	18	19	21
7	17	21	19	e24	26	37	45	19	22	15	17	19
8	16	22	19	e24	26	35	42	19	18	16	16	17
9	16	31	19	26	32	33	40	19	24	21	16	16
10	16	45	19	26	37	32	38	19	19	18	15	17
11	17	23	19	25	42	31	37	18	17	e16	15	16
12	17	20	19	25	43	32	36	17	16	e15	14	15
13	17	19	19	25	38	45	37	17	15	e19	14	14
14	17	20	23	24	36	38	36	16	17	18	15	14
15	16	19	24	24	34	69	33	16	24	15	14	15
16	16	19	30	24	32	105	33	16	32	14	13	14
17	16	21	171	26	64	70	30	15	19	14	13	14
18	16	20	56	25	57	52	29	16	16	13	16	13
19	16	20	41	55	44	44	29	15	15	16	14	13
20	17	21	e33	97	38	51	28	15	15	31	13	34
21	18	20	e31	51	35	242	28	17	15	19	12	22
22	18	19	e29	40	36	158	27	19	14	17	12	17
23	19	19	e29	35	34	100	26	21	21	15	11	16
24	19	19	e29	33	32	72	26	17	16	16	11	50
25	19	37	e28	31	51	59	30	22	18	50	12	45
26	20	48	e27	29	e65	50	27	24	32	73	11	24
27	20	27	27	28	e53	45	25	18	33	35	11	20
28	20	23	26	27	e45	42	24	17	20	33	12	18
29	20	22	e26	27	---	170	23	19	18	34	11	17
30	20	21	e25	32	---	388	22	17	17	42	11	16
31	20	---	e25	31	---	134	---	15	---	30	12	---
TOTAL	547	699	931	959	1059	2370	1139	568	596	712	456	747
MEAN	17.6	23.3	30.0	30.9	37.8	76.5	38.0	18.3	19.9	23.0	14.7	24.9
MAX	20	48	171	97	65	388	92	24	33	73	24	141
MIN	16	19	19	24	26	31	22	15	14	13	11	12
CFSM	.29	.39	.50	.51	.63	1.26	.63	.30	.33	.38	.24	.41
IN.	.34	.43	.57	.59	.65	1.46	.70	.35	.37	.44	.28	.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2001, BY WATER YEAR (WY)

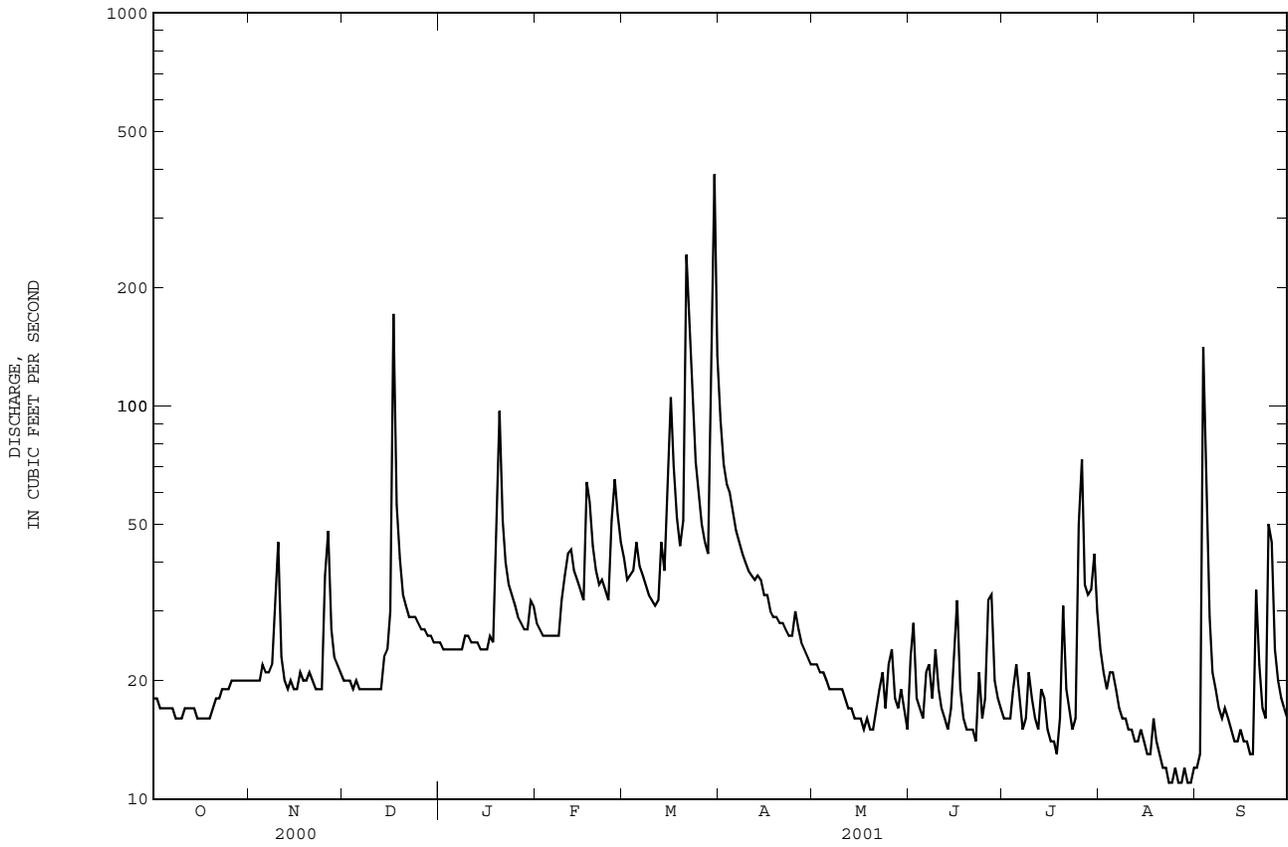
	MEAN	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	74.0	67.9	82.9	105	122	138	124	96.1	77.8	61.2	66.2	53.9
MAX	318	191	185	273	286	386	291	254	168	138	262	132
(WY)	1965	1978	1962	1995	1960	1975	1983	1975	1975	1984	1970	1959
MIN	17.6	23.3	26.6	30.9	37.8	44.6	38.0	18.3	19.9	19.2	14.7	22.6
(WY)	2001	2001	1989	2001	2001	1988	2001	2001	2001	1988	2001	2000

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1959 - 2001

ANNUAL TOTAL	13806	10783	
ANNUAL MEAN	37.7	29.5	89.0
HIGHEST ANNUAL MEAN			139
LOWEST ANNUAL MEAN			29.5
HIGHEST DAILY MEAN	740	Mar 20	3130
LOWEST DAILY MEAN	13	Aug 17	11
ANNUAL SEVEN-DAY MINIMUM	14	Aug 14	11
MAXIMUM PEAK FLOW			851
MAXIMUM PEAK STAGE			4.07
INSTANTANEOUS LOW FLOW			11*
ANNUAL RUNOFF (CFSM)	.62	.49	1.47
ANNUAL RUNOFF (INCHES)	8.49	6.63	19.99
10 PERCENT EXCEEDS	64	46	146
50 PERCENT EXCEEDS	26	21	63
90 PERCENT EXCEEDS	16	15	33

e Estimated.  
\* See REMARKS.

02152100 FIRST BROAD RIVER NEAR CASAR, NC--Continued



SANTEE RIVER BASIN

351954080493445 CRN02

LOCATION.--Lat 35°19'54", long 80°49'34", Mecklenburg County, Hydrologic Unit 03050103, Fire Station 28, Old Statesville Road, Charlotte, NC.

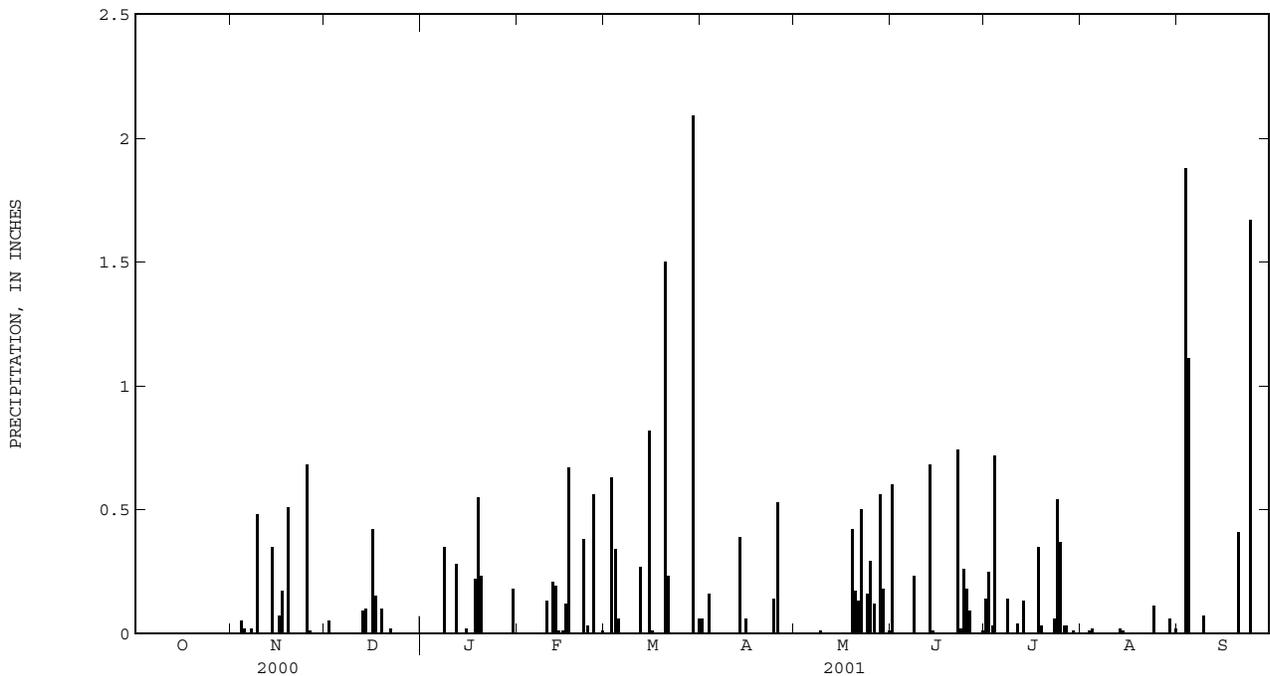
PERIOD OF RECORD.--October 1992 to current year. Records for period October 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.06	.00	.60	.14	.00	.00
2	.00	.00	.05	.00	.00	.00	.00	.00	.00	.25	.00	.00
3	.00	.00	.00	.00	.00	.63	.16	.00	.00	.03	.01	1.88
4	.00	.05	.00	.00	.00	.34	.00	.00	.00	.72	.02	1.11
5	.00	.02	.00	.00	.00	.06	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.35	.00	.00	.00	.00	.23	.14	.00	.00
9	.00	.48	.00	.00	.00	.00	.00	.01	.00	.00	.00	.07
10	.00	.00	.00	.00	.13	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00
12	.00	.00	.00	.28	.21	.27	.00	.00	.00	.00	.00	.00
13	.00	.00	.09	.00	.19	.00	.39	.00	.68	.13	.02	.00
14	.00	.35	.10	.00	.01	.00	.00	.00	.01	.00	.01	.00
15	.00	.00	.00	.02	.01	.82	.06	.00	.00	.00	.00	.00
16	.00	.07	.42	.00	.12	.01	.00	.00	.00	.00	.00	.00
17	.00	.17	.15	.00	.67	.00	.00	.00	.00	.00	---	.00
18	.00	.00	.00	.22	.00	.00	.00	.00	.00	.35	---	.00
19	.00	.51	.10	.55	.00	.00	.00	.42	.00	.03	---	.00
20	.00	.00	.00	.23	.00	1.50	.00	.17	.00	.00	---	.41
21	.00	.00	.00	.00	.00	.23	.00	.13	.00	.00	---	.00
22	.00	.00	.02	.00	.38	.00	.00	.50	.74	.00	---	.00
23	.00	.00	.00	.00	.03	.00	.00	.00	.02	.06	---	.00
24	.00	.00	.00	.00	.00	.00	.14	.16	.26	.54	.11	1.67
25	.00	.68	.00	.00	.56	.00	.53	.29	.18	.37	.00	.00
26	.00	.01	.00	.00	.00	.00	.00	.12	.09	.03	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00
28	.00	.00	.00	.00	.01	.00	.00	.56	.00	.00	.00	.00
29	.00	.00	.00	.00	---	2.09	.00	.18	.00	.01	.06	.00
30	.00	.00	.00	.18	---	.00	.00	.00	.01	.00	.00	.00
31	.00	---	.00	.00	---	.06	---	.01	---	.00	.02	---
TOTAL	0.00	2.36	0.93	1.83	2.32	6.01	1.34	2.55	2.82	2.87	---	5.14



SANTEE RIVER BASIN

351132080562345 CRN04

LOCATION.--Lat 35°11'32", long 80°56'23", Mecklenburg County, Hydrologic Unit 03050103, Fire Station 30, Belle Oaks Road, Charlotte, NC.

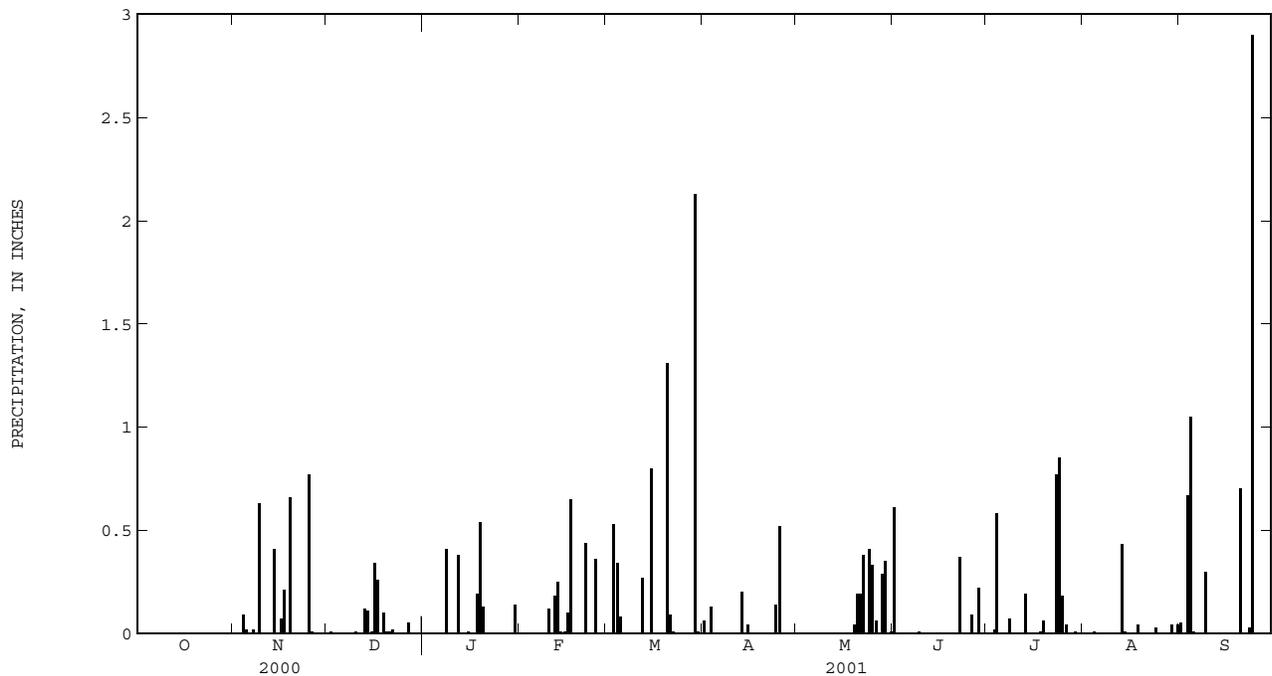
PERIOD OF RECORD.--October 1992 to current year. Records for period October 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.06	.00	.61	.00	.00	.05
2	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.53	.13	.00	.00	.02	.00	.67
4	.00	.09	.00	.00	.00	.34	.00	.00	.00	.58	.01	1.05
5	.00	.02	.00	.00	.00	.08	.00	.00	.00	.00	.00	.01
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.41	.00	.00	.00	.00	.00	.07	.00	.00
9	.00	.63	.00	.00	.00	.00	.00	.00	.01	.00	.00	.30
10	.00	.00	.01	.00	.12	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.38	.18	.27	.00	.00	.00	.00	.00	.00
13	.00	.00	.12	.00	.25	.00	.20	.00	.00	.19	.43	.00
14	.00	.41	.11	.00	.01	.00	.00	.00	.00	.00	.01	.00
15	.00	.00	.01	.01	.01	.80	.04	.00	.00	.00	.00	.00
16	.00	.07	.34	.00	.10	.00	.00	.00	.00	.00	.00	.00
17	.00	.21	.26	.00	.65	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.19	.00	.00	.00	.00	.00	.01	.04	.00
19	.00	.66	.10	.54	.00	.00	.00	.04	.00	.06	.00	.00
20	.00	.00	.01	.13	.00	1.31	.00	.19	.00	.00	.00	.70
21	.00	.00	.01	.00	.00	.09	.00	.19	.00	.00	.00	.00
22	.00	.00	.02	.00	.44	.01	.00	.38	.37	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.77	.00	.03
24	.00	.00	.00	.00	.00	.00	.14	.41	.00	.85	.03	2.90
25	.00	.77	.00	.00	.36	.00	.52	.33	.00	.18	.00	.00
26	.00	.01	.00	.00	.00	.00	.00	.06	.09	.04	.00	.00
27	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.29	.22	.00	.00	.00
29	.00	.00	.00	.00	---	2.13	.00	.35	.00	.01	.04	.00
30	.00	.00	.00	.14	---	.01	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.01	---	.00	.04	---
TOTAL	0.00	2.89	1.05	1.80	2.12	5.57	1.09	2.25	1.30	2.78	0.60	5.71



SANTEE RIVER BASIN

351642080533445 CRN05

LOCATION.--Lat 35°16'42", long 80°53'34", Mecklenburg County, Hydrologic Unit 03050103, CMUD Administration Building, Brookshire Boulevard, Charlotte, NC.

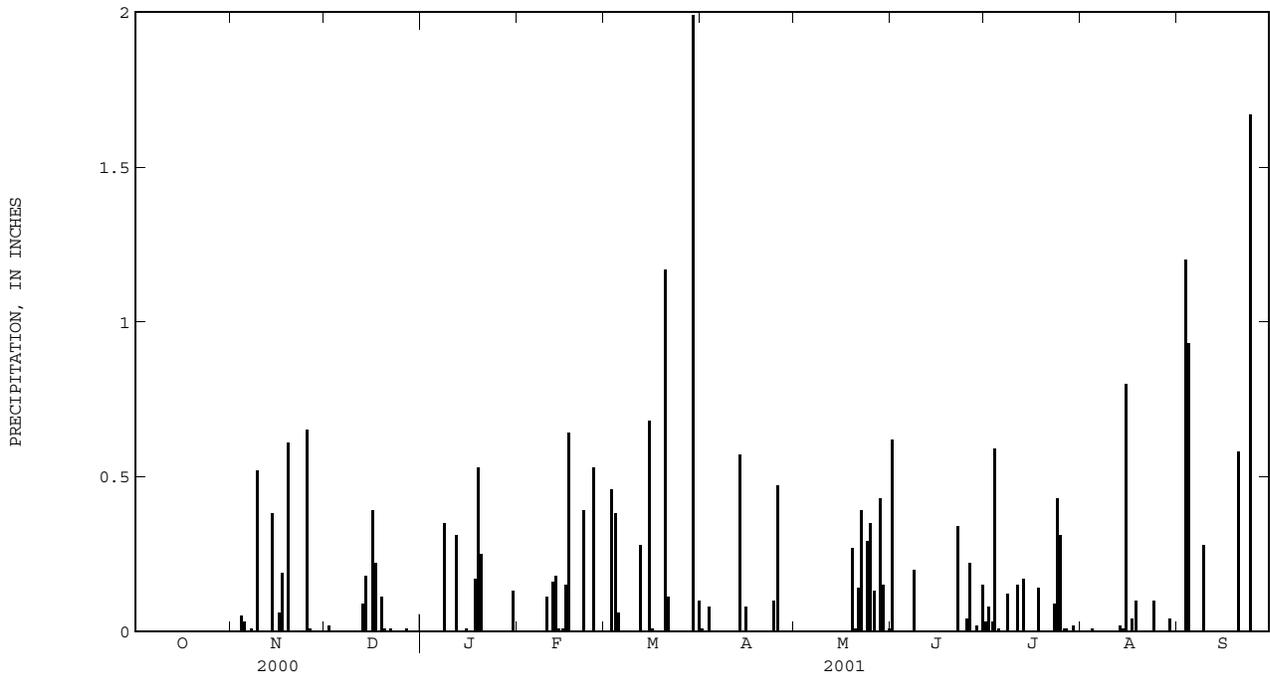
PERIOD OF RECORD.--October 1992 to current year. Records for period October 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.01	.00	.62	.03	.00	.00
2	.00	.00	.02	.00	.00	.00	.00	.00	.00	.08	.00	.00
3	.00	.00	.00	.00	.00	.46	.08	.00	.00	.03	.00	1.20
4	.00	.05	.00	.00	.00	.38	.00	.00	.00	.59	.01	.93
5	.00	.03	.00	.00	.00	.06	.00	.00	.00	.01	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.35	.00	.00	.00	.00	.20	.12	.00	.00
9	.00	.52	.00	.00	.00	.00	.00	.00	.00	.00	.00	.28
10	.00	.00	.00	.00	.11	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.15	.00	.00
12	.00	.00	.00	.31	.16	.28	.00	.00	.00	.00	.00	.00
13	.00	.00	.09	.00	.18	.00	.57	.00	.00	.17	.02	.00
14	.00	.38	.18	.00	.01	.00	.00	.00	.00	.00	.01	.00
15	.00	.00	.00	.01	.01	.68	.08	.00	.00	.00	.80	.00
16	.00	.06	.39	.00	.15	.01	.00	.00	.00	.00	.00	.00
17	.00	.19	.22	.00	.64	.00	.00	.00	.00	.00	.04	.00
18	.00	.00	.00	.17	.00	.00	.00	.00	.00	.14	.10	.00
19	.00	.61	.11	.53	.00	.00	.00	.27	.00	.00	.00	.00
20	.00	.00	.01	.25	.00	1.17	.00	.01	.00	.00	.00	.58
21	.00	.00	.00	.00	.00	.11	.00	.14	.00	.00	.00	.00
22	.00	.00	.01	.00	.39	.00	.00	.39	.34	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00
24	.00	.00	.00	.00	.00	.00	.10	.29	.00	.43	.10	1.67
25	.00	.65	.00	.00	.53	.00	.47	.35	.04	.31	.00	.00
26	.00	.01	.00	.00	.00	.00	.00	.13	.22	.01	.00	.00
27	.00	.00	.01	.00	.00	.00	.00	.00	.00	.01	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.43	.02	.00	.00	.00
29	.00	.00	.00	.00	---	1.99	.00	.15	.00	.02	.04	.00
30	.00	.00	.00	.13	---	.00	.00	.00	.15	.00	.00	.00
31	.00	---	.00	.00	---	.10	---	.01	---	.00	.00	---
TOTAL	0.00	2.51	1.04	1.75	2.18	5.24	1.31	2.17	1.59	2.19	1.12	4.66



SANTEE RIVER BASIN

350351080454145 CRN07

LOCATION.--Lat 35°03'51", long 80°45'41", Mecklenburg County, Hydrologic Unit 03050103, Fire Station 9, McKee Road, Charlotte, NC.

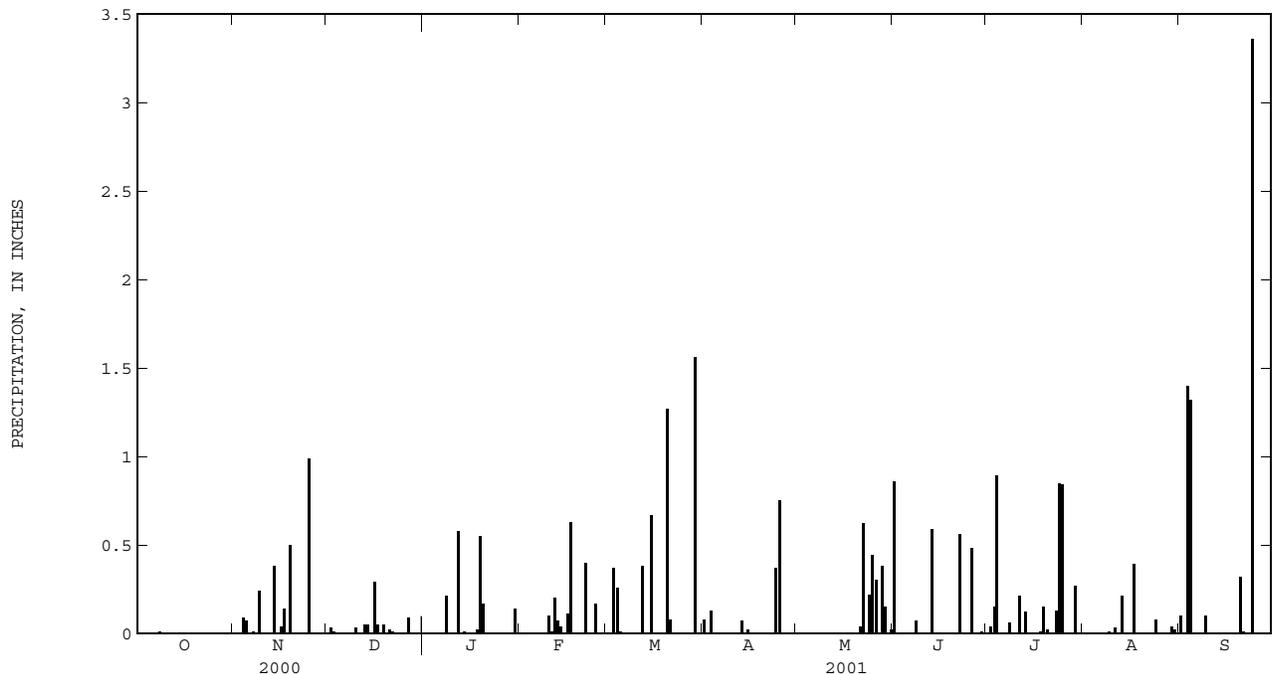
PERIOD OF RECORD.--October 1992 to current year. Records for period October 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.08	.00	.86	.00	.00	.10
2	.00	.00	.03	.00	.00	.00	.00	.00	.00	.04	.00	.00
3	.00	.00	.01	.00	.00	.37	.13	.00	.00	.15	.00	1.40
4	.00	.09	.00	.00	.00	.26	.00	.00	.00	.89	.00	1.32
5	.00	.07	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.01	.00	.00	.21	.00	.00	.00	.00	.07	.06	.00	.00
9	.00	.24	.00	.00	.00	.00	.00	.00	.00	.00	.01	.10
10	.00	.00	.03	.00	.10	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.01	.00	.00	.00	.00	.21	.03	.00
12	.00	.00	.00	.58	.20	.38	.00	.00	.00	.00	.00	.00
13	.00	.00	.05	.00	.07	.00	.07	.00	.59	.12	.21	.00
14	.00	.38	.05	.01	.04	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.67	.02	.00	.00	.00	.00	.00
16	.00	.04	.29	.00	.11	.00	.00	.00	.00	.00	.00	.00
17	.00	.14	.05	.00	.63	.00	.00	.00	.00	.00	.39	.00
18	.00	.00	.00	.02	.00	.00	.00	.00	.00	.01	.00	.00
19	.00	.50	.05	.55	.00	.00	.00	.00	.00	.15	.00	.00
20	.00	.00	.00	.17	.00	1.27	.00	.00	.00	.02	.00	.32
21	.00	.00	.02	.00	.00	.08	.00	.04	.00	.00	.00	.01
22	.00	.00	.01	.00	.40	.00	.00	.62	.56	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13	.00	.00
24	.00	.00	.00	.00	.00	.00	.37	.22	.00	.85	.08	3.36
25	.00	.99	.00	.00	.17	.00	.75	.44	.00	.84	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.30	.48	.00	.00	.00
27	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.38	.00	.00	.00	.00
29	.00	.00	.00	.00	---	1.56	.00	.15	.01	.27	.04	.00
30	.00	.00	.00	.14	---	.00	.00	.00	.00	.00	.02	.00
31	.00	---	.00	.00	---	.00	---	.02	---	.00	.00	---
TOTAL	0.01	2.46	0.68	1.68	1.73	4.60	1.42	2.17	2.57	3.74	0.78	6.61



SANTEE RIVER BASIN

350314080484945 CRN08

LOCATION.--Lat 35°03'20", long 80°48'51", Mecklenburg County, Hydrologic Unit 03050103, St. Matthews Catholic Church, Ballantyne Commons Parkway, Charlotte, NC.

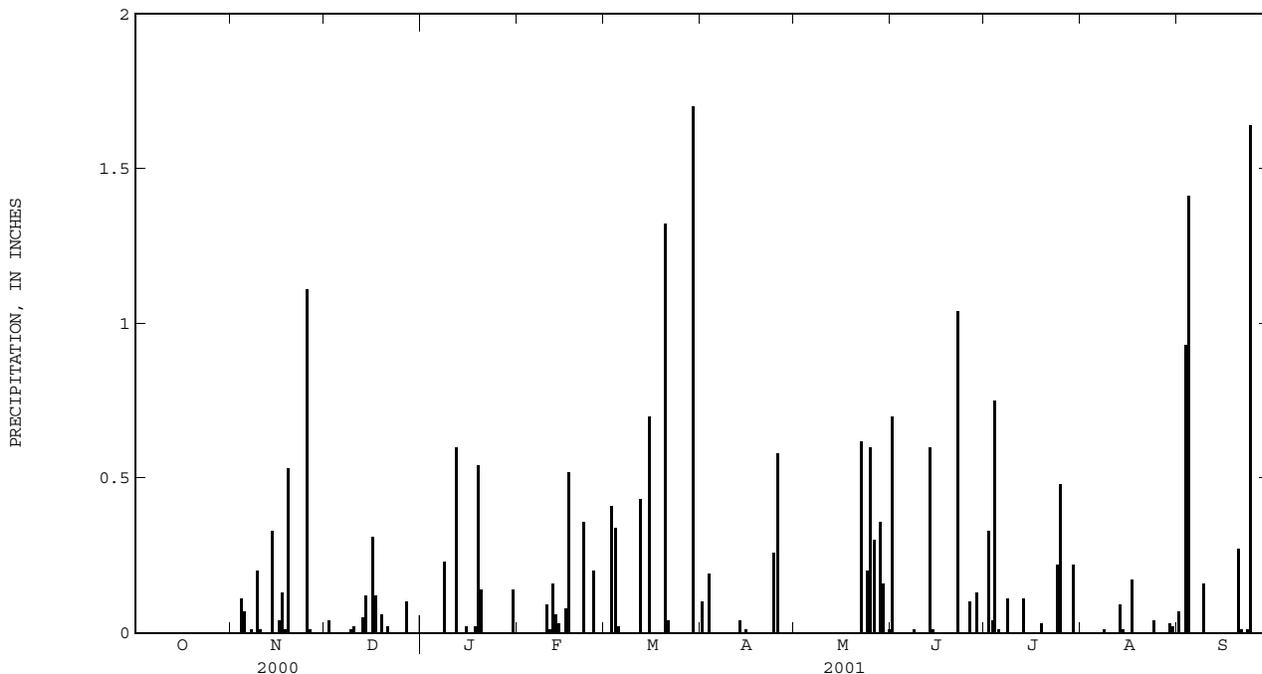
PERIOD OF RECORD.--October 1992 to current year. Records for period October 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273. Records for October 1992 to August 4, 1994 at site McAlpine Creek Elementary School, Charlotte, NC (station 350458080493245).

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site. Prior to August 16, 2001, gage located on Elm Lane at intersection of Providence Road West, Charlotte.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.10	.00	.70	.00	.00	.07
2	.00	.00	.04	.00	.00	.00	.00	.00	.00	.33	.00	.00
3	.00	.00	.00	.00	.00	.41	.19	.00	.00	.04	.00	.93
4	.00	.11	.00	.00	.00	.34	.00	.00	.00	.75	.00	1.41
5	.00	.07	.00	.00	.00	.02	.00	.00	.00	.01	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.23	.00	.00	.00	.00	.01	.11	.01	.00
9	.00	.20	.01	.00	.00	.00	.00	.00	.00	.00	.00	.16
10	.00	.01	.02	.00	.09	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.60	.16	.43	.00	.00	.00	.00	.00	.00
13	.00	.00	.05	.00	.06	.00	.04	.00	.60	.11	.09	.00
14	.00	.33	.12	.00	.03	.00	.00	.00	.01	.00	.01	.00
15	.00	.00	.00	.02	.00	.70	.01	.00	.00	.00	---	.00
16	.00	.04	.31	.00	.08	.00	.00	.00	.00	.00	---	.00
17	.00	.13	.12	.00	.52	.00	.00	.00	.00	.00	.17	.00
18	.00	.01	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.53	.06	.54	.00	.00	.00	.00	.00	.03	.00	.00
20	.00	.00	.00	.14	.00	1.32	.00	.00	.00	.00	.00	.27
21	.00	.00	.02	.00	.00	.04	.00	.00	.00	.00	.00	.01
22	.00	.00	.00	.00	.36	.00	.00	.62	1.04	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
24	.00	.00	.00	.00	.00	.00	.26	.20	.00	.22	.04	1.64
25	.00	1.11	.00	.00	.20	.00	.58	.60	.00	.48	.00	.00
26	.00	.01	.00	.00	.00	.00	.00	.30	.10	.00	.00	.00
27	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.36	.13	.00	.00	.00
29	.00	.00	.00	.00	---	1.70	.00	.16	.00	.22	.03	.00
30	.00	.00	.00	.14	---	.00	.00	.00	.00	.00	.02	.00
31	.00	---	.00	.00	---	.00	---	.01	---	.00	.00	---
TOTAL	0.00	2.56	0.85	1.69	1.51	4.96	1.18	2.25	2.59	2.30	---	4.50



SANTEE RIVER BASIN

351414080463245 CRN09

LOCATION.--Lat 35°14'14", long 80°46'32", Mecklenburg County, Hydrologic Unit 03050103, Fire Station 15, Frontenac Road, Charlotte, NC.

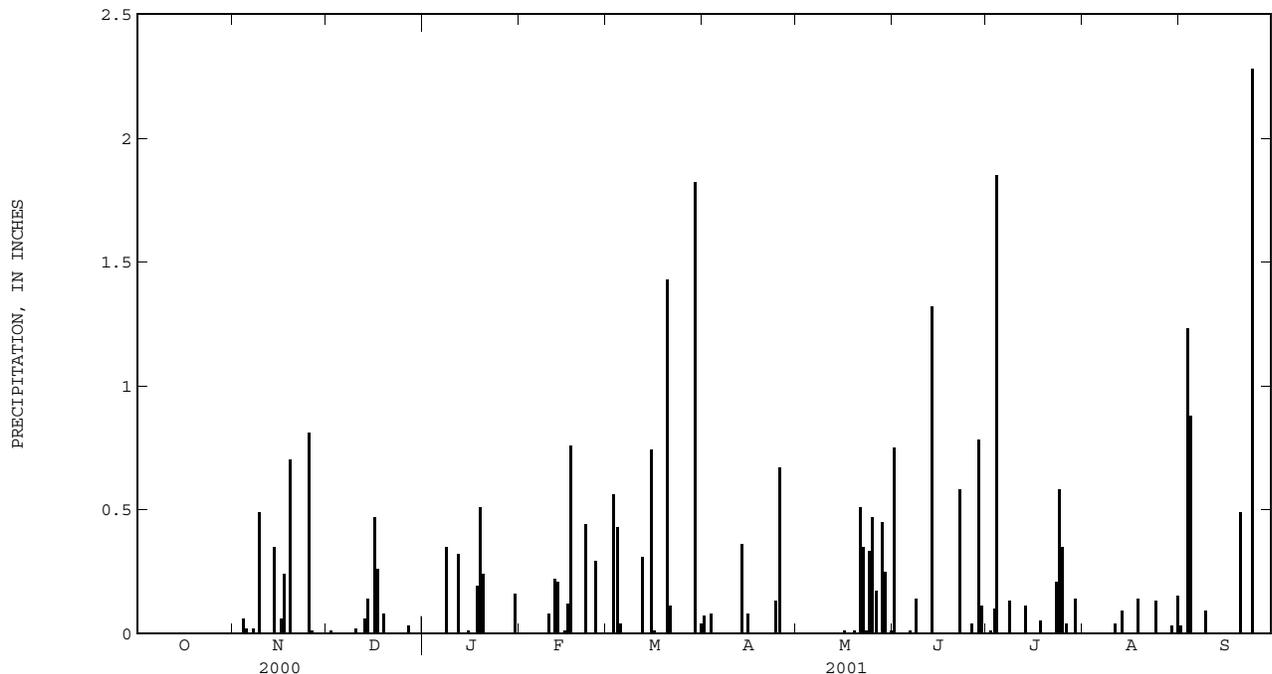
PERIOD OF RECORD.--November 1992 to current year. Records for period November 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.07	.00	.75	.00	.00	.03
2	.00	.00	.01	.00	.00	.00	.00	.00	.00	.01	.00	.00
3	.00	.00	.00	.00	.00	.56	.08	.00	.00	.10	.00	1.23
4	.00	.06	.00	.00	.00	.43	.00	.00	.00	1.85	.00	.88
5	.00	.02	.00	.00	.00	.04	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
7	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.35	.00	.00	.00	.00	.14	.13	.00	.00
9	.00	.49	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
10	.00	.00	.02	.00	.08	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00
12	.00	.00	.00	.32	.22	.31	.00	.00	.00	.00	.00	.00
13	.00	.00	.06	.00	.21	.00	.36	.00	1.32	.11	.09	.00
14	.00	.35	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.01	.01	.74	.08	.00	.00	.00	.00	.00
16	.00	.06	.47	.00	.12	.01	.00	.01	.00	.00	.00	.00
17	.00	.24	.26	.00	.76	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.19	.00	.00	.00	.00	.00	.05	.14	.00
19	.00	.70	.08	.51	.00	.00	.00	.01	.00	.00	.00	.00
20	.00	.00	.00	.24	.00	1.43	.00	.00	.00	.00	.00	.49
21	.00	.00	---	.00	.00	.11	.00	.51	.00	.00	.00	.00
22	.00	.00	---	.00	.44	.00	.00	.35	.58	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.01	.00	.21	.00	.00
24	.00	.00	.00	.00	.00	.00	.13	.33	.00	.58	.13	2.28
25	.00	.81	.00	.00	.29	.00	.67	.47	.00	.35	.00	.00
26	.00	.01	.00	.00	.00	.00	.00	.17	.04	.04	.00	.00
27	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.45	.78	.00	.00	.00
29	.00	.00	.00	.00	---	1.82	.00	.25	.11	.14	.03	.00
30	.00	.00	.00	.16	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.04	---	.01	---	.00	.15	---
TOTAL	0.00	2.76	---	1.78	2.13	5.49	1.39	2.57	3.73	3.57	0.58	5.00



SANTEE RIVER BASIN

351331080525945 CRN11

LOCATION.--Lat 35°13'31", long 80°52'59", Mecklenburg County, Hydrologic Unit 03050103, Fire Station 10, Remount Road, Charlotte, NC.

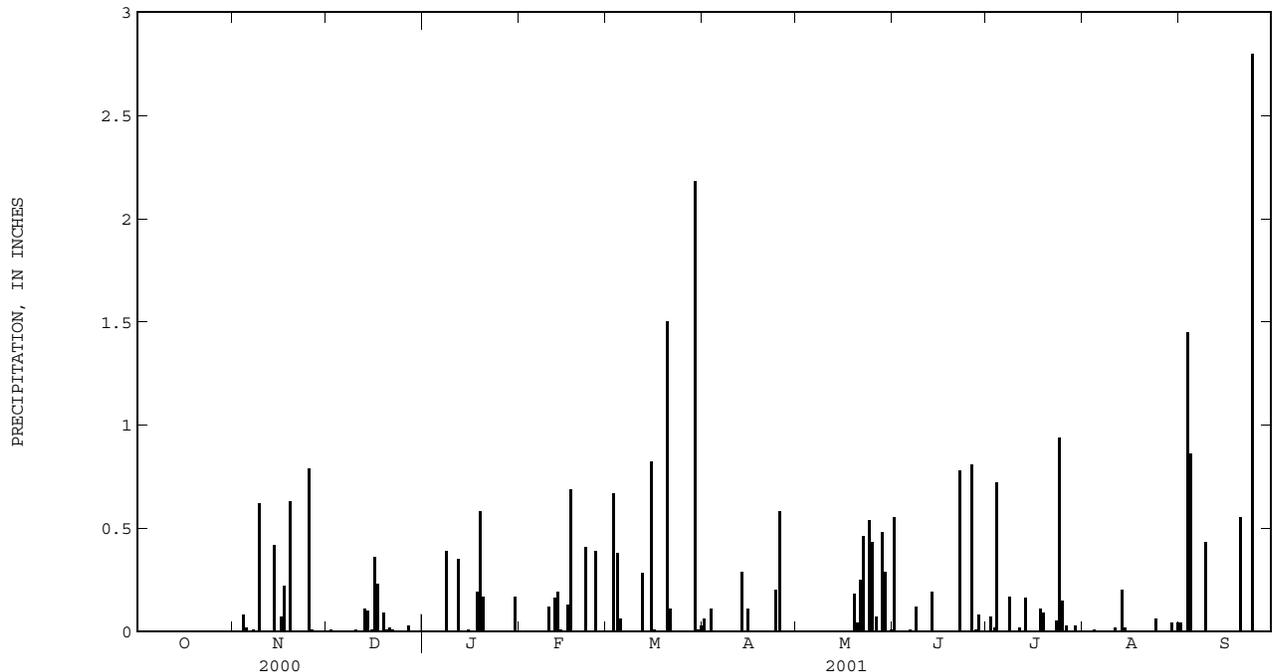
PERIOD OF RECORD.--November 1992 to current year. Records for period November 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.06	.00	.55	.00	.00	.04
2	.00	.00	.01	.00	.00	.00	.00	.00	.00	.07	.00	.00
3	.00	.00	.00	.00	.00	.67	.11	.00	.00	.02	.00	1.45
4	.00	.08	.00	.00	.00	.38	.00	.00	.00	.72	.01	.86
5	.00	.02	.00	.00	.00	.06	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.39	.00	.00	.00	.00	.12	.17	.00	.00
9	.00	.62	.00	.00	.00	.00	.00	.00	.00	.00	.00	.43
10	.00	.00	.01	.00	.12	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.02	.00
12	.00	.00	.00	.35	.16	.28	.00	.00	.00	.00	.00	.00
13	.00	.00	.11	.00	.19	.00	.29	.00	.19	.16	.20	.00
14	.00	.42	.10	.00	.01	.00	.00	.00	.00	.00	.02	.00
15	.00	.00	.01	.01	.00	.82	.11	.00	.00	.00	.00	.00
16	.00	.07	.36	.00	.13	.01	.00	.00	.00	.00	.00	.00
17	.00	.22	.23	.00	.69	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.19	.00	.00	.00	.00	.00	.11	.00	.00
19	.00	.63	.09	.58	.00	.00	.00	.18	.00	.09	.00	.00
20	.00	.00	.01	.17	.00	1.50	.00	.04	.00	.00	.00	.55
21	.00	.00	.02	.00	.00	.11	.00	.25	.00	.00	.00	.00
22	.00	.00	.01	.00	.41	.00	.00	.46	.78	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00
24	.00	.00	.00	.00	.00	.00	.20	.54	.00	.94	.06	2.80
25	.00	.79	.00	.00	.39	.00	.58	.43	.00	.15	.00	.00
26	.00	.01	.00	.00	.00	.00	.00	.07	.81	.03	.00	.00
27	.00	.00	.03	.00	.00	.00	.00	.00	.01	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.48	.08	.00	.00	.00
29	.00	.00	.00	.00	---	2.18	.00	.29	.00	.03	.04	.00
30	.00	.00	.00	.17	---	.01	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.03	---	.01	---	.00	.04	---
TOTAL	0.00	2.87	0.99	1.86	2.10	6.05	1.35	2.75	2.55	2.56	0.39	6.13



SANTEE RIVER BASIN

350823080505345 CRN12

LOCATION.--Lat 35°08'23", long 80°50'53", Mecklenburg County, Hydrologic Unit 03050103, Fire Station 16, Park South Drive, Charlotte, NC.

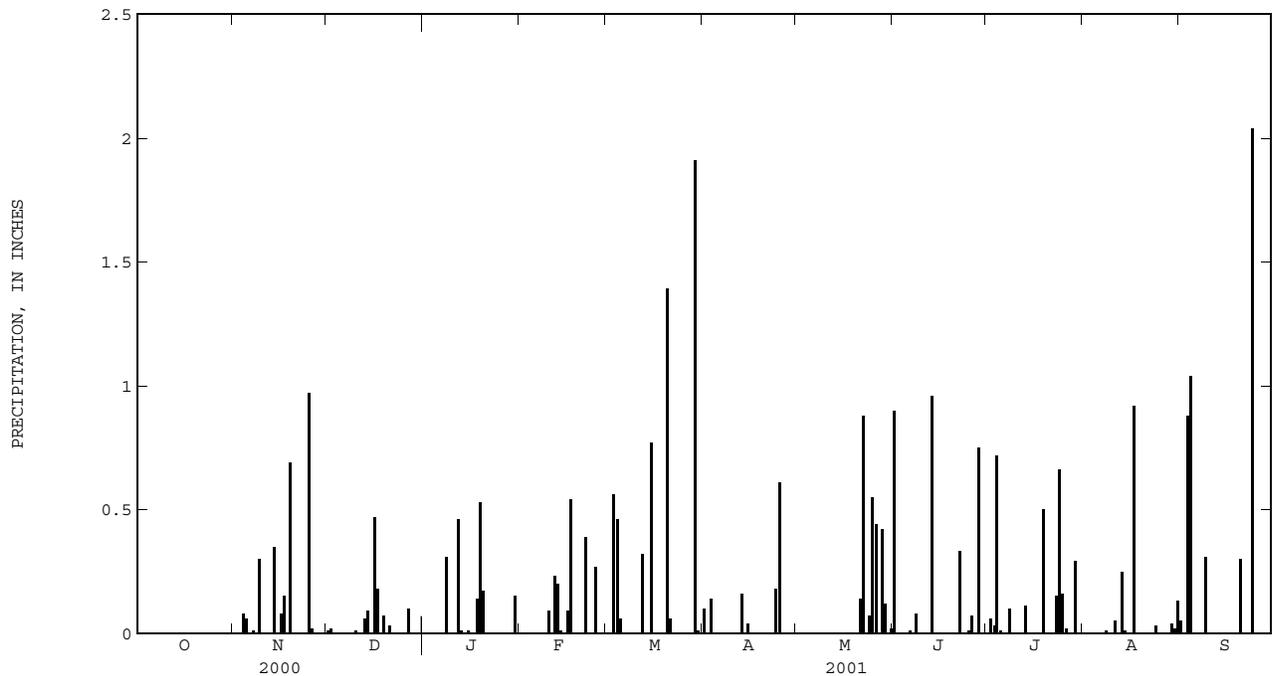
PERIOD OF RECORD.--March 1993 to current year. Records for period March 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.01	.00	.00	.00	.10	.00	.90	.00	.00	.05
2	.00	.00	.02	.00	.00	.00	.00	.00	.00	.06	.00	.00
3	.00	.00	.00	.00	.00	.56	.14	.00	.00	.03	.00	.88
4	.00	.08	.00	.00	.00	.46	.00	.00	.00	.72	.00	1.04
5	.00	.06	.00	.00	.00	.06	.00	.00	.00	.01	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.31	.00	.00	.00	.00	.08	.10	.01	.00
9	.00	.30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.31
10	.00	.00	.01	.00	.09	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00
12	.00	.00	.00	.46	.23	.32	.00	.00	.00	.00	.00	.00
13	.00	.00	.06	.01	.20	.00	.16	.00	.96	.11	.25	.00
14	.00	.35	.09	.00	.01	.00	.00	.00	.00	.00	.01	.00
15	.00	.00	.00	.01	.00	.77	.04	.00	.00	.00	.00	.00
16	.00	.08	.47	.00	.09	.00	.00	.00	.00	.00	.00	.00
17	.00	.15	.18	.00	.54	.00	.00	.00	.00	.00	.92	.00
18	.00	.00	.00	.14	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.69	.07	.53	.00	.00	.00	.00	.00	.50	.00	.00
20	.00	.00	.00	.17	.00	1.39	.00	.00	.00	.00	.00	.30
21	.00	.00	.03	.00	.00	.06	.00	.14	.00	.00	.00	.00
22	.00	.00	.00	.00	.39	.00	.00	.88	.33	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.15	.00	.00
24	.00	.00	.00	.00	.00	.00	.18	.07	.00	.66	.03	2.04
25	.00	.97	.00	.00	.27	.00	.61	.55	.01	.16	.00	.00
26	.00	.02	.00	.00	.00	.00	.00	.44	.07	.02	.00	.00
27	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.42	.75	.00	.00	.00
29	.00	.00	.00	.00	---	1.91	.00	.12	.00	.29	.04	.00
30	.00	.00	.00	.15	---	.01	.00	.00	.00	.00	.02	.00
31	.00	---	.00	.00	---	.00	---	.02	---	.00	.13	---
TOTAL	0.00	2.71	1.04	1.78	1.82	5.54	1.23	2.64	3.11	2.81	1.46	4.62



SANTEE RIVER BASIN

350947080524945 CRN13

LOCATION.--Lat 35°09'47", long 80°52'49", Mecklenburg County, Hydrologic Unit 03050103, U.S. Geological Survey Office, Tyvola Road, Charlotte, NC.

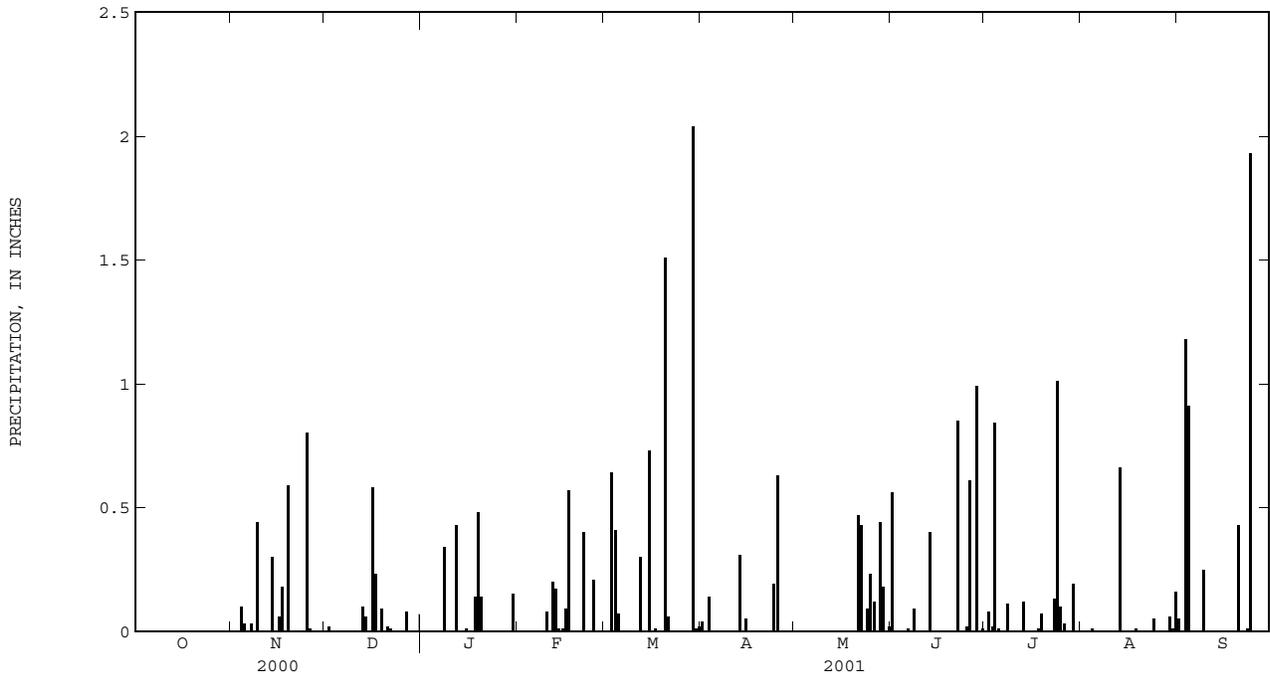
PERIOD OF RECORD.--May 1993 to current year. Records for period May 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.04	.00	.56	.00	.00	.05
2	.00	.00	.02	.00	.00	.00	.00	.00	.00	.08	.00	.00
3	.00	.00	.00	.00	.00	.64	.14	.00	.00	.02	.00	1.18
4	.00	.10	.00	.00	.00	.41	.00	.00	.00	.84	.01	.91
5	.00	.03	.00	.00	.00	.07	.00	.00	.00	.01	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
7	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.34	.00	.00	.00	.00	.09	.11	.00	.00
9	.00	.44	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25
10	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.43	.20	.30	.00	.00	.00	.00	.00	.00
13	.00	.00	.10	.00	.17	.00	.31	.00	.40	.12	.66	.00
14	.00	.30	.06	.00	.01	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.01	.01	.73	.05	.00	.00	.00	.00	.00
16	.00	.06	.58	.00	.09	.00	.00	.00	.00	.00	.00	.00
17	.00	.18	.23	.00	.57	.01	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.14	.00	.00	.00	.00	.00	.01	.01	.00
19	.00	.59	.09	.48	.00	.00	.00	.00	.00	.07	.00	.00
20	.00	.00	.00	.14	.00	1.51	.00	.00	.00	.00	.00	.43
21	.00	.00	.02	.00	.00	.06	.00	.47	.00	.00	.00	.00
22	.00	.00	.01	.00	.40	.00	.00	.43	.85	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13	.00	.01
24	.00	.00	.00	.00	.00	.00	.19	.09	.00	1.01	.05	1.93
25	.00	.80	.00	.00	.21	.00	.63	.23	.02	.10	.00	.00
26	.00	.01	.00	.00	.00	.00	.00	.12	.61	.03	.00	.00
27	.00	.00	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.44	.99	.00	.00	.00
29	.00	.00	.00	.00	---	2.04	.00	.18	.00	.19	.06	.00
30	.00	.00	.00	.15	---	.01	.00	.00	.01	.00	.01	.00
31	.00	---	.00	.00	---	.02	---	.02	---	.00	.16	---
TOTAL	0.00	2.54	1.19	1.69	1.74	5.80	1.36	1.98	3.54	2.72	0.96	4.76



SANTEE RIVER BASIN

351553080562645 CRN14

LOCATION.--Lat 35°15'53", long 80°56'26", Mecklenburg County, Hydrologic Unit 03050103, Fire Station 21, Little Rock Road, Charlotte, NC.

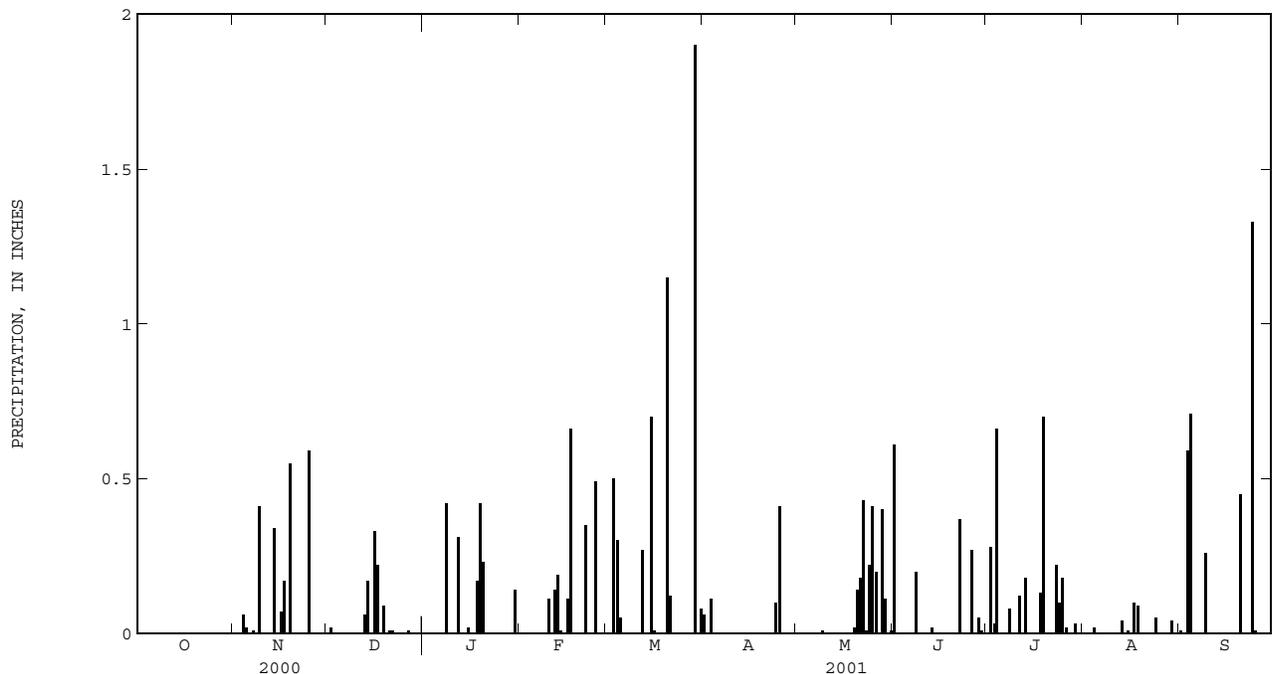
PERIOD OF RECORD.--March 1993 to current year. Records for period March 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.06	.00	.61	.00	.00	.01
2	.00	.00	.02	.00	.00	.00	.00	.00	.00	.28	.00	.00
3	.00	.00	.00	.00	.00	.00	.11	.00	.00	.03	.00	.59
4	.00	.06	.00	.00	.00	.30	.00	.00	.00	.66	.02	.71
5	.00	.02	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.42	.00	.00	.00	.00	.20	.08	.00	.00
9	.00	.41	.00	.00	.00	.00	.00	.01	.00	.00	.00	.26
10	.00	.00	.00	.00	.11	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.12	.00	.00
12	.00	.00	.00	.31	.14	.27	.00	.00	.00	.00	.00	.00
13	.00	.00	.06	.00	.19	.00	.00	.00	.02	.18	.04	.00
14	.00	.34	.17	.00	.01	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.02	.00	.70	.00	.00	.00	.00	.01	.00
16	.00	.07	.33	.00	.11	.01	.00	.00	.00	.00	.00	.00
17	.00	.17	.22	.00	.66	.00	.00	.00	.00	.00	.10	.00
18	.00	.00	.00	.17	.00	.00	.00	.00	.00	.13	.09	.00
19	.00	.55	.09	.42	.00	.00	.00	.02	.00	.70	.00	.00
20	.00	.00	.00	.23	.00	1.15	.00	.14	.00	.00	.00	.45
21	.00	.00	.01	.00	.00	.12	.00	.18	.00	.00	.00	.00
22	.00	.00	.01	.00	.35	.00	.00	.43	.37	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.01	.00	.22	.00	.00
24	.00	.00	.00	.00	.00	.00	.10	.22	.00	.10	.05	1.33
25	.00	.59	.00	.00	.49	.00	.41	.41	.00	.18	.00	.01
26	.00	.00	.00	.00	.00	.00	.00	.20	.27	.02	.00	.00
27	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.40	.05	.00	.00	.00
29	.00	.00	.00	.00	---	1.90	.00	.11	.01	.03	.04	.00
30	.00	.00	.00	.14	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.08	---	.01	---	.00	.00	---
TOTAL	0.00	2.22	0.92	1.71	2.06	5.08	0.68	2.14	1.53	2.73	0.35	3.36



SANTEE RIVER BASIN

351320080502645 CRN15

LOCATION.--Lat 35°13'20", long 80°50'26", Mecklenburg County, Hydrologic Unit 03050103, Charlotte Mecklenburg Government Center, East Fourth Street, Charlotte, NC.

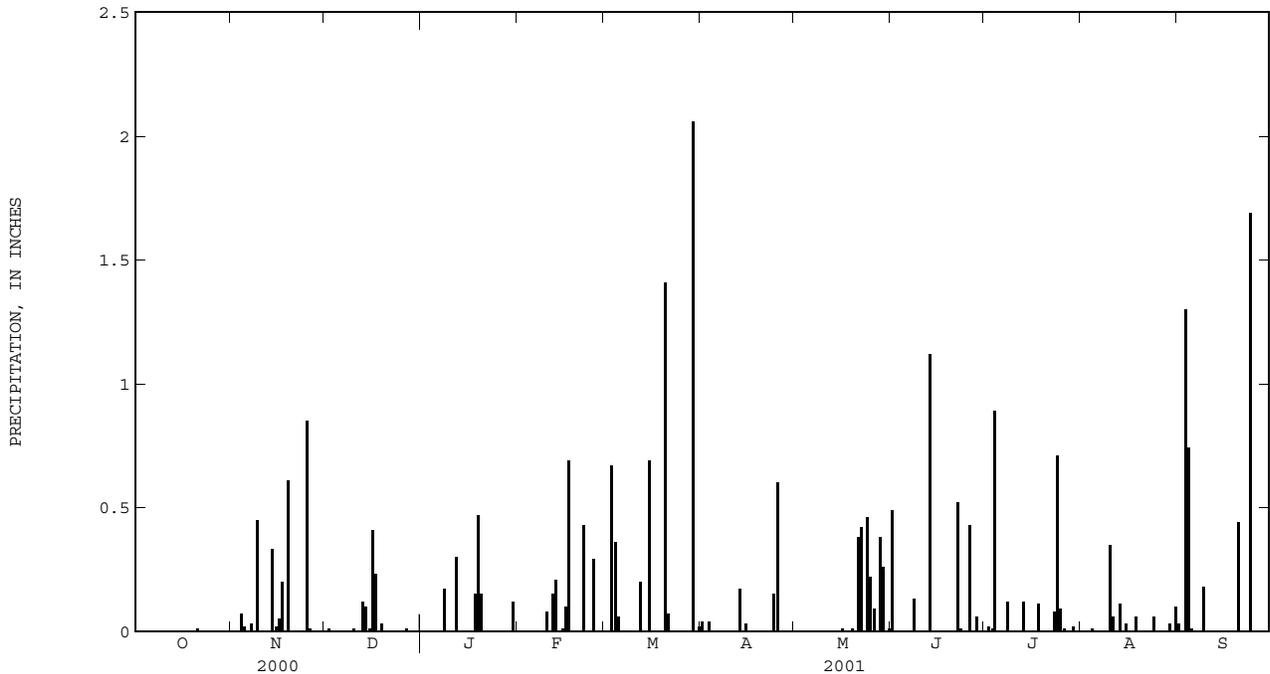
PERIOD OF RECORD.--March 1993 to current year. Records for period March 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.04	.00	.49	.00	.00	.03
2	.00	.00	.01	.00	.00	.00	.00	.00	.00	.02	.00	.00
3	.00	.00	.00	.00	.00	.67	.04	.00	.00	.01	.00	1.30
4	.00	.07	.00	.00	.00	.36	.00	.00	.00	.89	.01	.74
5	.00	.02	.00	.00	.00	.06	.00	.00	.00	.00	.00	.01
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.17	.00	.00	.00	.00	.13	.12	.00	.00
9	.00	.45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18
10	.00	.00	.01	.00	.08	.00	.00	.00	.00	.00	.35	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	.00
12	.00	.00	.00	.30	.15	.20	.00	.00	.00	.00	.00	.00
13	.00	.00	.12	.00	.21	.00	.17	.00	1.12	.12	.11	.00
14	.00	.33	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.02	.01	.00	.01	.69	.03	.00	.00	.00	.03	.00
16	.00	.05	.41	.00	.10	.00	.00	.01	.00	.00	.00	.00
17	.00	.20	.23	.00	.69	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.15	.00	.00	.00	.00	.00	.11	.06	.00
19	.00	.61	.03	.47	.00	.00	.00	.01	.00	.00	.00	.00
20	.00	.00	.00	.15	.00	1.41	.00	.00	.00	.00	.00	.44
21	.01	.00	.00	.00	.00	.07	.00	.38	.00	.00	.00	.00
22	.00	.00	.00	.00	.43	.00	.00	.42	.52	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.01	.08	.00	.00
24	.00	.00	.00	.00	.00	.00	.15	.46	.00	.71	.06	1.69
25	.00	.85	.00	.00	.29	.00	.60	.22	.00	.09	.00	.00
26	.00	.01	.00	.00	.00	.00	.00	.09	.43	.01	.00	.00
27	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.38	.06	.00	.00	.00
29	.00	.00	.00	.00	---	2.06	.00	.26	.00	.02	.03	.00
30	.00	.00	.00	.12	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.02	---	.01	---	.00	.10	---
TOTAL	0.01	2.64	0.93	1.36	1.96	5.54	1.03	2.24	2.76	2.18	0.81	4.39



351023080435745 CRN17

LOCATION.--Lat 35°10'23", long 80°43'57", Mecklenburg County, Hydrologic Unit 03050103, Piney Grove Elementary School, Eaglewind Drive, Charlotte, NC.

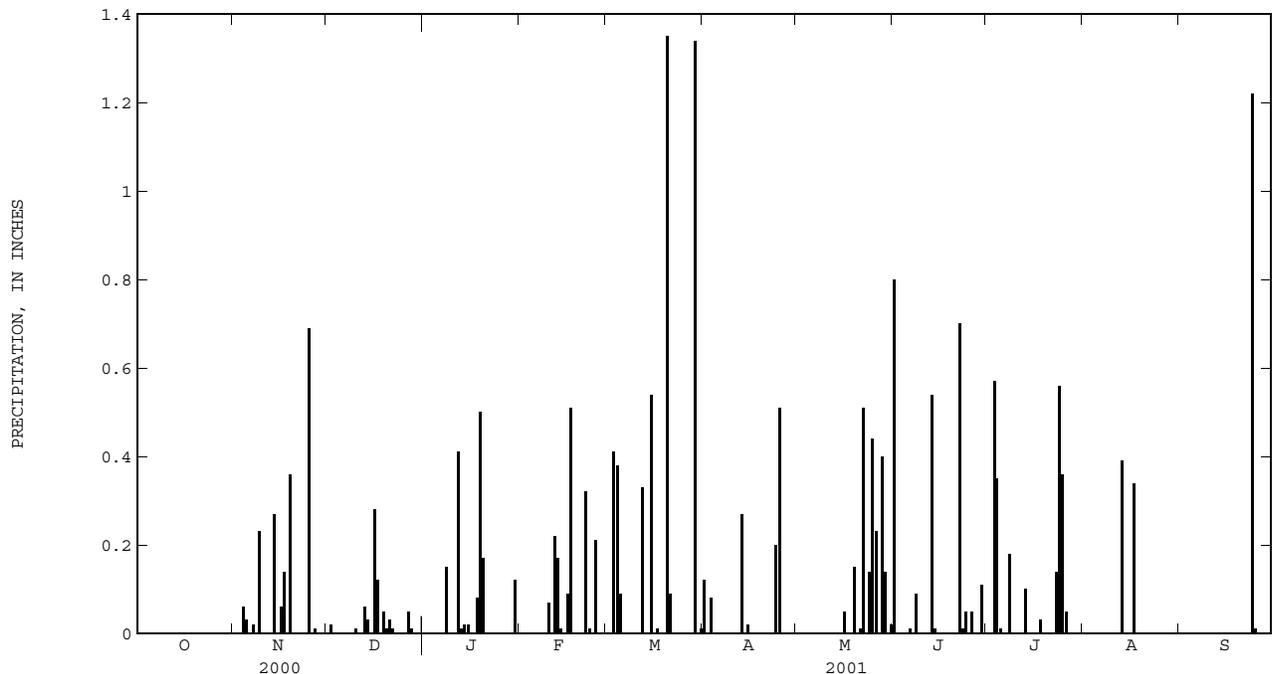
PERIOD OF RECORD.--March 1993 to current year. Records for period March 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.12	.00	.80	.00	.00	---
2	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	---
3	.00	.00	.00	.00	.00	.41	.08	.00	.00	.57	.00	---
4	.00	.06	.00	.00	.00	.38	.00	.00	.00	.35	.00	---
5	.00	.03	.00	.00	.00	.09	.00	.00	.00	.01	.00	---
6	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	---
7	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	---
8	.00	.00	.00	.15	.00	.00	.00	.00	.09	.18	.00	---
9	.00	.23	.00	.00	.00	.00	.00	.00	.00	.00	.00	---
10	.00	.00	.01	.00	.07	.00	.00	.00	.00	.00	.00	---
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	---
12	.00	.00	.00	.41	.22	.33	.00	.00	.00	.00	.00	---
13	.00	.00	.06	.01	.17	.00	.27	.00	.54	.10	.39	---
14	.00	.27	.03	.02	.01	.00	.00	.00	.01	.00	.00	---
15	.00	.00	.00	.02	.00	.54	.02	.00	.00	.00	.00	---
16	.00	.06	.28	.00	.09	.00	.00	.05	.00	.00	.00	---
17	.00	.14	.12	.00	.51	.01	.00	.00	.00	.00	.34	---
18	.00	.00	.00	.08	.00	.00	.00	.00	.00	.03	---	---
19	.00	.36	.05	.50	.00	.00	.00	.15	.00	.00	---	---
20	.00	.00	.01	.17	.00	1.35	.00	.00	.00	.00	---	---
21	.00	.00	.03	.00	.00	.09	.00	.01	.00	.00	---	---
22	.00	.00	.01	.00	.32	.00	.00	.51	.70	.00	---	.00
23	.00	.00	.00	.00	.01	.00	.00	.00	.01	.14	---	.00
24	.00	.00	.00	.00	.00	.00	.20	.14	.05	.56	---	1.22
25	.00	.69	.00	.00	.21	.00	.51	.44	.00	.36	---	.01
26	.00	.00	.00	.00	.00	.00	.00	.23	.05	.05	---	.00
27	.00	.01	.05	.00	.00	.00	.00	.00	.00	.00	---	.00
28	.00	.00	.01	.00	.00	.00	.00	.40	.00	.00	---	.00
29	.00	.00	.00	.00	---	1.34	.00	.14	.11	.00	---	.00
30	.00	.00	.00	.12	---	.00	.00	.00	.00	.00	---	.00
31	.00	---	.00	.00	---	.01	---	.02	---	.00	---	---
TOTAL	0.00	1.87	0.68	1.48	1.61	4.55	1.20	2.09	2.37	2.35	---	---



SANTEE RIVER BASIN

351132080504145 CRN19

LOCATION.--Lat 35°11'32", long 80°50'41", Mecklenburg County, Hydrologic Unit 03050103, Freedom Park, Cumberland Drive, Charlotte, NC.

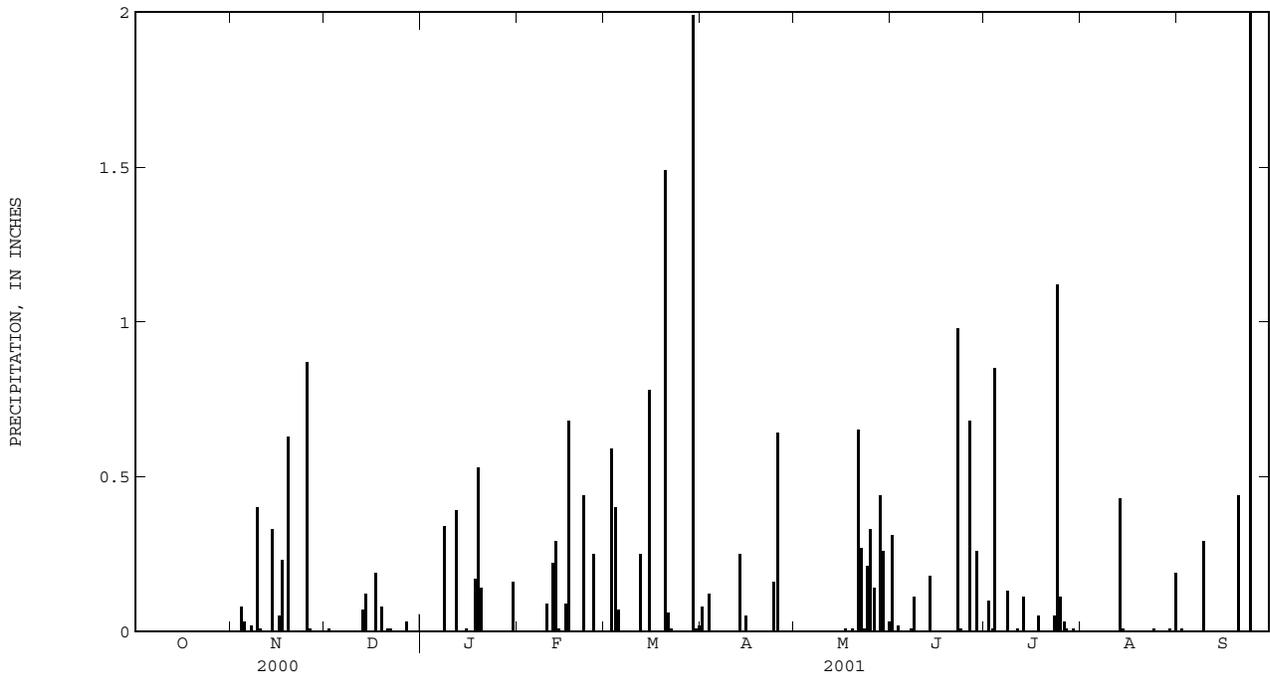
PERIOD OF RECORD.--September 1993 to current year. Records for period September 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.08	.00	.31	.00	.00	.00
2	.00	.00	.01	.00	.00	.00	.00	.00	.00	.10	.00	.01
3	.00	.00	.00	.00	.00	.59	.12	.00	.02	.01	.00	---
4	.00	.08	.00	.00	.00	.40	.00	.00	.00	.85	.00	---
5	.00	.03	.00	.00	.00	.07	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.02	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
8	.00	.00	.00	.34	.00	.00	.00	.00	.11	.13	.00	.00
9	.00	.40	.00	.00	.00	.00	.00	.00	.00	.00	.00	.29
10	.00	.01	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
12	.00	.00	.00	.39	.22	.25	.00	.00	.00	.00	.00	.00
13	.00	.00	.07	.00	.29	.00	.25	.00	.18	.11	.43	.00
14	.00	.33	.12	.00	.01	.00	.00	.00	.00	.00	.01	.00
15	.00	.00	.00	.01	.00	.78	.05	.00	.00	.00	.00	.00
16	.00	.05	---	.00	.09	.00	.00	.00	.00	.00	.00	.00
17	.00	.23	.19	.00	.68	.00	.00	.01	.00	.00	.00	.00
18	.00	.00	.00	.17	.00	.00	.00	.00	.00	.05	.00	.00
19	.00	.63	.08	.53	.00	.00	.00	.01	.00	.00	.00	.00
20	.00	.00	.00	.14	.00	1.49	.00	.00	.00	.00	.00	.44
21	.00	.00	.01	.00	.00	.06	.00	.65	.00	.00	.00	.00
22	.00	.00	.01	.00	.44	.01	.00	.27	.98	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.01	.01	.05	.00	.00
24	.00	.00	.00	.00	.00	.00	.16	.21	.00	1.12	.01	2.00
25	.00	.87	.00	.00	.25	.00	.64	.33	.00	.11	.00	.00
26	.00	.01	.00	.00	.00	.00	.00	.14	.68	.03	.00	.00
27	.00	.00	.03	.00	.00	.00	.00	.00	.00	.01	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.44	.26	.00	.00	.00
29	.00	.00	.00	.00	---	1.99	.00	.26	.00	.01	.01	.00
30	.00	.00	.00	.16	---	.01	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.02	---	.03	---	.00	.19	---
TOTAL	0.00	2.66	---	1.74	2.07	5.67	1.30	2.36	2.56	2.59	0.65	---



351032080475245 CRN20

LOCATION.--Lat 35°10'32", long 80°47'52", Mecklenburg County, Hydrologic Unit 03050103, Fire Station 14, North Sharon Amity Road, Charlotte, NC.

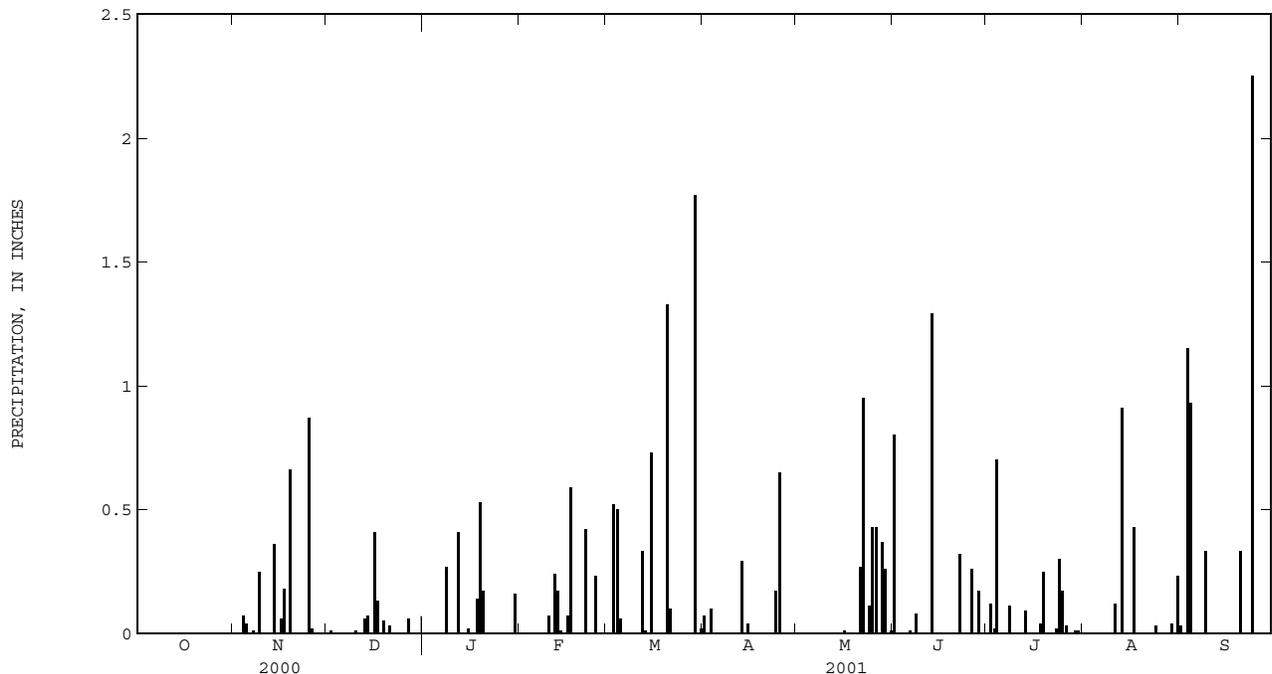
PERIOD OF RECORD.--September 1993 to current year. Records for period September 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99- 273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.07	.00	.80	.00	.00	.03
2	.00	.00	.01	.00	.00	.00	.00	.00	.00	.12	.00	.00
3	.00	.00	.00	.00	.00	.52	.10	.00	.00	.02	.00	1.15
4	.00	.07	.00	.00	.00	.50	.00	.00	.00	.70	.00	.93
5	.00	.04	.00	.00	.00	.06	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.27	.00	.00	.00	.00	.08	.11	.00	.00
9	.00	.25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.33
10	.00	.00	.01	.00	.07	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.12	.00
12	.00	.00	.00	.41	.24	.33	.00	.00	.00	.00	.00	.00
13	.00	.00	.06	.00	.17	.01	.29	.00	1.29	.09	.91	.00
14	.00	.36	.07	.00	.01	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.02	.00	.73	.04	.00	.00	.00	.00	.00
16	.00	.06	.41	.00	.07	.00	.00	.01	.00	.00	.00	.00
17	.00	.18	.13	.00	.59	.00	.00	.00	.00	.00	.43	.00
18	.00	.00	.00	.14	.00	.00	.00	.00	.00	.04	.00	.00
19	.00	.66	.05	.53	.00	.00	.00	.00	.00	.25	.00	.00
20	.00	.00	.00	.17	.00	1.33	.00	.00	.00	.00	.00	.33
21	.00	.00	.03	.00	.00	.10	.00	.27	.00	.00	.00	.00
22	.00	.00	.00	.00	.42	.00	.00	.95	.32	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00
24	.00	.00	.00	.00	.00	.00	.17	.11	.00	.30	.03	2.25
25	.00	.87	.00	.00	.23	.00	.65	.43	.00	.17	.00	.00
26	.00	.02	.00	.00	.00	.00	.00	.43	.26	.03	.00	.00
27	.00	.00	.06	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.37	.17	.00	.00	.00
29	.00	.00	.00	.00	---	1.77	.00	.26	.00	.01	.04	.00
30	.00	.00	.00	.16	---	.00	.00	.00	.00	.01	.00	.00
31	.00	---	.00	.00	---	.02	---	.01	---	.00	.23	---
TOTAL	0.00	2.52	0.83	1.70	1.80	5.37	1.32	2.84	2.93	1.87	1.76	5.02



SANTEE RIVER BASIN

350842080572801 CRN21

LOCATION.--Lat 35°08'42", long 80°57'28", Mecklenburg County, Hydrologic Unit 03050103, Kennedy Junior High School, Gallant Lane, Charlotte, NC.

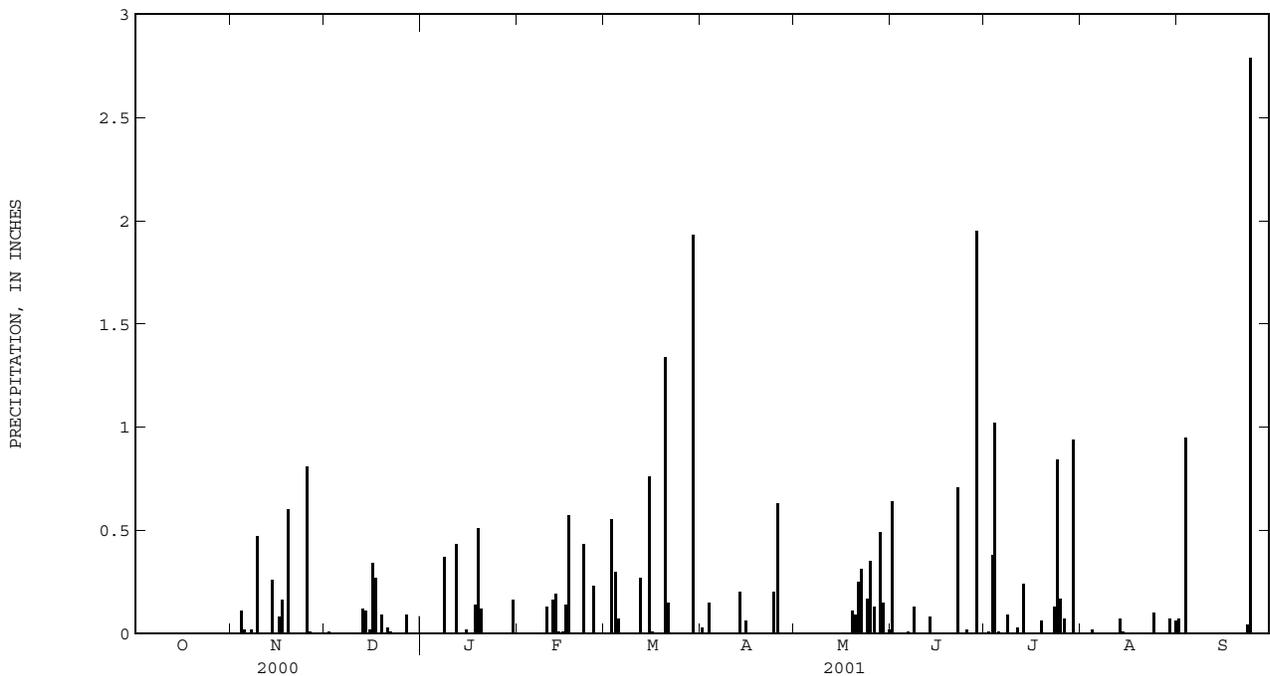
PERIOD OF RECORD.--September 1990 to current year. Records for period September 1990 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.03	.00	.64	.00	.00	.07
2	.00	.00	.01	.00	.00	.00	.00	.00	.00	.01	.00	.00
3	.00	.00	.00	.00	.00	.55	.15	.00	.00	.38	.00	.95
4	.00	.11	.00	.00	.00	.30	.00	.00	.00	1.02	.02	---
5	.00	.02	.00	.00	.00	.07	.00	.00	.00	.01	.00	---
6	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	---
7	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	---
8	.00	.00	.00	.37	.00	.00	.00	.00	.13	.09	.00	---
9	.00	.47	.00	.00	.00	.00	.00	.00	.00	.00	.00	---
10	.00	.00	.00	.00	.13	.00	.00	.00	.00	.00	.00	---
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	---
12	.00	.00	.00	.43	.16	.27	.00	.00	.00	.00	.00	---
13	.00	.00	.12	.00	.19	.00	.20	.00	.08	.24	.07	---
14	.00	.26	.11	.00	.01	.00	.00	.00	.00	.00	.01	---
15	.00	.00	.02	.02	.01	.76	.06	.00	.00	.00	.00	---
16	.00	.08	.34	.00	.14	.01	.00	.00	.00	.00	.00	---
17	.00	.16	.27	.00	.57	.00	.00	.00	.00	.00	.00	---
18	.00	.00	.00	.14	.00	.00	.00	.00	.00	.00	.00	---
19	.00	.60	.09	.51	.00	.00	.00	.11	.00	.06	.00	---
20	.00	.00	.00	.12	.00	1.34	.00	.09	.00	.00	.00	---
21	.00	.00	.03	.00	.00	.15	.00	.25	.00	.00	.00	---
22	.00	.00	.01	.00	.43	.00	.00	.31	.71	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13	.00	.04
24	.00	.00	.00	.00	.00	.00	.20	.17	.00	.84	.10	2.79
25	.00	.81	.00	.00	.23	.00	.63	.35	.02	.17	.00	.00
26	.00	.01	.00	.00	.00	.00	.00	.13	.00	.07	.00	.00
27	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.49	1.95	.00	.00	.00
29	.00	.00	.00	.00	---	1.93	.00	.15	.00	.94	.07	.00
30	.00	.00	.00	.16	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.02	---	.00	.06	---
TOTAL	0.00	2.54	1.09	1.75	1.87	5.38	1.27	2.07	3.54	3.99	0.33	---



SANTEE RIVER BASIN

350623080583801 CRN22

LOCATION.--Lat 35°06'41", long 80°58'20", Mecklenburg County, Hydrologic Unit 03050103, Lake Wylie Elementary School, Erwin Road, Charlotte, NC.

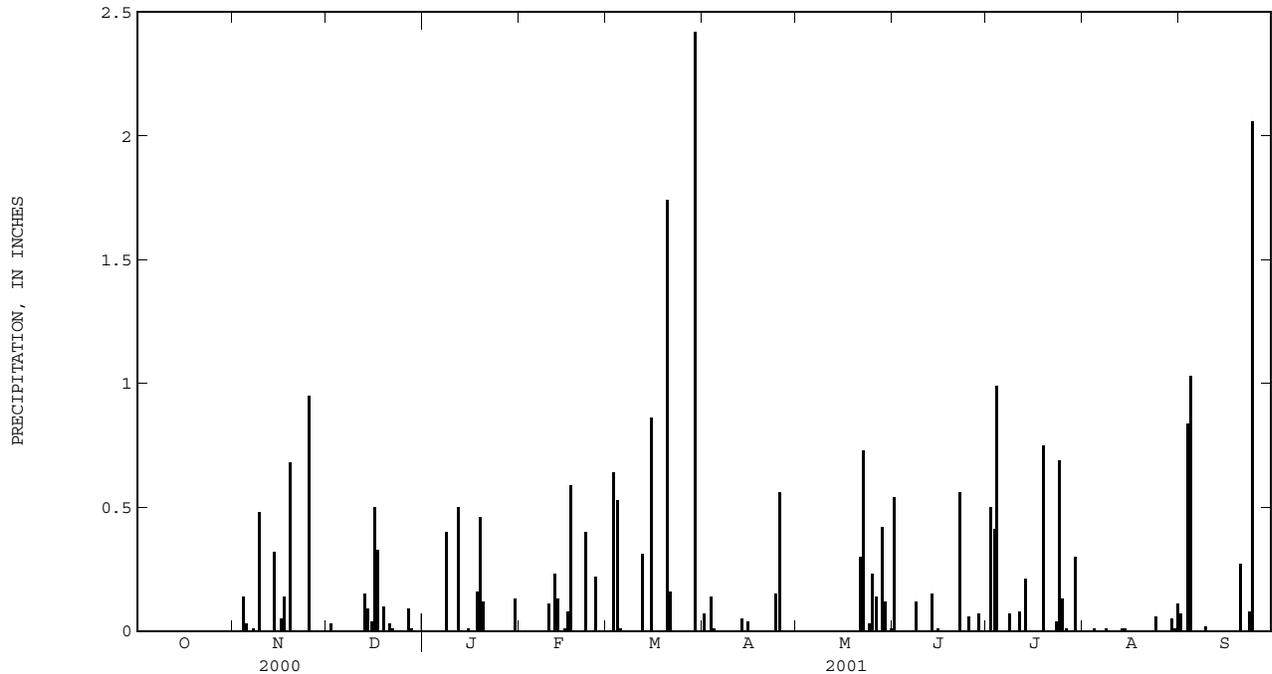
PERIOD OF RECORD.--September 1990 to current year. Records for period September 1990 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site. Prior to Aug. 23, 2000 gage located at private residence, Choate Circle, Charlotte, NC.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.07	.00	.54	.00	.00	.07
2	.00	.00	.03	.00	.00	.00	.00	.00	.00	.50	.00	.00
3	.00	.00	.00	.00	.00	.64	.14	.00	.00	.41	.00	.84
4	.00	.14	.00	.00	.00	.53	.01	.00	.00	.99	.01	1.03
5	.00	.03	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.40	.00	.00	.00	.00	.12	.07	.01	.00
9	.00	.48	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
10	.00	.00	.00	.00	.11	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00
12	.00	.00	.00	.50	.23	.31	.00	.00	.00	.00	.00	.00
13	.00	.00	.15	.00	.13	.00	.05	.00	.15	.21	.01	.00
14	.00	.32	.09	.00	.00	.00	.00	.00	.00	.00	.01	.00
15	.00	.00	.04	.01	.01	.86	.04	.00	.01	.00	.00	.00
16	.00	.05	.50	.00	.08	.00	.00	.00	.00	.00	.00	.00
17	.00	.14	.33	.00	.59	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.16	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.68	.10	.46	.00	.00	.00	.00	.00	.75	.00	.00
20	.00	.00	.00	.12	.00	1.74	.00	.00	.00	.00	.00	.27
21	.00	.00	.03	.00	.00	.16	.00	.30	.00	.00	.00	.00
22	.00	.00	.01	.00	.40	.00	.00	.73	.56	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.08
24	.00	.00	.00	.00	.00	.00	.15	.03	.00	.69	.06	2.06
25	.00	.95	.00	.00	.22	.00	.56	.23	.06	.13	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.14	.00	.01	.00	.00
27	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.01	.00	.00	.00	.00	.42	.07	.00	.00	.00
29	.00	.00	.00	.00	---	2.42	.00	.12	.00	.30	.05	.00
30	.00	.00	.00	.13	---	.00	.00	.00	.00	.00	.01	.00
31	.00	---	.00	.00	---	.00	---	.01	---	.00	.11	---
TOTAL	0.00	2.80	1.38	1.78	1.77	6.67	1.02	1.98	1.51	4.18	0.27	4.37



SANTEE RIVER BASIN

351604080470845 CRN27

LOCATION.--Lat 35°16'04", long 80°47'08", Mecklenburg County, Hydrologic Unit 03050103, Hidden Valley Elementary School, Snow White Lane, Charlotte, NC.

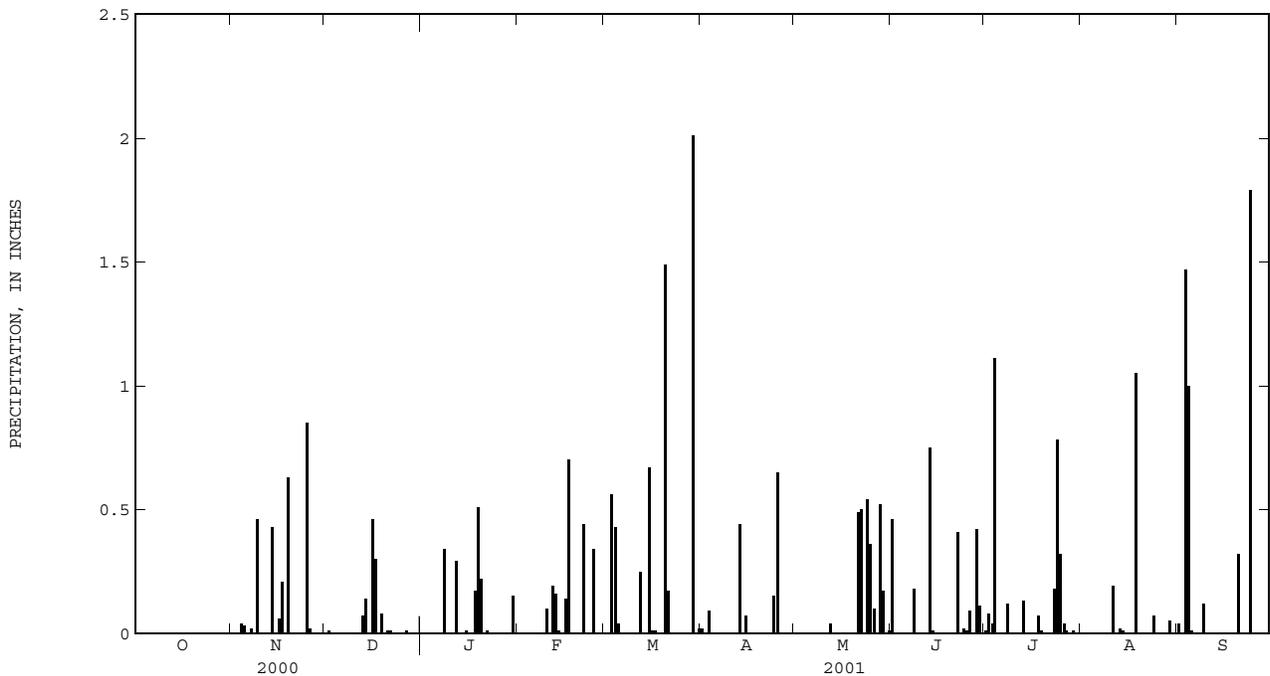
PERIOD OF RECORD.--October 1994 to current year. Records for period October 1994 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.02	.00	.46	.01	.00	.04
2	.00	.00	.01	.00	.00	.00	.00	.00	.00	.08	.00	.00
3	.00	.00	.00	.00	.00	.56	.09	.00	.00	.04	.00	1.47
4	.00	.04	.00	.00	.00	.43	.00	.00	.00	1.11	.00	1.00
5	.00	.03	.00	.00	.00	.04	.00	.00	.00	.00	.00	.01
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.34	.00	.00	.00	.00	.18	.12	.00	.00
9	.00	.46	.00	.00	.00	.00	.00	.00	.00	.00	.00	.12
10	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19	.00
12	.00	.00	.00	.29	.19	.25	.00	.04	.00	.00	.00	.00
13	.00	.00	.07	.00	.16	.00	.44	.00	.75	.13	.02	.00
14	.00	.43	.14	.00	.01	.00	.00	.00	.01	.00	.01	.00
15	.00	.00	.00	.01	.00	.67	.07	.00	.00	.00	.00	.00
16	.00	.06	.46	.00	.14	.01	.00	.00	.00	.00	.00	.00
17	.00	.21	.30	.00	.70	.01	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.17	.00	.00	.00	.00	.00	.07	1.05	.00
19	.00	.63	.08	.51	.00	.00	.00	.00	.00	.01	.00	.00
20	.00	.00	.00	.22	.00	1.49	.00	.00	.00	.00	.00	.32
21	.00	.00	.01	.00	.00	.17	.00	.49	.00	.00	.00	.00
22	.00	.00	.01	.01	.44	.00	.00	.50	.41	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18	.00	.00
24	.00	.00	.00	.00	.00	.00	.15	.54	.02	.78	.07	1.79
25	.00	.85	.00	.00	.34	.00	.65	.36	.01	.32	.00	.00
26	.00	.02	.00	.00	.00	.00	.00	.10	.09	.04	.00	.00
27	.00	.00	.01	.00	.00	.00	.00	.00	.00	.01	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.52	.42	.00	.00	.00
29	.00	.00	.00	.00	---	2.01	.00	.17	.11	.01	.05	.00
30	.00	.00	.00	.15	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.02	---	.01	---	.00	.00	---
TOTAL	0.00	2.75	1.09	1.70	2.08	5.66	1.42	2.73	2.46	2.91	1.39	4.75



350110080502045 CRN31

LOCATION.--Lat 35°01'10", long 80°50'20", Mecklenburg County, Hydrologic Unit 03050103, Elon Homes for Children, Ardrey-Kell Road, Charlotte, NC.

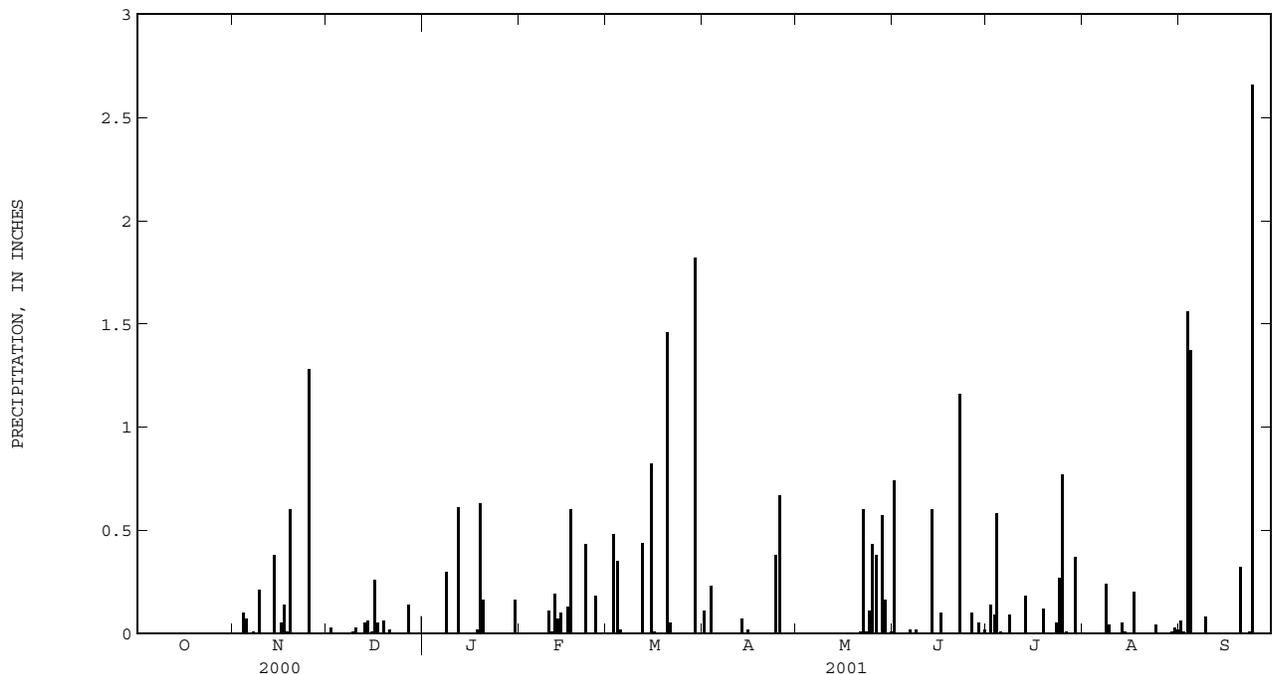
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.11	.00	.74	.00	.00	.06
2	.00	.00	.03	.00	.00	.00	.00	.00	.00	.14	.00	.01
3	.00	.00	.00	.00	.00	.48	.23	.00	.00	.09	.00	1.56
4	.00	.10	.00	.00	.00	.35	.00	.00	.00	.58	.00	1.37
5	.00	.07	.00	.00	.00	.02	.00	.00	.00	.01	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.30	.00	.00	.00	.00	.02	.09	.24	.00
9	.00	.21	.01	.00	.00	.00	.00	.00	.00	.00	.04	.08
10	.00	.00	.03	.00	.11	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.61	.19	.44	.00	.00	.00	.00	.00	.00
13	.00	.00	.05	.00	.07	.00	.07	.00	.60	.18	.05	.00
14	.00	.38	.06	.00	.10	.00	.00	.00	.00	.00	.01	.00
15	.00	.00	.01	.00	.00	.82	.02	.00	.00	.00	.00	.00
16	.00	.05	.26	.00	.13	.01	.00	.00	.10	.00	.00	.00
17	.00	.14	.05	.00	.60	.00	.00	.00	.00	.00	.20	.00
18	.00	.01	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.60	.06	.63	.00	.00	.00	.00	.00	.12	.00	.00
20	.00	.00	.00	.16	.00	1.46	.00	.00	.00	.00	.00	.32
21	.00	.00	.02	.00	.00	.05	.00	.01	.00	.00	.00	.00
22	.00	.00	.00	.00	.43	.00	.00	.60	1.16	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.01	.00	.05	.00	.01
24	.00	.00	.00	.00	.00	.00	.38	.11	.00	.27	.04	2.66
25	.00	1.28	.00	.00	.18	.00	.67	.43	.00	.77	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.38	.10	.01	.00	.00
27	.00	.00	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.57	.05	.00	.00	.00
29	.00	.00	.00	.00	---	1.82	.00	.16	.00	.37	.01	.00
30	.00	.00	.00	.16	---	.00	.00	.00	.02	.00	.03	.00
31	.00	---	.00	.00	---	.00	---	.01	---	.00	.02	---
TOTAL	0.00	2.85	0.72	1.88	1.82	5.45	1.48	2.28	2.81	2.68	0.64	6.07



SANTEE RIVER BASIN

352555080574445 CRN34

LOCATION.--Lat 35°25'55", long 80°57'44", Lincoln County, Hydrologic Unit 03050103, Cowans Ford Dam warehouse, Duke Lane, Huntersville, NC.

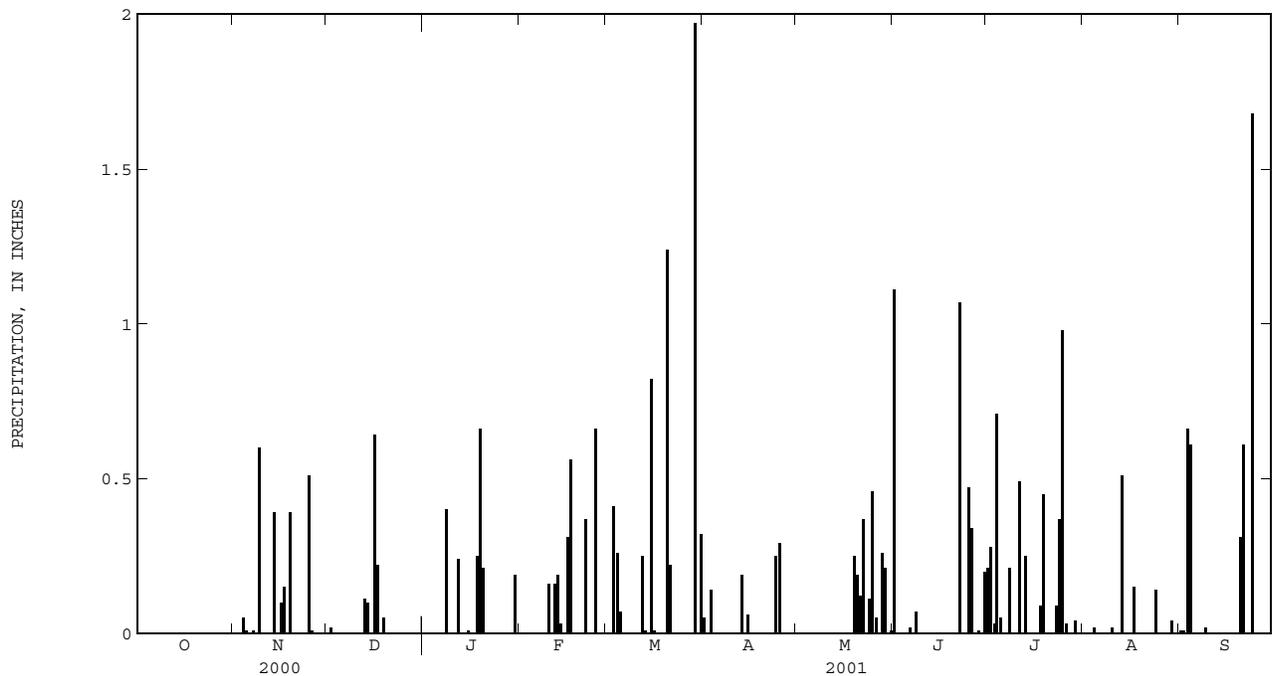
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.05	.00	1.11	.21	.00	.01
2	.00	.00	.02	.00	.00	.00	.00	.00	.00	.28	.00	.01
3	.00	.00	.00	.00	.00	.41	.14	.00	.00	.03	.00	.66
4	.00	.05	.00	.00	.00	.26	.00	.00	.00	.71	.02	.61
5	.00	.01	.00	.00	.00	.07	.00	.00	.00	.05	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.40	.00	.00	.00	.00	.07	.21	.00	.00
9	.00	.60	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
10	.00	.00	.00	.00	.16	.00	.00	.00	.00	.00	.02	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.49	.00	.00
12	.00	.00	.00	.24	.16	.25	.00	.00	.00	.00	.00	.00
13	.00	.00	.11	.00	.19	.01	.19	.00	.00	.25	.51	.00
14	.00	.39	.10	.00	.03	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.01	.00	.82	.06	.00	.00	.00	.00	.00
16	.00	.10	.64	.00	.31	.01	.00	.00	.00	.00	.00	.00
17	.00	.15	.22	.00	.56	.00	.00	.00	.00	.00	.15	.00
18	.00	.00	.00	.25	.00	.00	.00	.00	.00	.09	.00	.00
19	.00	.39	.05	.66	.00	.00	.00	.25	.00	.45	.00	.00
20	.00	.00	.00	.21	.00	1.24	.00	.19	.00	.00	.00	.31
21	.00	.00	.00	.00	.00	.22	.00	.12	.00	.00	.00	.61
22	.00	.00	.00	.00	.37	.00	.00	.37	1.07	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00
24	.00	.00	.00	.00	.00	.00	.25	.11	.00	.37	.14	1.68
25	.00	.51	.00	.00	.66	.00	.29	.46	.47	.98	.00	.00
26	.00	.01	.00	.00	.00	.00	.00	.05	.34	.03	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.26	.01	.00	.00	.00
29	.00	.00	.00	.00	---	1.97	.00	.21	.00	.04	.04	.00
30	.00	.00	.00	.19	---	.00	.00	.00	.20	.00	.00	.00
31	.00	---	.00	.00	---	.32	---	.01	---	.00	.00	---
TOTAL	0.00	2.22	1.14	1.96	2.44	5.58	0.98	2.03	3.29	4.28	0.88	3.91



SANTEE RIVER BASIN

351247080592745 CRN37

LOCATION.--Lat 35°12'47", long 80°59'27", Mecklenburg County, Hydrologic Unit 03050103, Berryhill Elementary School, Walkers Ferry Road, Charlotte, NC.

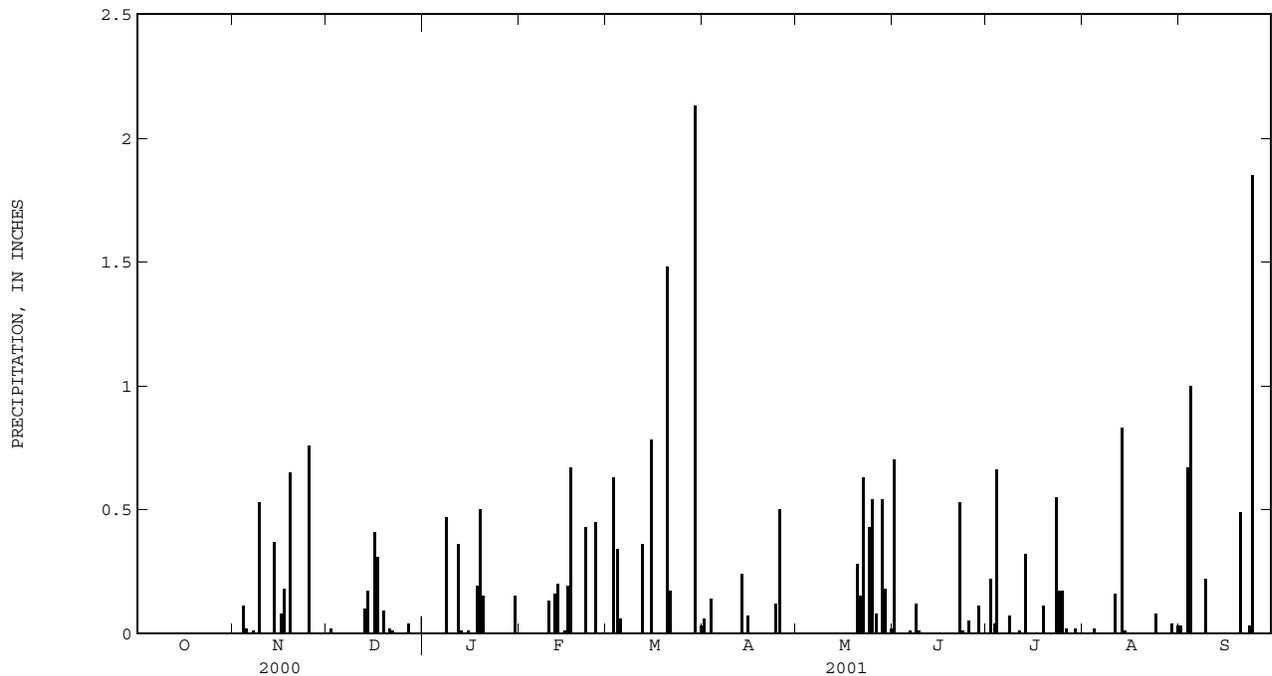
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.06	.00	.70	.00	.00	.03
2	.00	.00	.02	.00	.00	.00	.00	.00	.00	.22	.00	.00
3	.00	.00	.00	.00	.00	.63	.14	.00	.00	.04	.00	.67
4	.00	.11	.00	.00	.00	.34	.00	.00	.00	.66	.02	1.00
5	.00	.02	.00	.00	.00	.06	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.47	.00	.00	.00	.00	.12	.07	.00	.00
9	.00	.53	.00	.00	.00	.00	.00	.00	.01	.00	.00	.22
10	.00	.00	.00	.00	.13	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.16	.00
12	.00	.00	.00	.36	.16	.36	.00	.00	.00	.00	.00	.00
13	.00	.00	.10	.01	.20	.00	.24	.00	.00	.32	.83	.00
14	.00	.37	.17	.00	.00	.00	.00	.00	.00	.00	.01	.00
15	.00	.00	.00	.01	.01	.78	.07	.00	.00	.00	.00	.00
16	.00	.08	.41	.00	.19	.00	.00	.00	.00	.00	.00	.00
17	.00	.18	.31	.00	.67	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.19	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.65	.09	.50	.00	.00	.00	.00	.00	.11	.00	.00
20	.00	.00	.00	.15	.00	1.48	.00	.28	.00	.00	.00	.49
21	.00	.00	.02	.00	.00	.17	.00	.15	.00	.00	.00	.00
22	.00	.00	.01	.00	.43	.00	.00	.63	.53	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.01	.55	.00	.03
24	.00	.00	.00	.00	.00	.00	.12	.43	.00	.17	.08	1.85
25	.00	.76	.00	.00	.45	.00	.50	.54	.05	.17	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.08	.00	.02	.00	.00
27	.00	.00	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.54	.11	.00	.00	.00
29	.00	.00	.00	.00	---	2.13	.00	.18	.00	.02	.04	.00
30	.00	.00	.00	.15	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.03	---	.02	---	.00	.03	---
TOTAL	0.00	2.71	1.17	1.84	2.24	5.98	1.13	2.85	1.54	2.36	1.17	4.29



SANTEE RIVER BASIN

350200081020345 CRN38

LOCATION.--Lat 35°02'00", long 81°02'03", York County, South Carolina, Hydrologic Unit 03050103, Tega Cay Town Hall, Tega Cay Drive, Tega Cay, SC.

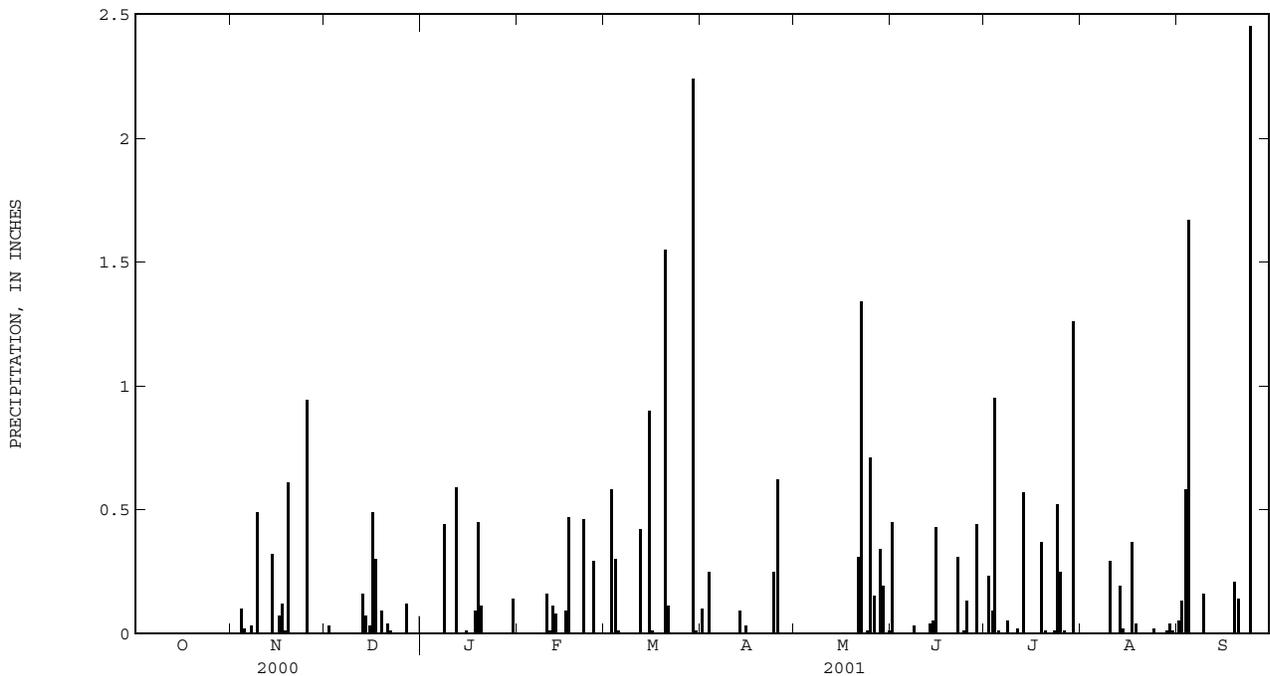
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.10	.00	.45	.00	.00	.05
2	.00	.00	.03	.00	.00	.00	.00	.00	.00	.23	.00	.13
3	.00	.00	.00	.00	.00	.58	.25	.00	.00	.09	.00	.58
4	.00	.10	.00	.00	.00	.30	.00	.00	.00	.95	.00	1.67
5	.00	.02	.00	.00	.00	.01	.00	.00	.00	.01	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.44	.00	.00	.00	.00	.03	.05	.00	.00
9	.00	.49	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16
10	.00	.00	.00	.00	.16	.00	.00	.00	.00	.00	.29	.00
11	.00	.00	.00	.00	.01	.00	.00	.00	.00	.02	.00	.00
12	.00	.00	.00	.59	.11	.42	.00	.00	.00	.00	.00	.00
13	.00	.00	.16	.00	.08	.00	.09	.00	.04	.57	.19	.00
14	.00	.32	.07	.00	.00	.00	.00	.00	.05	.00	.02	.00
15	.00	.00	.03	.01	.00	.90	.03	.00	.43	.00	.00	.00
16	.00	.07	.49	.00	.09	.01	.00	.00	.00	.00	.00	.00
17	.00	.12	.30	.00	.47	.00	.00	.00	.00	.00	.37	.00
18	.00	.01	.00	.09	.00	.00	.00	.00	.00	.00	.04	.00
19	.00	.61	.09	.45	.00	.00	.00	.00	.00	.37	.00	.21
20	.00	.00	.00	.11	.00	1.55	.00	.00	.00	.01	.00	.14
21	.00	.00	.04	.00	.00	.11	.00	.31	.00	.00	.00	.00
22	.00	.00	.01	.00	.46	.00	.00	1.34	.31	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
24	.00	.00	.00	.00	.00	.00	.25	.01	.01	.52	.02	2.45
25	.00	.94	.00	.00	.29	.00	.62	.71	.13	.25	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.15	.00	.01	.00	.00
27	.00	.00	.12	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.34	.44	.00	.01	.00
29	.00	.00	.00	.00	---	2.24	.00	.19	.00	1.26	.04	.00
30	.00	.00	.00	.14	---	.01	.00	.00	.00	.00	.01	.00
31	.00	---	.00	.00	---	.00	---	.01	---	.00	.00	---
TOTAL	0.00	2.71	1.34	1.83	1.67	6.13	1.34	3.06	1.89	4.35	0.99	5.39



353003080591745 CRN40

LOCATION.--Lat 35°30'03", long 80°59'17", Lincoln County, Hydrologic Unit 03050103, Westport Golf Course driving range, Denver, NC.

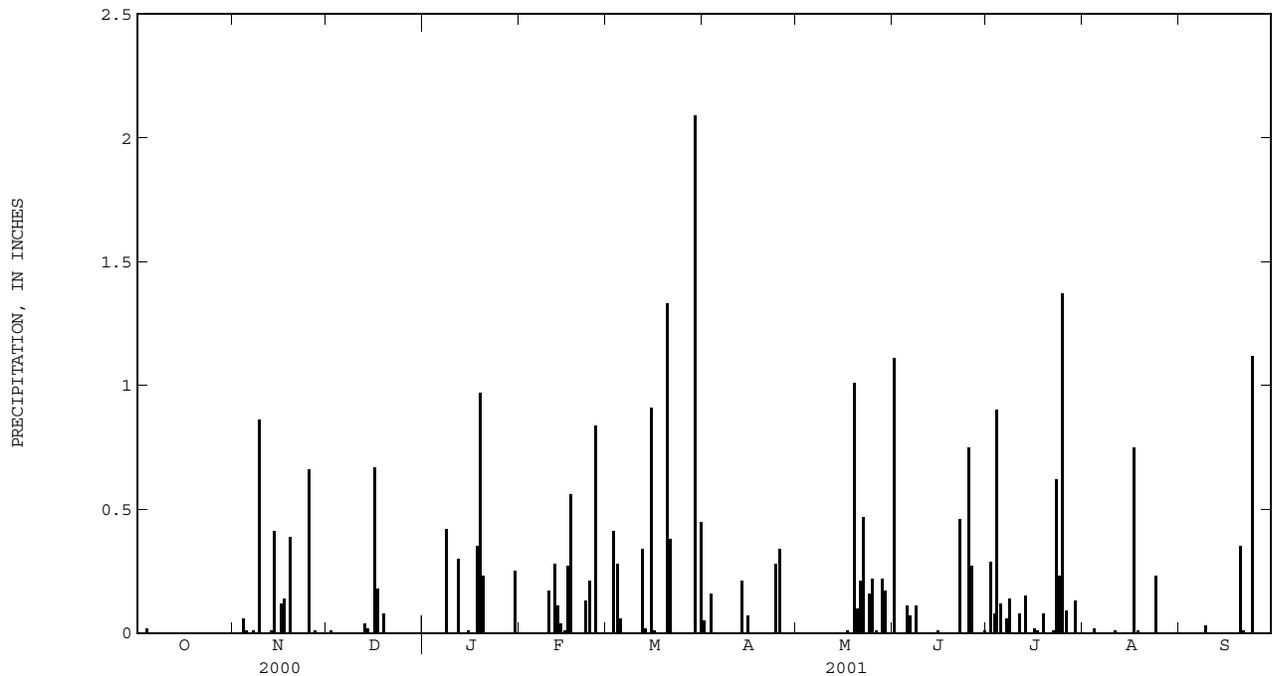
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273. Records for February 1996 to June 1996 at site Lake Norman Fire Department, Mooresville, NC (station 353402080543145).

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.05	.00	1.11	.00	---	---
2	.00	.00	.01	.00	.00	.00	.00	.00	.00	.29	---	---
3	.00	.00	.00	.00	.00	.41	.16	.00	.00	.08	.00	---
4	.02	.06	.00	.00	.00	.28	.00	.00	.00	.90	.02	---
5	.00	.01	.00	.00	.00	.06	.00	.00	.11	.12	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	.00	.06	.00	.00
8	.00	.00	.00	.42	.00	.00	.00	.00	.11	.14	.00	.00
9	.00	.86	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
10	.00	.00	.00	.00	.17	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.01	.00
12	.00	.00	.00	.30	.28	.34	.00	.00	.00	.00	---	.00
13	.00	.01	.04	.00	.11	.02	.21	.00	.00	.15	---	.00
14	.00	.41	.02	.00	.04	.00	.00	.00	.00	.00	---	.00
15	.00	.00	.00	.01	.01	.91	.07	.00	.01	.00	---	.00
16	.00	.12	.67	.00	.27	.01	.00	.00	.00	.02	---	.00
17	.00	.14	.18	.00	.56	.00	.00	.01	.00	.01	.75	.00
18	.00	.00	.00	.35	.00	.00	.00	.00	.00	.00	.01	.00
19	.00	.39	.08	.97	.00	.00	.00	1.01	.00	.08	.00	.00
20	.00	.00	.00	.23	.00	1.33	.00	.10	.00	.00	.00	.35
21	.00	.00	.00	.00	.00	.38	.00	.21	.00	.00	.00	.01
22	.00	.00	.00	.00	.13	.00	.00	.47	.46	.01	.00	.00
23	.00	.00	.00	.00	.21	.00	.00	.00	.00	.62	.00	.00
24	.00	.00	.00	.00	.00	.00	.28	.16	.00	.23	.23	1.12
25	.00	.66	.00	.00	.84	.00	.34	.22	.75	1.37	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.01	.27	.09	---	.00
27	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	---	.00
28	.00	.00	.00	.00	.00	.00	.00	.22	.00	.00	---	.00
29	.00	.00	.00	.00	---	2.09	.00	.17	.00	.13	---	.00
30	.00	.00	.00	.25	---	.00	.00	.00	.01	.00	---	.00
31	.00	---	.00	.00	---	.45	---	.00	---	.00	---	---
TOTAL	0.02	2.68	1.00	2.53	2.62	6.28	1.11	2.58	2.90	4.38	---	---



SANTEE RIVER BASIN

353014080524945 CRN42

LOCATION.--Lat 35°30'14", long 80°42'49", Mecklenburg County, Hydrologic Unit 03050103, private residence, Norman Shores Drive, Cornelius, NC.

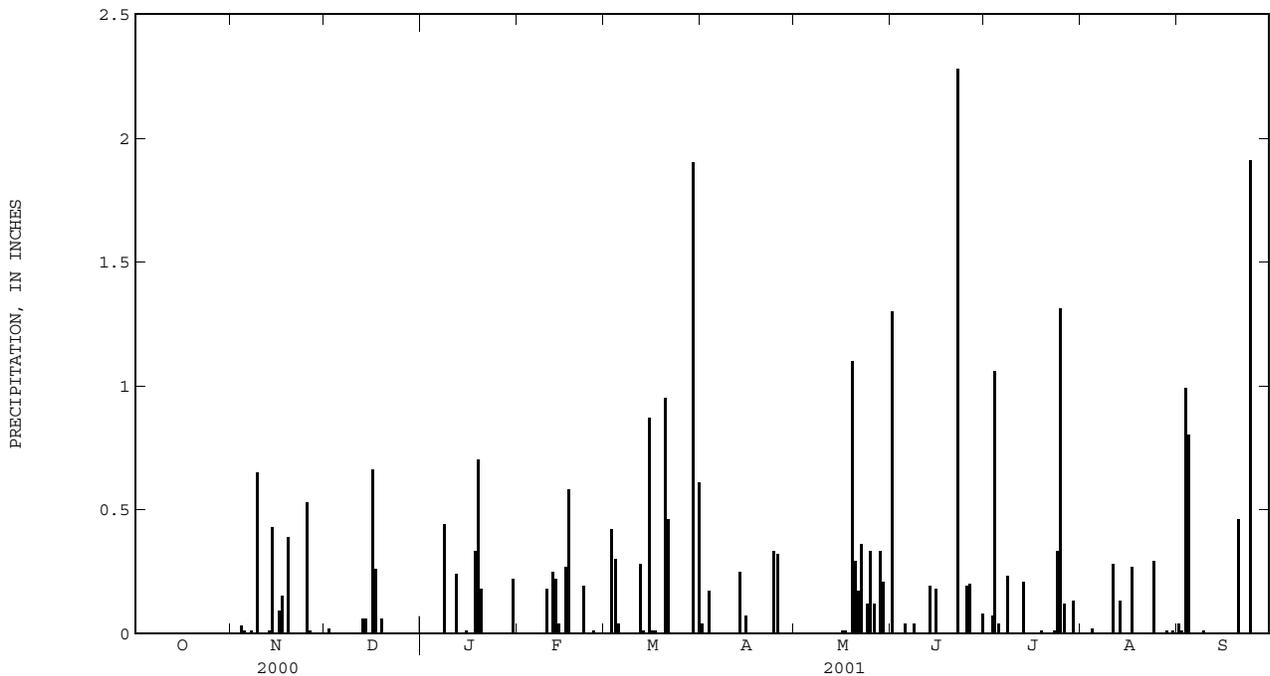
PERIOD OF RECORD.--January 1997 to current year. Records for period January 1997 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.04	.00	1.30	.00	.00	.04
2	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.01
3	.00	.00	.00	.00	.00	.42	.17	.00	.00	.07	.00	.99
4	.00	.03	.00	.00	.00	.30	.00	.00	.00	1.06	.02	.80
5	.00	.01	.00	.00	.00	.04	.00	.00	.04	.04	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.44	.00	.00	.00	.00	.04	.23	.00	.00
9	.00	.65	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
10	.00	.00	.00	.00	.18	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.28	.00
12	.00	.00	.00	.24	.25	.28	.00	.00	.00	.00	.00	.00
13	.00	.01	.06	.00	.22	.01	.25	.00	.19	.21	.13	.00
14	.00	.43	.06	.00	.04	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.01	.00	.87	.07	.00	.18	.00	.00	.00
16	.00	.09	.66	.00	.27	.01	.00	.01	.00	.00	.00	.00
17	.00	.15	.26	.00	.58	.01	.00	.01	.00	.00	.27	.00
18	.00	.00	.00	.33	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.39	.06	.70	.00	.00	.00	1.10	.00	.01	.00	.00
20	.00	.00	.00	.18	.00	.95	.00	.29	.00	.00	.00	.46
21	.00	.00	.00	.00	.00	.46	.00	.17	.00	.00	.00	.00
22	.00	.00	.00	.00	.19	.00	.00	.36	2.28	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
24	.00	.00	.00	.00	.00	.00	.33	.12	.00	.33	.29	1.91
25	.00	.53	.00	.00	.01	.00	.32	.33	.19	1.31	.00	.00
26	.00	.01	.00	.00	.00	.00	.00	.12	.20	.12	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.33	.00	.00	.01	.00
29	.00	.00	.00	.00	---	1.90	.00	.21	.00	.13	.00	.00
30	.00	.00	.00	.22	---	.00	.00	.00	.08	.00	.01	.00
31	.00	---	.00	.00	---	.61	---	.00	---	.00	.00	---
TOTAL	0.00	2.31	1.12	2.12	1.74	5.86	1.18	3.05	4.50	3.52	1.01	4.22



SANTEE RIVER BASIN

352440080505045 CRN43

LOCATION.--Lat 35°24'40", long 80°50'50", Mecklenburg County, Hydrologic Unit 03050103, Huntersville Elementary School, Gilead Road, Huntersville, NC.

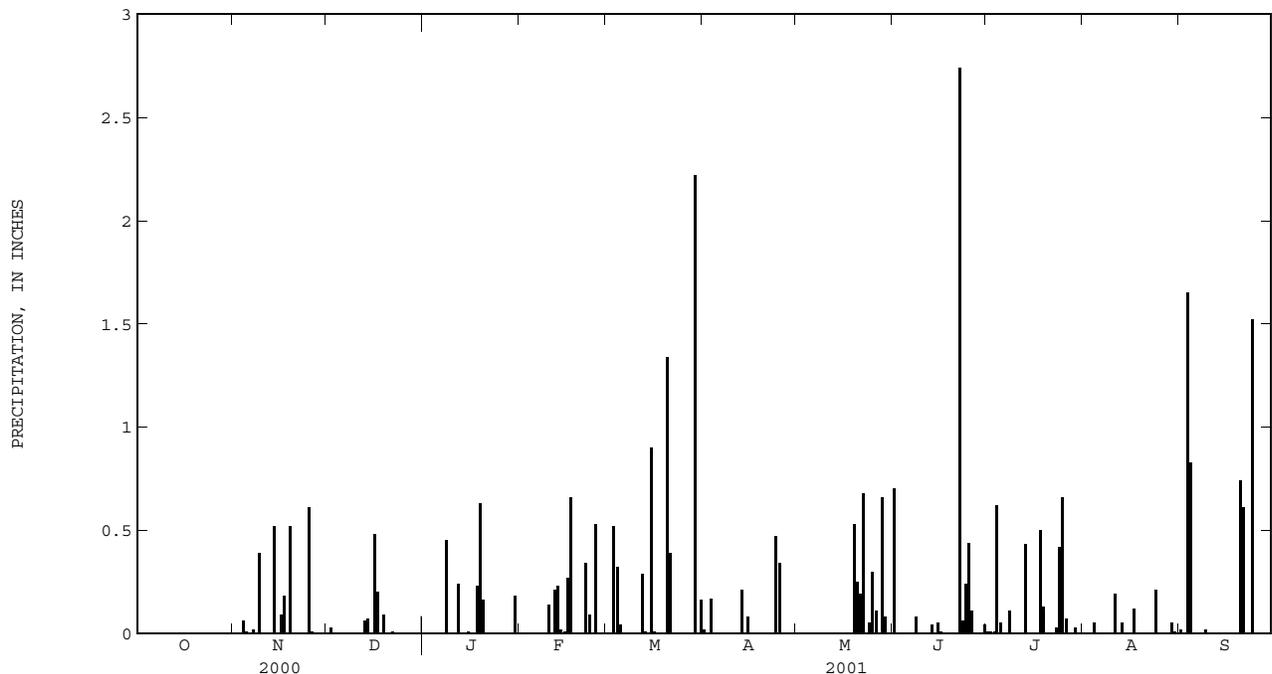
PERIOD OF RECORD.--January 1997 to current year. Records for period January 1997 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.02	.00	.70	.01	.00	.02
2	.00	.00	.03	.00	.00	.00	.00	.00	.00	.01	.00	.00
3	.00	.00	.00	.00	.00	.52	.17	.00	.00	.01	.00	1.65
4	.00	.06	.00	.00	.00	.32	.00	.00	.00	.62	.05	.83
5	.00	.01	.00	.00	.00	.04	.00	.00	.00	.05	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.45	.00	.00	.00	.00	.08	.11	.00	.00
9	.00	.39	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
10	.00	.00	.00	.00	.14	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19	.00
12	.00	.00	.00	.24	.21	.29	.00	.00	.00	.00	.00	.00
13	.00	.00	.06	.00	.23	.01	.21	.00	.04	.43	.05	.00
14	.00	.52	.07	.00	.02	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.01	.01	.90	.08	.00	.05	.00	.00	.00
16	.00	.09	.48	.00	.27	.01	.00	.00	.01	.00	.00	.00
17	.00	.18	.20	.00	.66	.00	.00	.00	.00	.00	.12	.00
18	.00	.00	.00	.23	.00	.00	.00	.00	.00	.50	.00	.00
19	.00	.52	.09	.63	.00	.00	.00	.53	.00	.13	.00	.00
20	.00	.00	.00	.16	.00	1.34	.00	.25	.00	.00	.00	.74
21	.00	.00	.00	.00	.00	.39	.00	.19	.00	.00	.00	.61
22	.00	.00	.01	.00	.34	.00	.00	.68	2.74	.00	.00	.00
23	.00	.00	.00	.00	.09	.00	.00	.00	.06	.03	.00	.00
24	.00	.00	.00	.00	.00	.00	.47	.05	.24	.42	.21	1.52
25	.00	.61	.00	.00	.53	.00	.34	.30	.44	.66	.00	.00
26	.00	.01	.00	.00	.00	.00	.00	.11	.11	.07	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.66	.00	.00	.00	.00
29	.00	.00	.00	.00	---	2.22	.00	.08	.00	.03	.05	.00
30	.00	.00	.00	.18	---	.00	.00	.00	.04	.00	.01	.00
31	.00	---	.00	.00	---	.16	---	.00	---	.00	.00	---
TOTAL	0.00	2.41	0.94	1.90	2.50	6.20	1.29	2.85	4.51	3.08	0.68	5.39



SANTEE RIVER BASIN

350903081004545 CRN45

LOCATION.--Lat 35°09'03", long 81°00'45", Mecklenburg County, Hydrologic Unit 03050103, private residence, Withers Cove Road, Charlotte, NC.

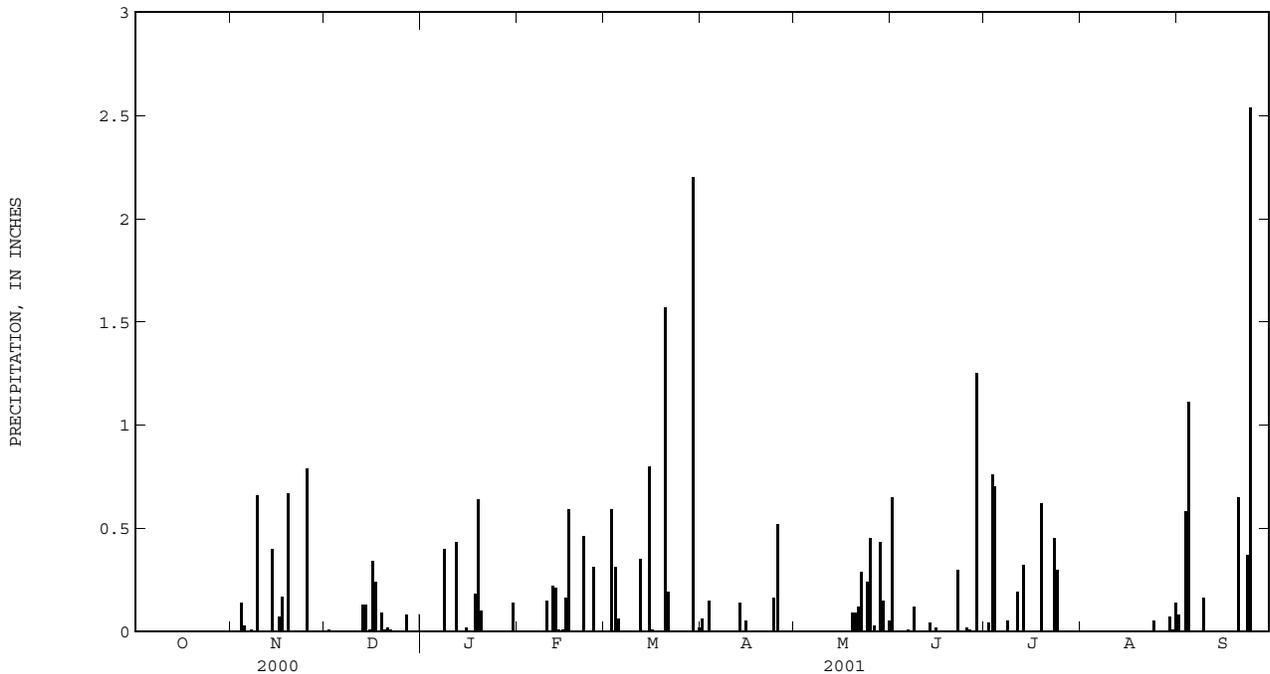
PERIOD OF RECORD.--January 1997 to current year. Records for period January 1997 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.06	.00	.65	.00	---	.08
2	.00	.00	.01	.00	.00	.00	.00	.00	.00	.04	---	.00
3	.00	.00	.00	.00	.00	.59	.15	.00	.00	.76	---	.58
4	.00	.14	.00	.00	.00	.31	.00	.00	.00	.70	---	1.11
5	.00	.03	.00	.00	.00	.06	.00	.00	.00	.00	---	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	---	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	---	.00
8	.00	.00	.00	.40	.00	.00	.00	.00	.12	.05	---	.00
9	.00	.66	.00	.00	.00	.00	.00	.00	.00	.00	---	.16
10	.00	.00	.00	.00	.15	.00	.00	.00	.00	.00	---	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19	---	.00
12	.00	.00	.00	.43	.22	.35	.00	.00	.00	.00	---	.00
13	.00	.00	.13	.00	.21	.00	.14	.00	.04	.32	---	.00
14	.00	.40	.13	.00	.01	.00	.00	.00	.00	.00	---	.00
15	.00	.00	.01	.02	.01	.80	.05	.00	.02	.00	---	.00
16	.00	.07	.34	.00	.16	.01	.00	.00	.00	.00	---	.00
17	.00	.17	.24	.00	.59	.00	.00	.00	.00	.00	---	.00
18	.00	.00	.00	.18	.00	.00	.00	.00	.00	.00	---	.00
19	.00	.67	.09	.64	.00	.00	.00	.09	.00	.62	---	.00
20	.00	.00	.01	.10	.00	1.57	.00	.09	.00	.00	---	.65
21	.00	.00	.02	.00	.00	.19	.00	.12	.00	.00	---	.00
22	.00	.00	.01	.00	.46	.00	.00	.29	.30	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.45	.00	.37
24	.00	.00	.00	.00	.00	.00	.16	.24	.00	.30	.05	2.54
25	.00	.79	.00	.00	.31	.00	.52	.45	.02	---	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.03	.01	---	.00	.00
27	.00	.00	.08	.00	.00	.00	.00	.00	.00	---	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.43	1.25	---	.00	.00
29	.00	.00	.00	.00	---	2.20	.00	.15	.00	---	.07	.00
30	.00	.00	.00	.14	---	.00	.00	.00	.00	---	.01	.00
31	.00	---	.00	.00	---	.02	---	.05	---	---	.14	---
TOTAL	0.00	2.94	1.07	1.91	2.12	6.10	1.08	1.94	2.42	---	---	5.49



351229080460245 CRN47

LOCATION.--Lat 35°12'29", long 80°46'02", Mecklenburg County, Hydrologic Unit 03050103, Winterfield Elementary School, Winterfield Place, Charlotte, NC.

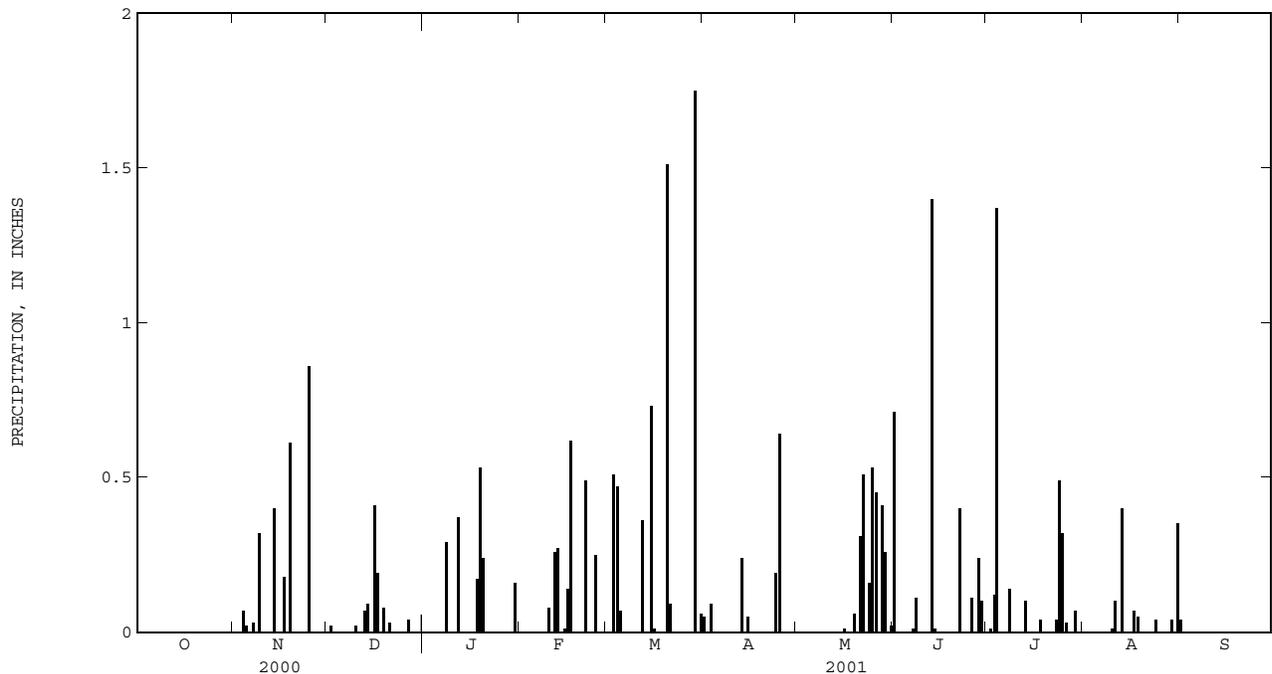
PERIOD OF RECORD.--March 1999 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.05	.00	.71	.00	.00	.04
2	.00	.00	.02	.00	.00	.00	.00	.00	.00	.01	.00	.00
3	.00	.00	.00	.00	.00	.51	.09	.00	.00	.12	.00	---
4	.00	.07	.00	.00	.00	.47	.00	.00	.00	1.37	.00	---
5	.00	.02	.00	.00	.00	.07	.00	.00	.00	.00	.00	---
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	---
7	.00	.03	.00	.00	.00	.00	.00	.00	.01	.00	.00	---
8	.00	.00	.00	.29	.00	.00	.00	.00	.11	.14	.00	---
9	.00	.32	.00	.00	.00	.00	.00	.00	.00	.00	.00	---
10	.00	.00	.02	.00	.08	.00	.00	.00	.00	.00	.01	---
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	---
12	.00	.00	.00	.37	.26	.36	.00	.00	.00	.00	.00	---
13	.00	.00	.07	.00	.27	.00	.24	.00	1.40	.10	.40	---
14	.00	.40	.09	.00	.00	.00	.00	.00	.01	.00	.00	---
15	.00	.00	.00	.00	.01	.73	.05	.00	.00	.00	.00	---
16	.00	---	.41	.00	.14	.01	.00	.01	.00	.00	.00	---
17	.00	.18	.19	.00	.62	.00	.00	.00	.00	.00	.07	---
18	.00	.00	.00	.17	.00	.00	.00	.00	.00	.04	.05	---
19	.00	.61	.08	.53	.00	.00	.00	.06	.00	.00	.00	---
20	.00	.00	.00	.24	.00	1.51	.00	.00	.00	.00	.00	---
21	.00	.00	.03	.00	.00	.09	.00	.31	.00	.00	.00	---
22	.00	.00	.00	.00	.49	.00	.00	.51	.40	.00	.00	---
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	---
24	.00	.00	.00	.00	.00	.00	.19	.16	.00	.49	.04	---
25	.00	.86	.00	.00	.25	.00	.64	.53	.00	.32	.00	---
26	.00	.00	.00	.00	.00	.00	.00	.45	.11	.03	.00	---
27	.00	.00	.04	.00	.00	.00	.00	.00	.00	.00	.00	---
28	.00	.00	.00	.00	.00	.00	.00	.41	.24	.00	.00	.00
29	.00	.00	.00	.00	---	1.75	.00	.26	.10	.07	.04	.00
30	.00	.00	.00	.16	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.06	---	.02	---	.00	.35	---
TOTAL	0.00	---	0.95	1.76	2.12	5.56	1.26	2.72	3.09	2.73	1.06	---



SANTEE RIVER BASIN

350637080475645 CRN48

LOCATION.--Lat 35°06'37", long 80°47'56", Mecklenburg County, Hydrologic Unit 03050103, Olde Providence School, Rea Road, Charlotte, NC.

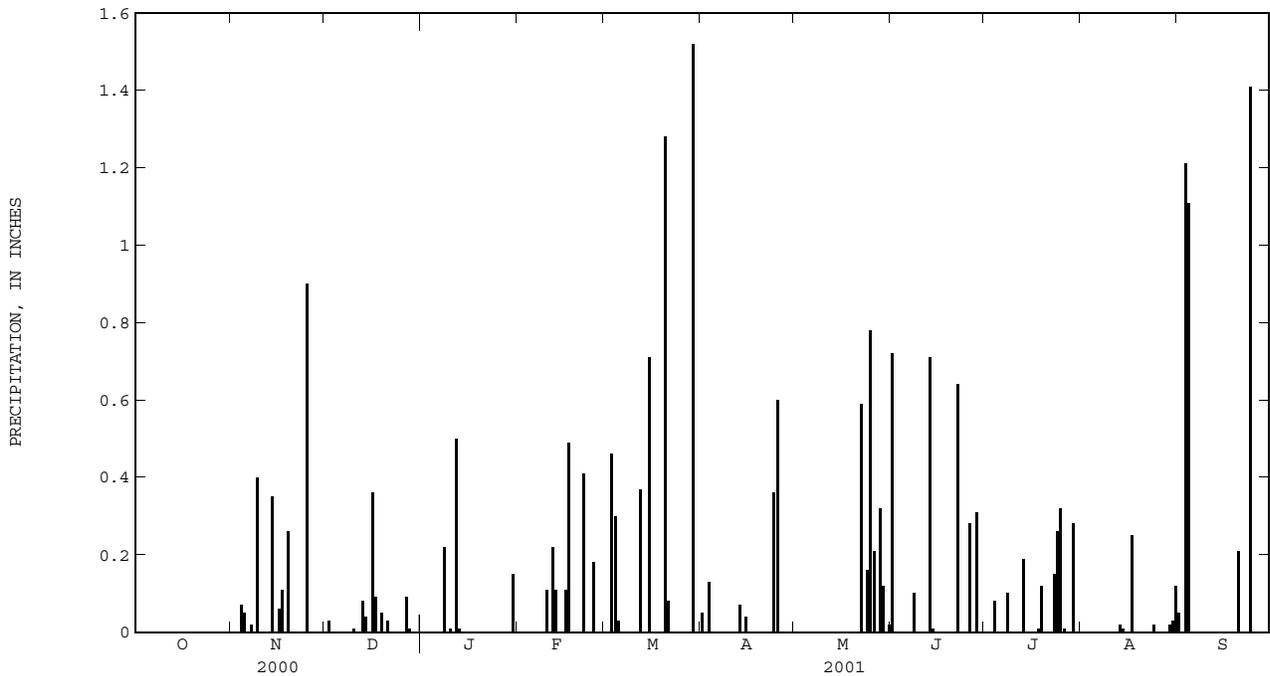
PERIOD OF RECORD.--March 1999 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.05	.00	.72	.00	.00	.05
2	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.46	.13	.00	.00	.00	.00	1.21
4	.00	.07	.00	.00	.00	.30	.00	.00	.00	.08	.00	1.11
5	.00	.05	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.22	.00	.00	.00	.00	.10	.10	.00	.00
9	.00	.40	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.01	.01	.11	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.50	.22	.37	.00	.00	.00	.00	.00	.00
13	.00	.00	.08	.01	.11	.00	.07	.00	.71	.19	.02	.00
14	.00	.35	.04	.00	.00	.00	.00	.00	.01	.00	.01	.00
15	.00	.00	.00	.00	.00	.71	.04	.00	.00	.00	.00	.00
16	.00	.06	.36	.00	.11	.00	.00	.00	.00	.00	.00	.00
17	.00	.11	.09	.00	.49	.00	.00	.00	.00	.00	.25	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
19	.00	.26	.05	.00	.00	.00	.00	.00	.00	.12	.00	.00
20	.00	.00	.00	.00	.00	1.28	.00	.00	.00	.00	.00	.21
21	.00	.00	.03	.00	.00	.08	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.41	.00	.00	.59	.64	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.15	.00	.00
24	.00	.00	.00	.00	.00	.00	.36	.16	.00	.26	.02	1.41
25	.00	.90	.00	.00	.18	.00	.60	.78	.00	.32	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.21	.28	.01	.00	.00
27	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.01	.00	.00	.00	.00	.32	.31	.00	.00	.00
29	.00	.00	.00	.00	---	1.52	.00	.12	.00	.28	.02	.00
30	.00	.00	.00	.15	---	.00	.00	.00	.00	.00	.03	.00
31	.00	---	.00	.00	---	.00	---	.02	---	.00	.12	---
TOTAL	0.00	2.22	0.79	0.89	1.63	4.75	1.25	2.20	2.77	1.52	0.47	3.99



352224080500345 CRN49

LOCATION.--Lat 35°22'24", long 80°50'03", Mecklenburg County, Hydrologic Unit 03050103, North Mecklenburg High School, Old Statesville Rd., Huntersville, NC.

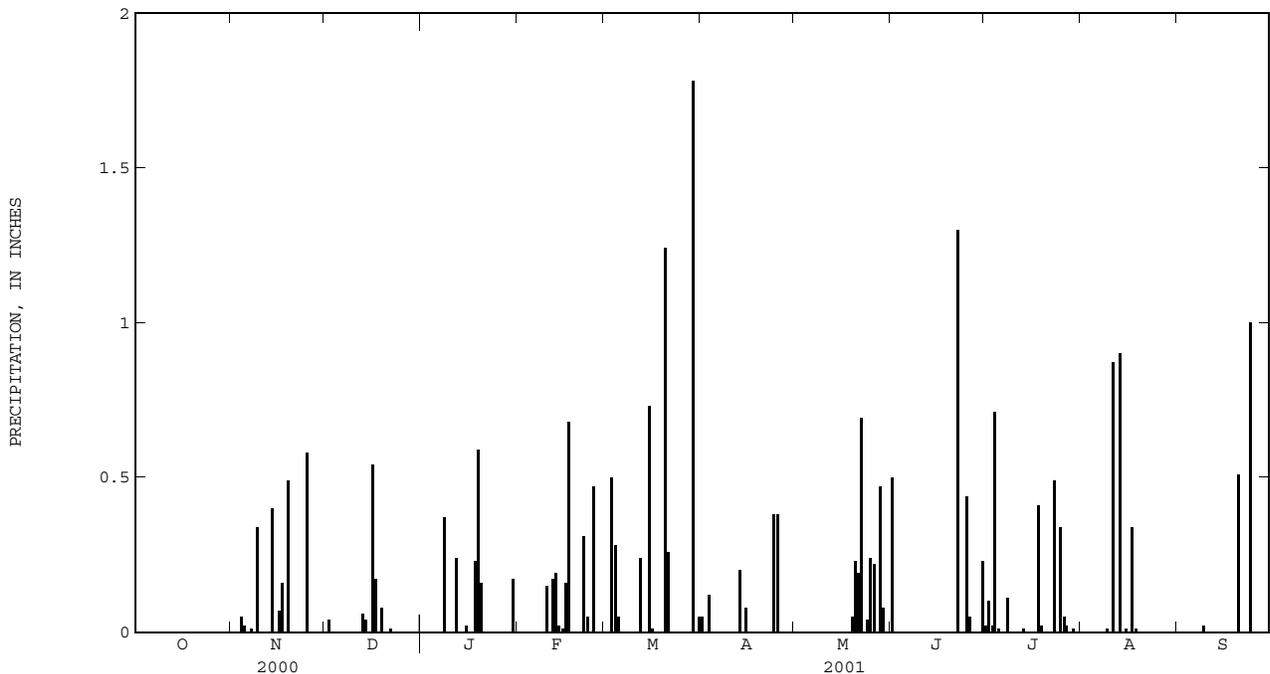
PERIOD OF RECORD.--April 1999 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.05	.00	.50	.02	.00	---
2	.00	.00	.04	.00	.00	.00	.00	.00	.00	.10	.00	---
3	.00	.00	.00	.00	.00	.50	.12	.00	.00	.02	.00	---
4	.00	.05	.00	.00	.00	.28	.00	.00	.00	.71	.00	---
5	.00	.02	.00	.00	.00	.05	.00	.00	.00	.01	.00	---
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.37	.00	.00	---	.00	.00	.11	.00	.00
9	.00	.34	.00	.00	.00	.00	---	.00	.00	.00	.01	.02
10	.00	.00	.00	.00	.15	.00	---	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	---	.00	.00	.00	.87	.00
12	.00	.00	.00	.24	.17	.24	---	.00	.00	.00	.00	.00
13	.00	.00	.06	.00	.19	.00	.20	.00	.00	.01	.90	.00
14	.00	.40	.04	.00	.02	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.02	.01	.73	.08	.00	.00	.00	.01	.00
16	.00	.07	.54	.00	.16	.01	.00	.00	.00	.00	.00	.00
17	.00	.16	.17	.00	.68	.00	.00	.00	.00	.00	.34	.00
18	.00	.00	.00	.23	.00	.00	.00	.00	.00	.41	.01	.00
19	.00	.49	.08	.59	.00	.00	.00	.05	.00	.02	.00	.00
20	.00	.00	.00	.16	.00	1.24	.00	.23	.00	.00	.00	.51
21	.00	.00	.00	.00	.00	.26	.00	.19	.00	.00	---	.00
22	.00	.00	.01	.00	.31	.00	.00	.69	1.30	.00	---	.00
23	.00	.00	.00	.00	.05	.00	.00	.00	.00	.49	---	.00
24	.00	.00	.00	.00	.00	.00	.38	.04	.00	.00	---	1.00
25	.00	.58	.00	.00	.47	.00	.38	.24	.44	.34	---	.00
26	.00	.00	.00	.00	.00	.00	.00	.22	.05	.05	---	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	---	.00
28	.00	.00	.00	.00	.00	.00	.00	.47	.00	.00	---	.00
29	.00	.00	.00	.00	---	1.78	.00	.08	.00	.01	---	.00
30	.00	.00	.00	.17	---	.00	.00	.00	.23	.00	---	.00
31	.00	---	.00	.00	---	.05	---	.00	---	.00	---	---
TOTAL	0.00	2.12	0.94	1.78	2.21	5.14	---	2.21	2.52	2.32	---	---



SANTEE RIVER BASIN

351503080510145 CRN50

LOCATION.--Lat 35°15'03", long 80°51'01", Mecklenburg County, Hydrologic Unit 03050103, Oaklawn School of Math and Science, Oaklawn Ave, Charlotte, NC.

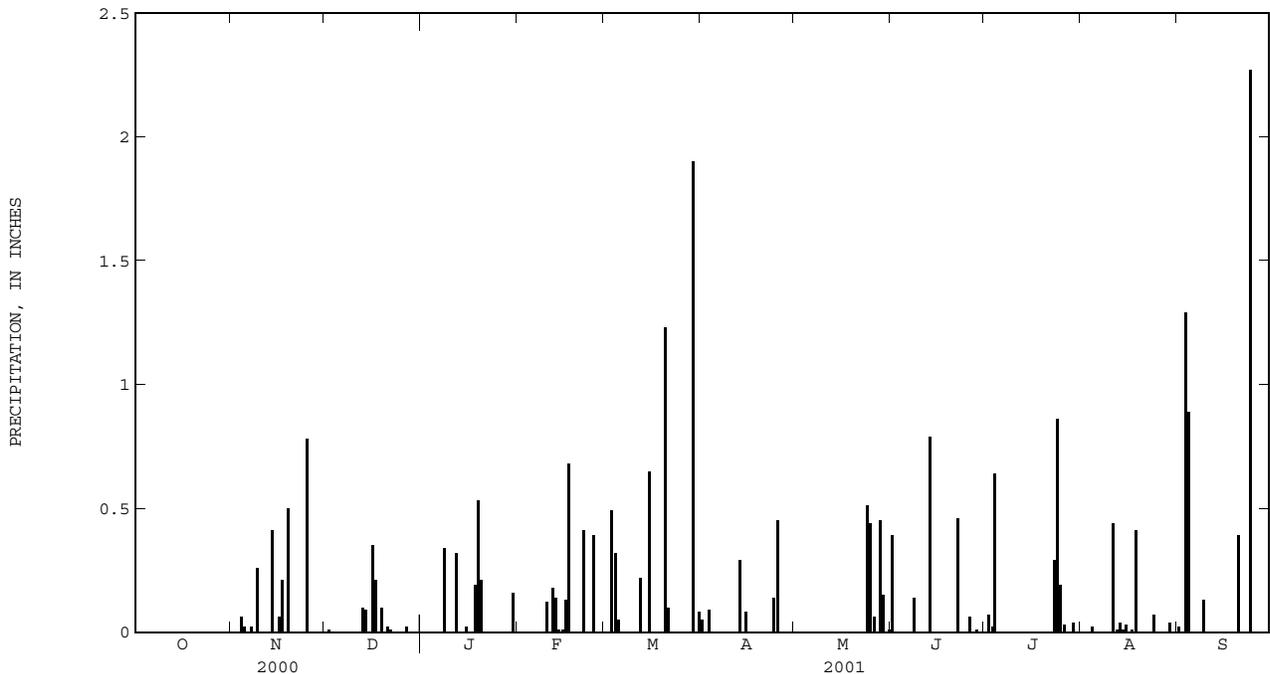
PERIOD OF RECORD.--July 1999 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.05	.00	.39	.00	.00	.02
2	.00	.00	.01	.00	.00	.00	.00	.00	.00	.07	.00	.00
3	.00	.00	.00	.00	.00	.49	.09	.00	.00	.02	.00	1.29
4	.00	.06	.00	.00	.00	.32	.00	.00	.00	.64	.02	.89
5	.00	.02	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.34	.00	.00	.00	.00	.14	---	.00	.00
9	.00	.26	.00	.00	.00	.00	.00	.00	.00	---	.00	.13
10	.00	.00	.00	.00	.12	.00	.00	.00	.00	---	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	---	.44	.00
12	.00	.00	.00	.32	.18	.22	.00	.00	.00	---	.01	.00
13	.00	.00	.10	.00	.14	.00	.29	.00	.79	---	.04	.00
14	.00	.41	.09	.00	.01	.00	.00	.00	.00	---	.01	.00
15	.00	.00	.00	.02	.01	.65	.08	.00	.00	---	.03	.00
16	.00	.06	.35	.00	.13	.00	.00	.00	.00	---	.00	.00
17	.00	.21	.21	.00	.68	.00	.00	.00	.00	---	.01	.00
18	.00	.00	.00	.19	.00	.00	.00	.00	.00	---	.41	.00
19	.00	.50	.10	.53	.00	.00	.00	---	.00	---	.00	.00
20	.00	.00	.00	.21	.00	1.23	.00	---	.00	.00	.00	.39
21	.00	.00	.02	.00	.00	.10	.00	---	.00	.00	.00	.00
22	.00	.00	.01	.00	.41	.00	.00	---	.46	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	---	.00	.29	.00	.00
24	.00	.00	.00	.00	.00	.00	.14	.51	.00	.86	.07	2.27
25	.00	.78	.00	.00	.39	.00	.45	.44	.00	.19	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.06	.06	.03	.00	.00
27	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.45	.01	.00	.00	.00
29	.00	.00	.00	.00	---	1.90	.00	.15	.00	.04	.04	.00
30	.00	.00	.00	.16	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.08	---	.01	---	.00	.00	---
TOTAL	0.00	2.32	0.91	1.77	2.07	5.04	1.10	---	1.85	---	1.08	4.99



352310080424845 CRN51

LOCATION.--Lat 35°23'10", long 80°42'48", Cabarrus County, Hydrologic Unit 03040105, Concord Regional Airport, Aviation Boulevard, Concord, NC.

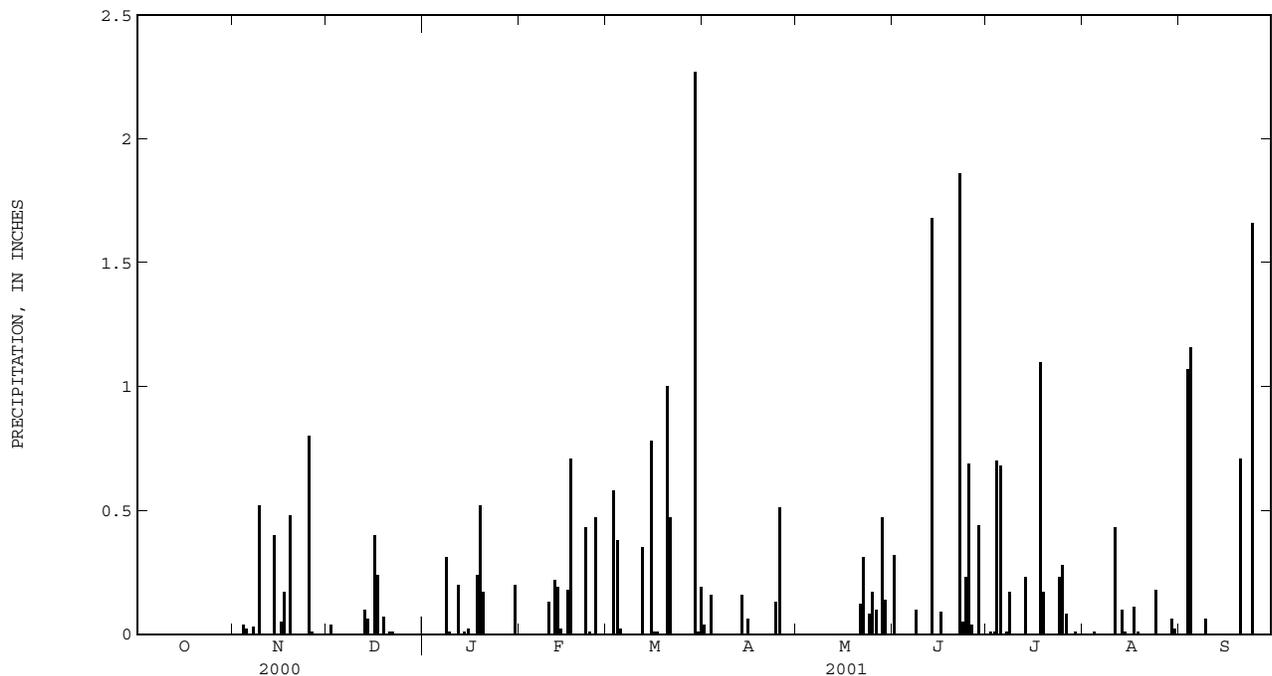
PERIOD OF RECORD.--June 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.04	.00	.32	.00	.00	.00
2	.00	.00	.04	.00	.00	.00	.00	.00	.00	.01	.00	.00
3	.00	.00	.00	.00	.00	.58	.16	.00	.00	.01	.00	1.07
4	.00	.04	.00	.00	.00	.38	.00	.00	.00	.70	.01	1.16
5	.00	.02	.00	.00	.00	.02	.00	.00	.00	.68	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.03	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
8	.00	.00	.00	.31	.00	.00	.00	.00	.10	.17	.00	.00
9	.00	.52	.00	.01	.00	.00	.00	.00	.00	.00	.00	.06
10	.00	.00	.00	.00	.13	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.43	.00
12	.00	.00	.00	.20	.22	.35	.00	.00	.00	.00	.00	.00
13	.00	.00	.10	.00	.19	.00	.16	.00	1.68	.23	.10	.00
14	.00	.40	.06	.01	.02	.00	.00	.00	.00	.00	.01	.00
15	.00	.00	.00	.02	.00	.78	.06	.00	.00	.00	.00	.00
16	.00	.05	.40	.00	.18	.01	.00	.00	.09	.00	.00	.00
17	.00	.17	.24	.00	.71	.01	.00	.00	.00	.00	.11	.00
18	.00	.00	.00	.24	.00	.00	.00	.00	.00	1.10	.01	.00
19	.00	.48	.07	.52	.00	.00	.00	.00	.00	.17	.00	.00
20	.00	.00	.00	.17	.00	1.00	.00	.00	.00	.00	.00	.71
21	.00	.00	.01	.00	.00	.47	.00	.12	.00	.00	.00	.00
22	.00	.00	.01	.00	.43	.00	.00	.31	1.86	.00	.00	.00
23	.00	.00	.00	.00	.01	.00	.00	.00	.05	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.13	.08	.23	.23	.18	1.66
25	.00	.80	.00	.00	.47	.00	.51	.17	.69	.28	.00	.00
26	.00	.01	.00	.00	.00	.00	.00	.10	.04	.08	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.47	.44	.00	.00	.00
29	.00	.00	.00	.00	---	2.27	.00	.14	.00	.01	.06	.00
30	.00	.00	.00	.20	---	.01	.00	.00	.00	.00	.02	.00
31	.00	---	.00	.00	---	.19	---	.00	---	.00	.00	---
TOTAL	0.00	2.52	0.93	1.68	2.36	6.07	1.06	1.39	5.50	3.68	0.93	4.66



SANTEE RIVER BASIN

351753081011745 CRN52

LOCATION.--Lat 35°17'53", long 81°01'17", Gaston County, Hydrologic Unit 03050103, Ida Rankin Elementary School, Central Avenue, Mt. Holly, NC.

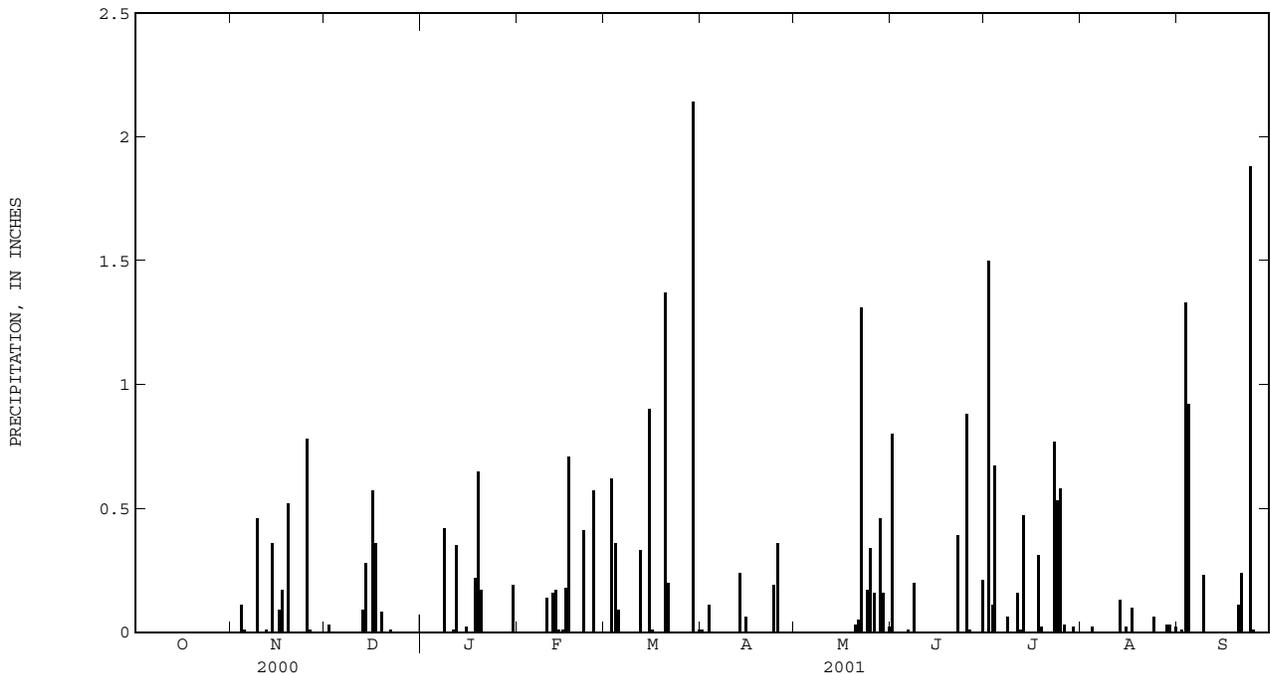
PERIOD OF RECORD.--May 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.01	.00	.80	.00	.00	.00
2	.00	.00	.03	.00	.00	.00	.00	.00	.00	1.50	.00	.01
3	.00	.00	.00	.00	.00	.62	.11	.00	.00	.11	.00	1.33
4	.00	.11	.00	.00	.00	.36	.00	.00	.00	.67	.02	.92
5	.00	.01	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.42	.00	.00	.00	.00	.20	.06	.00	.00
9	.00	.46	.00	.00	.00	.00	.00	.00	.00	.00	.00	.23
10	.00	.00	.00	.00	.14	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.01	.00	.00	.00	.00	.00	.16	.00	.00
12	.00	.01	.00	.35	.16	.33	.00	.00	.00	.01	.00	.00
13	.00	.00	.09	.00	.17	.00	.24	.00	.00	.47	.13	.00
14	.00	.36	.28	.00	.01	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.02	.01	.90	.06	.00	.00	.00	.02	.00
16	.00	.09	.57	.00	.18	.01	.00	.00	.00	.00	.00	.00
17	.00	.17	.36	.00	.71	.00	.00	.00	.00	.00	.10	.00
18	.00	.00	.00	.22	.00	.00	.00	.00	.00	.31	.00	.00
19	.00	.52	.08	.65	.00	.00	.00	.00	.00	.02	.00	.00
20	.00	.00	.00	.17	.00	1.37	.00	.03	.00	.00	.00	.11
21	.00	.00	.00	.00	.00	.20	.00	.05	.00	.00	.00	.24
22	.00	.00	.01	.00	.41	.00	.00	1.31	.39	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.77	.00	.00
24	.00	.00	.00	.00	.00	.00	.19	.17	.00	.53	.06	1.88
25	.00	.78	.00	.00	.57	.00	.36	.34	.88	.58	.00	.01
26	.00	.01	.00	.00	.00	.00	.00	.16	.01	.03	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.46	.00	.00	.03	.00
29	.00	.00	.00	.00	---	2.14	.00	.16	.00	.02	.03	.00
30	.00	.00	.00	.19	---	.00	.00	.00	.21	.00	.00	.00
31	.00	---	.00	.00	---	.01	---	.02	---	.00	.02	---
TOTAL	0.00	2.52	1.42	2.03	2.36	6.03	0.97	2.70	2.50	5.24	0.41	4.73



351412080541245 CRN53

LOCATION.--Lat 35°14'12", long 80°54'12", Mecklenburg County, Hydrologic Unit 03050103, Harding University High School, Alleghany Street, Charlotte, NC.

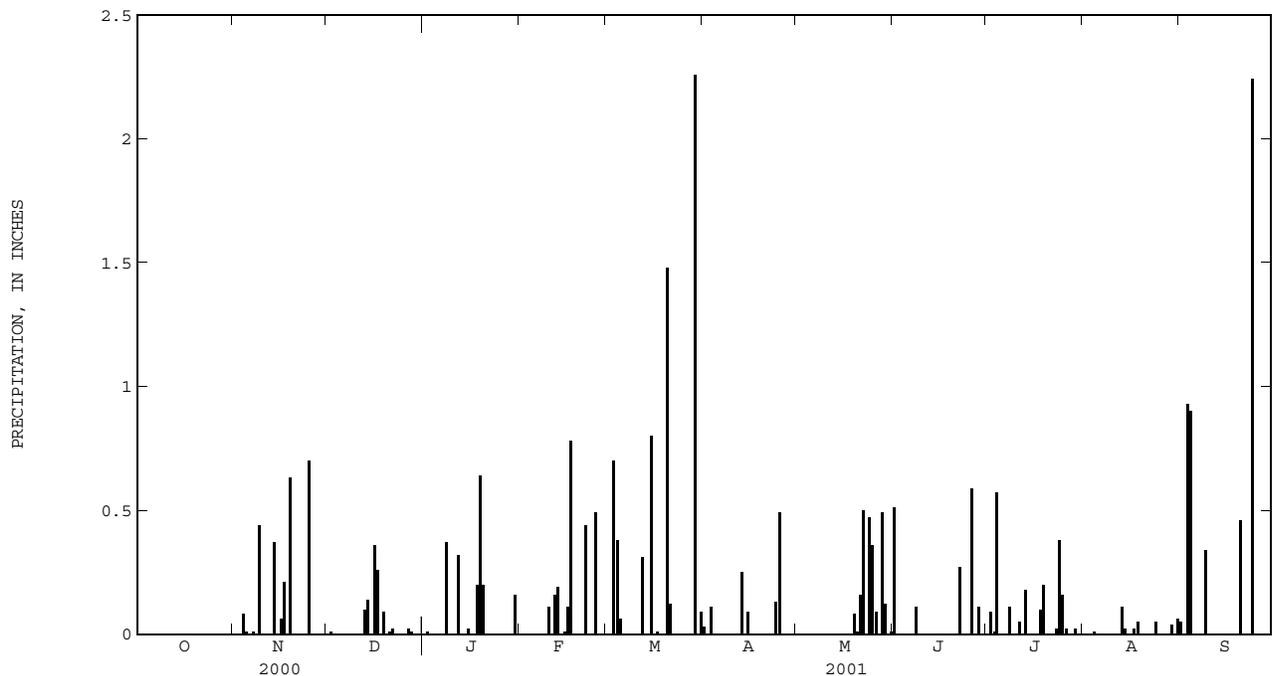
PERIOD OF RECORD.--May 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.03	.00	.51	.00	.00	.05
2	.00	.00	.01	.01	.00	.00	.00	.00	.00	.09	.00	.00
3	.00	.00	.00	.00	.00	.70	.11	.00	.00	.01	.00	.93
4	.00	.08	.00	.00	.00	.38	.00	.00	.00	.57	.01	.90
5	.00	.01	.00	.00	.00	.06	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.37	.00	.00	.00	.00	.11	.11	.00	.00
9	.00	.44	.00	.00	.00	.00	.00	.00	.00	.00	.00	.34
10	.00	.00	.00	.00	.11	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00
12	.00	.00	.00	.32	.16	.31	.00	.00	.00	.00	.00	.00
13	.00	.00	.10	.00	.19	.00	.25	.00	.00	.18	.11	.00
14	.00	.37	.14	.00	.00	.00	.00	.00	.00	.00	.02	.00
15	.00	.00	.00	.02	.01	.80	.09	.00	.00	.00	.00	.00
16	.00	.06	.36	.00	.11	.00	.00	.00	.00	.00	.00	.00
17	.00	.21	.26	.00	.78	.01	.00	.00	.00	.00	.02	.00
18	.00	.00	.00	.20	.00	.00	.00	.00	.00	.10	.05	.00
19	.00	.63	.09	.64	.00	.00	.00	.08	.00	.20	.00	.00
20	.00	.00	.00	.20	.00	1.48	.00	.01	.00	.00	.00	.46
21	.00	.00	.01	.00	.00	.12	.00	.16	.00	.00	.00	.00
22	.00	.00	.02	.00	.44	.00	.00	.50	.27	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00
24	.00	.00	.00	.00	.00	.00	.13	.47	.00	.38	.05	2.24
25	.00	.70	.00	.00	.49	.00	.49	.36	.00	.16	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.09	.59	.02	.00	.00
27	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.01	.00	.00	.00	.00	.49	.11	.00	.00	.00
29	.00	.00	.00	.00	---	2.26	.00	.12	.00	.02	.04	.00
30	.00	.00	.00	.16	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.09	---	.01	---	.00	.06	---
TOTAL	0.00	2.51	1.02	1.92	2.29	6.21	1.10	2.29	1.59	1.91	0.36	4.92



SANTEE RIVER BASIN

351741080475045 CRN54

LOCATION.--Lat 35°17'41", long 80°47'50", Mecklenburg County, Hydrologic Unit 03050103, Derita Elementary School, West Sugar Creek Road, Charlotte, NC.

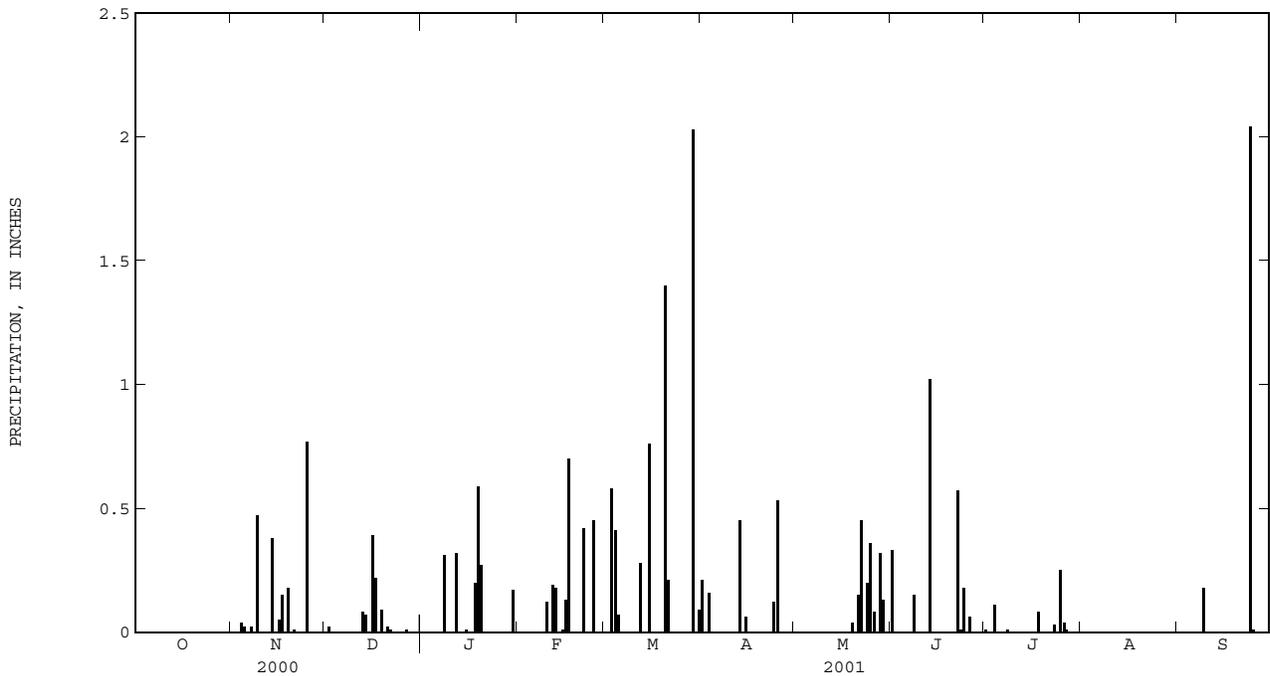
PERIOD OF RECORD.--May 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.21	.00	.33	.01	.00	---
2	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	---
3	.00	.00	.00	.00	.00	.58	.16	.00	.00	.00	.00	---
4	.00	.04	.00	.00	.00	.41	.00	.00	.00	.11	.00	---
5	.00	.02	.00	.00	.00	.07	.00	.00	.00	.00	.00	---
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.31	.00	.00	.00	.00	.15	.01	.00	.00
9	.00	.47	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18
10	.00	.00	.00	.00	.12	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	---	.00
12	.00	.00	.00	.32	.19	.28	.00	.00	.00	.00	---	.00
13	.00	.00	.08	.00	.18	.00	.45	.00	1.02	.00	---	.00
14	.00	.38	.07	.00	.00	.00	.00	.00	.00	.00	---	.00
15	.00	.00	.00	.01	.01	.76	.06	.00	.00	.00	---	.00
16	.00	.05	.39	.00	.13	.00	.00	.00	.00	.00	---	.00
17	.00	.15	.22	.00	.70	.00	.00	.00	.00	.00	---	.00
18	.00	.00	.00	.20	.00	.00	.00	.00	.00	.08	---	.00
19	.00	.18	.09	.59	.00	.00	.00	.04	.00	.00	---	.00
20	.00	.00	.00	.27	.00	1.40	.00	.00	.00	.00	---	.00
21	.00	.01	.02	.00	.00	.21	.00	.15	.00	.00	---	.00
22	.00	.00	.01	.00	.42	.00	.00	.45	.57	.00	---	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	---	.00
24	.00	.00	.00	.00	.00	.00	.12	.20	.18	---	---	2.04
25	.00	.77	.00	.00	.45	.00	.53	.36	.00	.25	---	.01
26	.00	.00	.00	.00	.00	.00	.00	.08	.06	.04	---	.00
27	.00	.00	.01	.00	.00	.00	.00	.00	.00	.01	---	.00
28	.00	.00	.00	.00	.00	.00	.00	.32	.00	.00	---	.00
29	.00	.00	.00	.00	---	2.03	.00	.13	.00	.00	---	.00
30	.00	.00	.00	.17	---	.00	.00	.00	.17	.00	---	.00
31	.00	---	.00	.00	---	.09	---	.00	---	.00	---	---
TOTAL	0.00	2.09	0.91	1.87	2.20	5.83	1.53	1.73	2.32	---	---	---



350324080551845 CRN55

LOCATION.--Lat 35°03'24", long 80°55'18", York County, South Carolina, Hydrologic Unit 03050103, private residence, Hammond Road, Fort Mill, SC.

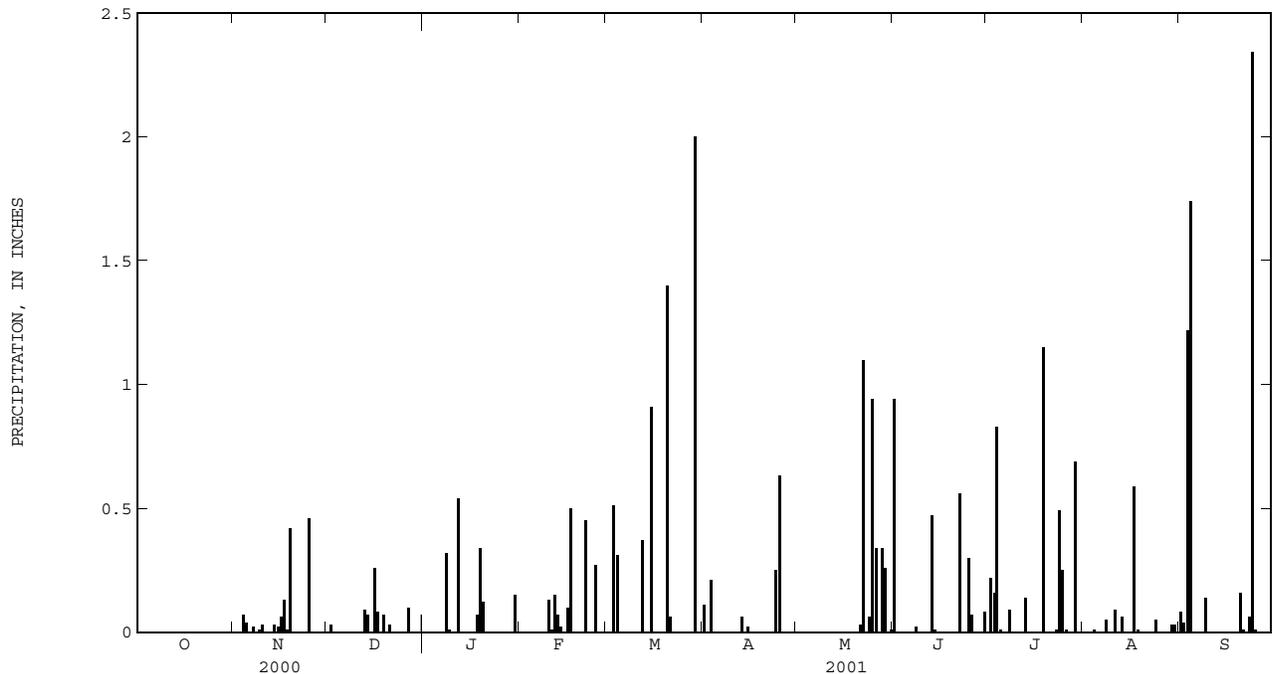
PERIOD OF RECORD.--June 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.11	.00	.94	.00	.00	.08
2	.00	.00	.03	.00	.00	.00	.00	.00	.00	.22	.00	.04
3	.00	.00	.00	.00	.00	.51	.21	.00	.00	.16	.00	1.22
4	.00	.07	.00	.00	.00	.31	.00	.00	.00	.83	.01	1.74
5	.00	.04	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.32	.00	.00	.00	.00	.02	.09	.05	.00
9	.00	.01	.00	.01	.00	.00	.00	.00	.00	.00	.00	.14
10	.00	.03	.00	.00	.13	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.09	.00
12	.00	.00	.00	.54	.15	.37	.00	.00	.00	.00	.00	.00
13	.00	.00	.09	.00	.07	.00	.06	.00	.47	.14	.06	.00
14	.00	.03	.07	.00	.02	.00	.00	.00	.01	.00	.00	.00
15	.00	.02	.00	.00	.00	.91	.02	.00	.00	.00	.00	.00
16	.00	.06	.26	.00	.10	.00	.00	.00	.00	.00	.00	.00
17	.00	.13	.08	.00	.50	.00	.00	.00	.00	.00	.59	.00
18	.00	.01	.00	.07	.00	.00	.00	.00	.00	.00	.01	.00
19	.00	.42	.07	.34	.00	.00	.00	.00	.00	1.15	.00	.00
20	.00	.00	.00	.12	.00	1.40	.00	.00	.00	.00	.00	.16
21	.00	.00	.03	.00	.00	.06	.00	.03	.00	.00	.00	.01
22	.00	.00	.00	.00	.45	.00	.00	1.10	.56	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.06
24	.00	.00	.00	.00	.00	.00	.25	.06	.00	.49	.05	2.34
25	.00	.46	.00	.00	.27	.00	.63	.94	.30	.25	.00	.01
26	.00	.00	.00	.00	.00	.00	.00	.34	.07	.01	.00	.00
27	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.34	.00	.00	.00	.00
29	.00	.00	.00	.00	---	2.00	.00	.26	.00	.69	.03	.00
30	.00	.00	.00	.15	---	.00	.00	.00	.08	.00	.03	.00
31	.00	---	.00	.00	---	.00	---	.01	---	.00	.00	---
TOTAL	0.00	1.30	0.73	1.55	1.70	5.56	1.28	3.08	2.45	4.05	0.92	5.80



SANTEE RIVER BASIN

350635080513245 CRN56

LOCATION.--Lat 35°06'35", long 80°51'32", Mecklenburg County, Hydrologic Unit 03050103, South Mecklenburg High School, Park Road, Charlotte, NC.

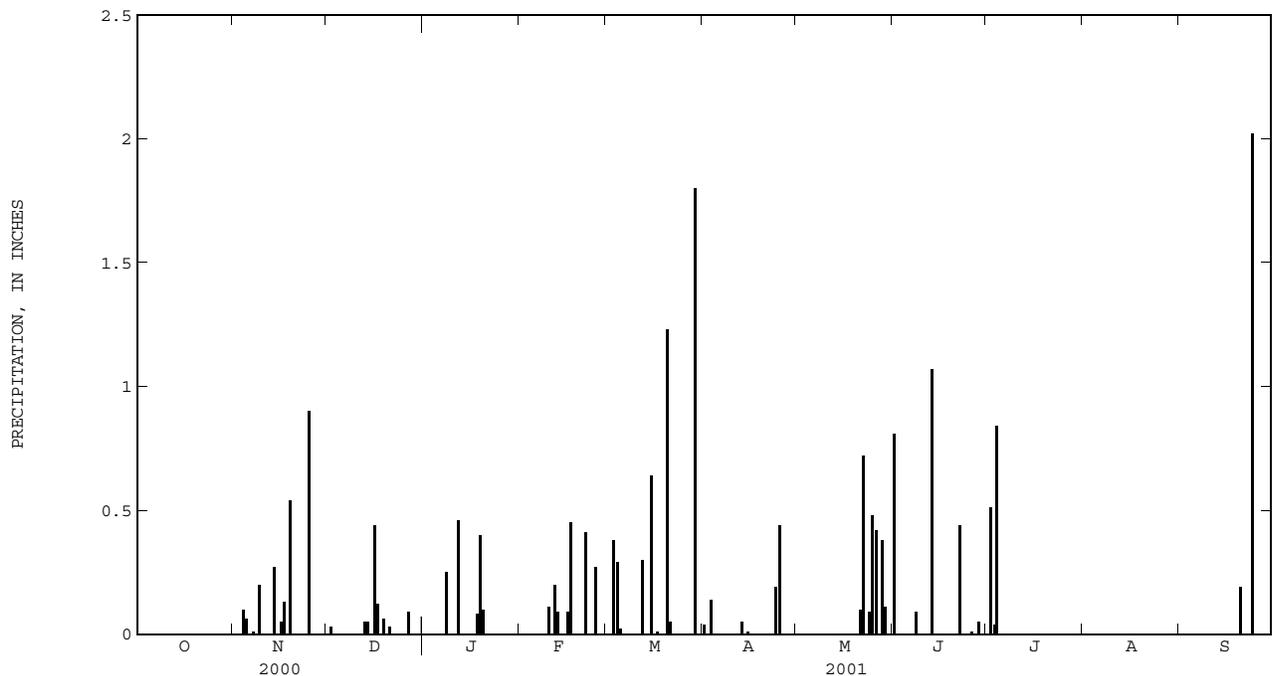
PERIOD OF RECORD.--May 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.04	.00	.81	.00	---	---
2	.00	.00	.03	.00	.00	.00	.00	.00	.00	.51	---	---
3	.00	.00	.00	.00	.00	.38	.14	.00	.00	.04	---	---
4	.00	.10	.00	.00	.00	.29	.00	.00	.00	.84	---	---
5	.00	.06	.00	.00	.00	.02	.00	.00	.00	.00	---	---
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	---	---
7	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	---	---
8	.00	.00	.00	.25	.00	.00	.00	.00	.09	.00	---	---
9	.00	.20	.00	.00	.00	.00	.00	.00	.00	.00	---	---
10	.00	.00	.00	.00	.11	.00	.00	.00	.00	---	---	---
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	---	---	.00
12	.00	.00	.00	.46	.20	.30	.00	.00	.00	---	---	.00
13	.00	.00	.05	.00	.09	.00	.05	.00	1.07	---	---	.00
14	.00	.27	.05	.00	.00	.00	.00	.00	.00	---	---	.00
15	.00	.00	.00	.00	.00	.64	.01	.00	.00	---	---	.00
16	.00	.05	.44	.00	.09	.00	.00	.00	.00	---	---	.00
17	.00	.13	.12	.00	.45	.01	.00	.00	.00	---	---	.00
18	.00	.00	.00	.08	.00	.00	.00	.00	.00	---	---	.00
19	.00	.54	.06	.40	.00	.00	.00	.00	.00	---	---	.00
20	.00	.00	.00	.10	.00	1.23	.00	.00	.00	---	---	.19
21	.00	.00	.03	.00	.00	.05	.00	.10	.00	---	---	.00
22	.00	.00	.00	.00	.41	.00	.00	.72	.44	---	---	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	---	---	.00
24	.00	.00	.00	.00	.00	.00	.19	.09	.00	---	---	2.02
25	.00	.90	.00	.00	.27	.00	.44	.48	.00	---	---	.00
26	.00	.00	.00	.00	.00	.00	.00	.42	.01	---	---	.00
27	.00	.00	.09	.00	.00	.00	.00	.00	.00	---	---	.00
28	.00	.00	.00	.00	.00	.00	.00	.38	.05	---	---	.00
29	.00	.00	.00	.00	---	1.80	.00	.11	.00	---	---	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	---	---	.00
31	.00	---	.00	.00	---	.00	---	.00	---	---	---	---
TOTAL	0.00	2.26	0.87	1.29	1.62	4.72	0.87	2.30	2.47	---	---	---



351109080412145 CRN57

LOCATION.--Lat 35°11'09", long 80°41'21", Mecklenburg County, Hydrologic Unit 03050103, Lebanon Road Elementary School, Lebanon Road, Charlotte, NC.

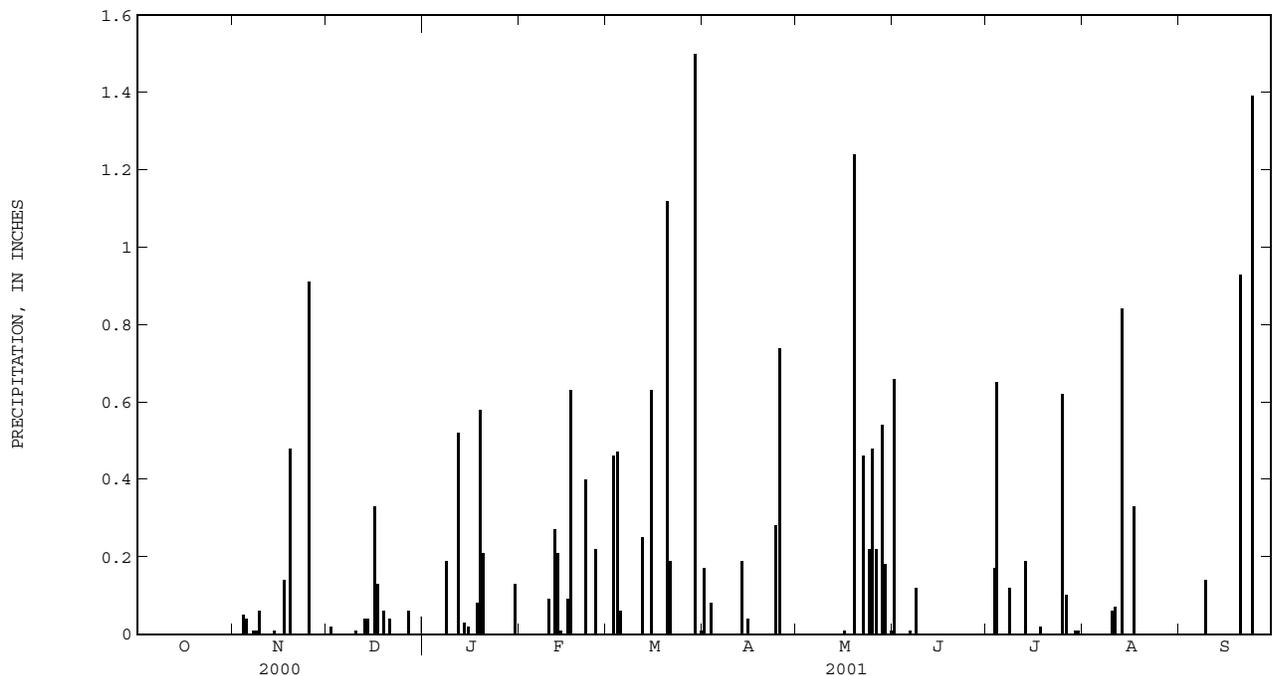
PERIOD OF RECORD.--April 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.17	.00	.66	.00	.00	---
2	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	---
3	.00	.00	.00	.00	.00	.46	.08	.00	.00	.17	.00	---
4	.00	.05	.00	.00	.00	.47	.00	.00	.00	.65	.00	---
5	.00	.04	.00	.00	.00	.06	.00	.00	.00	.00	.00	---
6	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	---
7	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	---
8	.00	.01	.00	.19	.00	.00	.00	.00	.12	.12	.00	.00
9	.00	.06	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14
10	.00	.00	.01	.00	.09	.00	.00	.00	.00	.00	.06	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00
12	.00	.00	.00	.52	.27	.25	.00	.00	---	.00	.00	.00
13	.00	.00	.04	.00	.21	.00	.19	.00	---	.19	.84	---
14	.00	.01	.04	.03	.01	.00	.00	.00	---	.00	.00	---
15	.00	.00	.00	.02	.00	.63	.04	.00	---	.00	.00	---
16	.00	---	.33	.00	.09	.00	.00	.01	---	.00	.00	---
17	.00	.14	.13	.00	.63	.00	.00	.00	---	.00	.33	---
18	.00	.00	.00	.08	.00	.00	.00	.00	---	.02	.00	---
19	.00	.48	.06	.58	.00	.00	.00	1.24	---	---	.00	---
20	.00	.00	.00	.21	.00	1.12	.00	.00	---	---	.00	.93
21	.00	.00	.04	.00	.00	.19	.00	.00	---	---	.00	.00
22	.00	.00	.00	.00	.40	.00	.00	.46	---	---	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	---	---	.00	.00
24	.00	.00	.00	.00	.00	.00	.28	.22	---	---	.00	1.39
25	.00	.91	.00	.00	.22	.00	.74	.48	---	.62	---	.00
26	.00	.00	.00	.00	.00	.00	.00	.22	---	.10	---	.00
27	.00	.00	.06	.00	.00	.00	.00	.00	---	.00	---	.00
28	.00	.00	.00	.00	.00	.00	.00	.54	---	.00	---	.00
29	.00	.00	.00	.00	---	1.50	.00	.18	.00	.01	---	.00
30	.00	.00	.00	.13	---	.00	.00	.00	.00	.01	---	.00
31	.00	---	.00	.00	---	.01	---	.01	---	.00	---	---
TOTAL	0.00	---	0.73	1.76	1.92	4.69	1.50	3.36	---	---	---	---



SANTEE RIVER BASIN

351441080481545 CRN58

LOCATION.--Lat 35°14'41", long 80°48'15", Mecklenburg County, Hydrologic Unit 03050103, Highland Elementary School, Clemson Avenue, Charlotte, NC.

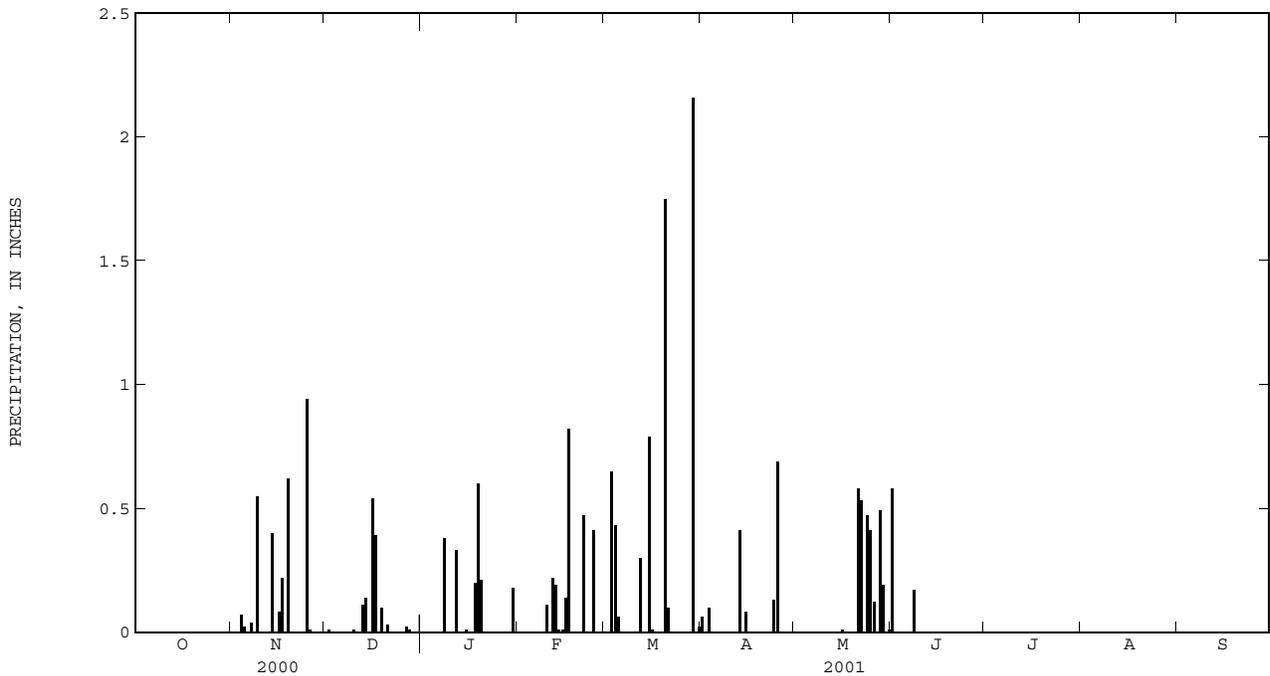
PERIOD OF RECORD.--June 2000 to June 2001 (discontinued).

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, FOR PERIOD OCTOBER 2000 TO JUNE 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.06	.00	.58	---	---	---
2	.00	.00	.01	.00	.00	.00	.00	.00	.00	---	---	---
3	.00	.00	.00	.00	.00	.65	.10	.00	.00	---	---	---
4	.00	.07	.00	.00	.00	.43	.00	.00	.00	---	---	---
5	.00	.02	.00	.00	.00	.06	.00	.00	.00	---	---	---
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---
7	.00	.04	.00	.00	.00	.00	.00	.00	.00	---	---	---
8	.00	.00	.00	.38	.00	.00	.00	.00	.17	---	---	---
9	.00	.55	.00	.00	.00	.00	.00	.00	.00	---	---	---
10	.00	.00	.01	.00	.11	.00	.00	.00	.00	---	---	---
11	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
12	.00	.00	.00	.33	.22	.30	.00	.00	---	---	---	---
13	.00	.00	.11	.00	.19	.00	.41	.00	---	---	---	---
14	.00	.40	.14	.00	.01	.00	.00	.00	---	---	---	---
15	.00	.00	.00	.01	.01	.79	.08	.00	---	---	---	---
16	.00	.08	.54	.00	.14	.01	.00	.01	---	---	---	---
17	.00	.22	.39	.00	.82	.00	.00	.00	---	---	---	---
18	.00	.00	.00	.20	.00	.00	.00	.00	---	---	---	---
19	.00	.62	.10	.60	.00	.00	.00	.00	---	---	---	---
20	.00	.00	.00	.21	.00	1.75	.00	.00	---	---	---	---
21	.00	.00	.03	.00	.00	.10	.00	.58	---	---	---	---
22	.00	.00	.00	.00	.47	.00	.00	.53	---	---	---	---
23	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
24	.00	.00	.00	.00	.00	.00	.13	.47	---	---	---	---
25	.00	.94	.00	.00	.41	.00	.69	.41	---	---	---	---
26	.00	.01	.00	.00	.00	.00	.00	.12	---	---	---	---
27	.00	.00	.02	.00	.00	.00	.00	.00	---	---	---	---
28	.00	.00	.01	.00	.00	.00	.00	.49	---	---	---	---
29	.00	.00	.00	.00	---	2.16	.00	.19	---	---	---	---
30	.00	.00	.00	.18	---	.00	.00	.00	---	---	---	---
31	.00	---	.00	.00	---	.02	---	.01	---	---	---	---
TOTAL	0.00	2.95	1.36	1.91	2.38	6.27	1.47	2.81	---	---	---	---



350624081023345 CRN59

LOCATION.--Lat 35°06'24", long 81°02'33", York County, South Carolina, Hydrologic Unit 03050103, YMCA Camp Thunderbird, Thunderbird Lane, Lake Wylie, SC.

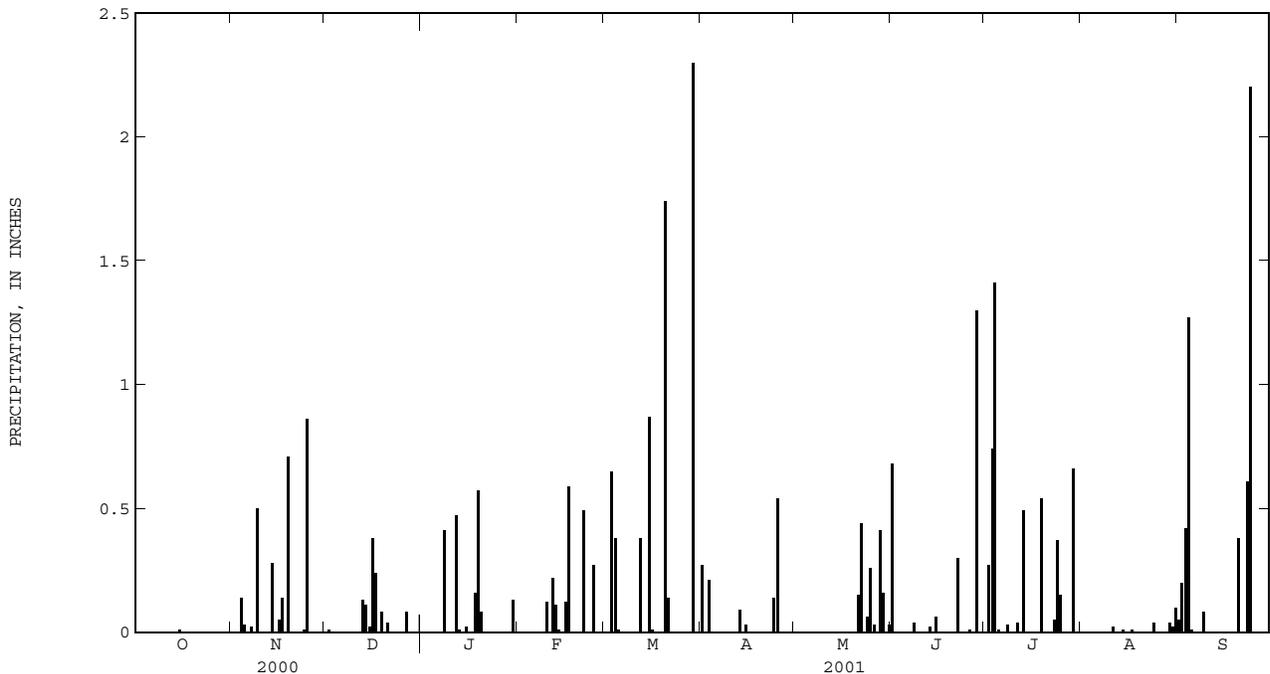
PERIOD OF RECORD.--June 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.27	.00	.68	.00	.00	.05
2	.00	.00	.01	.00	.00	.00	.00	.00	.00	.27	.00	.20
3	.00	.00	.00	.00	.00	.65	.21	.00	.00	.74	.00	.42
4	.00	.14	.00	.00	.00	.38	.00	.00	.00	1.41	.00	1.27
5	.00	.03	.00	.00	.00	.01	.00	.00	.00	.01	.00	.01
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.41	.00	.00	.00	.00	.04	.03	.00	.00
9	.00	.50	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08
10	.00	.00	.00	.00	.12	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.02	.00
12	.00	.00	.00	.47	.22	.38	.00	.00	.00	.00	.00	.00
13	.00	.00	.13	.01	.11	.00	.09	.00	.02	.49	.00	.00
14	.00	.28	.11	.00	.01	.00	.00	.00	.00	.00	.01	.00
15	.01	.00	.02	.02	.00	.87	.03	.00	.06	.00	.00	.00
16	.00	.05	.38	.00	.12	.01	.00	.00	.00	.00	.00	.00
17	.00	.14	.24	.00	.59	.00	.00	.00	.00	.00	.01	.00
18	.00	.00	.00	.16	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.71	.08	.57	.00	.00	.00	.00	.00	.54	.00	.00
20	.00	.00	.00	.08	.00	1.74	.00	.00	.00	.00	.00	.38
21	.00	.00	.04	.00	.00	.14	.00	.15	.00	.00	.00	.00
22	.00	.00	.00	.00	.49	.00	.00	.44	.30	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.61
24	.00	.01	.00	.00	.00	.00	.14	.06	.00	.37	.04	2.20
25	.00	.86	.00	.00	.27	.00	.54	.26	.00	.15	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.03	.01	.00	.00	.00
27	.00	.00	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.41	1.30	.00	.00	.00
29	.00	.00	.00	.00	---	2.30	.00	.16	.00	.66	.04	.00
30	.00	.00	.00	.13	---	.00	.00	.00	.00	.00	.02	.00
31	.00	---	.00	.00	---	.00	---	.03	---	.00	.10	---
TOTAL	0.01	2.74	1.09	1.85	1.93	6.48	1.28	1.54	2.41	4.76	0.24	5.22



SANTEE RIVER BASIN

351104080521845 CRN60

LOCATION.--Lat 35°11'04", long 80°52'18", Mecklenburg County, Hydrologic Unit 03050103, Collinswood Elementary School, Applegate Road, Charlotte, NC.

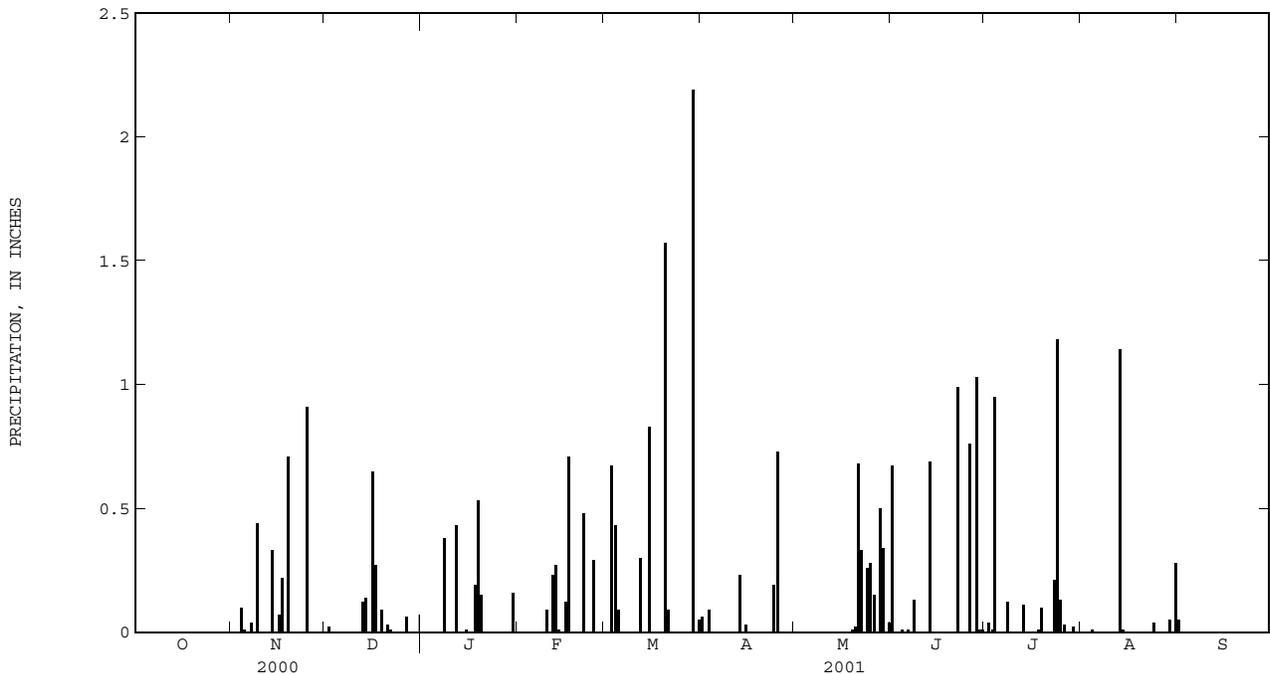
PERIOD OF RECORD.--April 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.06	.00	.67	.00	.00	.05
2	.00	.00	.02	.00	.00	.00	.00	.00	.00	.04	.00	---
3	.00	.00	.00	.00	.00	.67	.09	.00	.00	.01	.00	---
4	.00	.10	.00	.00	.00	.43	.00	.00	.01	.95	.01	---
5	.00	.01	.00	.00	.00	.09	.00	.00	.00	.00	.00	---
6	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	---
7	.00	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	---
8	.00	.00	.00	.38	.00	.00	.00	.00	.13	.12	.00	---
9	.00	.44	.00	.00	.00	.00	.00	.00	.00	.00	.00	---
10	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	---
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	---
12	.00	.00	.00	.43	.23	.30	.00	.00	.00	.00	.00	---
13	.00	.00	.12	.00	.27	.00	.23	.00	.69	.11	1.14	---
14	.00	.33	.14	.00	.01	.00	.00	.00	.00	.00	.01	---
15	.00	.00	.00	.01	.00	.83	.03	.00	.00	.00	.00	---
16	.00	.07	.65	.00	.12	.00	.00	.00	.00	.00	.00	---
17	.00	.22	.27	.00	.71	.00	.00	.00	.00	.00	.00	---
18	.00	.00	.00	.19	.00	.00	.00	.00	.00	.01	.00	---
19	.00	.71	.09	.53	.00	.00	.00	.01	.00	.10	.00	---
20	.00	.00	.00	.15	.00	1.57	.00	.02	.00	.00	.00	---
21	.00	.00	.03	.00	.00	.09	.00	.68	.00	.00	.00	---
22	.00	.00	.01	.00	.48	.00	.00	.33	.99	.00	.00	---
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.21	.00	---
24	.00	.00	.00	.00	.00	.00	.19	.26	.00	1.18	.04	---
25	.00	.91	.00	.00	.29	.00	.73	.28	.00	.13	.00	---
26	.00	.00	.00	.00	.00	.00	.00	.15	.76	.03	.00	---
27	.00	.00	.06	.00	.00	.00	.00	.00	.00	.00	.00	---
28	.00	.00	.00	.00	.00	.00	.00	.50	1.03	.00	.00	---
29	.00	.00	.00	.00	---	2.19	.00	.34	.01	.02	.05	.00
30	.00	.00	.00	.16	---	.00	.00	.00	.01	.00	.00	.00
31	.00	---	.00	.00	---	.05	---	.04	---	.00	.28	---
TOTAL	0.00	2.83	1.39	1.85	2.20	6.22	1.33	2.61	4.31	2.91	1.53	---



## LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN

**02098197 B. EVERETT JORDAN LAKE**

LOCATION.--Lat 35°39'17", long 79°04'02", Chatham County, Hydrologic Unit 03030002, at B. Everett Jordan Dam on Haw River, 0.3 mi downstream of mouth of New Hope River, 2.5 mi north of Moncure, 4.2 mi upstream from mouth of Haw River, and 202.2 mi upstream from mouth of Cape Fear River.

DRAINAGE AREA.--1,689 mi<sup>2</sup>.

PERIOD OF RECORD.--December 1972 to current year.

GAGE.--Water-stage recorder and staff gage at dam. Datum of gage is sea level.

REMARKS.--Lake is used for flood control, water supply, low-flow augmentation, and recreation. Some storage was affected during construction and then operated temporarily as a "dry reservoir" January 1975 to August 1981. Reservoir began filling September 1981 and reached normal pool elevation, 216 ft, Feb. 4, 1982. Total capacity is 32,825,074,000 ft<sup>3</sup> at 240.0 ft, of which 23,454,011,000 ft<sup>3</sup> is controlled flood storage. (See station 02098198.)

**02111391 W. KERR SCOTT RESERVOIR**

LOCATION.--Lat 36°08'04", long 81°13'30", Wilkes County, Hydrologic Unit 03040101, at W. Kerr Scott Dam on Yadkin River, 0.1 mi upstream from Fish Trap Creek, 2.0 mi upstream from Millers Creek, and 4.0 mi west of Wilkesboro.

DRAINAGE AREA.--350 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--August 1962 to current year.

GAGE.--Water-stage recorder and staff gage at dam. Datum of gage is sea level.

REMARKS.--Lake is used for flood control, low-flow augmentation, recreation, and water supply. Some storage was affected during construction in July 1962, but gates were closed Aug. 22, 1962. Reservoir reached normal pool elevation on Jan. 19, 1963. Total capacity at elevation 1075.0 ft is 6,664,680,000 ft<sup>3</sup> of which 4,878,720,000 ft<sup>3</sup> is controlled flood storage.

COOPERATION.--Records furnished by Corps of Engineers. (See station 02129000.)

**02122400 HIGH ROCK LAKE**

LOCATION.--Lat 35°36'02", long 80°14'06", Davidson County, Hydrologic Unit 03040103, at High Rock Dam on Yadkin River, 2 mi upstream from Lick Creek, 0.8 mi northwest of High Rock, and 256 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--4,000 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--November 1927 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Water-stage recorder and staff gage at dam. Datum of gage is 30.9 ft below sea level.

REMARKS.--Lake, used for hydroelectric power development, was first put in operation Nov. 7, 1927. Total capacity is 11,090,000,000 ft<sup>3</sup>. Usable capacity, 10,230,000,000 ft<sup>3</sup>, is between 625 and 655 ft gage datum (top of gates).

COOPERATION.--Records furnished by Yadkin, Inc. (See station 02129000.)

**02122699 TUCKERTOWN RESERVOIR**

LOCATION.--Lat 35°29'03", long 80°10'30", Stanly County, Hydrologic Unit 03040103, at Tuckertown Dam on Yadkin River, 2.5 mi upstream from Garr Creek, 3.8 mi northeast of New London, and 250 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--4,120 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--April 1962 to current year.

GAGE.--Remote water-stage recorder in powerhouse. Datum of gage is 30.9 ft below sea level.

REMARKS.--Lake, used for hydroelectric power development, was first filled Apr. 6, 1962. Total capacity is 1,852,400,000 ft<sup>3</sup>. Usable capacity, 293,800,000 ft<sup>3</sup>, is between 593 and 596 ft gage datum.

COOPERATION.--Records furnished by Yadkin, Inc. (See station 02129000.)

**02122844 BADIN LAKE**

LOCATION.--Lat 35°35'10", long 80°05'34", Stanly County, Hydrologic Unit 03040103, at Badin Dam on Yadkin River, 2.5 mi upstream from Falls Dam, 1.5 mi northeast of Badin, and 242 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--4,180 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--December 1917 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Water-stage recorder and staff gage at dam. Datum of gage is 30.9 ft below sea level.

REMARKS.--Lake, generally known as Narrows Reservoir, used for hydroelectric power development, was first put in operation July 12, 1917. Total capacity is 10,497,960,000 ft<sup>3</sup>. Usable capacity, 5,616,584,000 ft<sup>3</sup>, is between 510.00 and 541.10 ft.

COOPERATION.--Records furnished by Yadkin, Inc. (See station 02129000.)

## LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

**02123736 LAKE TILLERY**

LOCATION.--Lat 35°12'24", long 80°03'57", Stanly County, Hydrologic Unit 03040104, at Norwood Dam on Pee Dee River, 700 ft upstream from Norfolk Southern Railroad bridge, 5 mi upstream from Rocky River, 3.5 mi southeast of Norwood, and 224 mi upstream from mouth in Winyah Bay.

DRAINAGE AREA.--4,600 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--February 1928 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Water-stage recorder and float-tape gage at dam. Datum of gage is 38.67 ft above sea level (levels by Carolina Power and Light Co.).

REMARKS.--Lake, used for hydroelectric power development, was first put in operation during January 1928. Total capacity is 7,274,520,000 ft<sup>3</sup>. Usable capacity, 5,927,040,000 ft<sup>3</sup>, is between elevations 200.5 and 239.5 ft gage datum (top of gates).

COOPERATION.--Records furnished by Carolina Power and Light Co. (See station 02129000.)

**02128800 BLEWETT FALLS LAKE**

LOCATION.--Lat 34°58'58", long 79°52'40", Richmond County, Hydrologic Unit 03040104, at Blewett Falls Dam on Pee Dee River, 1.2 mi upstream from Cartledge Creek, 6.5 mi northwest of Rockingham, and 195 mi upstream from mouth in Winyah Bay.

DRAINAGE AREA.--6,830 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--December 1929 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Self-synchronous motor, dial indicator, and staff gage at dam. Datum of gage is 39.08 ft above sea level (levels by Carolina Power and Light Co.).

REMARKS.--Lake, used for hydroelectric power development, was first put in use during 1911. Total capacity is 4,225,320,000 ft<sup>3</sup>. Usable capacity, 1,850,000,000 ft<sup>3</sup>, is between 120.0 and 139.0 ft gage datum (top of flashboards).

COOPERATION.--Records furnished by Carolina Power and Light Co. (See station 02129000.)

**02138519 LAKE JAMES**

LOCATION.--Lat 35°44'36", long 81°50'22", Burke County, Hydrologic Unit 03050101, at Linville Dam at intake tower on Catawba River, 2.1 mi northeast of Bridgewater, and 279 mi upstream from mouth of Wateree River.

DRAINAGE AREA.--380 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--March 1920 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Float gage with self-synchronous motor to indicator in powerhouse. Staff gage at Catawba River Dam is also read when lake elevation drops below 1,160 ft, 60 ft gage datum, and lake becomes two separate reservoirs. Datum of gage is 1,100.00 ft above sea level (levels by Duke Power Co.).

REMARKS.--Lake, generally known as Bridgewater Reservoir, used for hydroelectric power development, was first put in operation May 5, 1919. The total capacity is 12,581,800,000 ft<sup>3</sup> at 100.0 ft gage datum (crest of spillway). Usable capacity, 7,943,700,000 ft<sup>3</sup>, is between 65.0 and 100.0 ft gage datum.

COOPERATION.--Records furnished by Duke Power Co.

**02141490 RHODHISS LAKE**

LOCATION.--Lat 35°46'54", long 81°26'42", Caldwell County, Hydrologic Unit 03030101, at Rhodhiss Dam on Catawba River, 0.8 mi west of Rhodhiss, 1.8 mi south of Granite Falls, and 243 mi upstream from mouth of Wateree River.

DRAINAGE AREA.--1,090 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--September 1935 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Float gage, indicator, and reference point at dam. Datum of gage is 895.1 ft above sea level (levels by Duke Power Co.).

REMARKS.--Lake, used for hydroelectric power development, was first put in operation Feb. 18, 1925. Total capacity is 3,188,592,000 ft<sup>3</sup>. Usable capacity, 1,717,000,000 ft<sup>3</sup>, is between elevations 85.0 and 100.0 ft gage datum (crest of spillway).

COOPERATION.--Records furnished by Duke Power Co.

## LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

**02141961 LAKE HICKORY**

LOCATION.--Lat 35°49'28", long 81°11'28", Alexander County, Hydrologic Unit 03050101, at Oxford Dam on Catawba River, 2 mi upstream from Lower Little River, 7 mi south of Taylorsville, and 226 mi upstream from mouth of Wateree River.

DRAINAGE AREA.--1,310 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--September 1935 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Float gage and indicator at dam. Datum of gage is 835.0 ft above sea level (levels by Duke Power Co.).

REMARKS.--Lake, generally known as Oxford Reservoir, used for hydroelectric power development, was first put in operation Apr. 5, 1928. Total capacity is 5,552,985,000 ft<sup>3</sup>. The usable capacity from Sept. 1, 1935, to Sept. 30, 1957, was considered to be 2,277,970,200 ft<sup>3</sup> between 85.0 and 100.0 ft gage datum (top of flood gates). Usable capacity from Apr. 30, 1928, to Aug. 31, 1935, Oct. 1, 1957, to Sept. 30, 1964, was considered to be 3,378,400,000 ft<sup>3</sup> between 75.0 and 100.0 ft gage datum (top of flood gates); and from Oct. 1, 1964, to present, is considered to be 2,277,800,000 ft<sup>3</sup> between 85.0 and 100.0 ft gage datum (top of flood gates).

COOPERATION.--Records furnished by Duke Power Co.

**02142441 LOOKOUT SHOALS LAKE**

LOCATION.--Lat 35°45'57", long 81°05'36", Catawba County, Hydrologic Unit 03050101, at Lookout Shoals Dam on Catawba River, 4 mi upstream from bridge on U.S. Highways 64 and 70, 4.2 mi north of Catawba, and 216 mi upstream from mouth of Wateree River.

DRAINAGE AREA.--1,450 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--December 1915 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Float gage, indicator, and staff gage at dam. Datum of gage is 738.1 ft above sea level (levels by Duke Power Co.).

REMARKS.--Lake, used for hydroelectric power development, was first put in operation Dec. 2, 1915. Total capacity was originally 1,355,190,000 ft<sup>3</sup>. Capacity has been reduced by silting. The usable capacity prior to October 1957 was considered to be 473,980,000 ft<sup>3</sup> and from October 1957 to Sept. 30, 1964, was considered to be 388,300,000 ft<sup>3</sup> between elevations 90.0 and 100.0 ft gage datum (crest of spillway). Usable capacity from Oct. 1, 1964, to present is considered to be 208,200,000 ft<sup>3</sup> between 95.0 and 100.0 ft gage datum (crest of spillway). Flood of July 16, 1916, washed out an earth dike.

COOPERATION.--Records furnished by Duke Power Co.

**02142647 LAKE NORMAN**

LOCATION.--Lat 35°26'05", long 80°57'28", Mecklenburg County, Hydrologic Unit 03050101, at Cowans Ford Dam on Catawba River, 0.8 mi upstream from Derr Creek, 7.8 mi southwest of Davidson, and 182 mi upstream from mouth of Wateree River.

DRAINAGE AREA.--1,790 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--March 1962 to current year.

GAGE.--Float gage with transmitter to dial meter in control room. Datum of gage is 660 ft above sea level (levels by Duke Power Co.).

REMARKS.--Lake, used for hydroelectric power development, began filling in March 1962. Total capacity is 47,586,200,000 ft<sup>3</sup>. Usable capacity, 26,910,400,000 ft<sup>3</sup>, is between 75.0 and 100.0 ft gage datum (top of flood gates).

COOPERATION.--Records furnished by Duke Power Co.

**02142676 MOUNTAIN ISLAND LAKE**

LOCATION.--Lat 35°20'03", long 80°59'12", Gaston County, Hydrologic Unit 03050101, at Mountain Island Dam on Catawba River, 1.5 mi downstream from bridge on State Highway 16, 3 mi northeast of Mount Holly, and 167 mi upstream from mouth of Wateree River.

DRAINAGE AREA.--1,860 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--December 1923 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Float gage, indicator, and stage gage at dam. Datum of gage is 547.5 ft above sea level (levels by Duke Power Co.).

REMARKS.--Lake, used for hydroelectric power development, was first put in operation Dec. 16, 1923. Total capacity is 2,495,988,000 ft<sup>3</sup>. Usable capacity prior to October 1964 was considered to be 1,132,000,000 ft<sup>3</sup> between 90.0 and 100.0 ft gage datum (crest of spillway) and from October 1964 to present, 845,000,000 ft<sup>3</sup>, is considered to be between 93.0 and 100.0 ft gage datum (crest of spillway).

COOPERATION.--Records furnished by Duke Power Co.

## LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

**OTHER RESERVOIRS**

The following smaller reservoirs in the South Atlantic Slope basin are described below. Records of contents are not published herein.

**02093981 LAKE HIGGINS**

LOCATION.--Lat 36°10'11", long 79°52'49", Guilford County, Hydrologic Unit 03030002, on Brush Creek near Greensboro.

DRAINAGE AREA.--12 mi<sup>2</sup>, approximately.

REMARKS.--Lake is part of Greensboro's municipal water supply. Total capacity is 107,000,000 ft<sup>3</sup>. Reservoir was first filled Mar. 1, 1957. (See station 02094500.)

**02094117 LAKE BRANDT**

LOCATION.--Lat 36°10'20", long 79°50'20", Guilford County, Hydrologic Unit 03030002, on Reedy Fork and Horsepen Creek near Greensboro.

DRAINAGE AREA.--70.0 mi<sup>2</sup>, approximately.

REMARKS.--Total capacity is 294,000,000 ft<sup>3</sup>. Dam was completed February 1923 and raised to present level 1959-60.

Reservoir first filled to present level on Oct. 8, 1960. Lake is part of Greensboro's municipal water supply. (See station 02094500.)

**02094305 LAKE TOWNSEND**

LOCATION.--Lat 36°11'25", long 79°43'57", Guilford County, Hydrologic Unit 03030002, on Reedy Fork near Greensboro.

DRAINAGE AREA.--105 mi<sup>2</sup>.

REMARKS.--Lake is part of Greensboro's municipal water supply. Total capacity is 869,000,000 ft<sup>3</sup>. Dam was completed Oct. 18, 1968, and reservoir was first filled on Aug. 17, 1969. (See station 02094500.)

**02096003 LAKE BURLINGTON**

LOCATION.--Lat 36°10'25", long 79°24'53", Alamance County, Hydrologic Unit 03030002, on Stony Creek near Burlington.

DRAINAGE AREA.--44 mi<sup>2</sup>, approximately.

REMARKS.--Lake is part of Burlington's municipal water supply. Prior to October 1971 published as "Stony Creek Reservoir." Total capacity is 427,800,000 ft<sup>3</sup>. Dam completed August 1960 and reservoir first filled Jan. 28, 1961. (See station 02096500.)

**02096432 STONY CREEK RESERVOIR**

LOCATION.--Lat 36°07'37", long 79°24'20", Alamance County, Hydrologic Unit 03030002, on Stony Creek near Burlington.

DRAINAGE AREA.--95.0 mi<sup>2</sup>, approximately.

REMARKS.--Lake is part of Burlington's water supply. Prior to October 1971 published as "Lake Burlington." Total capacity is 64,900,000 ft<sup>3</sup>. Dam completed and reservoir filled in 1928. (See station 02096500.)

**02098495 OAK HOLLOW RESERVOIR**

LOCATION.--Lat 36°00'42", long 79°59'11", Guilford County, Hydrologic Unit 03030003, on West Fork Deep River and 1.8 mi southwest of Deep River.

DRAINAGE AREA.--32 mi<sup>2</sup>, approximately.

REMARKS.--Lake is part of High Point's municipal water supply. Total capacity is 468,000,000 ft<sup>3</sup>. Dead storage (nonwithdrawal) is minor. Total surface area, about 725 acres. Dam completed and filling began in May 1970. Reservoir first filled Dec. 24, 1970. (See station 02099500.)

**02099096 HIGH POINT MUNICIPAL LAKE**

LOCATION.--Lat 35°59'43", long 79°56'42", Guilford County, Hydrologic Unit 03030003, on Deep River near High Point, High Point's municipal water supply.

DRAINAGE AREA.--61.4 mi<sup>2</sup>.

REMARKS.--Total capacity is 220,588,000 ft<sup>3</sup>. Dam completed in 1926 and reservoir first filled in 1927. (See station 02099500)

**02102178 BUCKHORN RESERVOIR**

LOCATION.--Lat 35°31'35", long 78°59'22", Chatham County, Hydrologic Unit 03030004, on Cape Fear River near Corinth.

DRAINAGE AREA.--3,200 mi<sup>2</sup>, approximately.

REMARKS.-- Usable capacity is 69,700,000 ft<sup>3</sup>. Completed and filled in 1908. Hydroelectric power operation stopped Dec. 31, 1962.

**02102190 SHEARON HARRIS MAIN RESERVOIR**

LOCATION.--Lat 35°34'00", long 78°57'55", Chatham County, Hydrologic Unit 03030004, on Buckhorn Creek near Corinth.

DRAINAGE AREA.--71 mi<sup>2</sup>.

REMARKS.--Lake is a cooling-water reservoir for Carolina Power and Light Co. powerplant. Total capacity is 3,136,320,000 ft<sup>3</sup> with a surface area of 4,150 acres at a normal elevation of 220 ft above sea level. Dam was completed Dec. 23, 1981, and filling began Dec. 1, 1980. (See station 02102192.)

## LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

**02121461 LEXINGTON-THOMASVILLE RESERVOIR**

LOCATION.--Lat 35°51'54", long 80°11'41", Davidson County, Hydrologic Unit 03050103, on Abbotts Creek near Lexington.

DRAINAGE AREA.--70.3 mi<sup>2</sup>.

REMARKS.--Total capacity is 284,100,000 ft<sup>3</sup> of which 281,400,000 ft<sup>3</sup> is usable. Dam completed Aug. 8, 1957, and reservoir first filled Nov. 23, 1957. Lexington and Thomasville's municipal water supply.

**02184122 LAKE TOXAWAY**

LOCATION.--Lat 35°07'27", long 82°55'56", Transylvania County, Hydrologic Unit 03060101, on Toxaway River at town of Lake Toxaway.

DRAINAGE AREA.--7.79 mi<sup>2</sup>.

REMARKS.--A recreation lake. Total surface area is about 640 acres. Lake reached spillway elevation September 1961.

## LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
02098197 B. Everett Jordan Lake						
Sept. 30 .....	217.84	10,539	--	1,027.52	1,657.76	--
Oct. 31 .....	214.53	8,516	-2,024	1,025.69	1,550.13	-108
Nov. 30 .....	213.54	7,965	-550	1,026.97	1,668.96	119
Dec. 31 .....	213.61	8,004	38	1,027.20	1,638.90	-30
CAL YR 2000		--	-1,794		--	-150
02111391 W. Kerr Scott Reservoir						
Jan. 31 .....	214.90	8,724	721	1,029.03	1,746.02	107
Feb. 28 .....	216.29	9,553	829	1,028.15	1,694.83	-51
Mar. 31 .....	221.91	13,448	3,895	1,032.12	1,947.65	253
Apr. 30 .....	216.41	9,628	-3,819	1,028.19	1,697.18	-250
May 31 .....	216.71	9,817	188	1,028.15	1,694.83	-2
June 30 .....	216.35	9,591	-226	1,027.01	1,627.75	-67
July 31 .....	216.34	9,584	-6	1,031.20	1,885.15	257
Aug. 31 .....	216.76	9,848	264	1,029.05	1,746.84	-138
Sept. 30 .....	215.63	9,153	-695	1,028.74	1,729.51	-17
WTR YR 2001		--	-1,387		--	72
Date	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
02122400 High Rock Lake						
Sept. 30 .....	648.94	7,534	--	594.44	1,694	--
Oct. 31 .....	645.98	6,101	-1,433	595.88	1,840	146
Nov. 30 .....	644.58	5,494	-607	595.10	1,759	-81
Dec. 31 .....	646.30	6,250	756	595.67	1,818	59
CAL YR 2000		--	-330		--	38
02122699 Tuckertown Reservoir						
Jan. 31 .....	647.56	6,847	597	595.60	1,811	-7
Feb. 28 .....	650.60	8,420	1,573	594.82	1,730	-81
Mar. 31 .....	654.51	10,755	2,335	595.40	1,790	60
Apr. 30 .....	652.32	9,408	-1,347	594.89	1,737	-53
May 31 .....	652.20	9,336	-72	595.09	1,758	21
June 30 .....	650.78	8,521	-815	595.63	1,814	56
July 31 .....	650.24	8,223	-298	594.82	1,730	-84
Aug. 31 .....	648.56	7,343	-880	595.35	1,785	55
Sept. 30 .....	646.64	6,408	-935	595.05	1,754	-31
WTR YR 2001		--	-1,126		--	60

## LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
		02122844 Badin Lake				02123736 Lake Tillery
Sept. 30	539.45	10,113	--	277.90	5,866	--
Oct. 31	540.46	10,348	235	278.00	5,888	22
Nov. 30	540.02	10,246	-102	277.50	5,779	-109
Dec. 31	540.05	10,253	7	277.60	5,801	22
CAL YR 2000		--	-193		--	-21
Jan. 31	540.54	10,367	114	278.10	5,910	109
Feb. 28	539.89	10,215	-152	277.90	5,866	-44
Mar. 31	540.72	10,409	194	277.40	5,757	-109
Apr. 30	540.75	10,416	7	277.90	5,866	109
May 31	540.20	10,287	-129	277.90	5,866	0
June 30	540.55	10,369	82	277.60	5,801	-65
July 31	539.53	10,131	-238	277.90	5,866	65
Aug. 31	539.57	10,140	9	277.90	5,866	0
Sept. 30	538.47	9,884	-256	266.70	3,625	-2,241
WTR YR 2001		--	-229		--	-2,241
Date	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
		02128800 Blewett Falls Lake				02138519 Lake James
Sept. 30	177.90	1,832	--	94.8	11,173	--
Oct. 31	177.00	1,732	-100	94.0	10,967	-206
Nov. 30	177.10	1,742	10	94.0	10,967	0
Dec. 31	177.60	1,792	50	94.0	10,967	0
CAL YR 2000		--	120		--	-680
Jan. 31	177.10	1,742	-50	94.6	11,121	154
Feb. 28	177.10	1,742	0	93.6	10,865	-256
Mar. 31	179.40	1,982	240	98.1	12,053	1,188
Apr. 30	175.90	1,622	-360	97.8	11,971	-82
May 31	176.10	1,642	20	97.6	11,916	-55
June 30	178.00	1,842	200	97.1	11,781	-135
July 31	177.70	1,812	-30	98.1	12,053	272
Aug. 31	177.70	1,812	0	96.1	11,514	-539
Sept. 30	176.40	1,672	-140	95.7	11,408	-106
WTR YR 2001		--	-160		--	235

## LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
		02141490 Rhodhiss Lake				
Sept. 30	96.6	1,230	--	97.1	1,775	--
Oct. 31	95.7	1,381	151	96.6	1,691	-84
Nov. 30	96.7	1,243	-138	97.1	1,775	84
Dec. 31	96.6	1,230	-13	96.6	1,691	-84
CAL YR 2000		--	-95		--	-100
				02141961 Lake Hickory		
Jan. 31	97.5	1,353	123	93.3	1,162	-529
Feb. 28	96.9	1,270	-83	93.5	1,193	31
Mar. 31	98.4	1,480	210	98.4	1,996	803
Apr. 30	96.7	1,243	-237	97.4	1,825	-171
May 31	97.0	1,284	41	97.4	1,825	0
June 30	97.1	1,298	14	97.2	1,791	-34
July 31	96.8	1,257	-41	97.1	1,775	-17
Aug. 31	96.5	1,216	-41	96.3	1,641	-133
Sept. 30	96.8	1,257	41	97.1	1,775	133
WTR YR 2001		--	27		--	0
Date	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
		02142441 Lookout Shoals Lake				
Sept. 30	96.9	76	--	96.4	42,680	--
Oct. 31	96.8	72	-4	95.2	41,140	-1,540
Nov. 30	96.8	72	0	94.9	40,760	-380
Dec. 31	96.7	68	-4	94.8	40,630	-130
CAL YR 2000		--	-49		--	-1,790
				02142647 Lake Norman		
Jan. 31	93.0	0	-68	94.5	40,260	-370
Feb. 28	93.6	0	0	95.4	41,390	1,130
Mar. 31	98.7	151	151	97.6	44,280	2,890
Apr. 30	96.9	76	-75	98.6	45,640	1,360
May 31	97.6	105	29	97.8	44,550	-1,090
June 30	98.1	126	21	97.2	43,740	-810
July 31	98.4	138	12	97.1	43,600	-140
Aug. 31	97.8	113	-25	96.1	42,290	-1,310
Sept. 30	97.1	84	-29	95.7	41,780	-510
WTR YR 2001		--	8		--	-900

## LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
02142676 Mountain Island Lake			
Sept. 30.....	96.3	366	--
Oct. 31.....	96.8	426	60
Nov. 30.....	96.5	390	-36
Dec. 31.....	96.0	330	-60
CAL YR 2000		--	-158
Jan. 31.....	97.6	525	195
Feb. 28.....	95.8	307	-218
Mar. 31.....	97.5	512	205
Apr. 30.....	96.8	426	-86
May 31.....	97.4	500	74
June 30.....	97.2	475	-25
July 31.....	97.4	500	25
Aug. 31.....	97.2	475	-25
Sept. 30.....	96.6	402	-73
WTR YR 2001		--	36

## KANAWHA RIVER BASIN

03161000 SOUTH FORK NEW RIVER NEAR JEFFERSON, NC

LOCATION.--Lat 36°23'35", long 81°24'26", Ashe County, Hydrologic Unit 05050001, on right bank 600 ft upstream from bridge on State Highways 16 and 88, 0.2 mi downstream of Bear Creek, and 4 mi southeast of Jefferson.

DRAINAGE AREA.--205 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1924 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 1275: 1925-26(M), 1928-30(M), 1931-32, 1933-35(M), 1941-42(m), 1944(m). WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,657.04 ft above sea level. Prior to Oct. 14, 1934, nonrecording gage on bridge 400 ft downstream at same datum. Oct. 14, 1934, to Mar. 25, 1935, nonrecording gage at present site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for period of record, from rating curve extended above 14,000 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record result of freezeup. Minimum discharge for current water year unaffected by freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 15, 1916, reached a stage of 18.0 ft, from floodmarks witnessed by local resident; discharge, 35,200 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	97	148	e130	189	206	662	181	208	262	421	175
2	129	95	145	e129	174	195	595	199	242	308	392	196
3	127	96	145	e128	165	190	508	200	229	256	345	198
4	127	95	e142	e127	156	212	503	184	193	282	314	272
5	125	95	e144	e126	159	256	431	197	187	310	314	264
6	123	94	e140	e124	156	271	392	204	226	281	282	206
7	118	93	e138	e123	153	226	368	173	223	228	259	188
8	115	99	e136	e122	148	218	340	165	178	215	248	180
9	112	139	e134	e120	146	213	319	167	174	369	236	175
10	109	599	132	e119	148	210	305	176	162	318	233	215
11	110	310	130	e118	149	201	290	163	156	239	234	221
12	109	191	131	e117	143	196	279	156	151	206	297	221
13	108	162	128	e116	144	226	275	154	145	189	429	184
14	108	151	135	e114	162	251	278	150	156	177	426	175
15	105	145	155	e112	212	227	254	145	224	167	303	167
16	104	140	159	e110	255	305	250	154	234	158	259	160
17	103	141	337	e140	261	271	243	278	162	165	236	157
18	105	138	338	186	248	242	253	265	146	158	222	155
19	105	135	225	328	202	222	243	178	136	174	212	154
20	102	133	154	736	187	223	230	222	132	247	200	187
21	104	137	e148	401	180	407	221	267	192	275	189	214
22	102	132	e144	294	182	524	212	226	267	198	181	193
23	102	144	e140	260	186	631	205	261	347	173	177	163
24	104	157	e138	236	198	512	201	231	263	160	181	186
25	103	159	e138	209	217	461	198	271	233	185	239	213
26	121	284	e136	195	291	414	196	580	480	335	180	202
27	133	237	e134	203	241	356	186	339	511	463	174	163
28	111	181	e132	183	218	316	183	263	373	975	168	151
29	102	165	e132	176	---	384	177	238	281	781	168	142
30	100	155	e132	192	---	1460	173	220	278	863	175	139
31	98	---	e131	222	---	842	---	202	---	552	170	---
TOTAL	3455	4899	4801	5896	5270	10868	8970	6809	6889	9669	7864	5616
MEAN	111	163	155	190	188	351	299	220	230	312	254	187
MAX	133	599	338	736	291	1460	662	580	511	975	429	272
MIN	98	93	128	110	143	190	173	145	132	158	168	139
CFSM	.54	.80	.76	.93	.92	1.71	1.46	1.07	1.12	1.52	1.24	.91
IN.	.63	.89	.87	1.07	.96	1.97	1.63	1.24	1.25	1.75	1.43	1.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2001, BY WATER YEAR (WY)

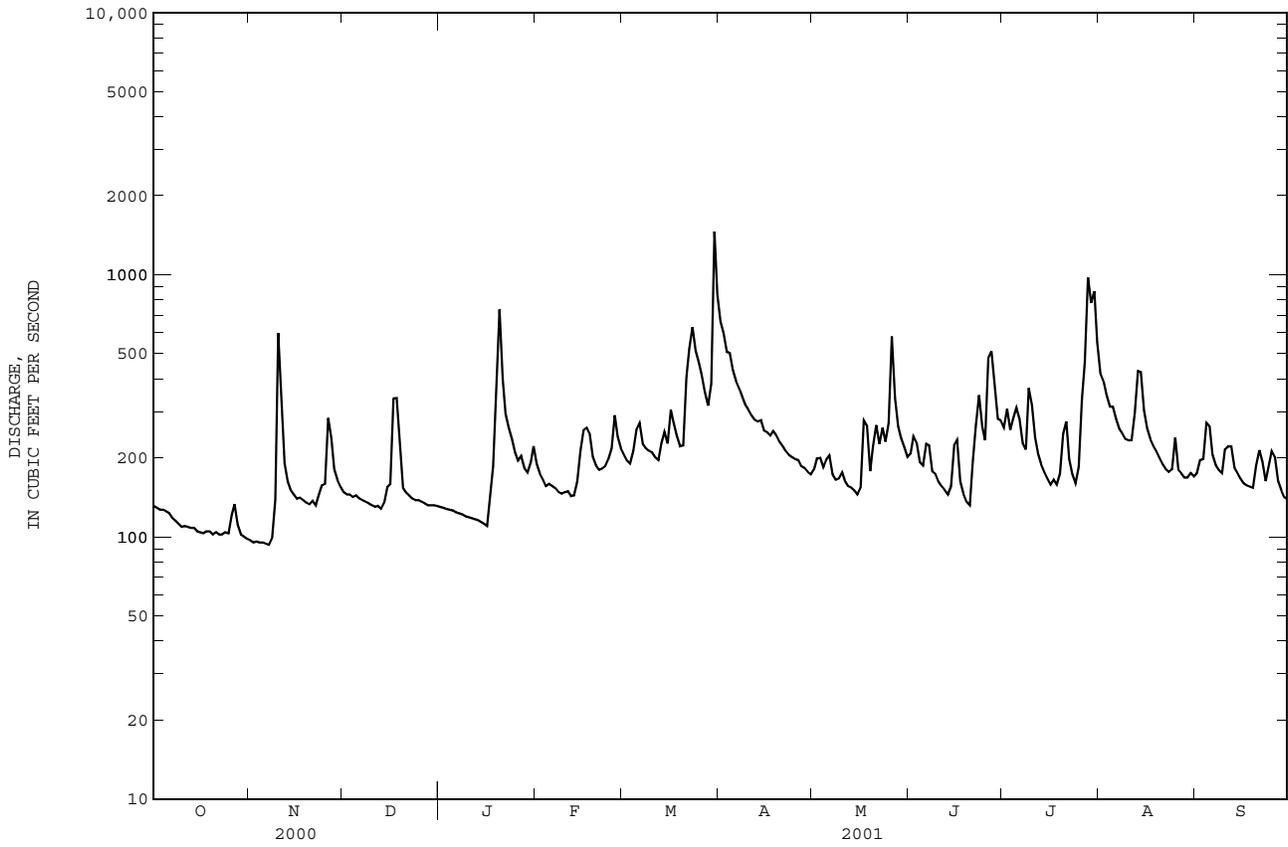
	356	401	404	472	516	587	562	457	388	331	352	321
MEAN	356	401	404	472	516	587	562	457	388	331	352	321
MAX	901	1889	797	1346	1173	1316	1350	1052	1036	904	2613	1212
(WY)	1991	1978	1958	1995	1998	1979	1983	1973	1992	1941	1940	1979
MIN	111	124	146	140	188	222	236	220	158	111	93.7	99.5
(WY)	2001	1932	1934	1940	2001	1988	1986	2001	1988	1930	1925	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1925 - 2001	
ANNUAL TOTAL	92427		81006			
ANNUAL MEAN	253		222		428	
HIGHEST ANNUAL MEAN					669	
LOWEST ANNUAL MEAN					2001	
HIGHEST DAILY MEAN	1280	Mar 21	1460	Mar 30	27700	Aug 14 1940
LOWEST DAILY MEAN	93	Nov 7	93	Nov 7	65	Sep 9 1925
ANNUAL SEVEN-DAY MINIMUM	95	Nov 1	95	Nov 1	72	Aug 21 1925
MAXIMUM PEAK FLOW			2150		52800*	
MAXIMUM PEAK STAGE			4.88		22.50	
INSTANTANEOUS LOW FLOW			90*		52*	
ANNUAL RUNOFF (CFSM)	1.23		1.08		2.09	
ANNUAL RUNOFF (INCHES)	16.77		14.70		28.37	
10 PERCENT EXCEEDS	456		342		709	
50 PERCENT EXCEEDS	206		187		344	
90 PERCENT EXCEEDS	125		118		169	

e Estimated.

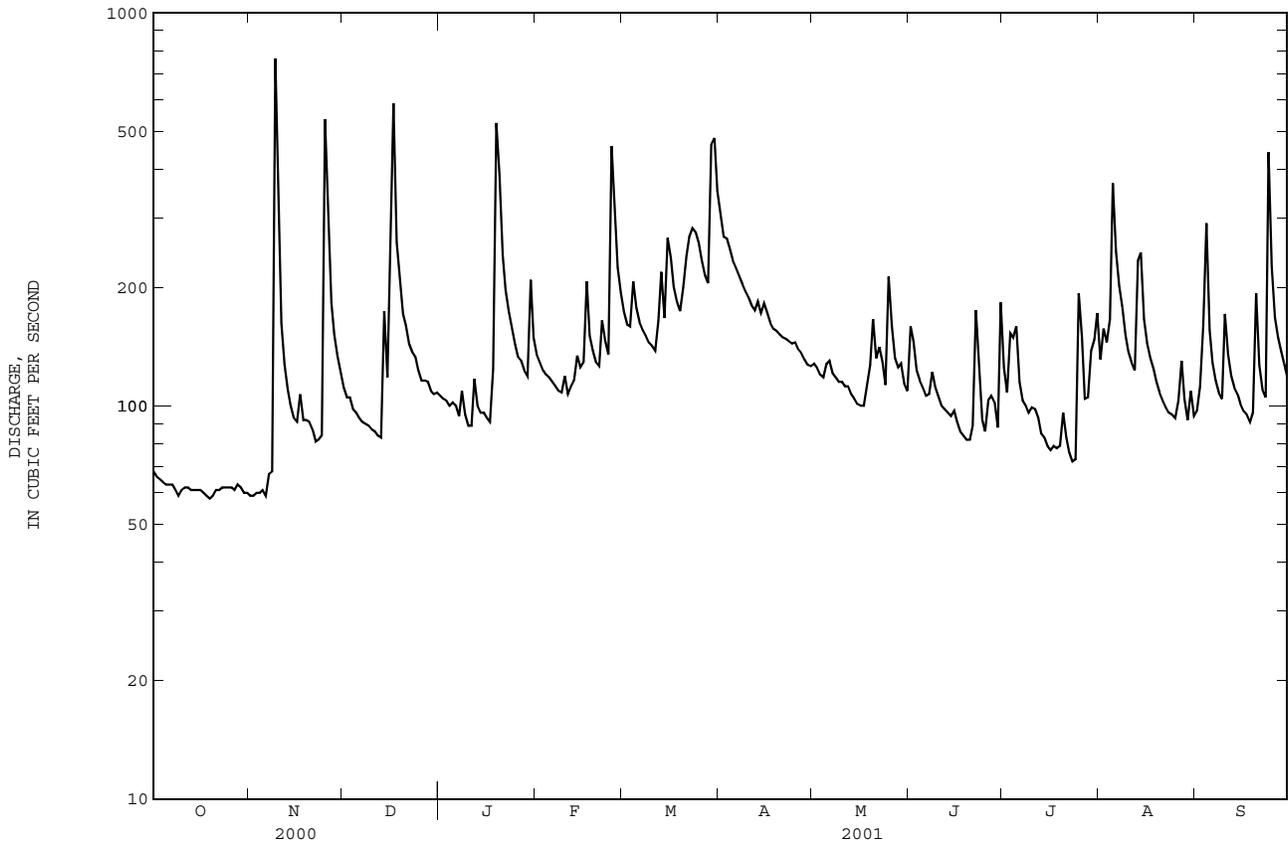
\* See REMARKS.

03161000 SOUTH FORK NEW RIVER NEAR JEFFERSON, NC--Continued





03439000 FRENCH BROAD RIVER AT ROSMAN, NC--Continued



## TENNESSEE RIVER BASIN

03440000 CATHEYS CREEK NEAR BREVARD, NC

LOCATION.--Lat 35°12'40", long 82°47'00", Transylvania County, Hydrologic Unit 06010105, on right bank 1,200 ft downstream of Kuykendall Creek, 1.0 mi upstream from U.S. Highway 64, 2.1 mi upstream from mouth, and 3.2 mi southwest of Brevard.

DRAINAGE AREA.--11.7 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1944 to September 1955, November 1986 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,230 ft above sea level, from topographic map. Prior to Oct. 2, 1946, at site 0.9 mi downstream at different datum. October 2, 1946, to Jan. 9, 1947, at site 0.8 mi downstream of present gage at different datum. Jan. 10, 1947, to Oct. 3, 1951, at present site at different datum. Oct. 3, 1951, to Sept. 30, 1955, at site 40 ft downstream at different datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum discharge for period of record from rating curve extended above 600 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow. City of Brevard diverted about 1.8 ft<sup>3</sup>/s from Catheys Creek for municipal water supply. Minimum discharge for period of record also occurred Sept. 25, 1999. Minimum discharge for current water year also occurred Oct. 9 and Nov. 1, 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	8.8	17	e17	23	29	47	23	30	13	28	15
2	8.6	8.6	16	e17	22	28	42	23	25	30	27	18
3	8.8	8.7	17	e16	21	29	42	22	22	20	27	22
4	8.6	8.8	15	e16	21	34	40	21	20	18	30	26
5	8.3	8.7	15	e16	20	30	38	25	19	16	34	17
6	8.2	8.5	15	e16	20	28	36	23	18	14	27	16
7	8.5	11	15	e16	19	27	35	22	19	13	30	14
8	7.5	9.7	14	e16	19	26	34	22	21	14	28	14
9	8.4	95	14	e16	19	25	33	21	18	15	23	14
10	8.7	40	14	e15	20	24	32	21	18	14	22	17
11	8.8	21	14	e15	19	24	31	20	17	13	20	14
12	8.5	18	13	e15	19	29	31	20	16	12	20	13
13	8.6	15	14	e15	21	32	32	19	16	12	36	13
14	8.6	15	27	e15	23	27	30	18	15	11	33	13
15	8.5	13	18	16	21	43	33	18	15	11	25	12
16	8.6	14	44	15	24	37	30	18	14	11	22	12
17	8.6	16	68	15	32	33	29	23	14	10	21	12
18	8.6	13	35	22	25	31	28	22	13	10	20	11
19	8.4	14	e31	66	23	29	28	26	13	13	18	14
20	8.5	13	e27	45	22	34	27	27	13	29	17	22
21	9.6	13	e25	32	21	39	27	23	13	15	16	14
22	9.9	12	e24	28	27	44	26	28	17	13	16	13
23	8.7	13	e23	26	24	47	26	24	15	11	16	13
24	8.6	13	e22	24	23	48	26	22	13	13	15	75
25	8.6	59	e21	23	64	46	26	37	14	34	15	29
26	9.2	33	e20	22	43	41	25	28	16	25	15	22
27	8.7	25	e19	21	35	37	24	23	13	22	16	20
28	9.5	21	e18	20	31	35	24	23	13	22	15	18
29	8.9	19	18	20	---	73	24	22	12	26	14	17
30	9.1	18	18	33	---	70	23	20	20	26	14	16
31	8.4	---	e17	25	---	53	---	19	---	37	14	---
TOTAL	269.9	585.8	668	674	701	1132	929	703	502	543	674	546
MEAN	8.71	19.5	21.5	21.7	25.0	36.5	31.0	22.7	16.7	17.5	21.7	18.2
MAX	9.9	95	68	66	64	73	47	37	30	37	36	75
MIN	7.5	8.5	13	15	19	24	23	18	12	10	14	11
CFSM	.74	1.67	1.84	1.86	2.14	3.12	2.65	1.94	1.43	1.50	1.86	1.56
IN.	.86	1.86	2.12	2.14	2.23	3.60	2.95	2.24	1.60	1.73	2.14	1.74

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2001,® BY WATER YEAR (WY)

	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	24.0	30.0	34.3	43.8	46.9	53.9	48.6	38.1	32.9	28.4	28.3	24.2															
MAX	70.0	77.9	63.3	86.3	90.1	110	71.4	57.3	78.2	94.9	91.2	67.8															
(WY)	1996	1949	1993	1998	1998	1952	1998	1949	1989	1949	1994	1950															
MIN	7.30	8.69	13.4	14.5	24.7	20.7	27.2	17.2	11.6	10.9	9.64	8.21															
(WY)	1955	1955	1999	1955	1989	1988	1988	1988	1988	1988	1988	1954															

SUMMARY STATISTICS

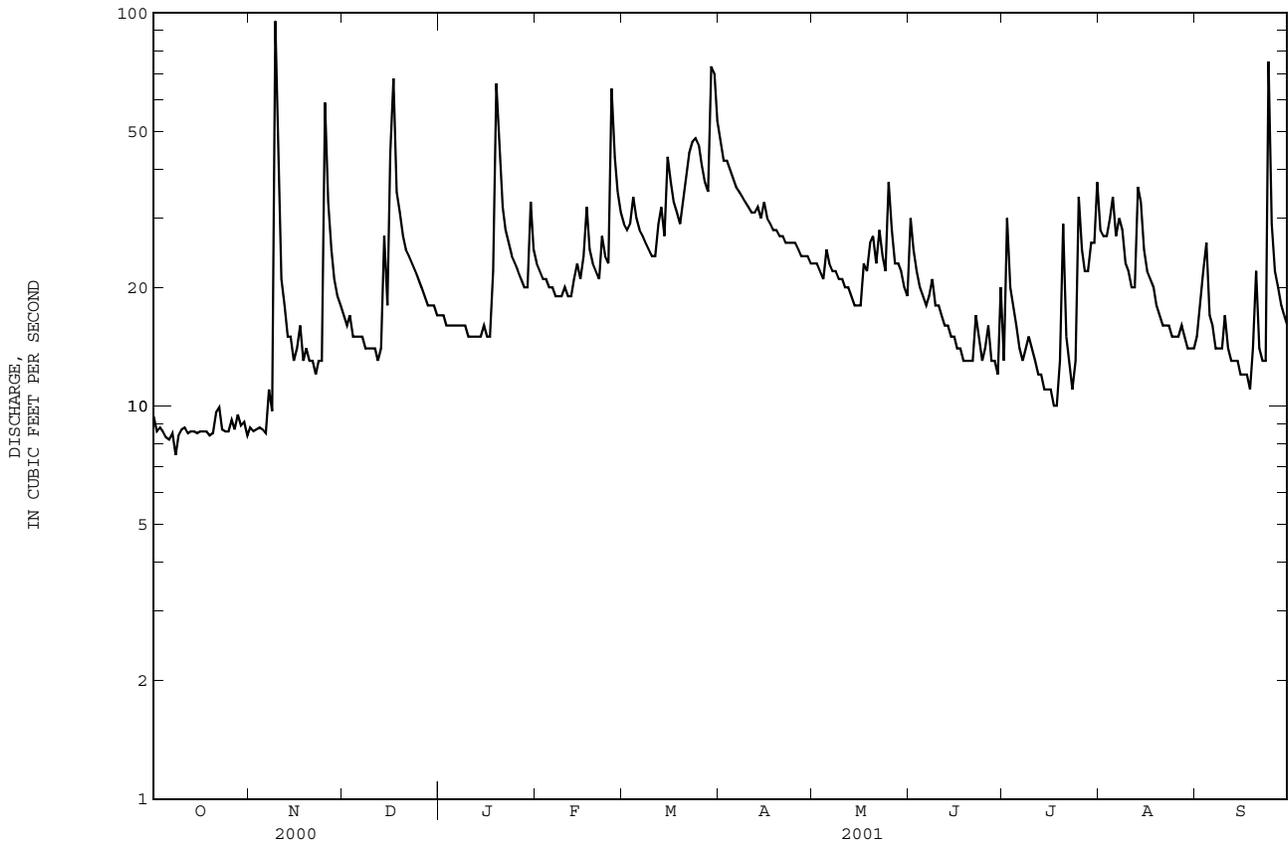
	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1945 - 2001®	
ANNUAL TOTAL	8322.6		7927.7			
ANNUAL MEAN	22.7		21.7		36.0	
HIGHEST ANNUAL MEAN					59.7	
LOWEST ANNUAL MEAN					18.3	
HIGHEST DAILY MEAN	154	Mar 20	95	Nov 9	814	Aug 17 1994
LOWEST DAILY MEAN	7.5	Oct 8	7.5	Oct 8	6.0	Sep 16 1999
ANNUAL SEVEN-DAY MINIMUM	8.3	Oct 4	8.3	Oct 4	6.6	Oct 20 1954
MAXIMUM PEAK FLOW			255		2410*	
MAXIMUM PEAK STAGE			3.13		7.28	
INSTANTANEOUS LOW FLOW			4.5*		2.9*	
ANNUAL RUNOFF (CFSM)	1.94		1.86		3.08	
ANNUAL RUNOFF (INCHES)	26.46		25.21		41.82	
10 PERCENT EXCEEDS	40		34		63	
50 PERCENT EXCEEDS	18		20		29	
90 PERCENT EXCEEDS	9.3		9.7		13	

e Estimated.

® See PERIOD OF RECORD.

\* See REMARKS.

03440000 CATHEYS CREEK NEAR BREVARD, NC--Continued



## TENNESSEE RIVER BASIN

03441000 DAVIDSON RIVER NEAR BREVARD, NC

LOCATION.--Lat 35°16'23", long 83°42'21", Transylvania County, Hydrologic Unit 06010105, on right bank 150 ft upstream of bridge on State Highway 280, 2.1 mi downstream of Avery Creek, 3.3 mi northeast of Brevard, and at mile 2.2.

DRAINAGE AREA.--40.4 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1920 to September 1990, October 1993 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage Area. WSP 1336: 1921, 1922 (M), 1923, 1924-25 (M), 1926, 1927 (M), 1929-32 (M).

GAGE.--Water-stage recorder. Datum of gage is 2,115.13 ft above sea level (levels by Tennessee Valley Authority). Prior to May 17, 1934, nonrecording gage at site 50 ft downstream at same datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Minimum discharge for current water year also occurred several days in Oct. and Nov.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1869, 11.9 ft June 1876 (from studies by Tennessee Valley Authority).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	26	59	e54	77	111	188	67	97	43	75	45
2	28	26	56	e54	73	103	162	65	84	41	73	48
3	27	26	58	e54	69	103	160	63	67	53	60	80
4	28	26	53	e54	67	139	146	61	61	48	74	127
5	29	28	51	e54	65	119	135	61	57	40	98	69
6	28	26	50	e54	62	107	128	61	59	36	79	54
7	28	32	49	51	61	100	121	58	61	35	62	48
8	27	34	48	58	59	96	115	58	66	38	57	44
9	27	355	47	e47	58	92	110	57	59	37	54	42
10	28	179	47	e44	66	87	106	58	54	36	74	69
11	28	81	46	e44	58	83	102	58	51	34	65	52
12	28	63	45	56	61	99	98	58	48	32	53	45
13	27	55	44	48	68	130	107	53	47	33	82	43
14	27	50	107	47	87	101	97	50	44	31	71	40
15	27	46	69	47	81	171	103	49	44	29	55	38
16	27	45	164	45	85	150	96	47	42	29	50	36
17	26	55	387	43	147	128	90	90	39	31	48	35
18	26	46	153	77	102	116	87	80	38	29	47	34
19	26	46	121	370	91	107	84	64	38	39	42	37
20	26	45	e94	234	84	124	82	91	38	104	39	90
21	27	43	e84	140	80	158	80	66	51	46	38	49
22	27	41	78	113	93	178	78	71	61	37	36	42
23	27	41	e72	99	88	191	77	65	54	34	35	39
24	27	42	e68	90	80	184	76	56	42	33	36	220
25	28	232	e65	81	248	172	76	150	41	111	34	107
26	29	138	e62	76	186	153	72	97	46	80	40	76
27	28	95	60	73	140	138	70	73	45	62	53	64
28	27	78	59	69	123	128	68	68	40	68	40	56
29	27	70	56	67	---	297	66	68	38	79	41	51
30	26	64	e54	118	---	315	66	59	48	78	54	49
31	26	---	e54	85	---	225	---	56	---	66	40	---
TOTAL	846	2134	2460	2546	2559	4405	3046	2078	1560	1492	1705	1829
MEAN	27.3	71.1	79.4	82.1	91.4	142	102	67.0	52.0	48.1	55.0	61.0
MAX	29	355	387	370	248	315	188	150	97	111	98	220
MIN	26	26	44	43	58	83	66	47	38	29	34	34
CFSM	.68	1.76	1.96	2.03	2.26	3.52	2.51	1.66	1.29	1.19	1.36	1.51
IN.	.78	1.96	2.27	2.34	2.36	4.06	2.80	1.91	1.44	1.37	1.57	1.68

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2001,® BY WATER YEAR (WY)

MEAN	95.0	105	130	156	169	185	173	141	112	91.3	98.2	87.9
MAX	379	362	323	374	363	466	349	293	254	285	404	297
(WY)	1965	1980	1933	1937	1939	1929	1957	1923	1967	1989	1928	1928
MIN	18.2	24.5	31.7	37.8	66.5	74.1	57.7	54.6	37.9	37.2	24.0	17.5
(WY)	1955	1955	1940	1956	1941	1988	1986	1941	1988	1986	1925	1954

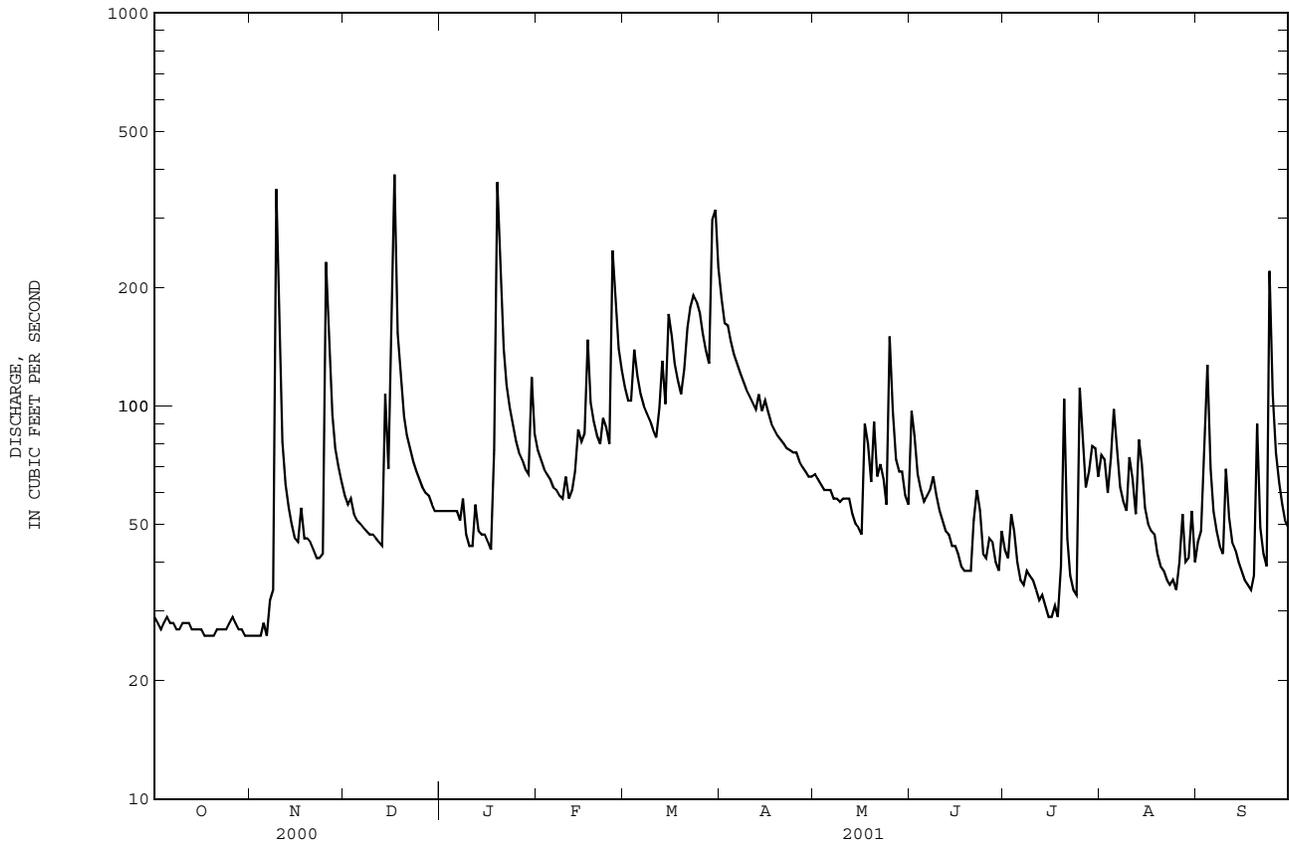
SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1921 - 2001®
ANNUAL TOTAL	29820	26660	
ANNUAL MEAN	81.5	73.0	128
HIGHEST ANNUAL MEAN			208
LOWEST ANNUAL MEAN			70.6
HIGHEST DAILY MEAN	811	Mar 20	2940
LOWEST DAILY MEAN	25	Jul 21	14
ANNUAL SEVEN-DAY MINIMUM	26	Oct 29	15
MAXIMUM PEAK FLOW			8400
MAXIMUM PEAK STAGE		3.24	12.08
INSTANTANEOUS LOW FLOW		26*	13
ANNUAL RUNOFF (CFSM)	2.02	1.81	3.18
ANNUAL RUNOFF (INCHES)	27.46	24.55	43.18
10 PERCENT EXCEEDS	152	128	229
50 PERCENT EXCEEDS	62	59	100
90 PERCENT EXCEEDS	28	29	42

e Estimated.

® See PERIOD OF RECORD.

\* See REMARKS.

03441000 DAVIDSON RIVER NEAR BREVARD, NC--Continued



## TENNESSEE RIVER BASIN

03443000 FRENCH BROAD RIVER AT BLANTYRE, NC

LOCATION.--Lat 35°17'56", long 82°37'26", Transylvania County, Hydrologic Unit 06010105, on left bank 40 ft upstream from bridge on Secondary Road 1503, 700 ft east of railroad at Blantyre, 3.5 mi downstream of Little River, and at mile 183.7.

DRAINAGE AREA.--296 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1920 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 923: 1921-23, 1929, 1933, 1935-36(M), 1938, 1940.

GAGE.--Water-stage recorder. Datum of gage is 2,060.32 ft above sea level (levels by Tennessee Valley Authority). Prior to July 5, 1930, nonrecording gage at same site and datum. Satellite and telephone telemetry at station.

REMARKS.--Records fair except those above 2,600 ft<sup>3</sup>/s, which are poor. Considerable diurnal fluctuation at low flow caused by power plant about 8 mi upstream from station. Maximum gage height for period of record, 25.50 ft, from floodmarks.

EXTREMES OUTSIDE PERIOD OF RECORD.--Since at least 1791, maximum stage 27.1 ft, July 16, 1916, from floodmarks (from studies by Tennessee Valley Authority).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	252	214	490	387	602	798	1370	518	549	428	640	339
2	246	217	461	405	580	738	1170	544	731	351	498	392
3	241	218	463	358	538	695	1080	513	563	460	524	560
4	237	213	452	367	527	808	1050	490	501	527	494	705
5	232	209	417	423	515	794	958	475	470	475	622	676
6	231	212	409	411	499	717	908	527	489	401	757	489
7	230	214	392	391	484	647	870	488	514	330	652	397
8	227	251	398	421	470	643	837	471	495	307	609	356
9	218	797	375	449	467	619	789	461	525	306	466	333
10	221	2300	375	369	491	587	776	459	461	319	439	369
11	224	844	372	369	483	575	733	489	429	304	455	444
12	226	539	365	431	463	577	718	478	404	295	384	361
13	221	465	347	478	482	879	719	454	388	283	450	327
14	221	404	554	412	555	736	755	415	378	261	664	311
15	217	361	618	411	543	898	703	402	409	245	539	302
16	214	339	745	411	549	1120	711	389	377	238	438	284
17	213	378	2220	396	798	897	668	391	337	242	383	279
18	213	366	1220	447	703	802	640	553	311	247	398	266
19	217	338	899	1390	606	734	624	414	297	244	353	256
20	213	351	767	1970	577	744	611	592	291	480	320	592
21	212	337	663	1080	543	1100	604	520	299	415	301	529
22	221	315	621	856	603	1310	595	699	299	293	287	373
23	222	320	530	747	713	1390	584	722	488	262	276	325
24	223	306	563	685	603	1260	577	538	348	244	346	1060
25	231	1320	522	635	1320	1170	611	689	309	542	287	1200
26	234	1640	503	581	1660	1050	578	867	367	941	288	685
27	234	866	485	572	1060	933	551	631	395	565	369	550
28	229	681	478	571	891	864	534	560	332	578	611	483
29	227	585	464	524	---	1270	516	575	316	477	364	435
30	226	530	444	716	---	2730	506	528	346	609	341	404
31	224	---	360	724	---	1720	---	459	---	538	367	---
TOTAL	6997	16130	17972	18387	18325	29805	22346	16311	12418	12207	13922	14082
MEAN	226	538	580	593	654	961	745	526	414	394	449	469
MAX	252	2300	2220	1970	1660	2730	1370	867	731	941	757	1200
MIN	212	209	347	358	463	575	506	389	291	238	276	256
CFSM	.76	1.82	1.96	2.00	2.21	3.25	2.52	1.78	1.40	1.33	1.52	1.59
IN.	.88	2.03	2.26	2.31	2.30	3.75	2.81	2.05	1.56	1.53	1.75	1.77

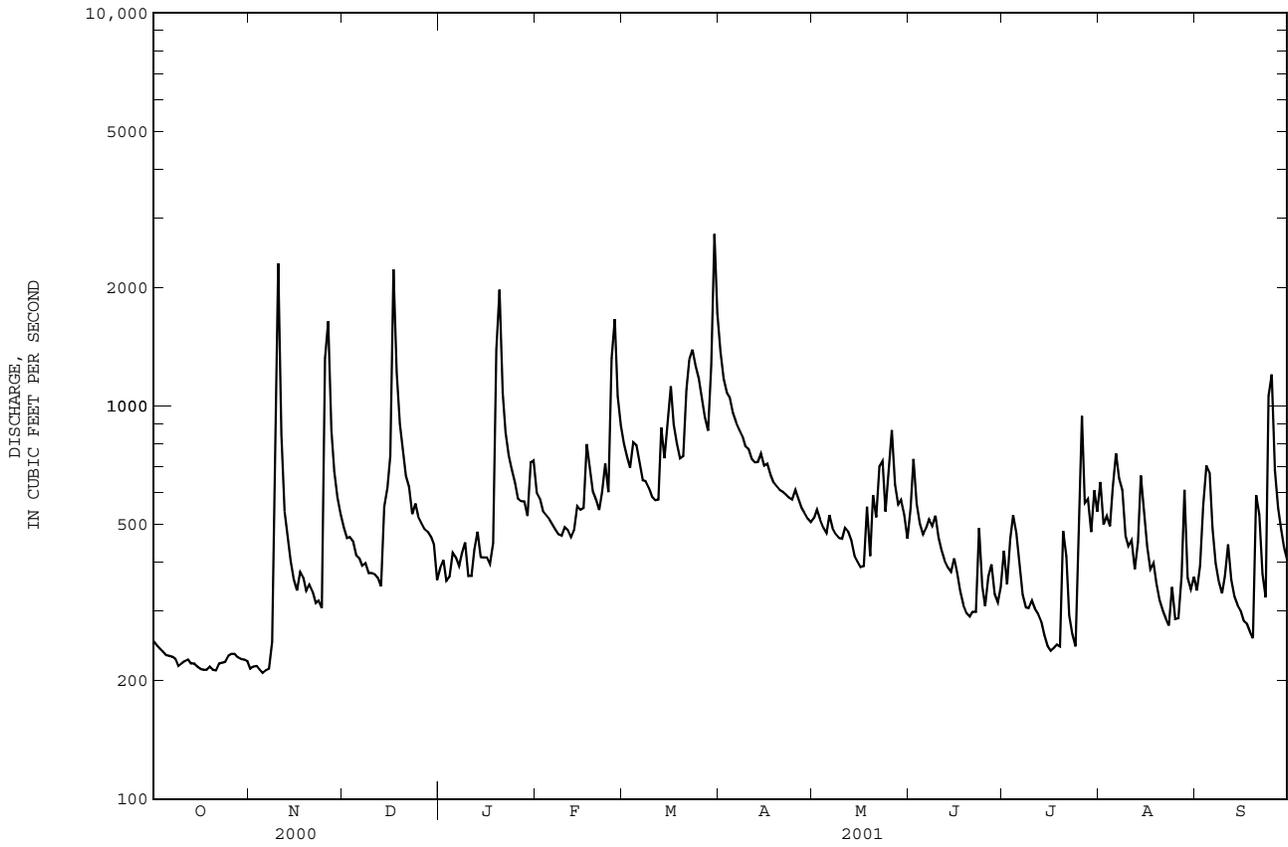
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2001, BY WATER YEAR (WY)

	MEAN	759	838	1022	1207	1278	1395	1305	1059	872	722	771	681
MAX	3504	2486	2142	2783	2735	3169	2509	2339	1872	2214	2363	1828	
(WY)	1965	1980	1962	1937	1998	1979	1936	1973	1989	1949	1994	1979	
MIN	157	235	301	260	561	550	473	434	278	290	191	169	
(WY)	1955	1955	1956	1956	1941	1988	1986	1988	1988	1925	1925	1954	

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1921 - 2001
ANNUAL TOTAL	217759	198902	
ANNUAL MEAN	595	545	991
HIGHEST ANNUAL MEAN			1564
LOWEST ANNUAL MEAN			534
HIGHEST DAILY MEAN	3600	Mar 21	22700
LOWEST DAILY MEAN	209	Nov 5	123
ANNUAL SEVEN-DAY MINIMUM	214	Nov 1	133
MAXIMUM PEAK FLOW			2930
MAXIMUM PEAK STAGE		13.99	Mar 30
INSTANTANEOUS LOW FLOW		193	Nov 4
ANNUAL RUNOFF (CFSM)	2.01	1.84	3.35
ANNUAL RUNOFF (INCHES)	27.37	25.00	45.49
10 PERCENT EXCEEDS	984	874	1720
50 PERCENT EXCEEDS	522	478	805
90 PERCENT EXCEEDS	231	240	354

\* See REMARKS.

03443000 FRENCH BROAD RIVER AT BLANTYRE, NC--Continued



## TENNESSEE RIVER BASIN

03446000 MILLS RIVER NEAR MILLS RIVER, NC

LOCATION.--Lat 35°23'55", long 82°35'42", Henderson County, Hydrologic Unit 06010105, on right bank 1.5 mi downstream of confluence of North and South Forks, 1.8 mi northwest of Mills River, 4.2 mi northwest of Horseshoe, and at mile 4.6.

DRAINAGE AREA.--66.7 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1924 to September 1926, October 1933 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area. WSP 923: 1935, 1937, 1939. WSP 1003: 1938, 1940-42. WSP 1143: 1940(P). WSP 1276: 1926.

GAGE.--Water-stage recorder. Datum of gage is 2,088.47 ft above sea level (levels by Tennessee Valley Authority). Prior to Oct. 1, 1926, nonrecording gage at site 500 ft upstream at 2,091.44 ft. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. City of Hendersonville diverted about 2.85 ft<sup>3</sup>/s from North Fork and Bradley Creek for municipal water supply. Maximum discharge for period of record, from rating curve extended above 6,200 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record and current water year result of freezeup.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	37	62	e84	96	136	299	119	96	60	77	63
2	41	37	59	e84	92	126	255	100	103	78	72	63
3	40	38	60	e84	88	121	246	94	84	165	71	104
4	39	39	55	e80	85	132	230	91	78	131	83	157
5	38	44	e50	e76	83	121	210	89	73	81	88	93
6	38	41	e50	e73	81	115	197	87	76	65	75	70
7	37	41	e50	e70	78	113	186	87	85	61	66	62
8	36	48	51	74	76	111	175	85	88	62	60	57
9	35	256	50	67	75	108	167	86	87	63	68	54
10	36	252	50	e62	81	103	159	85	81	58	84	69
11	37	97	50	e59	76	100	152	82	76	54	69	69
12	37	75	50	66	78	107	147	84	70	50	61	57
13	36	64	48	62	80	153	164	79	67	50	70	53
14	36	58	114	59	96	120	152	74	63	49	70	59
15	36	52	90	59	88	202	149	71	67	46	59	65
16	36	49	141	56	91	196	145	75	71	45	55	49
17	36	49	455	54	140	163	135	75	58	44	53	47
18	36	47	218	69	110	146	131	74	54	44	52	45
19	36	45	165	296	101	135	126	77	52	46	49	44
20	36	47	e128	279	96	150	123	110	52	123	47	96
21	37	45	e103	174	93	196	120	84	58	87	44	74
22	37	e43	e95	140	100	224	117	83	73	62	41	57
23	37	e43	e93	122	100	262	114	84	92	53	41	52
24	37	44	e91	113	94	276	113	79	61	49	43	192
25	38	170	e91	103	242	266	116	154	56	91	42	137
26	39	150	e89	96	230	239	108	120	73	88	70	92
27	40	102	e87	93	176	212	104	88	64	68	75	77
28	40	84	e85	89	152	192	101	83	57	67	75	68
29	40	74	e85	86	---	307	98	90	55	97	50	62
30	39	68	e85	130	---	490	99	82	57	119	48	58
31	38	---	e85	107	---	356	---	78	---	81	50	---
TOTAL	1166	2239	2985	3066	2978	5678	4638	2749	2127	2237	1908	2245
MEAN	37.6	74.6	96.3	98.9	106	183	155	88.7	70.9	72.2	61.5	74.8
MAX	42	256	455	296	242	490	299	154	103	165	88	192
MIN	35	37	48	54	75	100	98	71	52	44	41	44
CFSM	.56	1.12	1.44	1.48	1.59	2.75	2.32	1.33	1.06	1.08	.92	1.12
IN.	.65	1.25	1.66	1.71	1.66	3.17	2.59	1.53	1.19	1.25	1.06	1.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2001,<sup>®</sup> BY WATER YEAR (WY)

MEAN	125	142	162	199	220	245	236	187	151	119	127	113
MAX	465	510	338	534	499	520	468	412	359	356	506	354
(WY)	1965	1980	1962	1937	1998	1979	1957	1973	1992	1989	1940	1979
MIN	24.8	35.2	40.7	43.5	88.9	87.5	79.7	76.2	41.7	38.6	25.4	22.8
(WY)	1955	1955	1940	1956	1941	1988	1986	1988	1988	1988	1925	1925

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1925 - 2001<sup>®</sup>

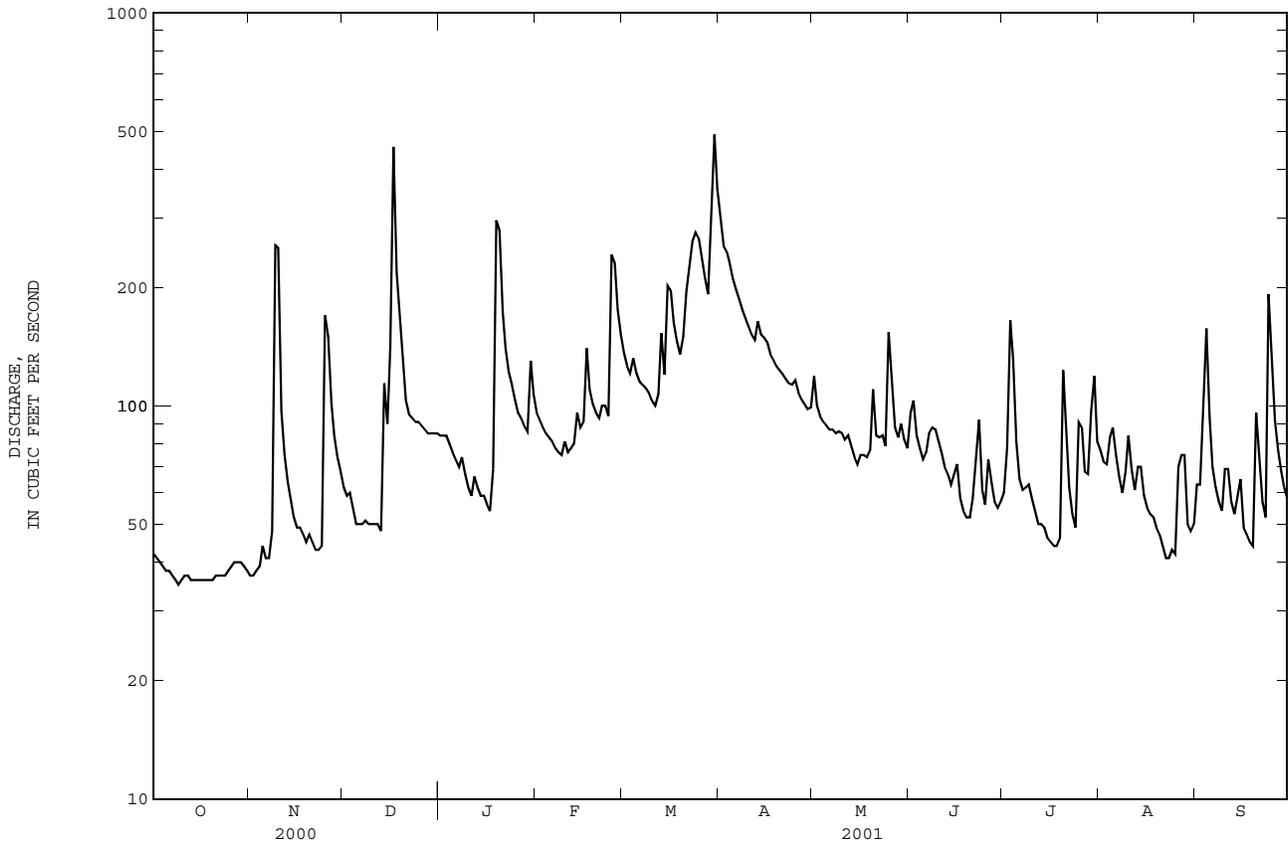
ANNUAL TOTAL	35936	34016	
ANNUAL MEAN	98.2	93.2	168
HIGHEST ANNUAL MEAN			272
LOWEST ANNUAL MEAN			86.8
HIGHEST DAILY MEAN	710	Mar 20	4470
LOWEST DAILY MEAN	35	Oct 9	18
ANNUAL SEVEN-DAY MINIMUM	36	Oct 13	19
MAXIMUM PEAK FLOW			680
MAXIMUM PEAK STAGE			3.39
INSTANTANEOUS LOW FLOW			32*
ANNUAL RUNOFF (CFSM)	1.47	1.40	2.53
ANNUAL RUNOFF (INCHES)	20.04	18.97	34.32
10 PERCENT EXCEEDS	176	164	300
50 PERCENT EXCEEDS	79	78	135
90 PERCENT EXCEEDS	41	41	54

e Estimated.

<sup>®</sup> See PERIOD OF RECORD.

\* See REMARKS.

03446000 MILLS RIVER NEAR MILLS RIVER, NC--Continued



## TENNESSEE RIVER BASIN

0344894205 NORTH FORK SWANNANOVA RIVER NEAR WALKERTOWN, NC

LOCATION.--Lat 35°41'07", long 82°19'58", Buncombe County, Hydrologic Unit 06010105, on left bank 400 ft downstream of Sugar Springs Cove, 0.6 mi upstream from Burnette Reservoir, and 2.3 mi north of Walkertown.

DRAINAGE AREA.--14.5 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1989 to current year.

REVISED RECORDS.--WDR NC-91-1: 1989(M).

GAGE.--Water-stage recorder. Elevation of gage is 2,650 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those above 1,000 ft<sup>3</sup>/s which are fair. Minimum discharge for period of record also occurred Sept. 15, 16, 18, 19, 1998, Oct. 3, 4, 1998. Minimum discharge for current water year also occurred Oct. 15, 16, 17, 18, 19, 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	4.9	12	11	24	39	99	22	25	41	37	9.5
2	6.5	4.9	11	11	22	36	77	21	31	30	32	10
3	6.1	4.9	10	11	21	34	77	20	23	28	29	40
4	5.9	5.0	9.7	11	20	54	92	26	21	35	42	34
5	5.6	5.0	9.3	11	19	68	77	31	19	45	45	22
6	5.4	4.9	8.8	10	18	52	70	24	17	31	36	17
7	5.3	5.5	8.5	9.3	18	45	62	22	16	25	31	14
8	5.1	6.1	8.2	10	17	42	54	22	22	24	32	13
9	5.1	94	8.0	9.2	17	40	48	21	21	23	26	12
10	5.3	61	7.8	9.0	20	37	43	20	18	20	24	15
11	5.3	23	7.7	8.8	18	35	40	19	26	18	27	14
12	5.0	17	7.4	10	19	43	37	18	20	16	25	12
13	4.8	14	7.4	9.0	22	72	51	17	17	15	23	11
14	4.6	12	18	9.0	35	50	44	16	17	13	25	11
15	4.5	11	14	9.8	35	56	42	16	17	12	20	10
16	4.4	11	54	10	38	59	39	15	15	12	18	9.1
17	4.4	11	115	9.4	73	54	37	15	13	11	16	8.6
18	4.4	9.9	42	22	46	47	35	14	12	10	15	8.2
19	4.5	9.6	33	279	38	41	34	14	11	11	13	8.7
20	4.6	9.1	26	125	34	47	33	16	19	12	12	13
21	4.7	8.4	23	69	32	50	32	14	20	11	11	9.7
22	4.9	7.8	19	53	32	47	30	15	15	10	11	8.5
23	4.9	8.0	18	43	32	51	29	15	17	9.3	9.8	8.0
24	4.9	8.1	17	37	30	55	27	14	14	9.3	12	29
25	5.3	18	15	32	79	56	27	28	34	16	9.8	22
26	6.7	22	14	29	66	52	25	25	66	21	9.4	16
27	5.6	17	14	26	52	46	24	20	43	21	8.9	13
28	5.3	15	13	24	44	42	23	18	38	22	8.5	11
29	5.1	14	12	23	---	115	22	17	40	83	8.0	10
30	5.0	12	11	30	---	153	22	16	33	99	9.2	9.6
31	4.9	---	11	26	---	121	---	15	---	51	9.1	---
TOTAL	160.9	454.1	584.8	986.5	921	1739	1352	586	700	784.6	634.7	428.9
MEAN	5.19	15.1	18.9	31.8	32.9	56.1	45.1	18.9	23.3	25.3	20.5	14.3
MAX	6.8	94	115	279	79	153	99	31	66	99	45	40
MIN	4.4	4.9	7.4	8.8	17	34	22	14	11	9.3	8.0	8.0
CFSM	.36	1.04	1.30	2.19	2.27	3.87	3.11	1.30	1.61	1.75	1.41	.99
IN.	.41	1.17	1.50	2.53	2.36	4.46	3.47	1.50	1.80	2.01	1.63	1.10

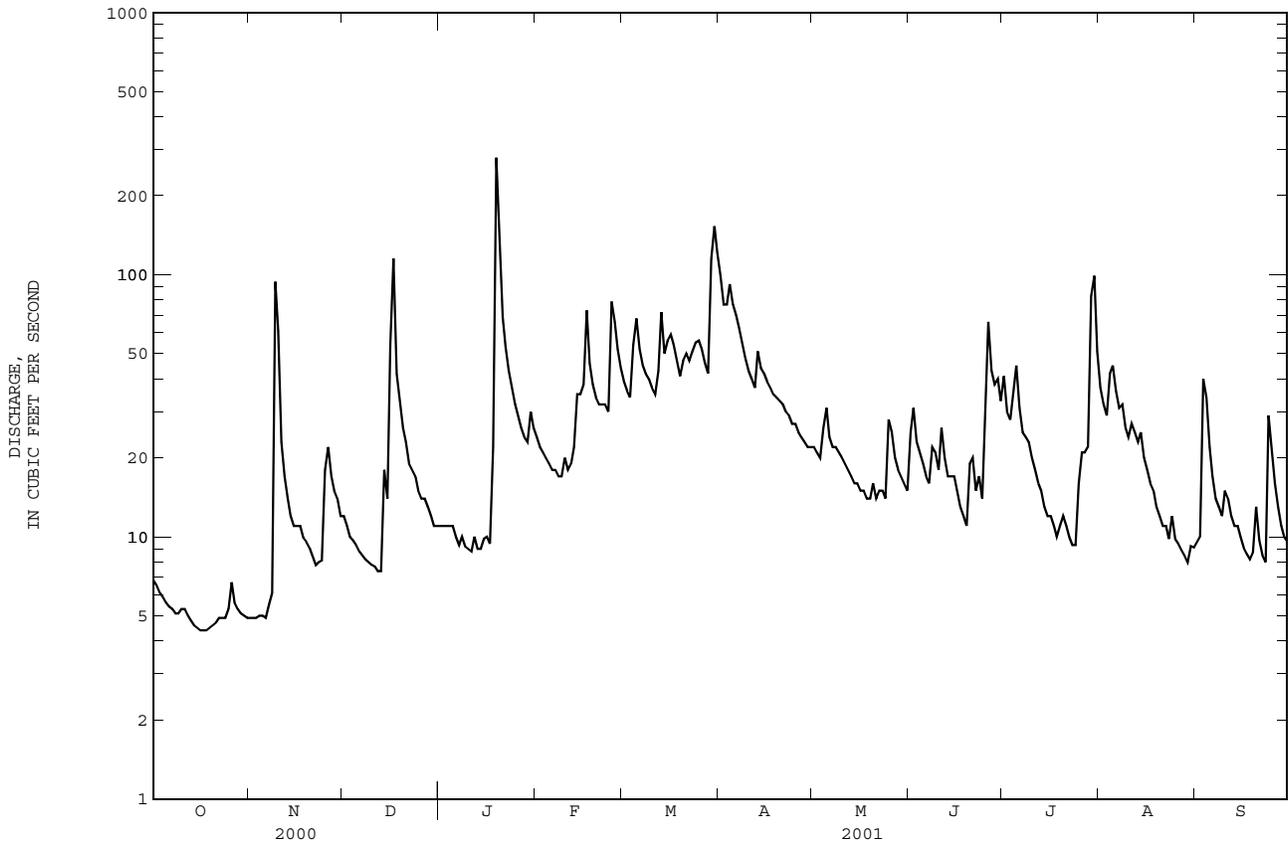
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2001, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	27.4	32.3	40.9	63.8	61.3	72.8	54.4	44.7	35.0	23.1	30.7	17.8	
MAX	79.1	84.6	79.8	134	120	111	82.2	74.4	78.0	63.0	123	64.3	
(WY)	1996	1993	1993	1995	1990	1993	1998	1992	1995	1999	1994	1989	
MIN	2.49	4.88	14.8	28.2	30.2	39.5	18.6	18.9	13.5	5.71	3.96	1.92	
(WY)	1999	1999	1999	2000	1999	1999	1995	2001	1998	1998	1998	1998	

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1989 - 2001	
ANNUAL TOTAL	10236.4		9332.5			
ANNUAL MEAN	28.0		25.6		41.5	
HIGHEST ANNUAL MEAN					51.9	
LOWEST ANNUAL MEAN					24.9	
HIGHEST DAILY MEAN	261	Apr 4	279	Jan 19	1740	Jan 14 1995
LOWEST DAILY MEAN	4.4	Oct 16	4.4	Oct 16	1.5	Sep 14 1998
ANNUAL SEVEN-DAY MINIMUM	4.5	Oct 14	4.5	Oct 14	1.6	Sep 12 1998
MAXIMUM PEAK FLOW			709		4600	
MAXIMUM PEAK STAGE			5.23		8.19	
INSTANTANEOUS LOW FLOW			4.4*		1.5*	
ANNUAL RUNOFF (CFSM)	1.93		1.76		2.86	
ANNUAL RUNOFF (INCHES)	26.26		23.94		38.86	
10 PERCENT EXCEEDS	58		51		82	
50 PERCENT EXCEEDS	17		18		28	
90 PERCENT EXCEEDS	5.9		6.3		6.7	

\* See REMARKS.

0344894205 NORTH FORK SWANNANOA RIVER NEAR WALKERTOWN, NC--Continued



## TENNESSEE RIVER BASIN

03450000 BEETREE CREEK NEAR SWANNANOVA, NC

LOCATION.--Lat 35°39'11", long 82°24'20", Buncombe County, Hydrologic Unit 06010105, on left bank 0.5 mi downstream of Wolfe Branch, 0.8 mi upstream from Beetree Reservoir dam, 3.8 mi north of Swannanoa, and 4.8 mi above mouth.

DRAINAGE AREA.--5.46 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1926 to September 1975, October 1979 to September 1981, October 1985 to September 1986, and May 1987 to current year.

REVISED RECORDS.--WSP 823: Drainage area. WSP 893: 1928, 1936-37 (M). WSP 953: 1929 (M). WSP 1276: 1932.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 2,728.39 ft above sea level. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record, from rating curve extended above 240 ft<sup>3</sup>/s on basis of computation of peak flow over weir. Minimum discharge for current water year also occurred several days in Oct. Minimum discharge for period of record also occurred July 25, 1996.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.1	3.7	3.9	6.2	12	32	7.2	7.0	11	12	2.5
2	1.3	1.1	3.6	e3.8	5.9	11	27	7.0	6.3	8.3	11	2.3
3	1.3	1.2	3.4	e3.8	5.5	10	27	6.6	5.4	7.9	10	3.2
4	1.2	1.2	3.2	e3.8	5.3	14	26	7.0	5.0	14	22	3.7
5	1.2	1.2	3.2	e3.6	5.2	17	24	7.9	4.6	16	20	2.7
6	1.2	1.1	3.0	e3.6	4.9	15	22	7.3	4.2	11	15	2.4
7	1.1	1.2	2.9	e3.6	4.7	13	20	6.9	4.1	8.3	12	2.2
8	1.1	1.4	2.9	4.0	4.6	13	18	6.7	6.5	8.0	10	2.0
9	1.1	11	2.8	e3.8	4.5	13	16	6.6	5.2	7.7	8.2	1.9
10	1.1	9.5	2.8	e3.6	5.3	13	15	6.3	4.7	6.1	11	2.7
11	1.1	5.1	2.7	e3.5	4.5	12	14	5.9	5.5	5.1	13	2.3
12	1.1	4.4	2.6	3.7	4.8	13	13	5.7	4.5	4.4	11	2.0
13	1.1	3.9	2.5	3.8	5.5	17	17	5.4	4.1	4.1	10	1.9
14	1.0	3.6	3.7	4.3	6.9	15	15	5.1	3.7	3.6	8.4	1.8
15	1.0	3.3	3.1	4.3	6.8	23	15	5.0	4.1	3.2	6.9	1.7
16	1.0	3.3	6.0	4.2	8.1	22	14	4.8	4.1	3.0	6.0	1.5
17	1.0	3.4	16	4.0	16	20	13	4.6	3.3	2.7	5.3	1.4
18	1.0	3.1	9.4	7.2	12	17	13	4.4	3.0	2.5	4.6	1.4
19	1.0	3.1	8.5	45	11	15	12	5.3	2.8	2.7	4.0	1.6
20	1.0	3.0	e7.3	36	9.8	20	11	5.5	2.9	2.9	3.6	2.6
21	1.1	2.8	e6.6	23	9.5	24	11	4.6	3.3	2.7	3.3	1.7
22	1.1	2.7	e6.1	18	10	21	10	5.0	3.3	2.5	3.0	1.4
23	1.1	2.8	e5.5	14	9.8	22	9.7	4.7	3.8	2.2	2.8	1.4
24	1.1	3.0	e5.1	12	9.0	23	9.4	4.1	3.1	2.2	4.8	6.3
25	1.6	6.4	e4.5	9.9	16	22	9.0	7.9	5.6	6.3	3.0	3.6
26	1.7	5.7	e4.2	8.9	17	20	8.6	6.1	8.2	5.9	2.7	2.7
27	1.4	4.7	e3.9	8.1	15	18	8.1	5.1	6.5	4.5	2.6	2.3
28	1.3	4.3	e3.9	7.2	13	16	7.8	5.0	13	4.4	2.4	2.1
29	1.2	4.1	e3.9	6.8	---	27	7.3	4.9	18	16	2.3	1.9
30	1.2	3.8	3.9	8.1	---	42	7.3	4.4	12	26	2.2	1.8
31	1.1	---	3.9	6.8	---	36	---	4.3	---	17	2.1	---
TOTAL	36.2	106.5	144.8	276.3	236.8	576	452.2	177.3	167.8	222.2	235.2	69.0
MEAN	1.17	3.55	4.67	8.91	8.46	18.6	15.1	5.72	5.59	7.17	7.59	2.30
MAX	1.7	11	16	45	17	42	32	7.9	18	26	22	6.3
MIN	1.0	1.1	2.5	3.5	4.5	10	7.3	4.1	2.8	2.2	2.1	1.4
CFSM	.21	.65	.86	1.63	1.55	3.40	2.76	1.05	1.02	1.31	1.39	.42
IN.	.25	.73	.99	1.88	1.61	3.92	3.08	1.21	1.14	1.51	1.60	.47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2001,<sup>®</sup> BY WATER YEAR (WY)

	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955		
MEAN	6.16	8.25	10.4	13.6	15.6	19.1	16.8	11.8	8.42	6.16	6.56	4.88																				
MAX	33.9	45.3	25.4	38.5	43.0	43.1	34.2	28.5	27.0	37.9	61.8	21.3																				
(WY)	1930	1980	1933	1937	1990	1975	1936	1973	1949	1949	1940	1928																				
MIN	.65	1.23	1.58	1.99	4.46	5.25	5.21	4.68	1.82	1.18	.83	.51																				
(WY)	1955	1955	1940	1940	1941	1988	1986	1948	1988	1998	1998	1954																				

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1926 - 2001<sup>®</sup>

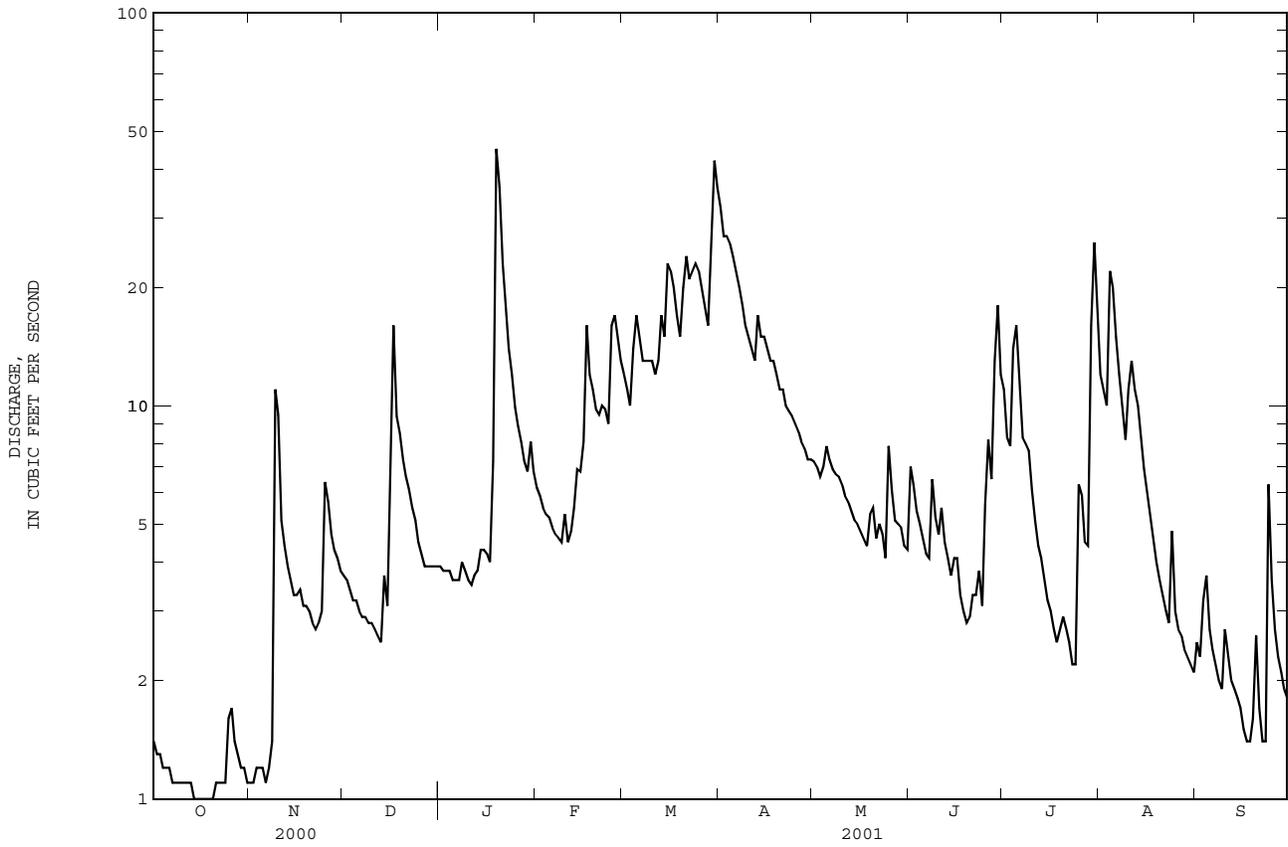
ANNUAL TOTAL	2984.0	2700.3	
ANNUAL MEAN	8.15	7.40	10.6
HIGHEST ANNUAL MEAN			17.8
LOWEST ANNUAL MEAN			6.18
HIGHEST DAILY MEAN	83	45	528
LOWEST DAILY MEAN	1.0	1.0	.30
ANNUAL SEVEN-DAY MINIMUM	1.0	1.0	.40
MAXIMUM PEAK FLOW		92	1370*
MAXIMUM PEAK STAGE		3.56	6.20
INSTANTANEOUS LOW FLOW		.98*	.28*
ANNUAL RUNOFF (CFSM)	1.49	1.35	1.95
ANNUAL RUNOFF (INCHES)	20.33	18.40	26.50
10 PERCENT EXCEEDS	19	16	22
50 PERCENT EXCEEDS	5.2	4.8	7.3
90 PERCENT EXCEEDS	1.3	1.4	1.6

e Estimated.

<sup>®</sup> See PERIOD OF RECORD.

\* See REMARKS.

03450000 BEETREE CREEK NEAR SWANNANOVA, NC--Continued

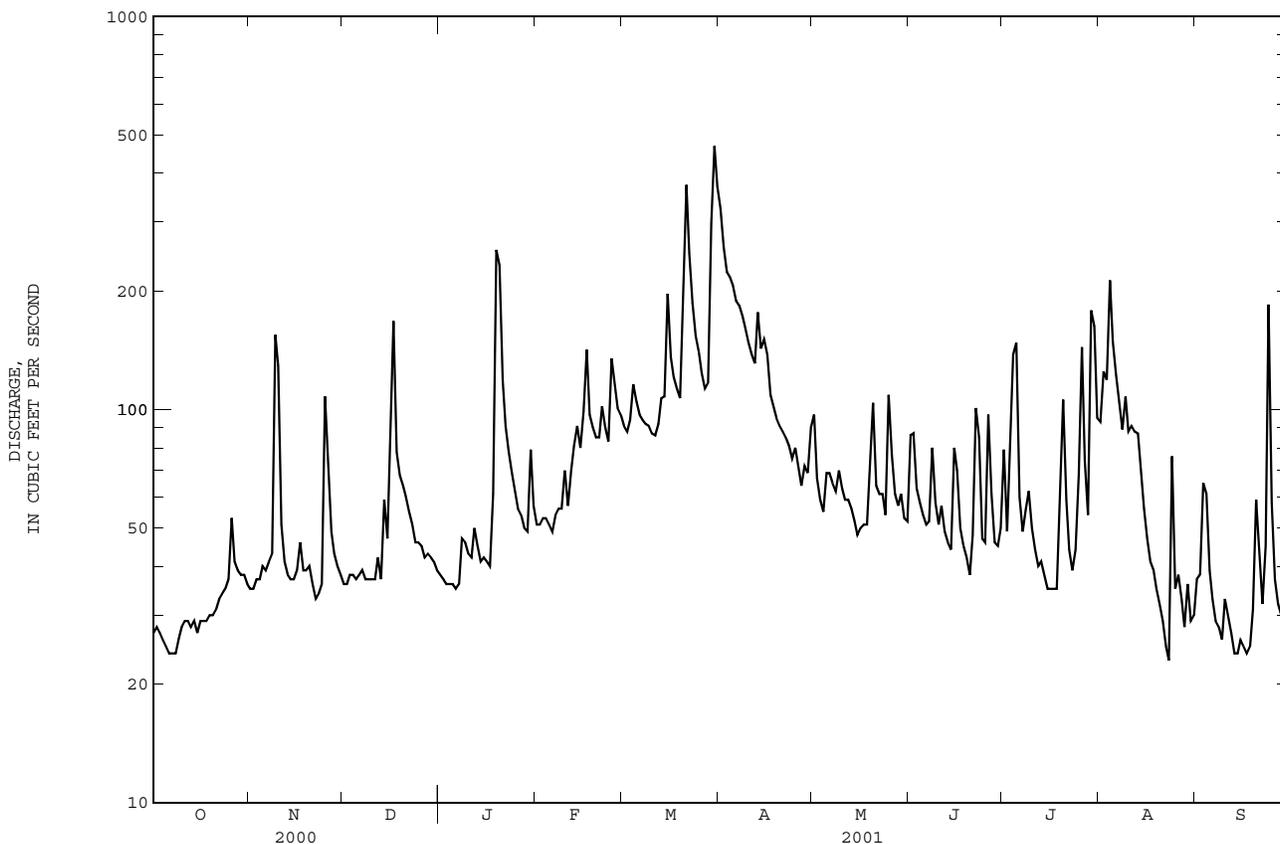




03451000 SWANNANOVA RIVER AT BILTMORE, NC--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1921 - 2001 <sup>®</sup>	
ANNUAL TOTAL	36557		26564		159	
ANNUAL MEAN	99.9		72.8		277	
HIGHEST ANNUAL MEAN					1949	
LOWEST ANNUAL MEAN					55.9	
HIGHEST DAILY MEAN	1040	Apr 4	468	Mar 30	7560	Aug 13 1940
LOWEST DAILY MEAN	20	Sep 17	23	Aug 23	1.2	Oct 14 1941
ANNUAL SEVEN-DAY MINIMUM	23	Sep 12	25	Sep 12	7.3	Sep 13 1953
MAXIMUM PEAK FLOW			726		18400*	
MAXIMUM PEAK STAGE			3.68		19.00	
INSTANTANEOUS LOW FLOW			22*		1.1*	
ANNUAL RUNOFF (CFSM)	.77		.56		1.22	
ANNUAL RUNOFF (INCHES)	10.46		7.60		16.58	
10 PERCENT EXCEEDS	211		138		308	
50 PERCENT EXCEEDS	62		54		105	
90 PERCENT EXCEEDS	30		30		37	

e Estimated.  
<sup>®</sup> See PERIOD OF RECORD.  
 \* See REMARKS.

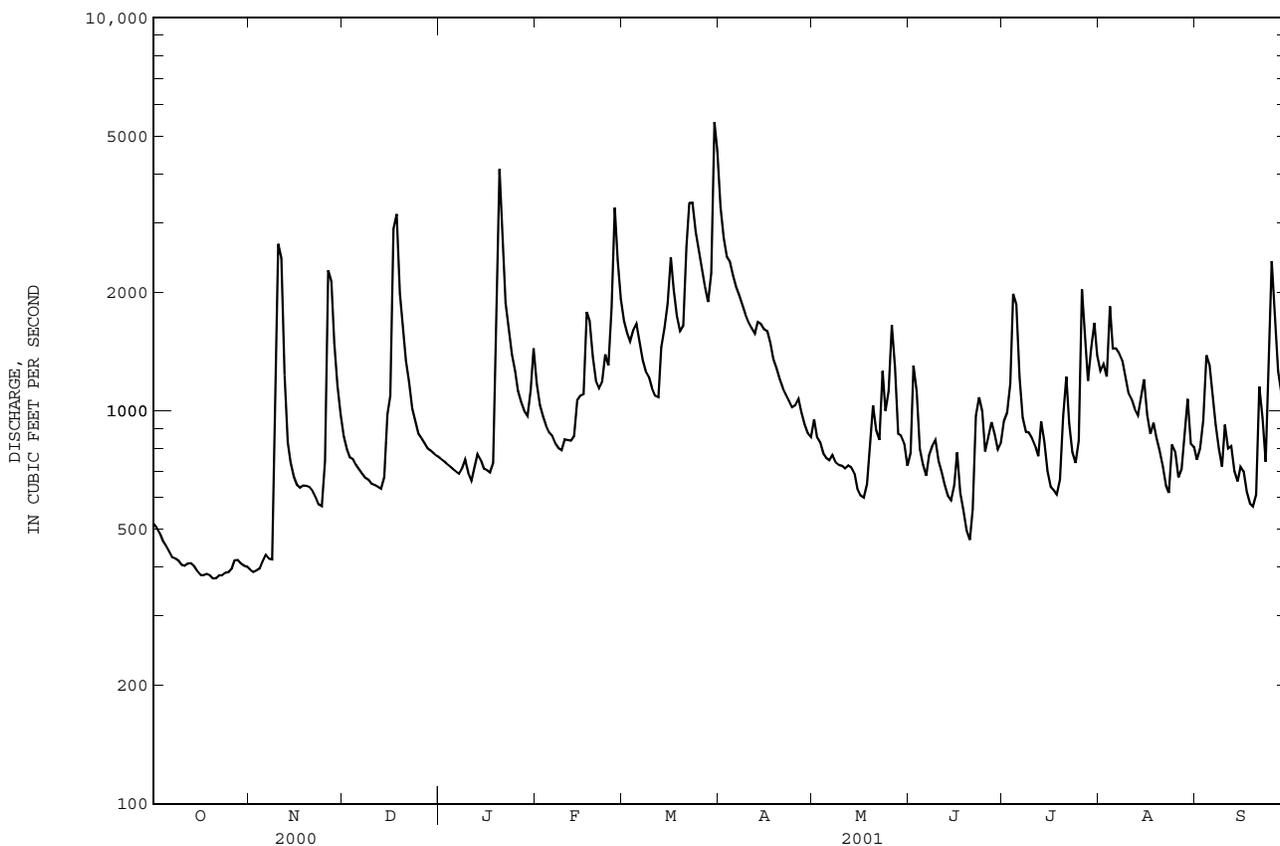




03451500 FRENCH BROAD RIVER AT ASHEVILLE, NC--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1896 - 2001	
ANNUAL TOTAL	457856		397105		2085	
ANNUAL MEAN	1251		1088		3671	
HIGHEST ANNUAL MEAN					1901	
LOWEST ANNUAL MEAN					1004	
HIGHEST DAILY MEAN	7730	Mar 21	5410	Mar 30	66000	Jul 16 1916
LOWEST DAILY MEAN	374	Oct 20	374	Oct 20	239	Sep 21 1925
ANNUAL SEVEN-DAY MINIMUM	380	Oct 17	380	Oct 17	258	Aug 24 1925
MAXIMUM PEAK FLOW			5600		110000*	
MAXIMUM PEAK STAGE			4.11		23.10*	
INSTANTANEOUS LOW FLOW			373*		239*	
ANNUAL RUNOFF (CFSM)	1.32		1.15		2.21	
ANNUAL RUNOFF (INCHES)	18.02		15.63		29.98	
10 PERCENT EXCEEDS	2210		1870		3640	
50 PERCENT EXCEEDS	1080		862		1630	
90 PERCENT EXCEEDS	437		468		771	

e Estimated.  
 \* See REMARKS.



TENNESSEE RIVER BASIN

03451500 FRENCH BROAD RIVER AT ASHEVILLE, NC--Continued

PRECIPITATION RECORDS

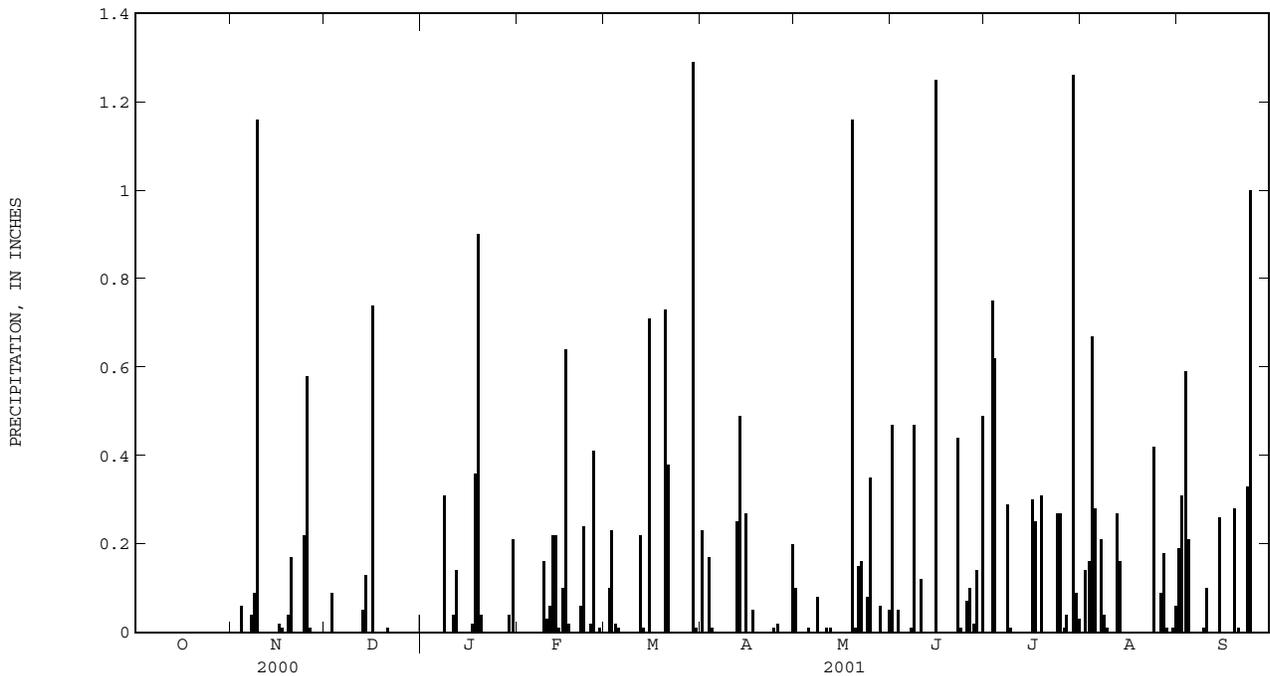
PERIOD OF RECORD.--October 1998 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at site.

REMARKS.--Gage is operated in cooperation with Tennessee Valley Authority. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.23	.10	.47	.00	.00	.19
2	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.14	.31
3	.00	.00	.09	.00	.00	.23	.17	.00	.05	.75	.16	.59
4	.00	.06	.00	.00	.00	.02	.01	.00	.00	.62	.67	.21
5	.00	.00	.00	.00	.00	.01	.00	.01	.00	.00	.28	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.04	.00	.00	.00	.00	.00	.00	.01	.00	.21	.00
8	.00	.09	.00	.31	.00	.00	.00	.08	.47	.29	.04	.00
9	.00	1.16	.00	.00	.16	.00	.00	.00	.00	.01	.01	.01
10	.00	.00	.00	.00	.03	.00	.00	.00	.12	.00	.00	.10
11	.00	.00	.00	.04	.06	.00	.00	.01	.00	.00	.00	.00
12	.00	.00	.00	.14	.22	.22	.25	.01	.00	.00	.27	.00
13	.00	.00	.05	.00	.22	.01	.49	.00	.00	.00	.16	.00
14	.00	.00	.13	.00	.01	.00	.00	.00	.00	.00	.00	.26
15	.00	.00	.00	.00	.10	.71	.27	.00	1.25	.00	.00	.00
16	.00	.02	.74	.00	.64	.00	.00	.00	.00	.30	.00	.00
17	.00	.01	.00	.02	.02	.00	.05	.00	.00	.25	.00	.00
18	.00	.00	.00	.36	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.04	.00	.90	.00	.00	.00	1.16	.00	.31	.00	.28
20	.00	.17	.00	.04	.00	.73	.00	.01	.00	.00	.00	.01
21	.00	.00	.01	.00	.06	.38	.00	.15	.00	.00	.00	.00
22	.00	.00	.00	.00	.24	.00	.00	.16	.44	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.33
24	.00	.22	.00	.00	.02	.00	.01	.08	.00	.27	.42	1.00
25	.00	.58	.00	.00	.41	.00	.02	.35	.07	.27	.00	.00
26	.00	.01	.00	.00	.00	.00	.00	.00	.10	.01	.09	.00
27	.00	.00	.00	.00	.01	.00	.00	.00	.02	.04	.18	.00
28	.00	.00	.00	.00	.00	.00	.00	.06	.14	.00	.01	.00
29	.00	.00	.00	.04	---	1.29	.00	.00	.00	1.26	.00	.00
30	.00	.00	.00	.21	---	.01	.20	.00	.49	.09	.01	.00
31	.00	---	.00	.00	---	.00	---	.05	---	.03	.06	---
TOTAL	0.00	2.40	1.02	2.06	2.20	3.71	1.70	2.23	3.64	4.50	2.71	3.29





Gaging station at Cataloochee Creek near Cataloochee, North Carolina.

## TENNESSEE RIVER BASIN

03451690 NEWFOUND CREEK NEAR ALEXANDER, NC

LOCATION.--Lat 35°39'58", long 82°38'04", Buncombe County, Hydrologic Unit 06010105, on left bank 21 ft downstream from bridge on Secondary Road 1641, 0.9 mi above mouth, and 2.6 mi southwest of Alexander.

DRAINAGE AREA.--34.2 mi<sup>2</sup>.

PERIOD OF RECORD.--December 2000 to September 2001.

GAGE.--Water-stage recorder. Elevation of gage is 1,910 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges and those above 200 ft<sup>3</sup>/s, which are poor. Maximum discharge for period of record from rating curve extended above 200 ft<sup>3</sup>/s by logarithmic plotting.

DISCHARGE, CUBIC FEET PER SECOND, FOR PERIOD DECEMBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	e9.0	e7.8	9.7	13	30	10	9.0	9.9	8.4	8.6
2	---	---	e8.8	e7.5	9.4	13	24	10	9.6	7.0	5.5	8.7
3	---	---	e8.6	e7.5	9.2	13	25	9.6	7.3	8.1	7.2	16
4	---	---	e8.3	e7.5	9.2	16	22	9.3	7.1	13	12	17
5	---	---	e8.0	e7.2	9.1	13	20	9.1	6.6	16	7.5	9.7
6	---	---	e7.8	e7.2	8.7	12	19	9.8	6.3	7.5	5.8	7.9
7	---	---	e7.9	e7.8	8.6	12	17	8.6	6.7	6.4	5.1	7.1
8	---	---	e7.8	e14	8.5	11	16	8.6	11	6.5	5.2	6.4
9	---	---	e7.8	e11	8.4	11	15	8.7	8.0	7.0	5.9	6.1
10	---	---	8.0	e9.5	10	11	15	8.5	8.0	6.2	7.0	25
11	---	---	7.5	e10	8.6	11	14	8.3	7.2	5.3	14	9.5
12	---	---	7.3	14	10	11	14	8.9	6.4	5.0	24	7.6
13	---	---	7.1	12	11	12	38	8.1	6.1	5.0	24	6.9
14	---	---	9.8	11	14	10	23	7.5	5.6	4.4	12	6.5
15	---	---	8.3	11	14	25	24	7.3	7.4	4.2	8.1	6.1
16	---	---	13	10	15	18	20	7.1	16	4.0	6.7	6.0
17	---	---	48	7.1	33	15	18	7.0	6.4	4.1	5.9	6.0
18	---	---	e17	13	18	14	17	7.0	5.7	4.3	6.0	5.9
19	---	---	e14	74	16	13	16	8.6	5.5	6.2	5.3	5.8
20	---	---	e12	60	14	20	15	11	5.3	7.3	5.0	8.0
21	---	---	e12	28	14	53	14	7.8	5.1	5.2	4.8	6.5
22	---	---	e11	17	20	39	13	7.8	8.3	4.6	4.6	5.9
23	---	---	e10	14	16	29	13	8.0	11	4.2	4.5	5.7
24	---	---	e9.9	13	14	24	12	7.3	6.0	4.2	25	27
25	---	---	e9.5	12	23	20	12	13	5.6	4.5	7.7	11
26	---	---	e9.5	13	20	18	11	8.7	6.5	5.1	6.4	8.4
27	---	---	e9.2	11	16	16	11	7.5	7.4	4.5	10	7.6
28	---	---	e9.2	11	15	15	11	7.6	19	4.7	6.8	7.0
29	---	---	e8.5	10	---	38	9.8	7.9	7.6	17	5.9	6.5
30	---	---	e8.2	12	---	46	10	6.8	8.3	13	5.8	6.5
31	---	---	e7.8	10	---	31	---	6.8	---	9.3	7.7	---
TOTAL	---	---	330.8	460.1	382.4	603	518.8	262.2	236.0	213.7	269.8	272.9
MEAN	---	---	10.7	14.8	13.7	19.5	17.3	8.46	7.87	6.89	8.70	9.10
MAX	---	---	48	74	33	53	38	13	19	17	25	27
MIN	---	---	7.1	7.1	8.4	10	9.8	6.8	5.1	4.0	4.5	5.7
CFSM	---	---	.31	.43	.40	.57	.51	.25	.23	.20	.25	.27
IN.	---	---	.36	.50	.42	.66	.56	.29	.26	.23	.29	.30

## SUMMARY STATISTICS

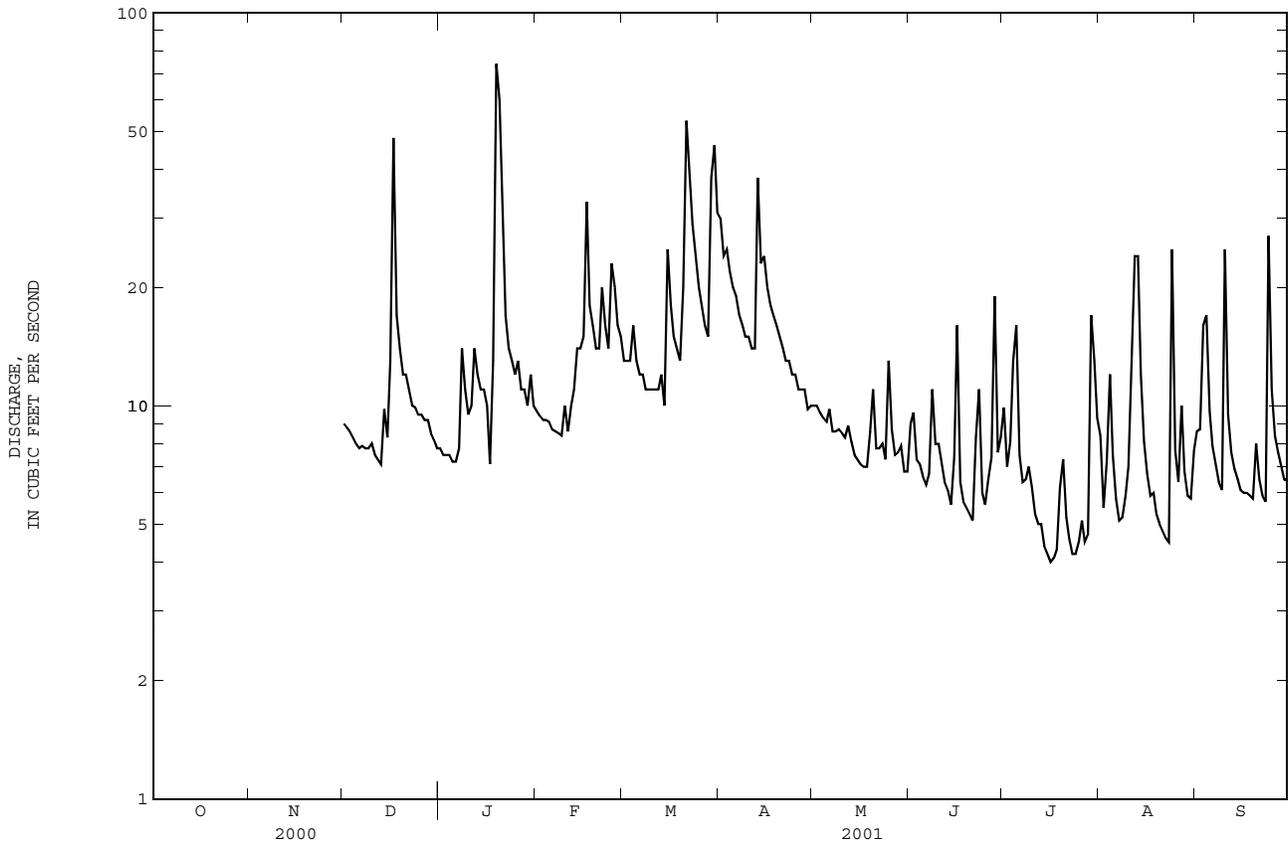
FOR PERIOD DECEMBER 2000 TO SEPTEMBER 2001

INSTANTANEOUS PEAK FLOW  
INSTANTANEOUS PEAK STAGE  
INSTANTANEOUS LOW FLOW

161\* Jan 19  
4.50 Jan 19  
3.2 Jul 24

e Estimated.  
\* See REMARKS.

03451690 NEWFOUND CREEK NEAR ALEXANDER, NC--Continued



## TENNESSEE RIVER BASIN

03453000 IVY RIVER NEAR MARSHALL, NC

LOCATION.--Lat 35°46'10", long 82°37'16", Madison County, Hydrologic Unit 06010105, on right bank 0.2 mi downstream from bridge on U.S. Highway 25-70, 1.9 mi upstream from mouth, and 4.0 mi southeast of Marshall.

DRAINAGE AREA.--158 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1933 to September 1973. July 1, 1994 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 1,700.41 ft above sea level (levels by Tennessee Valley Authority). Satellite telemetry at station.

REVISED RECORDS.--WSP 803: 1934(M), 1935. WSP 1910: 1936(P), 1937(M), 1940(M), 1946(M), 1957(P).

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Considerable low flow regulation, at times, caused by small power plant at Ivy Dam, 0.4 mi upstream. Minimum discharge for period of record and current water year affected by regulation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June, 1876, reached a stage of 16.0 ft, from studies by Tennessee Valley Authority (discharge 14,000 ft<sup>3</sup>/s). An outstanding but lesser flood occurred in July, 1916 (stage and discharge unknown).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	23	39	45	64	106	379	85	69	105	208	94
2	30	28	38	44	61	96	328	81	103	81	150	85
3	29	26	38	e60	56	94	306	75	74	73	120	94
4	28	27	36	e60	55	165	304	71	63	265	375	118
5	28	27	35	e36	55	165	264	83	59	263	266	88
6	27	26	35	38	53	149	233	75	53	122	179	68
7	26	27	34	43	51	133	208	72	53	91	121	59
8	24	28	34	43	50	120	185	66	89	83	125	53
9	26	66	33	45	49	117	167	66	79	94	94	49
10	26	170	32	40	67	105	154	63	66	75	75	185
11	26	65	33	e32	57	97	133	60	159	66	143	86
12	26	49	33	48	59	94	125	60	86	59	108	62
13	24	43	31	50	60	132	235	60	71	55	239	55
14	28	41	39	45	114	110	206	54	62	51	182	51
15	25	37	40	48	124	148	206	52	79	48	116	47
16	25	37	40	48	128	157	197	51	71	46	88	44
17	25	42	165	44	322	137	176	50	60	44	72	42
18	25	38	88	89	208	121	163	49	52	43	68	41
19	25	37	72	527	157	108	150	53	48	46	59	40
20	25	39	56	456	128	122	139	78	46	59	61	61
21	25	36	69	235	115	329	130	60	64	53	51	50
22	26	30	57	164	122	266	119	58	54	48	45	42
23	26	36	52	129	115	231	112	67	93	43	45	40
24	26	34	60	112	103	196	108	52	67	40	119	115
25	26	53	54	94	150	169	106	122	61	60	57	95
26	40	69	53	80	175	147	96	87	113	142	48	63
27	32	53	48	79	139	130	90	61	121	253	45	54
28	28	47	45	68	121	115	85	54	294	255	43	48
29	27	45	49	65	---	206	83	59	123	1060	42	45
30	27	39	39	78	---	530	86	51	100	1210	104	43
31	26	---	37	71	---	405	---	49	---	375	66	---
TOTAL	839	1318	1514	3016	2958	5200	5273	2024	2532	5308	3514	2017
MEAN	27.1	43.9	48.8	97.3	106	168	176	65.3	84.4	171	113	67.2
MAX	40	170	165	527	322	530	379	122	294	1210	375	185
MIN	24	23	31	32	49	94	83	49	46	40	42	40
CFSM	.17	.28	.31	.62	.67	1.06	1.11	.41	.53	1.08	.72	.43
IN.	.20	.31	.36	.71	.70	1.22	1.24	.48	.60	1.25	.83	.47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2001,® BY WATER YEAR (WY)

	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	76.4	91.5	132	213	263	310	240	156	111	97.4	87.6	60.3																																																								
MAX	367	229	407	636	563	848	574	328	272	280	444	141																																																								
(WY)	1965	1950	1962	1937	1957	1963	1936	1946	1950	1949	1940	1949																																																								
MIN	19.3	28.9	39.8	46.4	60.9	129	76.1	58.6	43.3	29.8	22.8	20.5																																																								
(WY)	1953	1940	1940	1940	1941	1970	1942	1941	1953	1952	1956	1998																																																								

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1934 - 2001®

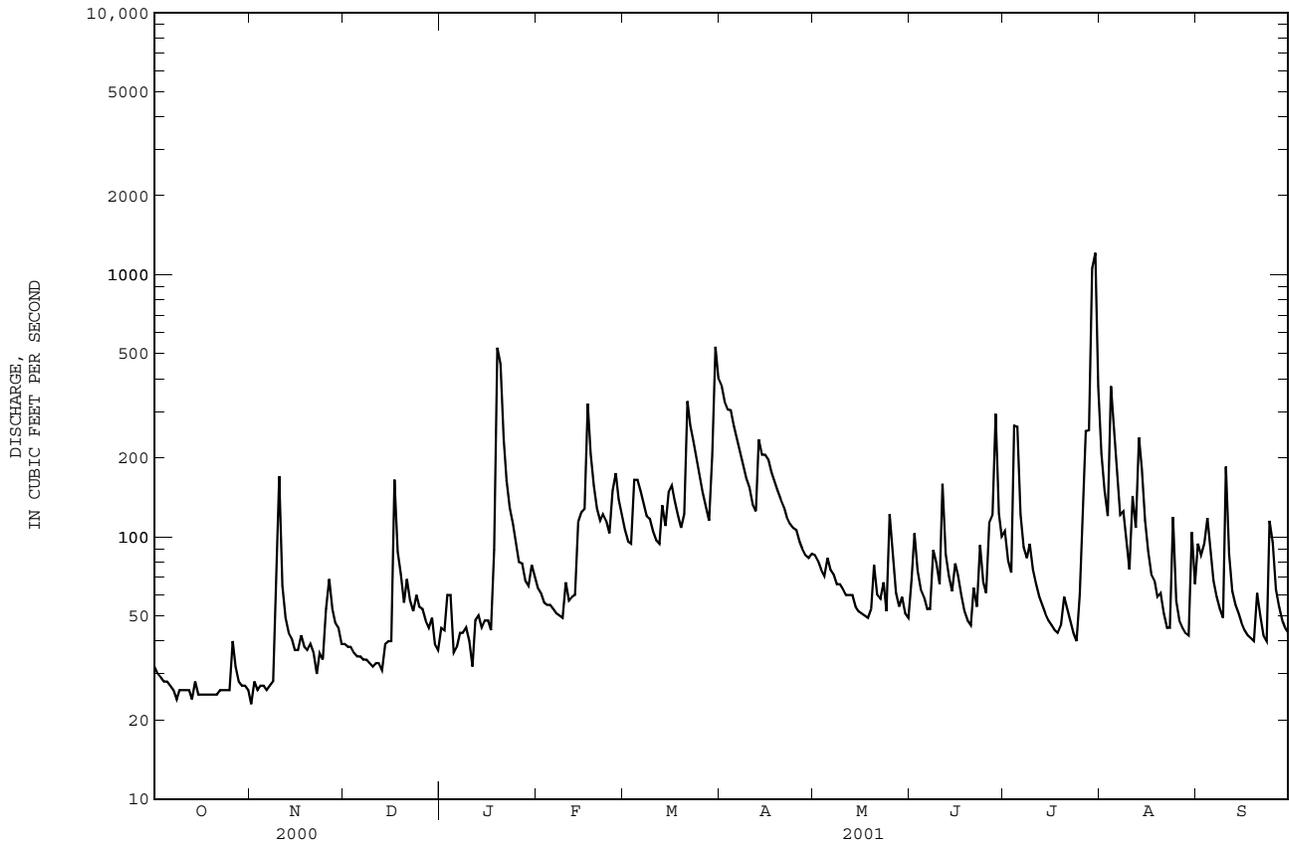
ANNUAL TOTAL	38932	35513	
ANNUAL MEAN	106	97.3	152
HIGHEST ANNUAL MEAN			232
LOWEST ANNUAL MEAN			92.1
HIGHEST DAILY MEAN	1720	Apr 4	1210
LOWEST DAILY MEAN	21	Sep 19	23
ANNUAL SEVEN-DAY MINIMUM	25	Oct 15	25
MAXIMUM PEAK FLOW			3210
MAXIMUM PEAK STAGE			9.84
INSTANTANEOUS LOW FLOW			5.8*
ANNUAL RUNOFF (CFSM)	.67		.62
ANNUAL RUNOFF (INCHES)	9.17		8.36
10 PERCENT EXCEEDS	218		185
50 PERCENT EXCEEDS	65		63
90 PERCENT EXCEEDS	28		30

e Estimated.

® See PERIOD OF RECORD.

\* See REMARKS.

03453000 IVY RIVER NEAR MARSHALL, NC--Continued



## TENNESSEE RIVER BASIN

03453500 FRENCH BROAD RIVER AT MARSHALL, NC

LOCATION.--Lat 35°47'10", long 82°39'39", Madison County, Hydrologic Unit 06010105, on right bank 0.7 mi upstream from Hayes Creek, 1.0 mi downstream of Ivy River, 1.5 mi southeast of Marshall, and at mile 126.7.

DRAINAGE AREA.--1,332 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1942 to current year.

REVISED RECORDS.--WSP 1436: 1954(M).

GAGE.--Water-stage recorder. Datum of gage is 1,646.79 ft above sea level (levels by Tennessee Valley Authority). Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Small diversions from tributaries for water supply. Slight diurnal fluctuation and occasional slight regulation at low flow caused by small reservoirs upstream from station. Prior to July 1963, some regulation by Weaver plant of Carolina Power and Light Company 15 mi upstream, after November 1986 the same power plant was operated by the Metropolitan Sewage Treatment Plant. Minimum discharge for period of record also occurred Sept. 14, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage observed since at least 1791: 22.0 ft, July 16, 1916; discharge: 115,000 ft<sup>3</sup>/s. Flood of Aug. 30, 1940, reached a stage of 16.6 ft; discharge, 70,000 ft<sup>3</sup>/s, from high water marks, flood profiles, and studies by Tennessee Valley Authority.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	670	563	1070	e1010	1440	1980	4390	1300	1080	1120	1410	907
2	662	563	1010	e1000	1280	1780	3580	1260	1410	1070	1410	954
3	650	567	970	e990	1210	1710	3110	1200	1400	1070	1290	1120
4	636	573	975	e980	1170	1890	3010	1140	1160	2200	2210	1650
5	622	597	944	e971	1150	2000	2740	1110	1040	2340	1820	1570
6	610	610	911	e971	1120	1810	2500	1100	992	1400	1550	1310
7	587	602	893	e961	1100	1660	2350	1110	1000	1120	1520	1100
8	581	590	869	e951	1080	1540	2210	1070	1240	947	1500	960
9	567	846	861	e941	1060	1510	2080	1050	1200	985	1480	868
10	554	3210	840	e932	1130	1440	1960	1050	1100	913	1200	1100
11	554	2970	843	917	1120	1380	1850	1020	1260	858	1230	959
12	554	1510	835	964	1140	1350	1770	1050	1000	800	1200	953
13	574	1100	827	1030	1130	1620	2230	1030	915	770	1240	846
14	567	974	e880	1030	1350	1880	2130	975	866	1010	1250	787
15	555	877	e1200	973	1420	2070	2040	919	902	772	1280	865
16	544	837	e1500	962	1400	2880	1980	885	1180	714	1150	843
17	553	824	e3200	950	2320	2470	1800	879	989	688	968	734
18	553	831	e3500	1010	2200	2060	1680	867	823	671	932	690
19	535	844	e2400	2470	1760	1850	1600	1100	766	655	925	684
20	540	835	1840	5250	1530	1840	1530	1390	719	844	848	729
21	546	823	1570	3570	1450	3330	1480	1230	798	1100	765	1370
22	548	786	e1420	2350	1490	4270	1430	1120	811	995	710	1160
23	549	766	e1290	1890	1610	4280	1390	1370	1480	796	686	879
24	552	749	e1210	1660	1600	3560	1370	1300	1070	719	1060	1780
25	551	1000	e1170	1520	1810	3130	1390	1360	887	760	1020	2880
26	578	3180	e1150	1370	3860	2800	1400	1670	916	1790	818	1990
27	611	2430	e1130	1310	3010	2420	1310	1520	1050	1840	790	1340
28	595	1590	e1110	1250	2280	2230	1260	1220	1320	1450	955	1140
29	581	1300	1080	1230	---	2530	1210	1150	979	2550	1170	1020
30	578	1140	e1050	1310	---	6460	1180	1150	977	3230	1040	938
31	575	---	e1020	1580	---	5840	---	1040	---	1830	943	---
TOTAL	17932	34087	39568	44303	44220	77570	59960	35635	31330	38007	36370	34126
MEAN	578	1136	1276	1429	1579	2502	1999	1150	1044	1226	1173	1138
MAX	670	3210	3500	5250	3860	6460	4390	1670	1480	3230	2210	2880
MIN	535	563	827	917	1060	1350	1180	867	719	655	686	684
CFSM	.43	.85	.96	1.07	1.19	1.88	1.50	.86	.92	.88	.88	.85
IN.	.50	.95	1.11	1.24	1.23	2.17	1.67	1.00	.87	1.06	1.02	.95

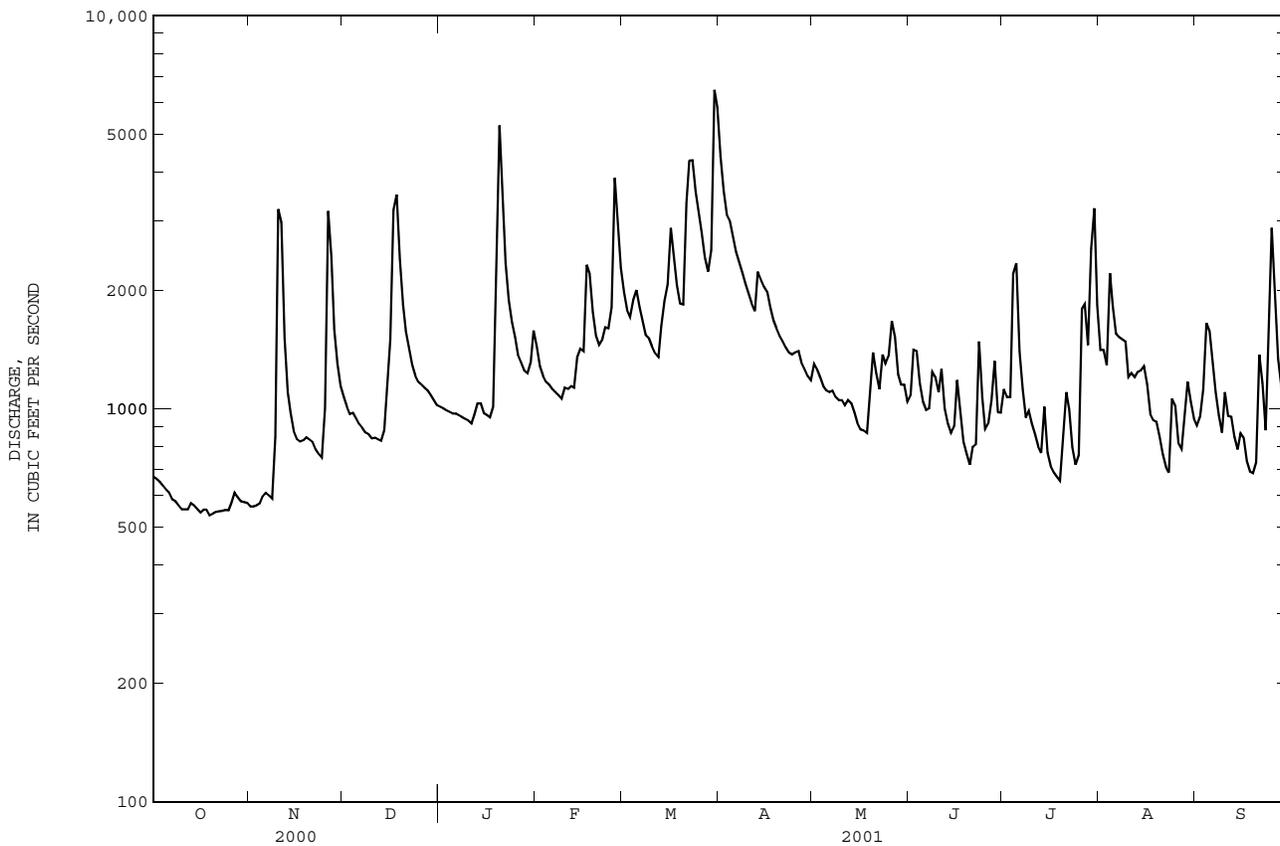
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2001, BY WATER YEAR (WY)

	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955
MEAN	1764	2007	2406	2919	3341	3756	3404	2653	2170	1745	1756	1523	
MAX	8172	5640	5465	6279	7373	7170	6149	5478	4191	5071	4905	3857	
(WY)	1965	1980	1962	1998	1998	1975	1983	1973	1989	1949	1994	1950	
MIN	450	651	778	715	1571	1235	1191	1066	700	708	635	384	
(WY)	1955	1955	1956	1956	1988	1988	1986	1988	1988	1986	1956	1954	

03453500 FRENCH BROAD RIVER AT MARSHALL, NC--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1943 - 2001	
ANNUAL TOTAL	548571		493108		2449	
ANNUAL MEAN	1499		1351		3573	
HIGHEST ANNUAL MEAN					1229	
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	9760	Apr 4	6460	Mar 30	30800	Oct 5 1964
LOWEST DAILY MEAN	535	Oct 19	535	Oct 19	292	Sep 27 1954
ANNUAL SEVEN-DAY MINIMUM	546	Oct 16	546	Oct 16	313	Sep 24 1954
MAXIMUM PEAK FLOW			6830		54000	
MAXIMUM PEAK STAGE			4.11		13.64	
INSTANTANEOUS LOW FLOW			481		193*	
ANNUAL RUNOFF (CFSM)	1.13		1.01		1.84	
ANNUAL RUNOFF (INCHES)	15.32		13.77		24.98	
10 PERCENT EXCEEDS	2650		2330		4380	
50 PERCENT EXCEEDS	1200		1120		1950	
90 PERCENT EXCEEDS	606		644		896	

e Estimated.  
 \* See REMARKS.



## TENNESSEE RIVER BASIN

03455500 WEST FORK PIGEON RIVER ABOVE LAKE LOGAN NEAR HAZELWOOD, NC

LOCATION.--Lat 35°23'46", long 82°56'17", Haywood County, Hydrologic Unit 06010106, on right bank at upstream side of bridge on Secondary Road 1216, 600 ft upstream from Big Creek, 1.1 mi upstream from Lake Logan, 6.7 mi southeast of Hazelwood, and at mile 9.3.

DRAINAGE AREA.--27.6 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1954 to current year.

REVISED RECORDS.--WDR NC-95-1: 1994 (M).

GAGE.--Water-stage recorder. Datum of gage is 2,976.00 ft above sea level. Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum gage height for period of record, from floodmarks. Minimum discharge for period of record also occurred Sept. 30, 1954. Minimum discharge for current water year also occurred Nov. 1, 2, 4, 6, 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	16	39	e42	69	105	190	57	116	55	42	32
2	21	16	37	e40	65	98	153	54	76	40	38	32
3	20	17	36	e39	61	113	196	51	59	40	36	48
4	20	17	e32	e38	60	188	193	50	55	40	52	70
5	19	18	e31	e37	58	129	166	50	48	43	140	38
6	18	17	e31	e36	55	111	149	52	45	34	85	33
7	18	29	30	e36	54	102	130	48	44	32	57	30
8	18	30	29	e34	53	97	117	47	64	31	57	29
9	18	420	29	35	52	91	107	47	52	32	48	28
10	18	116	30	36	74	85	99	53	46	38	50	106
11	18	49	29	35	55	81	94	45	44	30	55	43
12	18	39	29	36	62	117	89	44	40	29	49	36
13	18	34	28	28	72	145	124	43	38	28	83	33
14	18	31	118	29	114	102	95	40	41	26	64	30
15	18	29	49	41	110	157	104	41	39	25	49	29
16	18	29	234	41	124	145	93	40	37	25	45	27
17	18	49	321	39	219	122	84	39	34	26	42	26
18	18	32	117	161	119	108	80	38	32	25	40	26
19	18	32	96	681	101	99	76	40	32	28	36	35
20	18	29	e73	253	92	103	72	49	31	37	34	87
21	18	e27	e68	149	87	110	69	40	34	31	32	37
22	21	e26	e65	121	114	114	67	46	39	26	31	32
23	18	27	e62	104	99	122	65	45	39	24	29	30
24	18	28	e59	93	86	127	65	38	31	24	30	208
25	18	238	e56	e86	292	128	66	116	30	88	29	77
26	19	91	e54	e78	165	121	60	61	46	53	48	55
27	18	61	53	74	131	111	57	48	39	34	31	47
28	18	51	51	69	116	105	56	52	62	31	29	42
29	18	46	46	67	---	303	54	61	37	163	27	39
30	17	42	e45	113	---	266	59	47	70	78	28	36
31	17	---	e43	75	---	241	---	44	---	49	28	---
TOTAL	572	1686	2020	2746	2759	4046	3029	1526	1400	1265	1444	1421
MEAN	18.5	56.2	65.2	88.6	98.5	131	101	49.2	46.7	40.8	46.6	47.4
MAX	22	420	321	681	292	303	196	116	116	163	140	208
MIN	17	16	28	28	52	81	54	38	30	24	27	26
CFSM	.67	2.04	2.36	3.21	3.57	4.73	3.66	1.78	1.69	1.48	1.69	1.72
IN.	.77	2.27	2.72	3.70	3.72	5.45	4.08	2.06	1.89	1.70	1.95	1.92

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2001, BY WATER YEAR (WY)

	MEAN	71.5	88.5	109	128	154	165	143	107	82.4	58.3	58.2	55.2
MAX	229	301	234	272	355	312	291	289	213	207	187	260	
(WY)	1965	1980	1962	1998	1966	1975	1983	1976	1967	1967	1994	1979	
MIN	13.5	26.8	29.7	34.0	68.7	53.8	47.8	49.2	30.8	23.3	16.4	13.0	
(WY)	1955	1979	1966	1981	1968	1988	1986	2001	1988	1993	1998	1954	

## SUMMARY STATISTICS

## FOR 2000 CALENDAR YEAR

## FOR 2001 WATER YEAR

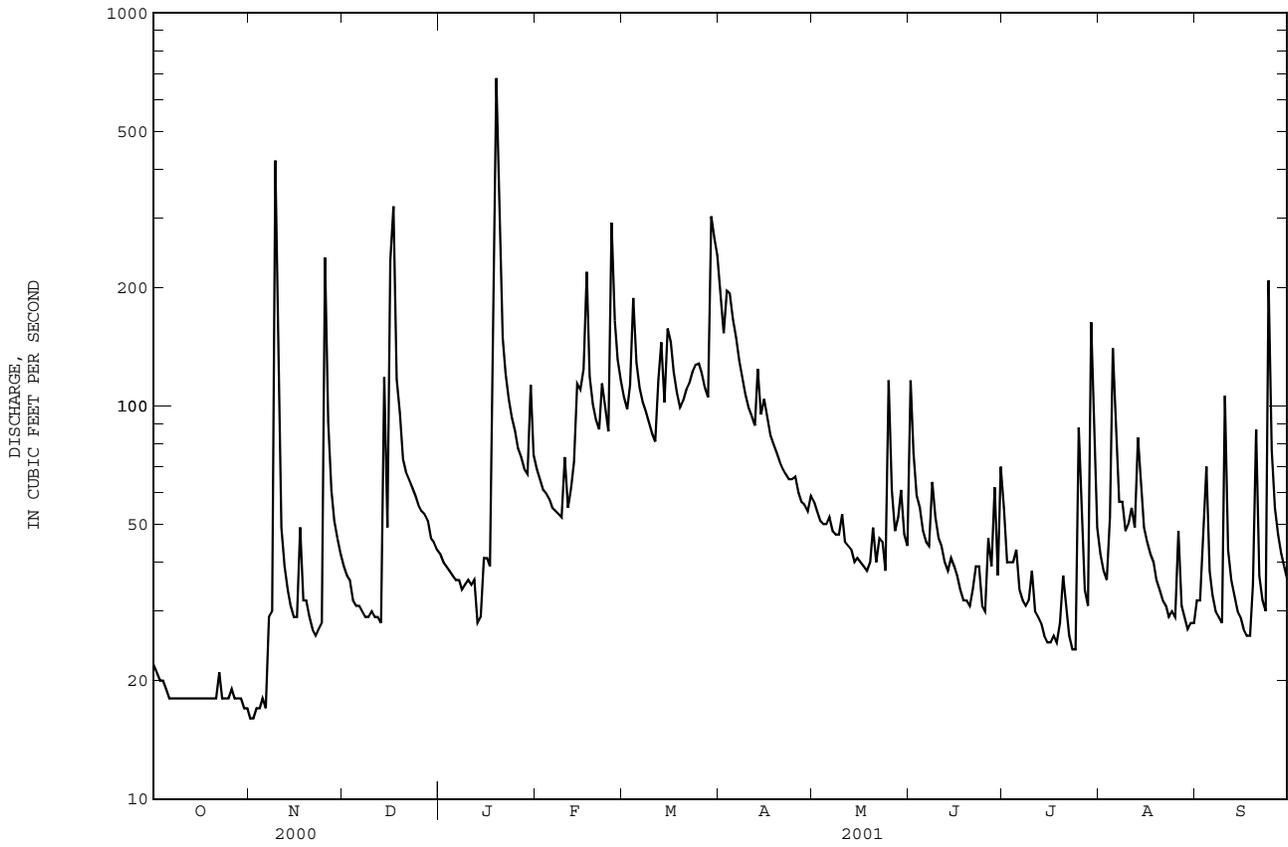
## WATER YEARS 1954 - 2001

ANNUAL TOTAL	24887	23914		
ANNUAL MEAN	68.0	65.5	102	
HIGHEST ANNUAL MEAN			143	1979
LOWEST ANNUAL MEAN			59.6	1986
HIGHEST DAILY MEAN	1010	Mar 20	681	Jan 19
LOWEST DAILY MEAN	16	Nov 1	16	Nov 1
ANNUAL SEVEN-DAY MINIMUM	17	Oct 29	17	Oct 29
MAXIMUM PEAK FLOW			1740	Jan 19
MAXIMUM PEAK STAGE			4.66	Jan 19
INSTANTANEOUS LOW FLOW			16*	Oct 31
ANNUAL RUNOFF (CFSM)	2.46	2.37	3.69	9.50*
ANNUAL RUNOFF (INCHES)	33.54	32.23	50.17	9.4*
10 PERCENT EXCEEDS	128	121	186	70
50 PERCENT EXCEEDS	48	46	70	26
90 PERCENT EXCEEDS	19	22	26	

e Estimated.

\* See REMARKS.

03455500 WEST FORK PIGEON RIVER ABOVE LAKE LOGAN NEAR HAZELWOOD, NC--Continued



## TENNESSEE RIVER BASIN

03455773 LAKE LOGAN AT DAM NEAR HAZELWOOD, NC

LOCATION.--Lat 35°25'15", long 82°55'30", Haywood County, Hydrologic Unit 06010106, at Lake Logan Dam on West Fork Pigeon River near Hazelwood, and at river mi 7.0.

DRAINAGE AREA.--33.3 mi<sup>2</sup>.

## GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 1997 to current year. Records for October 1986 to January 1991 and November 1995 to September 1997 are unpublished and available in the USGS District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is 2,856.23 ft above sea level. Satellite and telephone telemetry at station.

REMARKS.--Records good. Total capacity is 1,040 ft<sup>3</sup>/s-day (top of flashboards), all of which is usable. Filling began November 1931. (See station 0345577330).

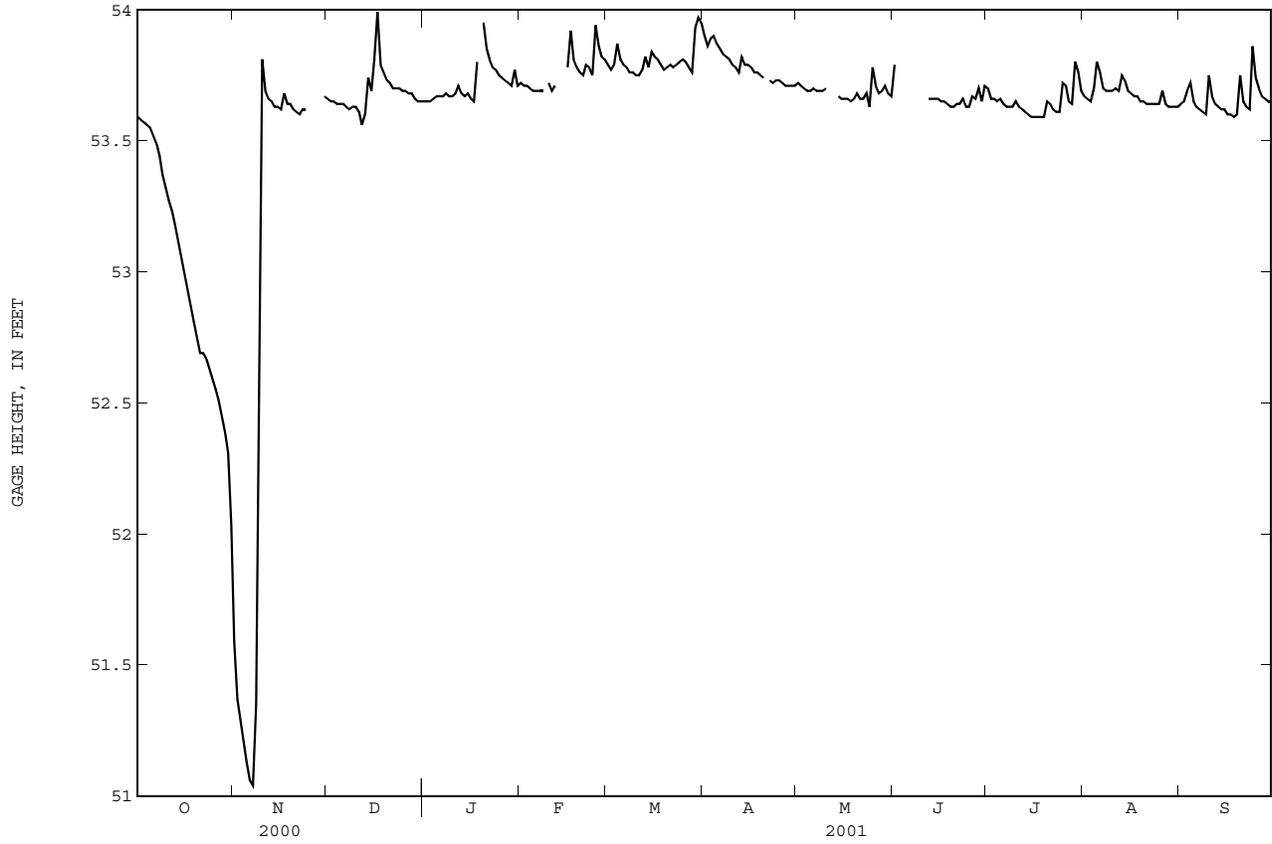
EXTREMES FOR PERIOD OF RECORD.--Maximum, 56.46 ft, Jan. 7, 1998; minimum, 46.42 ft, Sept. 21, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum, 54.52 ft, Dec. 17; minimum, 50.97 ft, Nov. 7.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53.59	51.59	53.66	53.65	53.72	53.79	53.90	53.72	53.79	53.70	53.67	53.64
2	53.58	51.37	53.65	53.65	53.71	53.77	53.86	53.71	---	53.66	53.66	53.65
3	53.57	51.28	53.65	53.65	53.71	53.79	53.89	53.70	---	53.66	53.65	53.69
4	53.56	51.20	53.64	53.66	53.70	53.87	53.90	53.69	---	53.65	53.70	53.72
5	53.55	51.13	53.64	53.67	53.69	53.81	53.87	53.69	---	53.66	53.80	53.65
6	53.52	51.06	53.64	53.67	53.69	53.79	53.85	53.70	---	53.64	53.76	53.63
7	53.49	51.04	53.63	53.67	53.69	53.78	53.83	53.69	---	53.63	53.70	53.62
8	53.44	51.35	53.62	53.68	53.69	53.76	53.82	53.69	---	53.63	53.69	53.61
9	53.37	52.88	53.63	53.67	---	53.76	53.81	53.69	---	53.63	53.69	53.60
10	53.32	53.81	53.63	53.67	53.72	53.75	53.79	53.70	---	53.65	53.69	53.75
11	53.27	53.69	53.61	53.68	53.69	53.75	53.78	---	---	53.63	53.70	53.67
12	53.23	53.66	53.56	53.71	53.71	53.77	53.76	---	53.66	53.62	53.69	53.64
13	53.18	53.65	53.60	53.68	---	53.82	53.82	---	53.66	53.61	53.75	53.63
14	53.12	53.63	53.74	53.67	---	53.78	53.79	53.67	53.66	53.60	53.73	53.62
15	53.06	53.63	53.69	53.68	---	53.84	53.79	53.66	53.66	53.59	53.69	53.62
16	53.00	53.62	53.81	53.66	53.78	53.82	53.78	53.66	53.65	53.59	53.68	53.60
17	52.94	53.68	53.99	53.65	53.92	53.81	53.76	53.66	53.65	53.59	53.67	53.60
18	52.88	53.64	53.79	53.80	53.81	53.79	53.76	53.65	53.64	53.59	53.67	53.59
19	52.81	53.64	53.76	---	53.78	53.77	53.75	53.66	53.63	53.59	53.65	53.60
20	52.75	53.62	53.73	53.95	53.76	53.78	53.74	53.68	53.63	53.65	53.65	53.75
21	52.69	53.61	53.72	53.85	53.75	53.79	---	53.66	53.64	53.64	53.64	53.65
22	52.69	53.60	53.70	53.81	53.79	53.78	53.73	53.66	53.64	53.62	53.64	53.63
23	52.67	53.62	53.70	53.78	53.78	53.79	53.72	53.68	53.66	53.61	53.64	53.62
24	52.63	53.62	53.70	53.77	53.75	53.80	53.73	53.63	53.63	53.61	53.64	53.86
25	52.59	---	53.69	53.75	53.94	53.81	53.73	53.78	53.63	53.72	53.64	53.74
26	52.55	---	53.69	53.74	53.86	53.80	53.72	53.71	53.67	53.71	53.69	53.70
27	52.51	---	53.68	53.73	53.82	53.78	53.71	53.68	53.66	53.65	53.64	53.67
28	52.45	---	53.68	53.72	53.81	53.76	53.71	53.69	53.70	53.64	53.63	53.66
29	52.39	---	53.66	53.71	---	53.93	53.71	53.71	53.65	53.80	53.63	53.65
30	52.31	53.67	53.65	53.77	---	53.97	53.71	53.68	53.71	53.76	53.63	53.65
31	52.03	---	53.65	53.71	---	53.95	---	53.67	---	53.69	53.63	---
MEAN	52.99	---	53.68	---	---	53.81	---	---	---	53.65	53.68	53.66
MAX	53.59	---	53.99	---	---	53.97	---	---	---	53.80	53.80	53.86
MIN	52.03	---	53.56	---	---	53.75	---	---	---	53.59	53.63	53.59

03455773 LAKE LOGAN AT DAM NEAR HAZELWOOD, NC--Continued



TENNESSEE RIVER BASIN

03455773 LAKE LOGAN AT DAM NEAR HAZELWOOD, NC

PRECIPITATION RECORDS

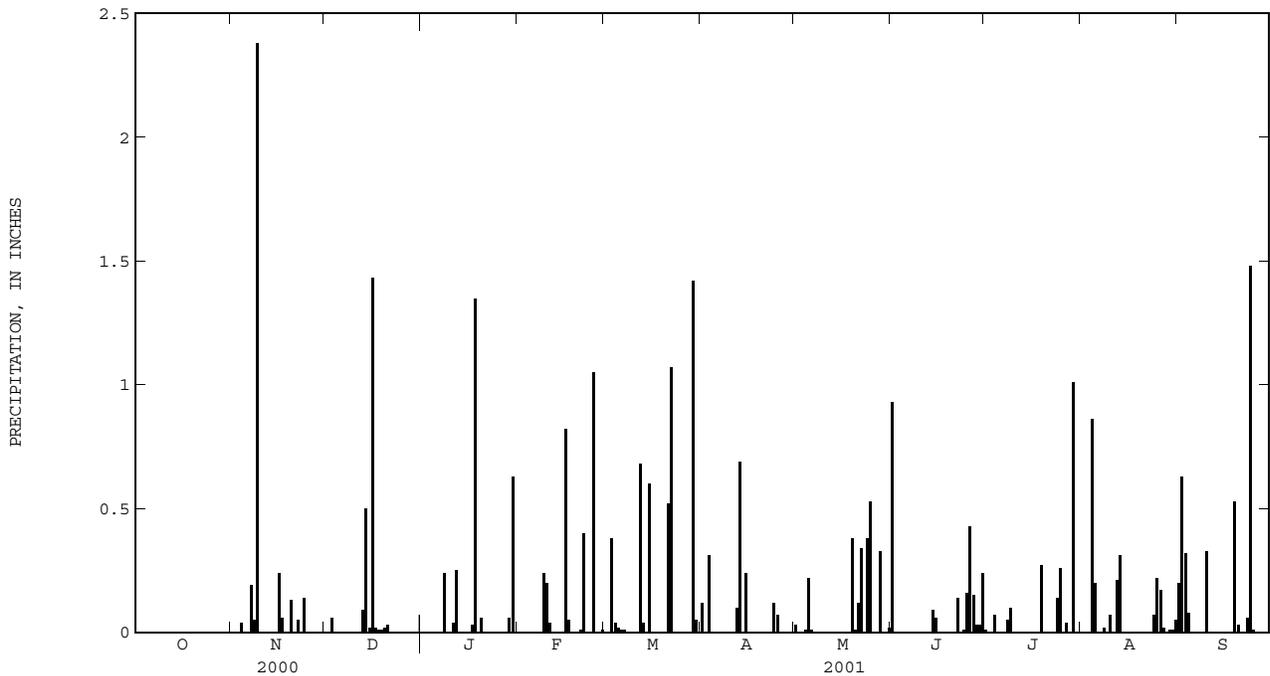
PERIOD OF RECORD.--December 1998 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Satellite and telephone telemetry at site.

REMARKS.--Gage is operated in cooperation with Blue Ridge Paper Products, Inc. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.12	.03	.93	.01	.00	.20
2	.00	.00	.00	.00	.00	.00	.00	.00	---	.00	.00	.63
3	.00	.00	.06	.00	.00	.38	.31	.00	---	.00	.00	.32
4	.00	.04	.00	.00	.00	.04	.00	.01	---	.07	.86	.08
5	.00	.00	.00	.00	.00	.02	.00	.22	---	.00	.20	.00
6	.00	.00	.00	.00	.00	.01	.00	.01	---	.00	.00	.00
7	.00	.19	.00	.00	.00	.01	.00	.00	---	.00	.00	.00
8	.00	.05	.00	.24	.00	.00	.00	.00	---	.05	.02	.00
9	.00	2.38	.00	.00	.24	.00	.00	---	---	.10	.00	.00
10	.00	.00	.00	.00	.20	.00	.00	.00	---	.00	.07	.33
11	.00	.00	.00	.04	.04	.00	.00	.00	---	.00	.00	.00
12	.00	.00	.00	.25	---	.68	.10	.00	.00	.00	.21	.00
13	.00	.00	.09	.00	---	.04	.69	.00	.00	.00	.31	.00
14	.00	.00	.50	.00	---	.00	.00	.00	.09	.00	.00	.00
15	.00	.00	.02	.00	---	.60	.24	.00	.06	.00	.00	.00
16	.00	.24	1.43	.00	.82	.00	.00	.00	.00	.00	.00	.00
17	.00	.06	.02	.03	.05	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.01	1.35	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.01	---	.00	.00	.00	.38	.00	.27	.00	.53
20	.00	.13	.02	.06	.00	.00	.00	.01	.00	.00	.00	.03
21	.00	.00	.03	.00	.01	.52	.00	.12	.00	.00	.00	.00
22	.00	.05	.00	.00	.40	1.07	.00	.34	.14	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06
24	.00	.14	.00	.00	.00	.00	.12	.38	.01	.14	.07	1.48
25	.00	---	.00	.00	1.05	.00	.07	.53	.16	.26	.22	.01
26	.00	---	.00	.00	.00	.00	.00	.00	.43	.00	.17	.00
27	.00	---	.00	.00	.00	.00	.00	.00	.15	.04	.02	.00
28	.00	---	.00	.00	.01	.00	.00	.33	.03	.00	.00	.00
29	.00	---	.00	.06	---	1.42	.00	.00	.03	1.01	.01	.00
30	.00	.00	.00	.63	---	.05	.00	.00	.24	.00	.01	.00
31	.00	---	.00	.00	---	.00	---	.02	---	.00	.05	---
TOTAL	0.00	---	2.19	---	---	4.84	1.65	---	---	1.95	2.22	3.67





USGS hydrographer making a wading discharge measurement at Pee Dee River below Lake Tillery, North Carolina.

## TENNESSEE RIVER BASIN

0345577330 WEST FORK PIGEON RIVER NEAR RETREAT, NC

LOCATION.--Lat 35°25'36", long 82°55'12", Haywood County, Hydrologic Unit 06010106, on right bank at upstream side of bridge on State Highway 215, and 1.6 mi southwest of Retreat.

DRAINAGE AREA.--33.5 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1988 to current year.

REVISED RECORDS.--WDR NC-95-1: 1994(M).

GAGE.--Water-stage recorder and crest-stage gages. Elevation of gage is 2,839 ft above sea level, from topographic map. Satellite and telephone telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Some low flow regulation, at times, caused by Lake Logan (station 03455773). Maximum discharge for period of record from rating curve extended above 4,000 ft<sup>3</sup>/s by logarithmic plotting.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	42	46	34	62	108	216	56	149	67	45	27
2	23	23	43	e33	57	100	160	51	98	41	39	33
3	22	21	42	e32	53	106	211	48	63	41	36	53
4	21	20	37	e31	51	219	208	46	60	38	66	87
5	20	20	37	e31	49	133	168	47	50	46	179	40
6	20	19	35	e31	46	109	149	49	46	31	131	29
7	20	20	33	32	45	99	132	43	45	28	68	26
8	19	20	32	38	44	91	118	44	73	27	66	23
9	19	379	30	30	48	85	107	43	60	28	55	23
10	20	192	32	e24	63	78	98	49	47	37	54	135
11	20	64	38	e26	47	75	91	42	45	26	67	50
12	20	47	26	47	54	110	86	41	40	23	54	36
13	20	40	39	35	62	158	129	39	37	21	109	31
14	19	35	154	34	114	96	95	36	38	19	82	28
15	19	31	65	44	108	161	102	36	40	17	57	25
16	19	31	254	37	113	149	93	35	33	17	49	22
17	19	61	455	32	289	119	82	34	32	18	42	21
18	20	37	134	184	125	102	77	33	29	17	40	20
19	20	36	e108	886	101	90	74	35	27	16	34	26
20	20	33	e86	334	91	103	70	47	27	32	31	121
21	19	25	e73	163	84	100	68	40	30	25	28	40
22	20	25	63	123	112	98	66	41	32	19	27	28
23	20	28	e59	102	99	107	62	45	42	17	24	25
24	20	30	e58	90	84	110	62	35	27	15	26	302
25	20	313	e54	76	366	110	65	145	26	91	25	113
26	20	135	e51	70	200	104	57	71	45	69	54	70
27	20	81	50	69	139	92	53	48	43	30	28	54
28	20	65	49	62	121	87	51	52	71	27	24	47
29	20	58	43	62	---	333	51	68	38	213	22	42
30	23	52	e40	115	---	340	53	48	78	118	22	39
31	43	---	e37	67	---	297	---	43	---	57	24	---
TOTAL	650	1983	2303	2974	2827	4069	3054	1490	1471	1271	1608	1616
MEAN	21.0	66.1	74.3	95.9	101	131	102	48.1	49.0	41.0	51.9	53.9
MAX	43	379	455	886	366	340	216	145	149	213	179	302
MIN	19	19	26	24	44	75	51	33	26	15	22	20
CFSM	.63	1.97	2.22	2.86	3.01	3.92	3.04	1.43	1.46	1.22	1.55	1.61
IN.	.72	2.20	2.56	3.30	3.14	4.52	3.39	1.65	1.63	1.41	1.79	1.79

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2001, BY WATER YEAR (WY)

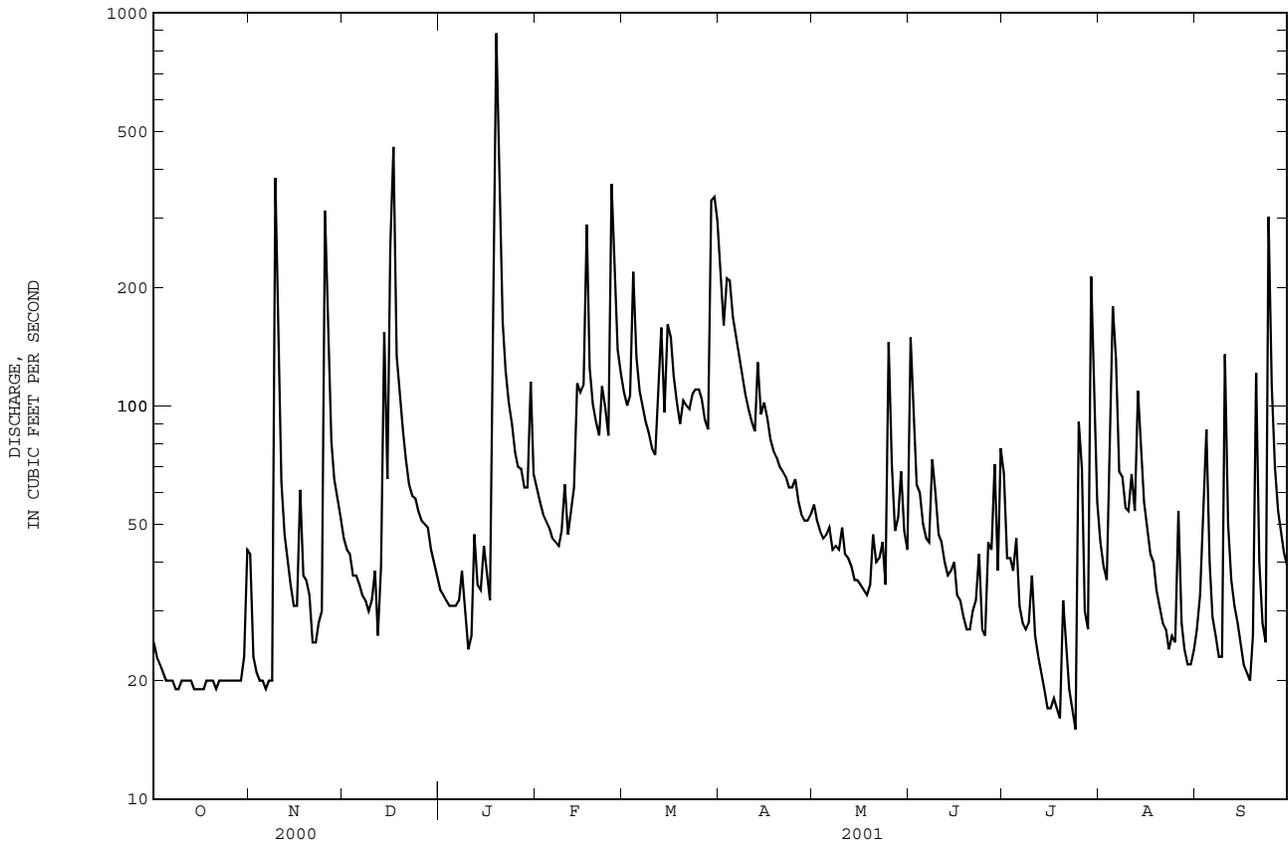
	MEAN	83.8	101	116	180	195	200	156	114	98.9	66.5	78.8	58.1
MAX	262	265	239	314	360	309	268	193	210	209	220	136	
(WY)	1996	1993	1993	1996	1990	1990	1994	1990	1989	1989	1994	1989	
MIN	18.5	34.7	52.1	95.1	101	62.6	72.2	48.1	40.0	31.3	24.7	17.3	
(WY)	1999	1999	1989	2000	2001	1988	1995	2001	1988	1993	1998	1998	

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1988 - 2001
ANNUAL TOTAL	31082	25316	
ANNUAL MEAN	84.9	69.4	123
HIGHEST ANNUAL MEAN			157
LOWEST ANNUAL MEAN			69.4
HIGHEST DAILY MEAN	1380	Mar 20	886
LOWEST DAILY MEAN	19	Sep 15	15
ANNUAL SEVEN-DAY MINIMUM	19	Oct 11	18
MAXIMUM PEAK FLOW			1970
MAXIMUM PEAK STAGE			4.77
INSTANTANEOUS LOW FLOW			12
ANNUAL RUNOFF (CFSM)	2.54	2.07	3.67
ANNUAL RUNOFF (INCHES)	34.51	28.11	49.81
10 PERCENT EXCEEDS	164	132	229
50 PERCENT EXCEEDS	55	46	82
90 PERCENT EXCEEDS	20	20	30

e Estimated.

\* See REMARKS.

0345577330 WEST FORK PIGEON RIVER NEAR RETREAT, NC--Continued



## TENNESSEE RIVER BASIN

03456100 WEST FORK PIGEON RIVER AT BETHEL, NC

LOCATION.--Lat 35°27'48", long 82°54'00", Haywood County, Hydrologic Unit 06010106, on left bank 20 ft downstream of bridge on Secondary Road 1112, 0.6 mi southwest of Bethel, 1.6 mi upstream from confluence with East Fork Pigeon River, and 5.6 mi downstream of Lake Logan.

DRAINAGE AREA.--58.4 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1981 to current year.

REVISED RECORDS.--WDR NC-95-1: 1994 (M).

GAGE.--Water-stage recorder. Datum of gage is 2,667.78 ft above sea level (levels by Tennessee Valley Authority). Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Considerable regulation, at times, caused by Lake Logan (station 03455773). Minimum discharge for current water year also occurred Oct. 4, 5, 6, 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	59	57	e52	98	167	337	103	137	74	52	41
2	30	39	54	e50	95	155	281	97	115	56	48	46
3	29	36	53	e49	94	155	310	91	85	55	45	57
4	29	36	49	e49	92	245	313	88	81	53	70	80
5	28	36	48	e49	89	184	280	87	73	59	119	50
6	29	35	47	49	85	162	255	90	69	48	108	41
7	29	36	46	48	84	148	229	83	68	46	65	39
8	29	38	45	54	82	151	207	82	86	46	62	37
9	30	345	43	47	82	141	193	81	82	48	57	36
10	31	205	44	e44	105	127	181	90	70	52	56	100
11	31	71	47	e44	86	121	170	78	67	45	69	56
12	31	56	43	61	92	140	159	75	62	43	58	45
13	31	50	45	52	97	204	209	73	60	41	91	41
14	31	46	134	50	152	147	174	70	63	40	78	39
15	31	43	70	58	147	206	179	69	69	37	60	38
16	31	42	174	53	154	209	168	66	62	37	54	36
17	31	63	514	48	324	181	153	64	58	37	50	35
18	32	48	150	150	191	162	145	64	55	37	48	35
19	33	47	122	984	164	149	140	66	53	37	45	36
20	33	46	e88	442	146	167	134	82	52	49	42	96
21	33	40	e81	241	136	166	128	71	55	44	41	49
22	34	39	e79	191	167	170	123	72	55	38	39	40
23	35	42	77	162	155	187	120	79	65	36	38	37
24	37	43	76	144	135	199	117	68	51	35	39	210
25	38	273	69	126	365	204	121	142	50	72	39	94
26	39	139	66	116	258	194	109	98	63	84	58	64
27	39	86	66	112	203	172	103	75	64	46	42	54
28	39	73	65	104	183	160	100	76	76	44	38	49
29	39	66	60	102	---	370	98	90	57	148	37	46
30	40	61	e57	177	---	451	98	72	77	108	36	44
31	56	---	e54	110	---	403	---	68	---	61	36	---
TOTAL	1038	2239	2623	4018	4061	5997	5334	2510	2080	1656	1720	1671
MEAN	33.5	74.6	84.6	130	145	193	178	81.0	69.3	53.4	55.5	55.7
MAX	56	345	514	984	365	451	337	142	137	148	119	210
MIN	28	35	43	44	82	121	98	64	50	35	36	35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2001, BY WATER YEAR (WY)

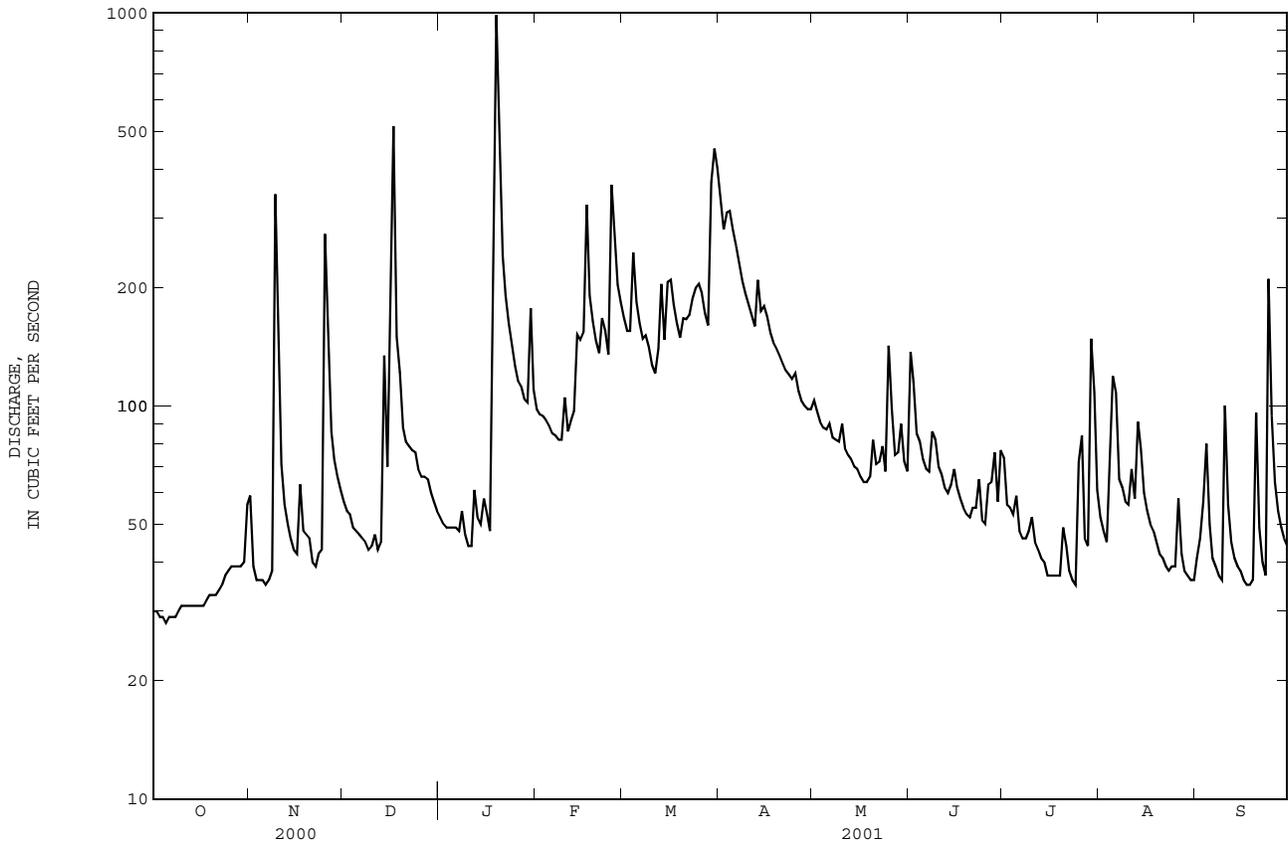
	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	
MEAN	92.7	125	166	210	258	271	226	165	117	84.1	90.7	69.2										
MAX	336	341	334	450	522	461	481	368	287	281	317	207										
(WY)	1996	1993	1984	1998	1998	1997	1983	1984	1992	1989	1994	1989										
MIN	30.5	43.0	83.5	53.5	102	83.6	83.5	81.0	53.0	45.8	29.3	27.6										
(WY)	1999	1982	1989	1981	1986	1988	1986	2001	1988	1993	1993	1998										

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1981 - 2001	
ANNUAL TOTAL	39100		34947			
ANNUAL MEAN	107		95.7		158	
HIGHEST ANNUAL MEAN					211	
LOWEST ANNUAL MEAN					87.5	
HIGHEST DAILY MEAN	1550	Mar 20	984	Jan 19	3810	Feb 2 1983
LOWEST DAILY MEAN	28	Oct 5	28	Oct 5	9.2	Sep 2 1986
ANNUAL SEVEN-DAY MINIMUM	29	Oct 2	29	Oct 2	16	Sep 2 1986
MAXIMUM PEAK FLOW			2220		8900	
MAXIMUM PEAK STAGE			4.85		12.63	
INSTANTANEOUS LOW FLOW			28*		4.2	
10 PERCENT EXCEEDS	205		183		304	
50 PERCENT EXCEEDS	75		66		106	
90 PERCENT EXCEEDS	33		36		44	

e Estimated.

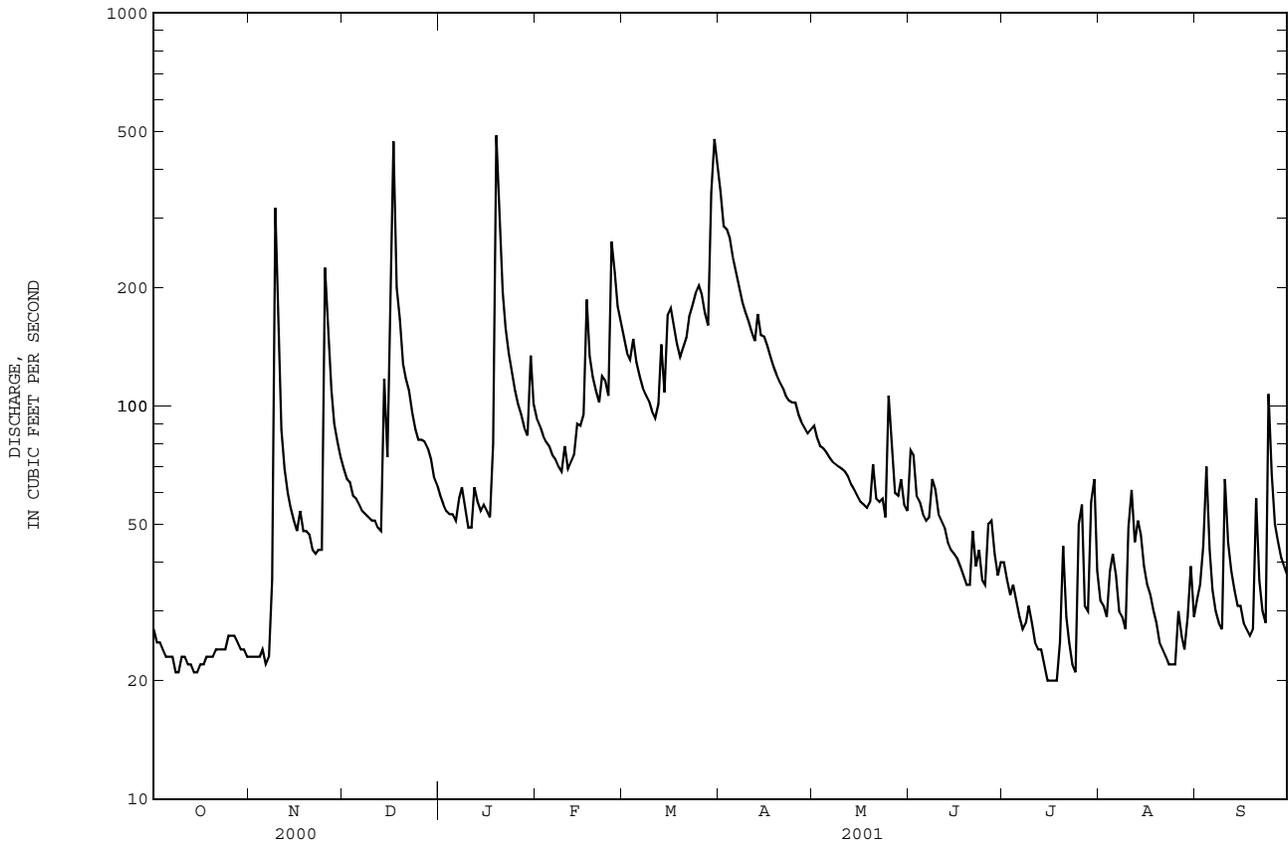
\* See REMARKS.

03456100 WEST FORK PIGEON RIVER AT BETHEL, NC--Continued





03456500 EAST FORK PIGEON RIVER NEAR CANTON, NC--Continued



TENNESSEE RIVER BASIN

03456500 EAST FORK PIGEON RIVER NEAR CANTON, NC--Continued

PRECIPITATION RECORDS

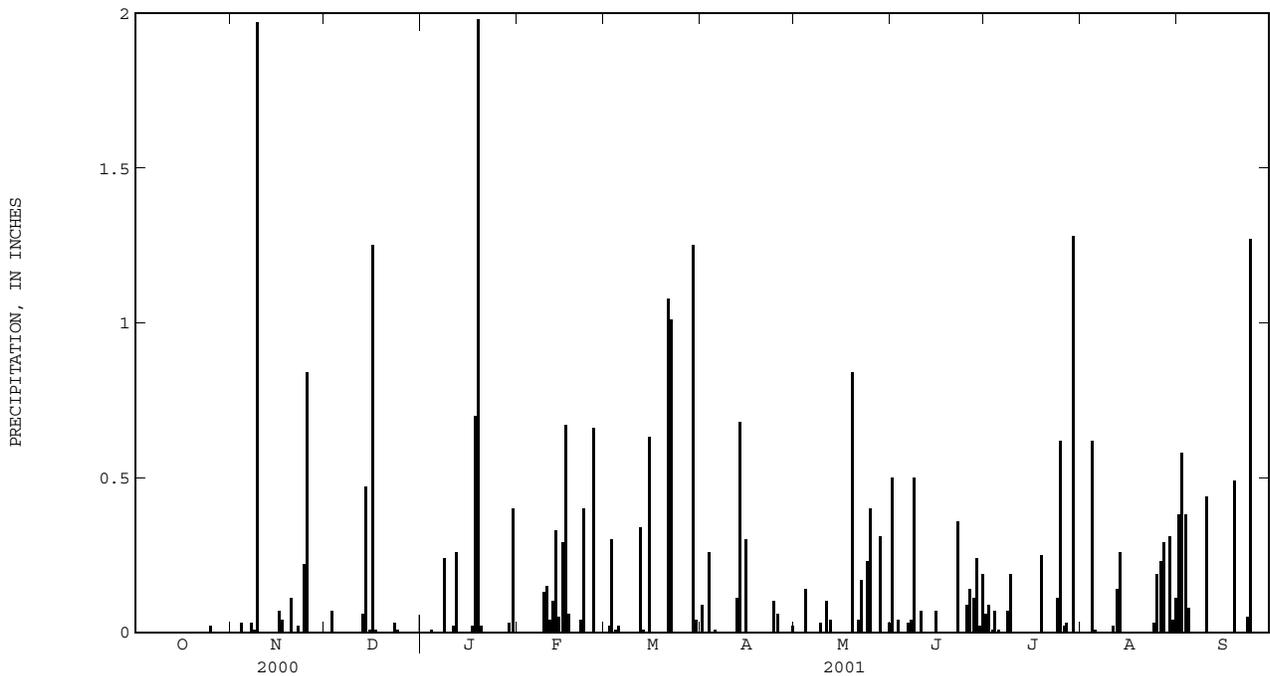
PERIOD OF RECORD.--October 1999 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Satellite and telephone telemetry at site.

REMARKS.--Gage is operated in cooperation with Blue Ridge Paper Products, Inc. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.09	.00	.50	.06	.00	.38
2	.00	.00	.00	.00	.00	.02	.00	.00	.00	.09	.00	.58
3	.00	.00	.07	.00	.00	.30	.26	.00	.04	.01	.00	.38
4	.00	.03	.00	.01	.00	.01	.00	.14	.00	.07	.62	.08
5	.00	.00	.00	.00	.00	.02	.01	.00	.00	.01	.01	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00
7	.00	.03	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00
8	.00	.01	.00	.24	.00	.00	.00	.00	.50	.07	.00	.00
9	.00	1.97	.00	.00	.13	.00	.00	.03	.00	.19	.00	.00
10	.00	.00	.00	.00	.15	.00	.00	.00	.07	.00	.00	.44
11	.00	.00	.00	.02	.04	.00	.00	.10	.00	.00	.02	.00
12	.00	.00	.00	.26	.10	.34	.11	.04	.00	.00	.14	.00
13	.00	.00	.06	.00	.33	.01	.68	.00	.00	.00	.26	.00
14	.00	.00	.47	.00	.05	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.01	.00	.29	.63	.30	.00	.07	.00	.00	.00
16	.00	.07	1.25	.00	.67	.00	.00	.00	.00	.00	.00	.00
17	.00	.04	.01	.02	.06	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.70	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	1.98	.00	.00	.00	.84	.00	.25	.00	.49
20	.00	.11	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.04	1.08	.00	.04	.00	.00	.00	.00
22	.00	.02	.00	.00	.40	1.01	.00	.17	.36	.00	.00	.00
23	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.05
24	.00	.22	.01	.00	.00	.00	.10	.23	.00	.11	.03	1.27
25	.02	.84	.00	.00	.66	.00	.06	.40	.09	.62	.19	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.14	.02	.23	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.11	.03	.29	.00
28	.00	.00	.00	.00	.00	.00	.00	.31	.24	.00	.00	.00
29	.00	.00	.00	.03	---	1.25	.00	.00	.02	1.28	.31	.00
30	.00	.00	.00	.40	---	.04	.02	.00	.19	.00	.04	.00
31	.00	---	.00	.00	---	.00	---	.03	---	.00	.11	---
TOTAL	0.02	3.34	1.91	3.68	2.92	4.71	1.63	2.33	2.40	2.81	2.25	3.67





Flow over dam at Cullasaja River near Highlands, North Carolina.

## TENNESSEE RIVER BASIN

03456991 PIGEON RIVER NEAR CANTON, NC

LOCATION.--Lat 35°31'19", long 82°50'53", Haywood County, Hydrologic Unit 06010106, on right bank 600 ft upstream from State Highway 215 bridge, 1.3 mi upstream from U.S. Highways 19 and 23 at Canton, and at mile 64.9.

DRAINAGE AREA.--130 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1907 to June 1909, October 1928 to current year. Monthly discharge only for some periods published in WSP 1306. Published as Pigeon River at Canton, NC (03457000) May 1907 to June 1909, October 1928 to September 1983.

REVISED RECORDS.--WSP 823: Drainage area. WSP 853: 1929-37(M). WSP 1306: 1903(M). WDR NC-91-1: 1984-89(M).

GAGE.--Water-stage recorder. Datum of gage is 2,581.66 ft above sea level (Tennessee Valley Authority bench mark). Prior to June 1909, nonrecording gage at bridge 1.2 mi downstream at different datum. Dec. 6, 1928, to Jan. 3, 1929, nonrecording gage at site 0.8 mi downstream at different datum. Prior to Oct. 1, 1983, water-stage recorder at site 0.8 mi downstream at different datum. Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Occasional diurnal fluctuation and considerable regulation at low flow, since 1932, caused by Lake Logan (station 03455773) on West Fork Pigeon River 11.2 mi upstream. Prior to regulation, maximum discharge: 21,500 ft<sup>3</sup>/s, Aug. 16, 1928; gage height: 16.40 ft; minimum discharge: 39 ft<sup>3</sup>/s, Sept. 3, 1930. Maximum discharge and gage height for period of record, at former site from high water mark in gage well; minimum discharge for period of record, at former site, result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of about 1810 is believed to have been approximately equal to that of Aug. 30, 1940, and flood of June 15, 1876, reached a stage of 18.3 ft; discharge, 25,700 ft<sup>3</sup>/s, at former site, from studies by Tennessee Valley Authority.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	75	136	e132	210	344	678	226	244	151	96	81
2	69	64	129	e132	202	319	557	213	259	129	86	91
3	67	60	126	e132	194	308	568	201	187	123	82	149
4	65	60	117	e129	192	417	573	194	177	113	115	173
5	62	61	113	e129	183	344	512	195	162	118	178	115
6	60	59	109	e129	175	308	469	200	152	104	172	88
7	60	57	106	128	170	286	432	186	154	94	113	80
8	59	68	104	130	166	283	399	186	184	93	105	77
9	58	507	98	e126	165	272	375	183	193	97	98	76
10	59	498	98	e120	200	249	357	193	158	99	105	174
11	60	184	101	e115	171	239	336	180	153	88	141	123
12	59	140	97	136	176	248	318	176	142	81	118	92
13	59	121	89	127	186	382	397	170	136	79	151	83
14	58	108	251	115	260	285	354	161	132	77	146	78
15	58	99	166	127	260	386	349	158	138	75	111	76
16	59	94	245	122	279	416	340	154	129	74	98	74
17	58	122	1000	112	536	371	313	149	123	74	89	72
18	58	105	395	202	363	334	300	150	114	73	86	71
19	57	98	324	1430	314	309	288	151	110	73	80	72
20	57	99	e243	815	287	338	278	195	108	104	77	169
21	57	86	e194	475	269	358	266	164	124	85	75	100
22	57	76	e182	381	312	419	257	160	116	76	74	79
23	57	87	e175	327	306	418	253	176	136	72	72	75
24	56	86	e172	295	270	431	243	152	110	71	73	322
25	57	434	e164	263	590	437	256	276	105	104	73	210
26	60	346	164	239	520	419	231	241	127	187	96	135
27	58	219	163	233	414	374	223	174	154	91	80	115
28	58	180	160	214	376	349	218	167	148	80	75	102
29	57	161	148	206	---	654	210	200	124	191	74	94
30	56	149	139	326	---	958	211	165	147	233	84	89
31	65	---	e132	240	---	803	---	155	---	117	77	---
TOTAL	1852	4503	5840	7787	7746	12058	10561	5651	4446	3226	3100	3335
MEAN	59.7	150	188	251	277	389	352	182	148	104	100	111
MAX	72	507	1000	1430	590	958	678	276	259	233	178	322
MIN	56	57	89	112	165	239	210	149	105	71	72	71

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2001,\* BY WATER YEAR (WY)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
MEAN	221	263	321	424	479	537	469	335	262	190	200	186
MAX	787	964	872	1017	1150	1058	1005	981	781	583	1476	818
(WY)	1965	1980	1933	1937	1939	1975	1983	1976	1967	1989	1940	1979
MIN	48.2	59.2	64.5	85.3	150	155	167	132	96.5	89.7	65.9	47.8
(WY)	1955	1955	1940	1956	1941	1988	1986	1941	1941	1993	1954	1998

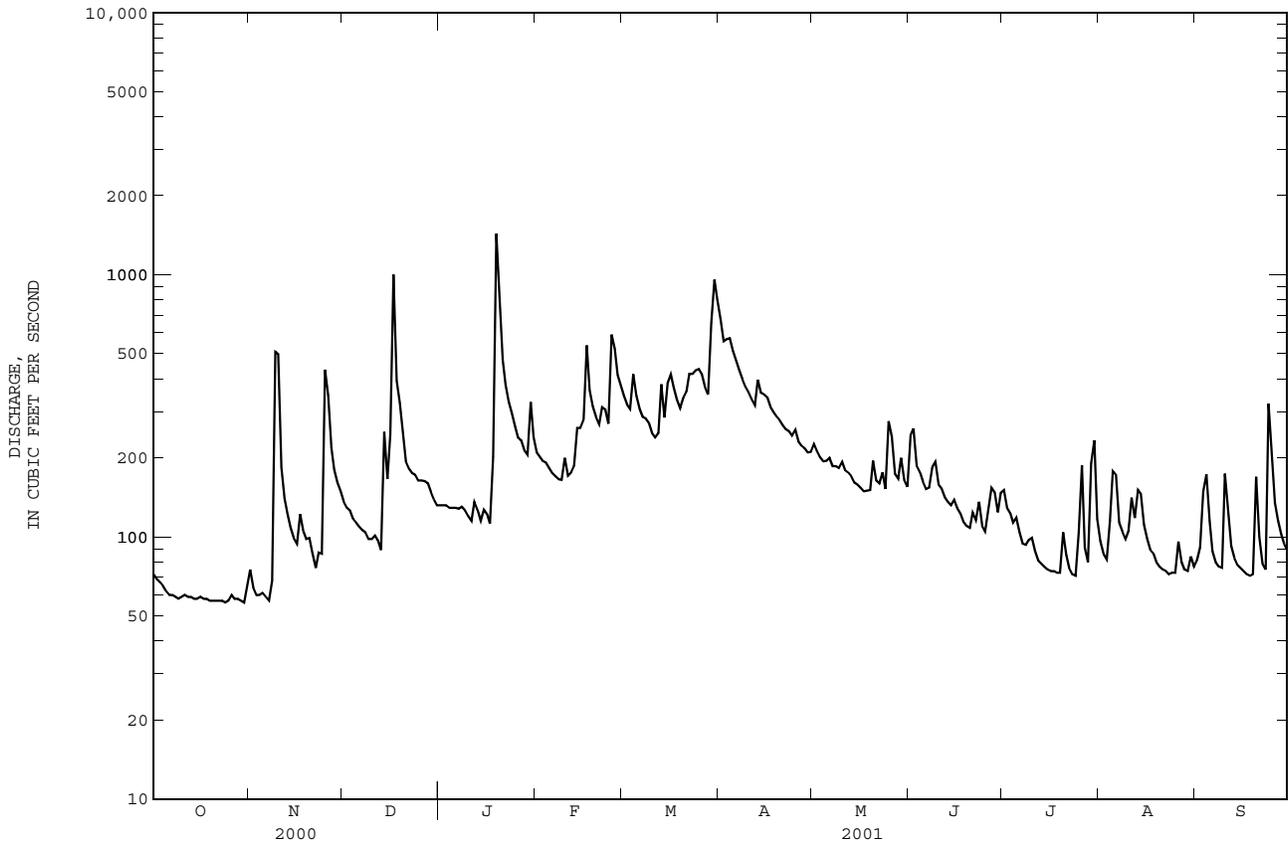
SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1932 - 2001\*

ANNUAL TOTAL	77736	70105										
ANNUAL MEAN	212	192								323		
HIGHEST ANNUAL MEAN										503		1949
LOWEST ANNUAL MEAN										170		1988
HIGHEST DAILY MEAN	2920	Mar 20				1430	Jan 19			12800	Aug 13	1940
LOWEST DAILY MEAN	56	Oct 24				56	Oct 24			27	Sep 7	1954
ANNUAL SEVEN-DAY MINIMUM	57	Oct 19				57	Oct 19			40	Sep 13	1998
MAXIMUM PEAK FLOW						3330	Jan 19			31600*	Aug 30	1940
MAXIMUM PEAK STAGE						5.54	Jan 19			20.75*	Aug 30	1940
INSTANTANEOUS LOW FLOW						54	Nov 7			15*	Jan 8	1956
10 PERCENT EXCEEDS	403					374				609		
50 PERCENT EXCEEDS	154					149				230		
90 PERCENT EXCEEDS	63					69				86		

e Estimated.

\* Regulated period only (1932-2001). See REMARKS.

03456991 PIGEON RIVER NEAR CANTON, NC--Continued



## TENNESSEE RIVER BASIN

03459500 PIGEON RIVER NEAR HEPSCO, NC

LOCATION.--Lat 35°38'05", long 82°59'21", Haywood County, Hydrologic Unit 06010106, on left bank 95 ft east of Interstate Highway 40, 0.8 mi downstream of Jonathan Creek, 2.0 mi south of Hepco, 2.4 mi upstream from Fines Creek, and at mile 45.1.

DRAINAGE AREA.--350 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1927 to current year.

REVISED RECORDS.--WSP 823: Drainage area. WSP 893: 1928-31, 1932(M), 1933-36, 1937-39(M).

GAGE.--Water-stage recorder. Datum of gage is 2,335.95 ft above sea level (levels by Tennessee Valley Authority). Satellite and telephone telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Regulation by Lake Junaluska (station 03458319) on Richland Creek and Lake Logan (station 03455773) on West Fork Pigeon River for periods at low flow, combined capacity of reservoirs, about 2,000 ft<sup>3</sup>/s-day. Maximum discharge for period of record, from rating curve extended above 12,000 ft<sup>3</sup>/s on basis of slope-area measurements at gage heights 14.94 and 15.82 ft. Maximum gage height for period of record from high-water mark in gage house. Maximum gage height for current water year from high-water mark in well.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of June 1876 and February 1902 reached a stage of about 18 ft, from flood profiles by Tennessee Valley Authority; discharge, about 42,000 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	167	156	273	e296	462	737	1400	431	422	375	280	262
2	161	163	262	e311	420	671	1140	408	528	312	252	286
3	157	151	261	e260	413	682	1060	387	388	346	235	351
4	153	150	263	e289	410	839	1100	375	355	291	404	344
5	150	154	263	e271	402	747	988	381	323	300	367	319
6	146	152	244	e253	387	685	979	407	303	256	377	245
7	145	156	238	e257	355	622	896	378	300	225	317	218
8	141	167	221	291	354	562	829	367	365	220	323	203
9	140	991	219	278	383	585	747	364	379	276	379	192
10	140	1350	217	e236	461	545	675	367	307	245	287	261
11	143	452	217	e248	402	510	623	361	308	219	346	313
12	147	340	226	e298	382	514	566	351	281	196	346	222
13	140	293	203	e300	412	693	807	333	260	187	550	201
14	142	264	427	e277	562	608	694	316	280	178	475	189
15	141	246	454	e300	667	760	652	307	294	166	344	179
16	142	262	507	e290	748	824	638	298	272	162	292	172
17	143	363	1590	e271	1360	741	593	288	243	162	263	167
18	141	459	806	e439	992	659	624	285	225	164	246	163
19	140	476	736	e2180	800	600	601	290	214	166	230	164
20	142	392	556	e1380	681	660	574	358	206	212	213	266
21	144	296	432	e885	624	835	549	317	230	216	198	250
22	145	278	416	e739	721	1160	527	335	292	181	187	194
23	143	231	376	680	701	1140	511	341	307	163	184	177
24	143	213	399	618	608	1020	500	301	233	152	273	595
25	151	454	353	546	1090	923	504	594	223	239	205	523
26	160	638	332	471	1310	844	473	522	268	451	293	327
27	152	432	318	510	910	760	451	358	307	255	244	279
28	149	365	315	467	829	706	461	334	337	209	207	249
29	146	312	301	429	---	957	442	371	295	578	192	233
30	146	293	291	568	---	1980	450	336	450	662	233	219
31	142	---	e264	548	---	1570	---	303	---	351	226	---
TOTAL	4542	10649	11980	15186	17846	25139	21054	11164	9195	8115	8968	7763
MEAN	147	355	386	490	637	811	702	360	306	262	289	259
MAX	167	1350	1590	2180	1360	1980	1400	594	528	662	550	595
MIN	140	150	203	236	354	510	442	285	206	152	184	163

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2001, BY WATER YEAR (WY)

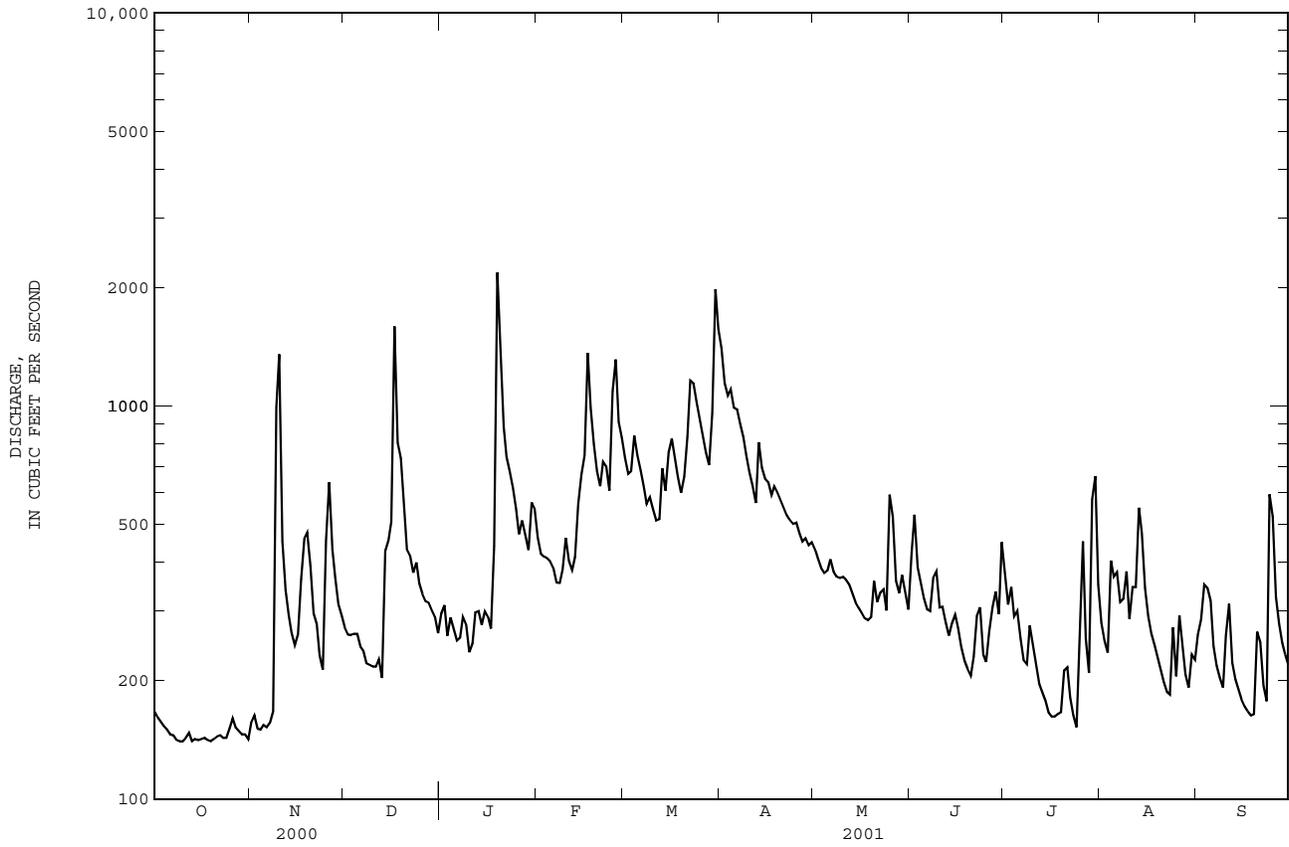
MEAN	413	498	664	882	1030	1155	991	722	540	421	424	373
MAX	1353	1627	2125	2275	2227	2455	2010	1630	1502	1141	2246	1214
(WY)	1965	1980	1933	1937	1990	1929	1936	1984	1967	1989	1940	1928
MIN	122	133	193	194	319	346	359	283	200	183	163	123
(WY)	1955	1954	1940	1940	1941	1988	1986	1941	1988	1986	1953	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1927 - 2001	
ANNUAL TOTAL	162882		151601			
ANNUAL MEAN	445		415		674	
HIGHEST ANNUAL MEAN					943	
LOWEST ANNUAL MEAN					341	
HIGHEST DAILY MEAN	3730	Apr 4	2180	Jan 19	17100	Aug 13 1940
LOWEST DAILY MEAN	133	Sep 17	140	Oct 9	95	Sep 30 1941
ANNUAL SEVEN-DAY MINIMUM	139	Sep 14	141	Oct 13	100	Sep 12 1999
MAXIMUM PEAK FLOW			5410	Jan 19	32700*	Aug 30 1940
MAXIMUM PEAK STAGE			6.70*	Jan 19	15.82*	Aug 30 1940
INSTANTANEOUS LOW FLOW			128	Oct 13	81	Sep 30 1941
10 PERCENT EXCEEDS	791		753		1250	
50 PERCENT EXCEEDS	342		317		502	
90 PERCENT EXCEEDS	152		161		206	

e Estimated.

\* See REMARKS.

03459500 PIGEON RIVER NEAR HEPCO, NC--Continued



## TENNESSEE RIVER BASIN

03460000 CATALOOCHEE CREEK NEAR CATALOOCHEE, NC

LOCATION.--Lat 35°40'02", long 83°04'22", Haywood County, Hydrologic Unit 06010106, in Great Smoky Mountains National Park, on left bank 20 ft downstream of bridge on State Highway 284, 500 ft upstream from Little Cataloochee Creek, 2 mi north of Cataloochee, and 3.7 mi upstream from mouth.

DRAINAGE AREA.--49.2 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1933 to September 1952, October 1962 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 2,456.88 ft above sea level (levels by Tennessee Valley Authority). Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Minimum discharge for period of record also occurred Jan. 2, 1940, and Dec. 17, 24, 1943, result of freezeup. Minimum discharge for current water year, result of freezeup.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	31	49	e58	77	175	188	83	116	249	146	85
2	46	31	49	e57	74	158	164	82	97	126	124	76
3	42	31	48	e57	70	159	180	76	92	120	111	94
4	40	31	47	e55	68	166	177	73	87	111	171	80
5	38	33	45	e55	67	145	164	71	81	103	140	70
6	37	31	44	e55	64	136	155	107	82	90	130	65
7	36	33	44	55	62	127	145	98	79	82	118	62
8	35	38	44	e53	60	120	135	84	106	77	109	59
9	35	255	43	e52	58	114	127	80	85	146	101	57
10	34	139	43	54	84	107	120	79	77	105	129	56
11	34	79	43	e51	62	103	113	77	73	90	137	54
12	33	66	45	e49	67	115	109	78	70	82	128	51
13	34	59	41	e49	67	126	198	70	67	75	136	50
14	34	55	107	47	101	110	149	66	65	69	121	49
15	33	51	64	e48	137	145	167	64	67	65	107	48
16	33	50	114	e46	207	133	153	63	71	62	98	46
17	33	67	248	46	378	128	146	61	60	60	93	45
18	33	51	151	89	256	121	137	59	57	58	87	44
19	32	51	125	443	197	115	128	60	55	60	82	45
20	32	49	106	394	167	123	120	63	53	80	78	52
21	33	46	e100	231	147	128	114	58	52	66	73	45
22	32	e45	e93	171	166	139	108	91	71	55	69	42
23	32	46	e86	141	138	149	104	69	65	52	66	41
24	32	47	e77	122	130	152	103	60	51	50	92	106
25	33	82	e74	108	311	147	98	287	51	88	67	54
26	33	62	e70	e106	312	135	92	148	69	133	68	46
27	33	56	68	93	243	124	89	115	55	77	69	44
28	32	54	65	85	204	117	86	107	56	72	65	42
29	33	52	60	82	---	159	83	98	60	377	71	41
30	32	51	e60	109	---	173	83	88	213	318	75	41
31	32	---	e58	84	---	185	---	84	---	187	69	---
TOTAL	1081	1772	2311	3145	3974	4234	3935	2699	2283	3385	3130	1690
MEAN	34.9	59.1	74.5	101	142	137	131	87.1	76.1	109	101	56.3
MAX	50	255	248	443	378	185	287	213	377	171	171	106
MIN	32	31	41	46	58	103	83	58	51	50	65	41
CFSM	.71	1.20	1.52	2.06	2.88	2.78	2.67	1.77	1.55	2.22	2.05	1.14
IN.	.82	1.34	1.75	2.38	3.00	3.20	2.98	2.04	1.73	2.56	2.37	1.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2001,<sup>®</sup> BY WATER YEAR (WY)

	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	53.4	70.5	111	165	180	204	156	112	84.8	73.3	71.8	53.2																																																								
MAX	146	159	302	392	394	496	305	283	252	182	223	123																																																								
(WY)	1990	1980	1973	1937	1990	1963	1936	1984	1967	1949	1940	1989																																																								
MIN	21.3	22.3	26.0	35.5	49.5	63.2	58.8	46.2	34.7	29.6	26.9	23.5																																																								
(WY)	1999	1940	1940	1940	1941	1988	1986	1986	1986	1986	1987	1998																																																								

## SUMMARY STATISTICS

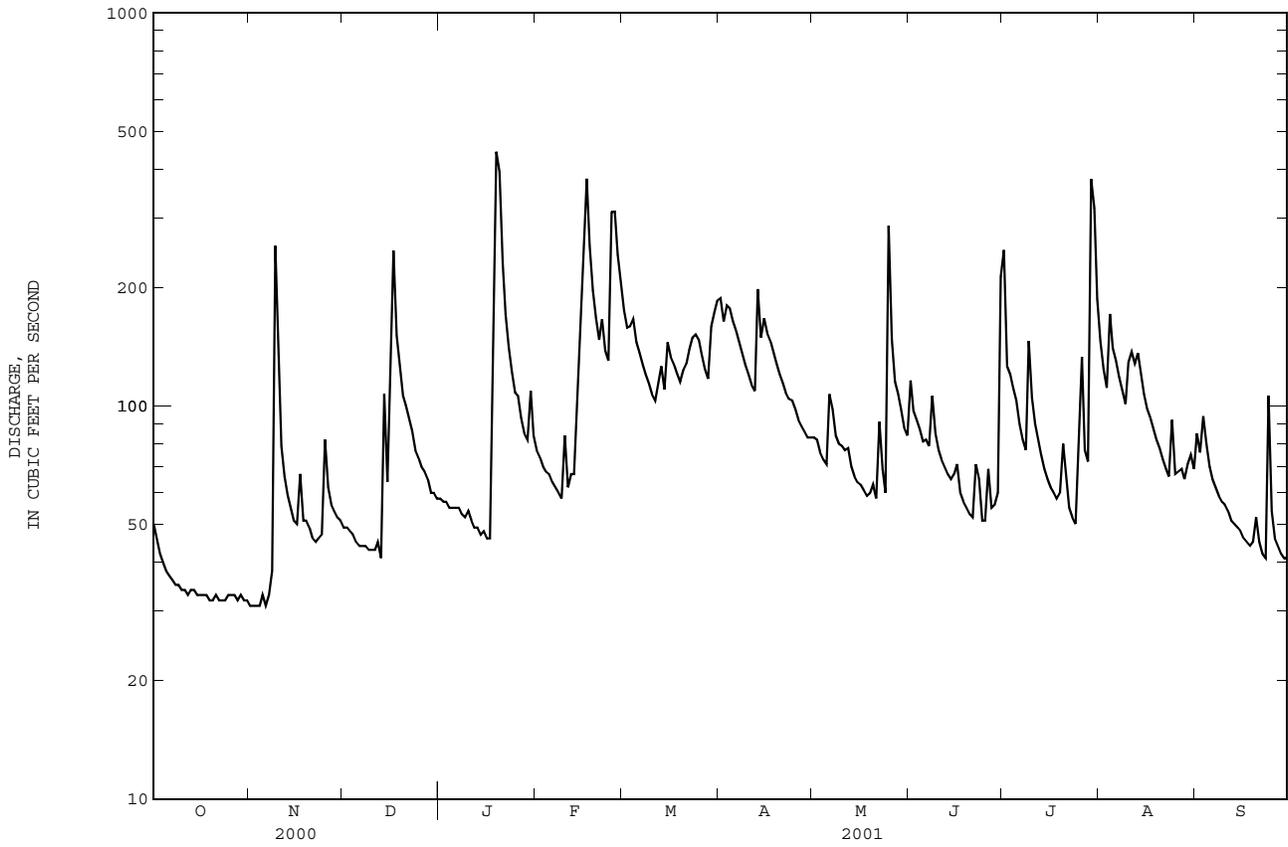
	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1934 - 2001 <sup>®</sup>	
ANNUAL TOTAL	30470		33639			
ANNUAL MEAN	83.3		92.2		111	
HIGHEST ANNUAL MEAN					171	
LOWEST ANNUAL MEAN					51.5	
HIGHEST DAILY MEAN	806	Apr 4	443	Jan 19	2690	Mar 16 1973
LOWEST DAILY MEAN	24	Sep 18	31	Nov 1	12	Jan 2 1940
ANNUAL SEVEN-DAY MINIMUM	25	Sep 14	31	Oct 31	18	Oct 21 1998
MAXIMUM PEAK FLOW			807	Jul 29	5080	Mar 6 1963
MAXIMUM PEAK STAGE			4.28	Jul 29	8.08	Mar 6 1963
INSTANTANEOUS LOW FLOW			30*	Jan 10	9.4*	Jan 2 1940
ANNUAL RUNOFF (CFSM)	1.69		1.87		2.26	
ANNUAL RUNOFF (INCHES)	23.04		25.43		30.68	
10 PERCENT EXCEEDS	151		158		204	
50 PERCENT EXCEEDS	62		74		81	
90 PERCENT EXCEEDS	33		41		34	

e Estimated.

<sup>®</sup> See PERIOD OF RECORD.

\* See REMARKS.

03460000 CATALOOCHEE CREEK NEAR CATALOOCHEE, NC--Continued



TENNESSEE RIVER BASIN

03460000 CATALOOCHEE CREEK NEAR CATALOOCHEE, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963 to 1996, May 1999 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1973 to September 1986.

WATER TEMPERATURE: October 1962 to September 1986.

INSTRUMENTATION.--Temperature recorder from October 1962 to September 1986. water-quality monitor from May 1974 to September 1986.

REMARKS.--Station operated as part of the Hydrologic Benchmark network from October 1962 to current year. Miscellaneous chemical data published for 1945 water year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 43 microsiemens, June 13, 1974; minimum, 7 microsiemens, Feb. 28, 1983.

WATER TEMPERATURE: Maximum, 23.5°C, Aug. 5, 1977; minimum, 0.0°C, on several days during winter months of most years.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	PH WATER WHOLE LAB (STANDARD UNITS) (00403)	SPECIFIC CONDUCTANCE LAB (US/CM) (90095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM DIS-SOLVED (MG/L AS MG) (00925)	POTASSIUM DIS-SOLVED (MG/L AS K) (00935)	SODIUM DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET LAB (MG/L AS CACO3) (00417)	CHLORIDE DIS-SOLVED (MG/L AS CL) (00940)	SILICON DIS-SOLVED (UG/L AS SI) (01140)
NOV 28...	1145	53	6.8	14	5.0	3.5	.96	.315	.48	1.1	9	.4	3600
JAN 17...	1030	45	6.8	13	1.5	2.0	.95	.297	.48	1.1	8	.5	3500
MAR 26...	1205	134	6.7	13	3.0	2.0	.85	.286	.50	1.0	6	.4	3300
MAY 21...	1040	58	6.6	14	19.5	14.5	1.03	.328	.64	1.2	9	.4	3900
JUL 17...	1255	61	6.7	14	19.0	17.0	1.00	.301	.56	1.1	10	.4	3700

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106)	ALUMINUM MONOMERIC WATER UNFLTRD (UG/L) (49288)	ALUMINUM MONOMERIC WATER UNFLTRD (UG/L) (49287)
NOV 28...	1.2	<.028	.111	1.3	<27	<40	<40
JAN 17...	1.1	<.028	.157	1.1	<27	<40	<40
MAR 26...	1.4	<.028	.126	1.2	<27	<40	<40
MAY 21...	1.0	--	.157	1.1	<27	<40	<40
JUL 17...	1.0	<.028	.119	.97	<27	<40	<40



Gaging station at Abbotts Creek at Lexington, North Carolina.

## TENNESSEE RIVER BASIN

03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC

LOCATION.--Lat 35°47'02", long 83°06'44", Cocke County Tennessee, Hydrologic Unit 06010105, on left bank, 550 ft upstream of Browns Bridge on Waterville Road, 0.9 mi downstream of North Carolina and Tennessee state lines, 1.0 mi northwest of Waterville, and at mile 25.

DRAINAGE AREA.--538 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,360 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Considerable regulation, caused by Walters Hydroelectric Plant, 1.0 mi upstream. Minimum discharge for period of record and current water year affected by regulation. Minimum discharge for current water year also occurred Nov. 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185	142	472	e414	817	1390	2210	640	659	870	1820	667
2	164	322	446	e395	730	1250	1980	708	1080	1110	828	331
3	154	227	436	e368	691	1190	1810	855	260	804	312	298
4	174	174	428	e360	683	1370	1950	497	476	722	961	795
5	236	188	432	e360	658	1310	1750	536	911	1720	615	565
6	186	209	407	e368	635	1170	1660	574	625	500	427	445
7	217	176	390	e377	594	1100	1540	766	940	677	1420	274
8	255	293	373	440	571	1000	1410	963	1230	478	506	185
9	308	1130	360	436	587	1010	1300	273	1050	1260	738	168
10	294	2410	350	e364	747	956	1170	285	800	974	202	840
11	208	1460	348	e339	672	907	1100	512	1080	526	905	251
12	168	397	347	398	604	888	992	847	599	722	930	763
13	147	1470	343	473	618	1200	1540	437	505	170	1020	248
14	146	734	575	418	887	1120	1560	446	532	733	1050	488
15	140	825	806	434	1090	1270	1380	798	212	228	628	184
16	330	115	757	474	1400	1500	1390	440	750	495	507	146
17	158	89	2340	439	2940	1360	1240	703	438	598	648	140
18	214	77	1550	515	2140	1220	1210	403	594	193	637	163
19	222	74	1300	3060	1630	1110	1150	640	669	539	231	390
20	192	314	1050	4240	1350	1210	1090	479	215	187	480	305
21	184	569	820	2430	1220	1650	1030	460	686	565	572	169
22	184	481	736	1800	1450	1930	981	864	189	174	562	542
23	228	412	643	1300	1530	2180	937	501	538	288	828	359
24	186	378	e628	1130	1280	1970	907	760	161	661	e430	763
25	154	509	e596	1000	1670	1770	903	1260	164	290	e580	1210
26	262	1090	565	842	2440	1590	776	1220	657	1060	e540	942
27	294	750	547	855	1830	1380	665	766	233	968	e850	182
28	312	634	538	796	1580	1250	693	702	660	723	e650	171
29	173	561	506	740	---	1280	775	988	291	1630	294	170
30	210	507	476	895	---	2590	636	591	594	1390	512	178
31	149	---	e443	972	---	2290	---	1030	---	1430	216	---
TOTAL	6434	16717	20008	27432	33044	43411	37735	20944	17798	22685	20899	12332
MEAN	208	557	645	885	1180	1400	1258	676	593	732	674	411
MAX	330	2410	2340	4240	2940	2590	2210	1260	1230	1720	1820	1210
MIN	140	74	343	339	571	888	636	273	161	170	202	140
†	+17	+8	0	+2	+3	+3	+8	+17	+4	-25	-18	+30
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)												
MEAN	306	511	623	1300	1676	1904	1679	1130	864	713	458	316
MAX	540	609	645	2187	3096	3505	2540	1488	1432	1036	674	476
(WY)	1998	1998	2001	1998	1998	1997	1998	1997	1997	1999	2001	1997
MIN	153	334	600	810	1039	1120	1049	676	558	479	342	176
(WY)	1999	1999	1999	2000	2000	2000	1999	2001	2000	1998	1998	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1997 - 2001
ANNUAL TOTAL	272271	279439	
ANNUAL MEAN	744	766	†770 (UNADJUSTED)
HIGHEST ANNUAL MEAN			1246 1998
LOWEST ANNUAL MEAN			750 2000
HIGHEST DAILY MEAN	5650	Apr 4	4240 Jan 20 10800 Jan 8 1998
LOWEST DAILY MEAN	74	Nov 19	74 Nov 19 2000
ANNUAL SEVEN-DAY MINIMUM	185	Oct 11	185 Oct 11 117 Oct 2 1998
MAXIMUM PEAK FLOW			7690 Jan 20 18400 Jan 8 1998
MAXIMUM PEAK STAGE			9.95 Jan 20 13.42 Jan 8 1998
INSTANTANEOUS LOW FLOW			72* Nov 19 25* Aug 25 1997
10 PERCENT EXCEEDS	1570	1480	2130
50 PERCENT EXCEEDS	565	634	706
90 PERCENT EXCEEDS	182	186	163

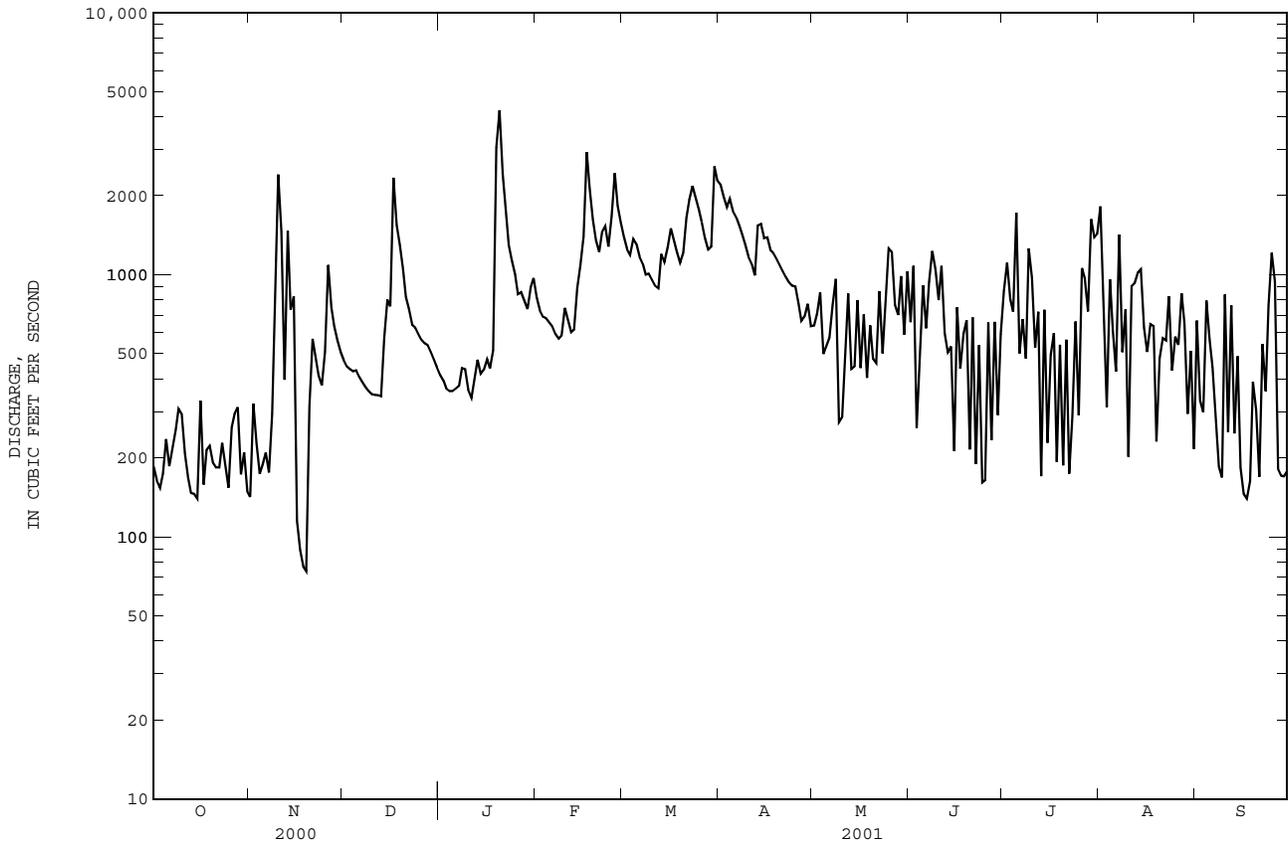
e Estimated.

† Change in contents, equivalent in cubic feet per second, in Walters Reservoir, provided by Carolina Power and Light Company.

‡ Adjusted for change in contents.

\* See REMARKS.

03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC--Continued







## TENNESSEE RIVER BASIN

03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC--Continued

OXYGEN DISSOLVED (MG/L), MAY TO SEPTEMBER 2001

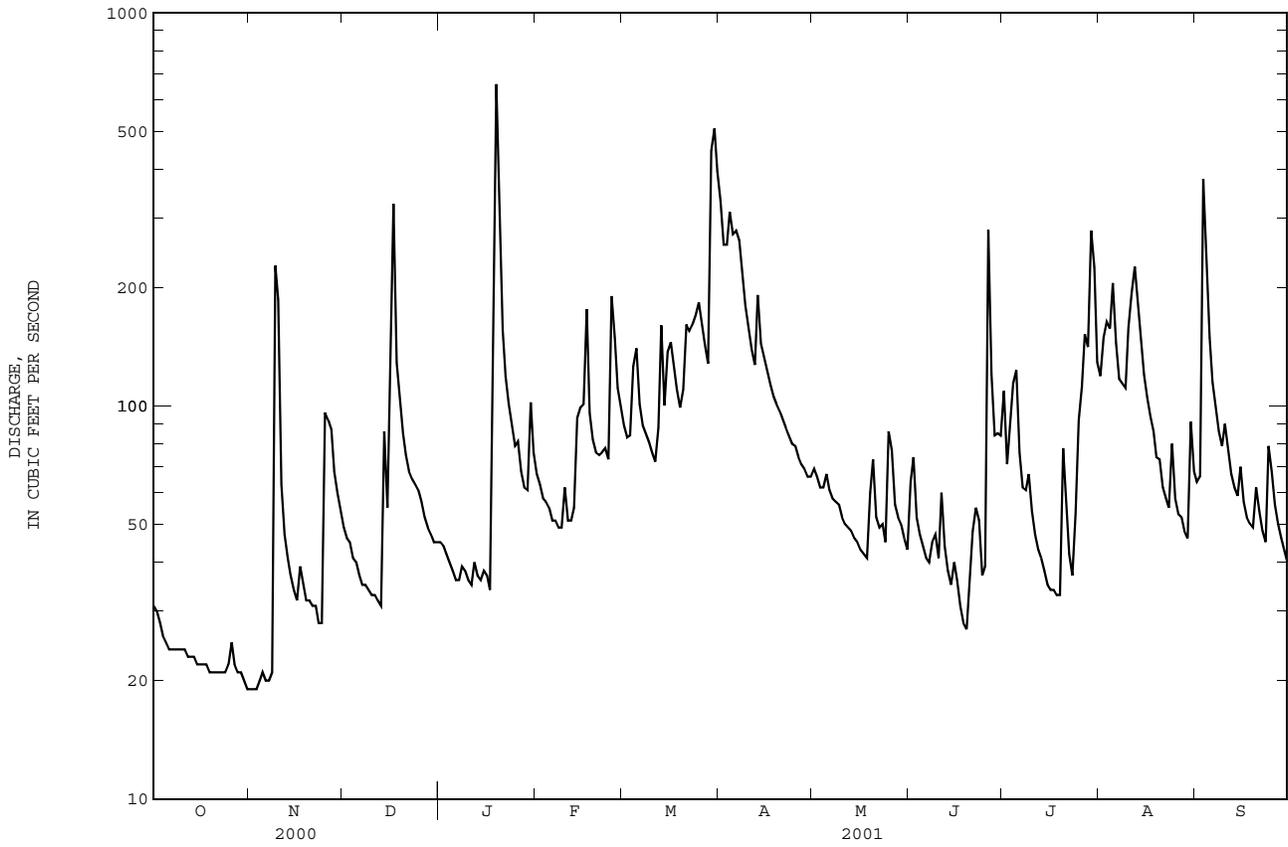
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	10.3	9.3	9.7	9.2	8.2	8.6	6.8	5.9	6.2	7.4	6.0	6.7
2	11.8	9.0	9.5	9.0	7.4	8.4	8.1	6.2	7.1	7.9	7.2	7.5
3	10.2	8.8	9.7	---	---	---	8.1	6.6	7.6	7.8	7.2	7.4
4	9.9	9.3	9.6	---	---	---	8.3	7.0	7.6	8.0	5.9	7.0
5	10.0	9.5	9.8	---	---	---	9.0	8.3	8.6	8.8	6.0	7.5
6	10.3	9.6	9.9	---	---	---	9.3	8.8	9.0	8.8	6.3	7.6
7	10.2	9.8	9.9	8.3	6.8	7.6	9.2	6.8	8.0	8.3	7.2	7.6
8	10.3	9.7	10.0	8.4	7.4	7.8	9.2	6.8	8.4	8.4	7.4	7.8
9	10.6	10.0	10.2	8.5	7.2	7.6	9.1	7.1	8.1	8.5	7.5	7.9
10	10.9	10.2	10.4	8.9	7.3	8.1	8.9	7.8	8.2	8.9	6.2	7.3
11	10.9	9.8	10.4	9.2	7.3	8.5	8.0	6.9	7.4	8.0	6.9	7.4
12	11.4	9.7	10.3	9.4	7.3	8.3	8.4	6.9	7.5	8.3	5.8	6.9
13	11.7	9.5	10.3	9.2	7.7	8.8	8.4	6.7	7.7	8.2	6.0	7.3
14	12.0	9.6	10.7	9.4	7.0	8.2	9.0	6.4	7.7	8.1	6.6	7.3
15	10.4	8.1	8.9	8.7	7.4	8.2	9.2	6.7	8.1	8.4	7.4	7.8
16	9.0	7.6	8.4	8.7	6.4	7.9	9.4	7.0	8.4	8.7	7.5	8.0
17	9.2	7.4	8.6	8.2	6.4	7.2	9.3	7.2	8.2	8.8	7.6	8.0
18	9.4	7.5	8.6	8.4	6.4	7.6	8.9	6.8	7.9	8.7	7.2	7.8
19	9.4	7.8	8.4	8.0	6.4	7.3	8.8	7.6	8.3	7.9	6.9	7.4
20	9.6	8.1	8.8	8.2	7.3	7.6	9.0	7.1	8.1	8.5	6.7	7.7
21	9.3	7.8	8.3	8.2	6.4	7.2	9.1	7.0	8.0	8.5	7.5	7.9
22	9.4	7.9	8.6	8.2	6.8	7.5	8.5	7.2	8.0	8.9	6.7	7.7
23	9.5	7.9	8.6	8.3	6.1	7.3	9.3	6.7	7.8	8.6	6.8	7.6
24	9.9	8.4	9.1	7.8	5.9	6.8	---	---	---	7.6	7.0	7.3
25	10.1	8.2	9.1	7.9	6.3	7.1	---	---	---	7.9	6.9	7.2
26	9.6	6.9	8.4	7.5	5.8	6.8	---	---	---	8.1	6.9	7.5
27	8.7	7.7	8.2	6.7	5.5	6.0	---	---	---	9.2	7.2	8.2
28	8.1	7.3	7.9	7.7	5.2	6.3	---	---	---	9.0	8.1	8.3
29	8.5	7.9	8.1	7.7	6.1	6.9	7.5	5.8	6.7	9.0	8.2	8.4
30	9.1	7.5	8.5	8.6	6.3	7.5	7.2	5.6	6.5	9.1	8.2	8.5
31	---	---	---	8.0	5.9	6.9	7.4	6.2	6.9	---	---	---
MONTH	12.0	6.9	9.2	---	---	---	---	---	---	9.2	5.8	7.6



Gaging station at Watauga River near Sugar Grove, North Carolina.

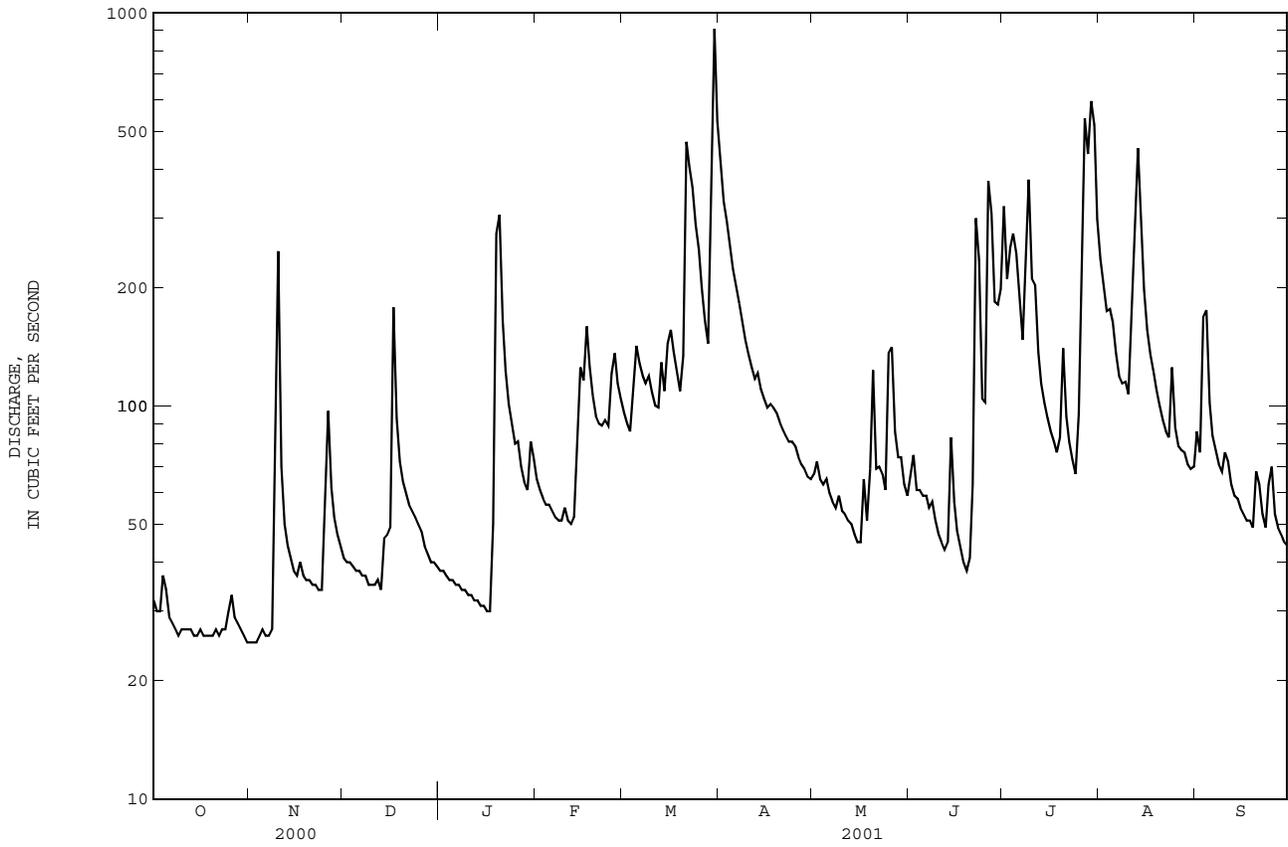


03463300 SOUTH TOE RIVER NEAR CELO, NC--Continued





03479000 WATAUGA RIVER NEAR SUGAR GROVE, NC--Continued



## TENNESSEE RIVER BASIN

0349998425 LITTLE TENNESSEE RIVER AT RIVERSIDE, NC

LOCATION.--Lat 35°05'26", long 83°22'50", Macon County, Hydrologic Unit 06010202, at bridge on Secondary Road 1644, 6 mi south of Franklin.

DRAINAGE AREA.--120 mi<sup>2</sup>

PERIOD OF RECORD.--June 2000 to current year.

REMARKS.--Samples collected for the Upper Little Tennessee Sediment Study.

## WATER-QUALITY DATA, FOR PERIOD JUNE 2000 TO SEPTEMBER 2001

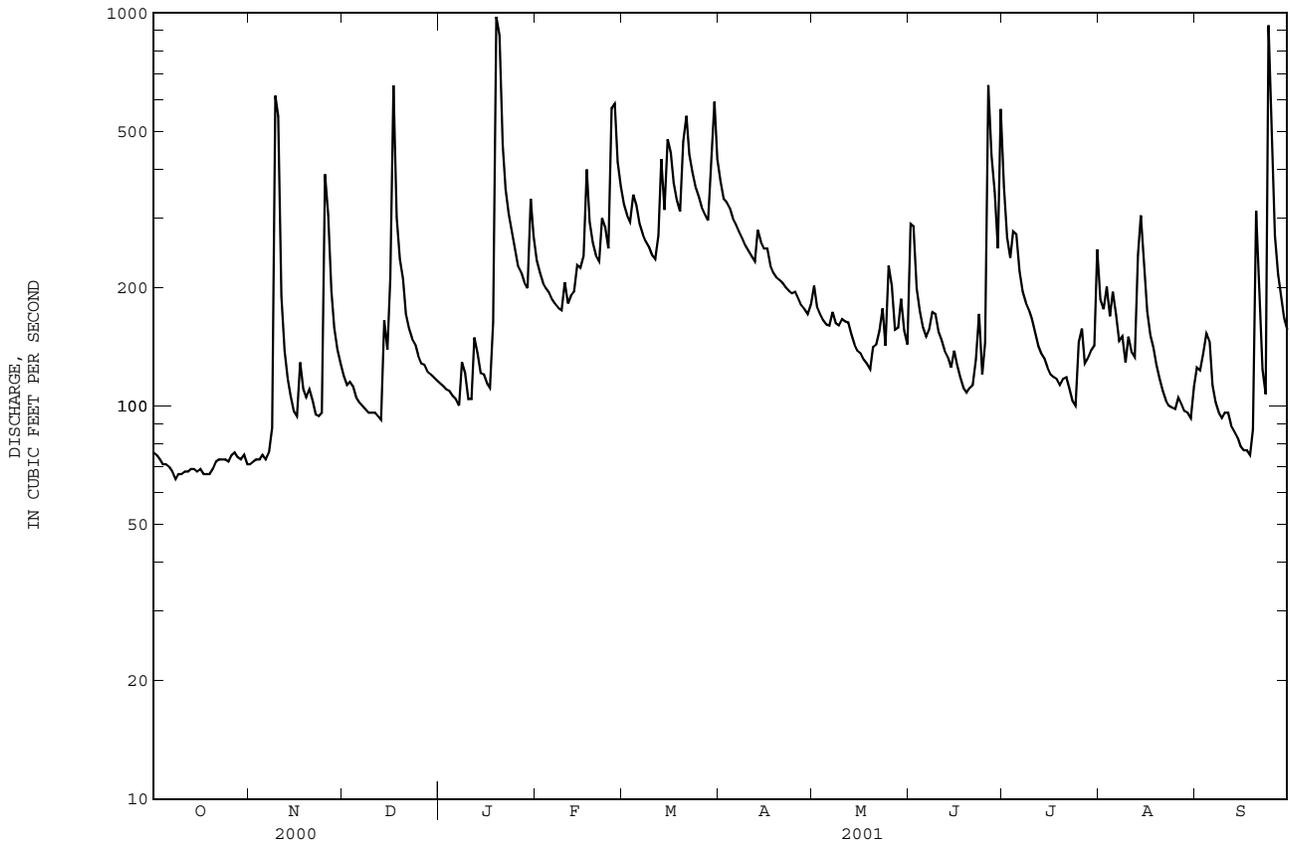
DATE	TIME	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
JUN 2000			
21...	1440		A17
NOV			
14...	1215	--	A4
14...	1230	--	4
21...	1200	--	5
27...	0925	--	8
DEC			
05...	1200	--	5
12...	1050	--	4
19...	1130	--	13
26...	1100	--	5
JAN 2001			
02...	1100	--	7
09...	1306	--	5
16...	1100	--	4
23...	1100	--	13
30...	1115	--	72
FEB			
06...	1030	--	3
13...	1100	--	4
20...	1200	--	7
26...	1100	--	A97
27...	1245	--	32
MAR			
06...	1000	--	10
13...	1000	--	56
20...	1000	--	24
27...	1000	--	9
APR			
03...	1000	--	12
10...	1000	--	11
17...	1100	--	12
24...	1000	70	11
MAY			
01...	1000	--	13
02...	1025	--	10
02...	1110	--	A8
08...	1000	81	8
15...	1100	--	7
22...	0900	85	24
29...	1100	--	26
JUN			
05...	1100	--	18
12...	1100	--	13
19...	1200	--	9
26...	1200	--	554
JUL			
03...	1100	--	26
10...	1100	--	12
17...	1100	--	11
24...	1100	--	17
31...	1100	--	497
AUG			
07...	1100	--	23
14...	1100	--	79
21...	1100	--	7
28...	1100	--	7
SEP			
04...	1100	--	12
11...	1200	--	5
18...	1200	--	4
25...	1200	--	67
26...	1055	85	19



Bridal Veil Falls near Highlands, North Carolina.



03500000 LITTLE TENNESSEE RIVER NEAR PRENTISS, NC--Continued



## TENNESSEE RIVER BASIN

03500240 CARTOOGECAYE CREEK NEAR FRANKLIN, NC

LOCATION.--Lat 35°09'31", long 83°23'40", Macon County, Hydrologic Unit 06010202, on downstream side of center pier of bridge on Secondary Road 1152, 0.1 mi downstream of unnamed creek, 1.8 mi south of Franklin, and 1.9 mi upstream from mouth.

DRAINAGE AREA.--57.1 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1944, 1947, 1953-55, 1958, 1960. June 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,017.18 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Oct. 8, 1986. Minimum discharge for current water year also occurred Oct. 9, 16, 17.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1949 reached a stage of 15.6 ft, from studies by Tennessee Valley Authority; discharge, about 7,000 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	37	42	e36	71	136	158	77	122	104	64	47
2	23	37	39	e35	67	122	138	68	91	80	49	50
3	23	36	41	e34	63	126	136	63	67	85	59	50
4	23	36	40	e34	61	168	128	60	59	68	57	60
5	22	41	37	e34	59	134	118	59	54	67	53	50
6	23	38	36	e34	57	119	113	59	56	58	47	41
7	23	48	35	e36	55	111	108	57	63	53	44	38
8	22	49	35	45	53	103	102	56	81	53	40	37
9	22	355	34	39	53	97	98	57	68	58	41	36
10	22	161	34	e36	79	91	93	66	58	50	55	36
11	23	59	34	e36	60	86	89	67	54	46	77	35
12	22	45	36	59	67	120	85	60	48	44	67	35
13	22	40	34	47	72	151	168	54	48	43	69	34
14	22	37	115	43	98	113	126	51	44	41	77	35
15	22	35	64	43	102	210	125	49	43	40	49	33
16	22	35	129	42	132	174	114	47	41	40	46	32
17	22	55	264	41	288	145	103	46	40	38	43	33
18	22	40	126	104	175	127	97	44	39	38	42	32
19	22	40	95	781	134	115	92	43	36	37	40	38
20	23	41	e75	551	113	170	89	46	41	39	39	138
21	24	38	e62	249	105	194	85	46	43	40	36	54
22	24	35	e55	164	156	164	82	53	48	37	35	42
23	25	35	e48	125	127	150	79	49	46	36	35	39
24	25	36	e48	105	110	139	77	46	39	33	35	233
25	27	178	46	90	284	129	76	97	41	44	35	85
26	29	99	44	80	276	117	72	58	272	51	35	59
27	31	64	44	75	198	109	69	47	96	40	34	51
28	29	53	46	68	161	104	66	57	71	37	34	46
29	31	47	43	66	---	190	65	65	61	121	36	43
30	35	44	e40	119	---	213	76	51	158	74	37	41
31	37	---	e38	82	---	172	---	48	---	47	39	---
TOTAL	766	1894	1859	3333	3276	4299	3027	1746	2028	1642	1449	1583
MEAN	24.7	63.1	60.0	108	117	139	101	56.3	67.6	53.0	46.7	52.8
MAX	37	355	264	781	288	213	168	97	272	121	77	233
MIN	22	35	34	34	53	86	65	43	36	33	34	32
CFSM	.43	1.11	1.05	1.88	2.05	2.43	1.77	.99	1.18	.93	.82	.92
IN.	.50	1.23	1.21	2.17	2.13	2.80	1.97	1.14	1.32	1.07	.94	1.03

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2001, BY WATER YEAR (WY)

	MEAN	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	83.8	107	148	192	223	244	204	154	119	86.2	81.5	71.0
MAX	295	266	317	336	460	440	375	339	259	195	185	161
(WY)	1965	1993	1962	1996	1990	1980	1964	1976	1989	1989	1994	1989
MIN	24.7	41.5	52.2	55.2	102	84.7	72.9	56.3	42.3	32.7	28.7	25.6
(WY)	2001	1979	1966	1981	1986	1988	1986	2001	1988	2000	2000	1999

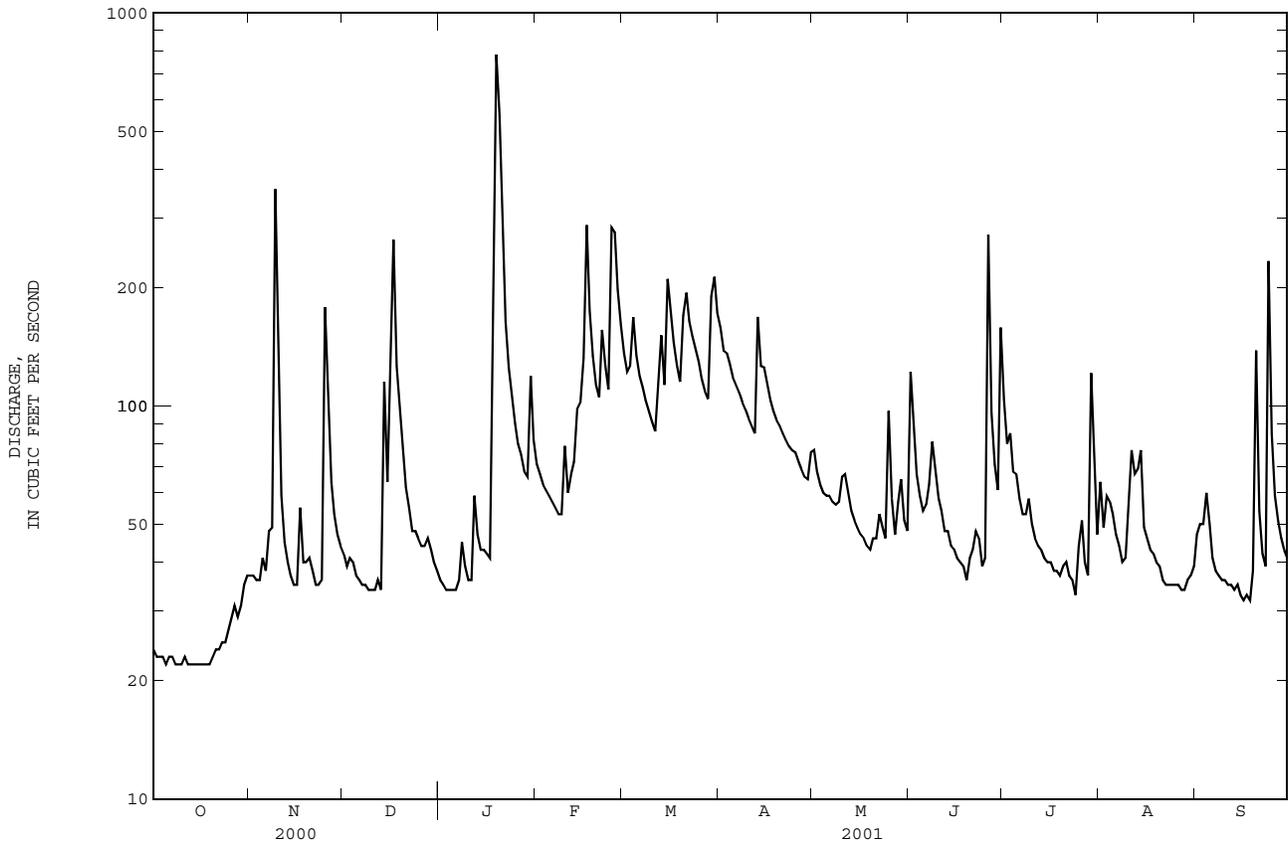
## SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1961 - 2001

ANNUAL TOTAL	28789	26902	
ANNUAL MEAN	78.7	73.7	142
HIGHEST ANNUAL MEAN			204
LOWEST ANNUAL MEAN			69.9
HIGHEST DAILY MEAN	987	Apr 4	2710
LOWEST DAILY MEAN	18	Sep 16	18
ANNUAL SEVEN-DAY MINIMUM	19	Sep 14	19
MAXIMUM PEAK FLOW			1230
MAXIMUM PEAK STAGE			6.94
INSTANTANEOUS LOW FLOW			21*
ANNUAL RUNOFF (CFSM)	1.38	1.29	2.49
ANNUAL RUNOFF (INCHES)	18.76	17.53	33.83
10 PERCENT EXCEEDS	156	136	260
50 PERCENT EXCEEDS	48	51	106
90 PERCENT EXCEEDS	23	34	47

e Estimated.

\* See REMARKS.

03500240 CARTOOGECHAYE CREEK NEAR FRANKLIN, NC--Continued



## TENNESSEE RIVER BASIN

03500240 CARTOOGECHAYE CREEK NEAR FRANKLIN, NC--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 2000 to current year.

REMARKS.--Samples collected for the Upper Little Tennessee Sediment Study. Samples are collected in the City Park from the pedestrian bridge about 0.3 mi downstream of the gage.

## WATER-QUALITY DATA, FOR PERIOD JUNE 2000 SEPTEMBER 2001

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
JUN 2000				
21...	1240	54	--	A14
NOV				
14...	1105	36	--	A3
14...	1110	36	--	2
21...	1100	37	--	7
27...	0830	65	--	4
DEC				
05...	1100	36	--	2
12...	1115	36	--	2
19...	1100	96	--	4
26...	1000	42	--	M
JAN 2001				
02...	1200	32	--	3
09...	1330	36	--	3
16...	1130	39	--	4
23...	1200	124	--	7
30...	1145	141	--	25
FEB				
06...	1100	55	--	4
13...	1145	67	--	3
20...	1100	114	--	3
26...	1020	284	--	A23
27...	1145	199	--	12
MAR				
06...	1100	118	--	3
13...	1100	140	--	12
20...	1100	140	--	10
27...	1100	109	--	3
APR				
03...	1100	129	--	6
10...	1100	92	--	6
17...	1200	102	--	5
24...	1100	76	75	8
MAY				
01...	1100	72	--	8
02...	1135	67	--	7
02...	1200	67	--	A5
08...	1100	55	64	6
15...	1100	49	--	6
22...	1000	48	81	8
29...	1200	67	--	10
JUN				
05...	1200	53	--	7
12...	1200	47	--	6
19...	1300	37	--	2
26...	1300	641	--	933
JUL				
03...	1200	71	--	14
10...	1200	50	--	6
17...	1200	38	--	4
24...	1200	33	--	5
31...	1200	45	--	8
AUG				
07...	1200	42	--	5
14...	1200	70	--	27
21...	1200	37	--	2
28...	1200	34	--	3
SEP				
04...	1200	52	--	4
11...	1300	36	--	2
18...	1300	32	--	2
25...	1300	80	--	20
26...	1151	--	100	2

TENNESSEE RIVER BASIN

607

0350116510 CULLASAJA RIVER AT SECONDARY ROAD 1653 NEAR FRANKLIN, NC

LOCATION.--Lat 35°09'52", long 83°21'37", Macon County, Hydrologic Unit 06010202, at bridge on Secondary Road 1653, 1.8 mi southeast of Franklin.

DRAINAGE AREA.--91.1 mi<sup>2</sup>

PERIOD OF RECORD.--June 2000 to current year.

REMARKS.--Samples collected for the Upper Little Tennessee Sediment Study.

WATER-QUALITY DATA, FOR PERIOD JUNE 2000 TO SEPTEMBER 2001

DATE	TIME	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
JUN 2000			
21	1540		17
NOV			
14...	1404	--	3
14...	1420	--	A4
21...	1315	--	25
27...	1400	--	4
DEC			
05...	1345	--	2
12...	1220	--	M
19...	1200	--	5
26...	1200	--	M
JAN 2001			
02...	1215	--	6
09...	1410	--	6
23...	1300	--	5
30...	1230	--	16
FEB			
06...	1130	--	4
13...	1245	--	M
20...	1245	--	4
26...	1145	--	A19
27...	1345	--	12
MAR			
06...	1200	--	3
13...	1200	--	7
20...	1200	--	6
27...	1200	--	4
APR			
03...	1200	--	3
10...	1200	--	19
17...	1230	--	3
24...	1200	71	6
MAY			
01...	1200	--	6
02...	1335	--	3
02...	1350	--	A3
08...	1000	70	5
15...	1000	--	3
22...	1100	60	9
29...	1300	--	12
JUN			
05...	1300	--	8
12...	1300	--	9
19...	1400	--	5
26...	1400	--	75
JUL			
03...	1300	--	19
10...	1300	--	7
17...	1300	--	3
24...	1300	--	2
31...	1300	--	9
AUG			
07...	1300	--	9
14...	1300	--	38
21...	1300	--	4
28...	1300	--	2
SEP			
04...	1300	--	9
11...	1400	--	8
18...	1400	--	1
25...	1400	--	21
26...	1351	100	3

## TENNESSEE RIVER BASIN

0350156375 LAKE EMORY AT DAM NEAR FRANKLIN, NC

LOCATION.--Lat 35°13'09", long 83°22'16", Macon County, Hydrologic Unit 06010202, at the Lake Emory dam, 2.5 mi north-northeast of Franklin.

DRAINAGE AREA.--310 mi<sup>2</sup>

PERIOD OF RECORD.--June 2000 to current year.

REMARKS.--Samples collected for the Upper Little Tennessee Sediment Study.

## WATER-QUALITY DATA, FOR PERIOD JUNE 2000 TO SEPTEMBER 2001

DATE	TIME	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
JUN 2000			
21	1015		A24
21	1030		24
NOV			
14...	1525	--	8
21...	1415	--	5
27...	1100	--	6
DEC			
05...	1300	--	2
12...	1320	--	15
19...	1200	--	6
26...	1300	--	3
JAN 2001			
02...	1300	--	3
09...	1500	--	4
16...	1230	--	3
23...	1430	--	4
30...	1400	--	7
FEB			
06...	1300	--	2
13...	1300	--	6
20...	1300	--	6
26...	1235	--	A20
27...	1440	--	12
MAR			
06...	1300	--	5
13...	1300	--	16
20...	1300	--	7
27...	1300	--	6
APR			
03...	1300	--	6
10...	1200	--	8
17...	1300	--	20
24...	1300	93	8
MAY			
01...	1300	--	43
02...	1420	--	5
08...	1300	93	9
15...	1300	--	17
22...	1200	77	35
29...	1400	--	17
JUN			
05...	1400	--	9
12...	1400	--	12
19...	1500	--	10
26...	1500	--	46
JUL			
03...	1400	--	15
10...	1400	--	14
17...	1400	--	20
24...	1400	--	23
31...	1020	--	10
31...	1400	--	27
AUG			
07...	1400	--	60
14...	1400	--	49
21...	1400	--	24
28...	1400	--	18
SEP			
04...	1400	--	19
11...	1500	--	68
18...	1500	--	16
25...	1500	--	25
26...	1325	100	9



Gaging station at Cataloochee Creek near Cataloochee, North Carolina.

## TENNESSEE RIVER BASIN

03503000 LITTLE TENNESSEE RIVER AT NEEDMORE, NC

LOCATION.--Lat 35°20'11", long 83°31'37", Swain County, Hydrologic Unit 06010202, on left bank on Secondary Road 1113, 0.8 mi downstream of DeHart Creek, 0.8 mi north of Needmore, 2.4 mi downstream of Brush Creek, 6.3 mi downstream of Tellico Creek, and at mile 92.9.

DRAINAGE AREA.--436 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1943 to December 1981, October 1983 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 1,761.19 ft above sea level (levels by Tennessee Valley Authority). Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Considerable diurnal fluctuation caused by Porters Bend power plant at Lake Emory, 20 mi upstream. Minimum discharge for period of record also occurred Nov. 8, 1954. Minimum discharge for current water year also occurred Oct. 12, 20.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of October 1898 and Aug. 30, 1940, reached stages of about 13 and 11.5 ft, respectively, from flood profiles by Tennessee Valley Authority.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	206	192	395	e374	592	876	1060	581	555	1050	676	397
2	208	193	400	e369	551	808	949	524	810	725	478	438
3	223	193	377	e364	525	784	926	518	539	627	491	429
4	222	194	380	e355	508	886	924	512	482	723	525	462
5	219	195	357	e350	497	858	855	462	435	647	480	465
6	218	219	339	e345	481	777	832	507	439	590	492	376
7	214	204	321	e340	471	732	801	427	448	498	415	331
8	202	236	350	372	455	700	775	476	511	490	567	314
9	202	1080	311	417	455	674	747	468	535	475	475	296
10	202	2100	321	e354	524	652	729	482	451	450	425	294
11	159	618	323	e340	514	628	701	449	452	432	513	325
12	155	448	315	401	504	636	692	508	424	400	455	328
13	169	386	319	477	527	987	788	453	379	377	550	281
14	196	362	502	399	622	803	854	394	358	359	826	279
15	196	334	533	393	642	1120	759	395	347	351	603	268
16	197	335	546	386	668	1290	777	401	362	338	486	254
17	189	372	1620	371	1250	1050	727	387	325	327	413	249
18	184	372	944	453	967	935	696	378	316	321	424	251
19	192	359	722	2560	785	872	666	379	293	324	384	255
20	194	352	625	3020	710	959	615	378	277	331	369	605
21	200	335	541	1340	677	1430	638	379	339	362	340	637
22	194	321	501	944	806	1140	598	405	342	321	315	397
23	195	312	e467	796	849	1060	591	475	528	303	310	341
24	196	312	e440	714	733	984	589	414	315	323	295	1750
25	197	790	e430	653	1200	943	563	555	332	318	283	1330
26	213	1040	e424	595	1800	889	559	607	1050	484	317	640
27	207	615	420	566	1170	847	525	429	1190	367	318	509
28	200	507	421	542	973	819	521	427	803	351	303	446
29	201	448	416	523	---	900	516	526	622	723	304	395
30	192	421	396	692	---	1730	516	462	1350	698	329	370
31	192	---	e384	694	---	1200	---	429	---	548	331	---
TOTAL	6134	13845	14840	20499	20456	28969	21489	14187	15609	14633	13492	13712
MEAN	198	462	479	661	731	934	716	458	520	472	435	457
MAX	223	2100	1620	3020	1800	1730	1060	607	1350	1050	826	1750
MIN	155	192	311	340	455	628	516	378	277	303	283	249
CFSM	.45	1.06	1.10	1.52	1.68	2.14	1.64	1.05	1.19	1.08	1.00	1.05
IN.	.52	1.18	1.27	1.75	1.75	2.47	1.83	1.21	1.33	1.25	1.15	1.17

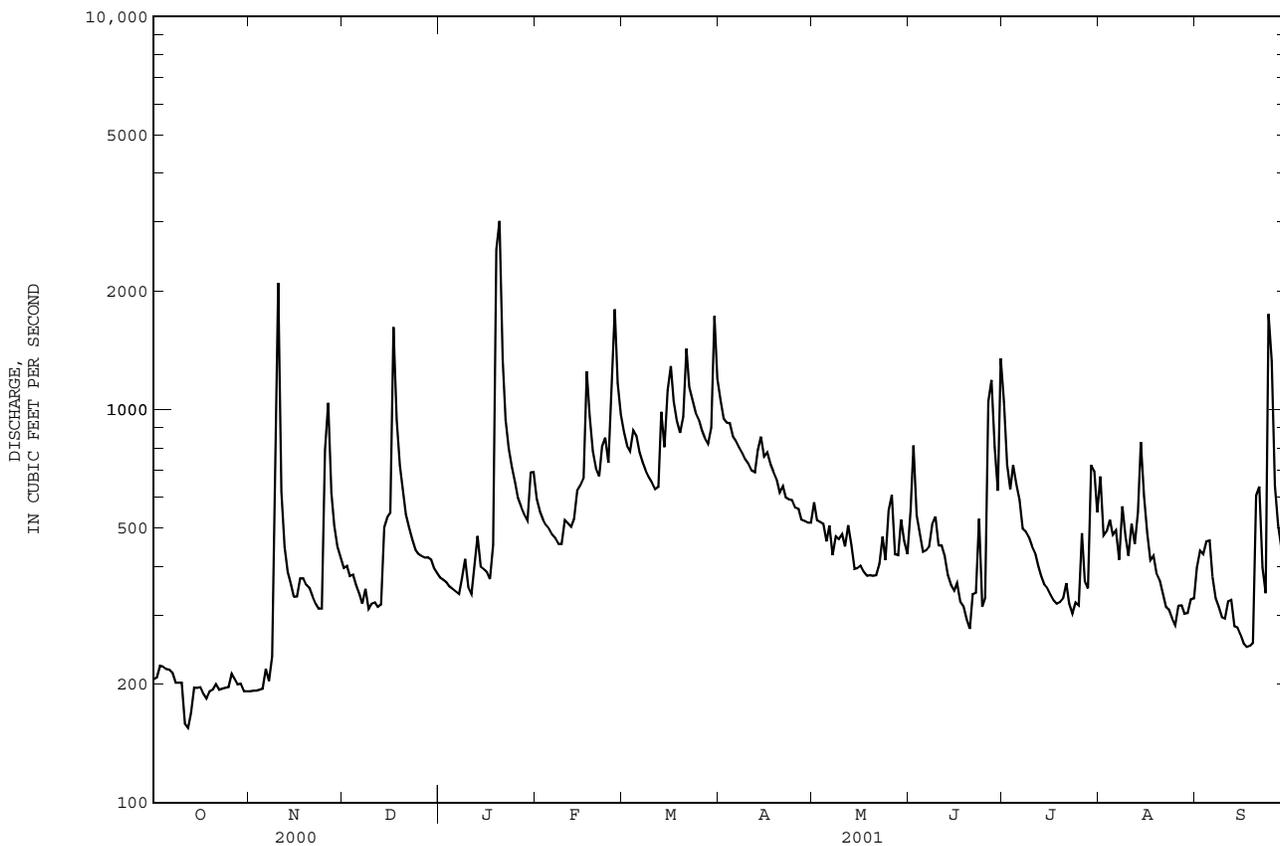
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2001,<sup>®</sup> BY WATER YEAR (WY)

MEAN	643	797	1035	1361	1580	1737	1532	1167	920	691	638	572
MAX	2557	2169	2231	2570	3718	3372	2746	2573	2061	2136	1670	1605
(WY)	1965	1980	1962	1946	1990	1990	1964	1976	1949	1989	1967	1950
MIN	192	282	368	349	660	596	553	458	351	238	213	201
(WY)	1955	1955	1966	1981	1986	1988	1986	2001	1988	1986	1986	1999

03503000 LITTLE TENNESSEE RIVER AT NEEDMORE, NC--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1944 - 2001 <sup>®</sup>	
ANNUAL TOTAL	206125		197865		1056	
ANNUAL MEAN	563		542		1565	
HIGHEST ANNUAL MEAN					1973	
LOWEST ANNUAL MEAN					1986	
HIGHEST DAILY MEAN	5680	Apr 4	3020	Jan 20	17200	Oct 5 1964
LOWEST DAILY MEAN	140	Sep 20	155	Oct 12	71	Nov 7 1954
ANNUAL SEVEN-DAY MINIMUM	148	Sep 14	180	Oct 11	142	Oct 2 1986
MAXIMUM PEAK FLOW			4960	Jan 19	22100	Oct 5 1964
MAXIMUM PEAK STAGE			5.61	Jan 19	12.87	Oct 5 1964
INSTANTANEOUS LOW FLOW			154*	Oct 11	52*	Nov 7 1954
ANNUAL RUNOFF (CFSM)	1.29		1.24		2.42	
ANNUAL RUNOFF (INCHES)	17.59		16.88		32.92	
10 PERCENT EXCEEDS	996		930		1910	
50 PERCENT EXCEEDS	448		453		803	
90 PERCENT EXCEEDS	196		221		357	

e Estimated.  
<sup>®</sup> See PERIOD OF RECORD.  
 \* See REMARKS.



TENNESSEE RIVER BASIN

03503000 LITTLE TENNESSEE RIVER AT NEEDMORE, NC--Continued

PRECIPITATION RECORDS

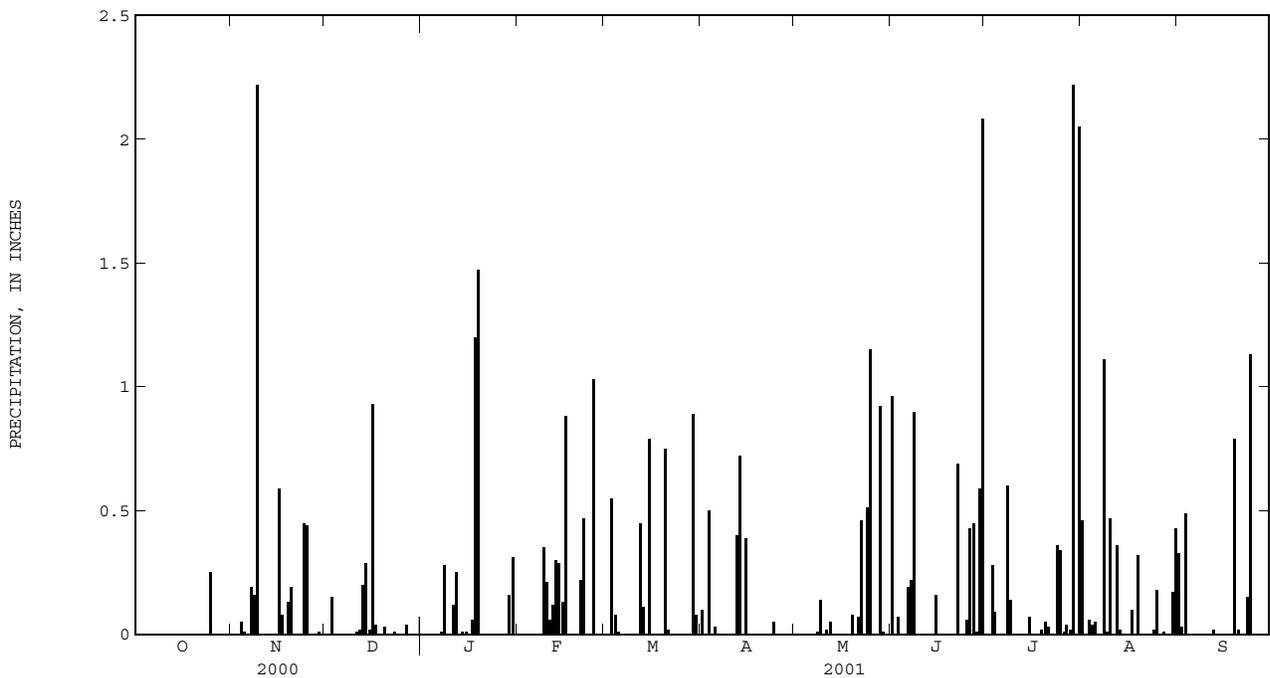
PERIOD OF RECORD.--October 1998 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at site.

REMARKS.--Gage is operated in cooperation with Tennessee Valley Authority. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.10	.00	.96	.00	.46	.33
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
3	.00	.00	.15	.00	.00	.55	.50	.00	.07	.28	.06	.49
4	.00	.05	.00	.00	.00	.08	.00	.00	.00	.09	.04	.00
5	.00	.01	.00	.00	.00	.00	.03	.00	.00	.00	.05	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.19	.00	.00	.00
7	.00	.19	.00	.01	.00	.00	.00	.00	.22	.00	.00	.00
8	.00	.16	.00	.28	.00	.00	.00	.01	.90	.60	1.11	.00
9	.00	2.22	.00	.00	.35	.00	.00	.14	.00	.14	.01	.00
10	.00	.00	.00	.00	.21	.00	.00	.00	.00	.00	.47	.00
11	.00	.00	.01	.12	.06	.00	.00	.02	.00	.00	.00	.00
12	.00	.00	.02	.25	.12	.45	.40	.05	.00	.00	.36	.02
13	.00	.00	.20	.00	.30	.11	.72	.00	.00	.00	.02	.00
14	.00	.00	.29	.01	.29	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.02	.01	.13	.79	.39	.00	.16	.07	.00	.00
16	.00	.59	.93	.00	.88	.00	.00	.00	.00	.00	.00	.00
17	.00	.08	.04	.06	.00	.00	.00	.00	.00	.00	.10	.00
18	.00	.00	.00	1.20	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.13	.00	1.47	.00	.00	.00	.08	.00	.02	.32	.79
20	.00	.19	.03	.00	.00	.75	.00	.00	.00	.05	.00	.02
21	.00	.00	.00	.00	.22	.02	.00	.07	.00	.03	.00	.00
22	.00	.00	.00	.00	.47	.00	.00	.46	.69	.00	.00	.00
23	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.15
24	.00	.45	.00	.00	.00	.00	.05	.51	.00	.36	.02	1.13
25	.25	.44	.00	.00	1.03	.00	.00	1.15	.06	.34	.18	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.43	.01	.00	.00
27	.00	.00	.04	.00	.00	.00	.00	.00	.45	.04	.01	.00
28	.00	.00	.00	.00	.00	.00	.00	.92	.01	.02	.00	.00
29	.00	.01	.00	.16	---	.89	.00	.01	.59	2.22	.00	.00
30	.00	.00	.00	.31	---	.08	.00	.00	2.08	.00	.17	.00
31	.00	---	.00	.00	---	.00	---	.00	---	2.05	.43	---
TOTAL	0.25	4.52	1.74	3.88	4.06	3.73	2.19	3.42	6.81	6.32	3.81	2.96

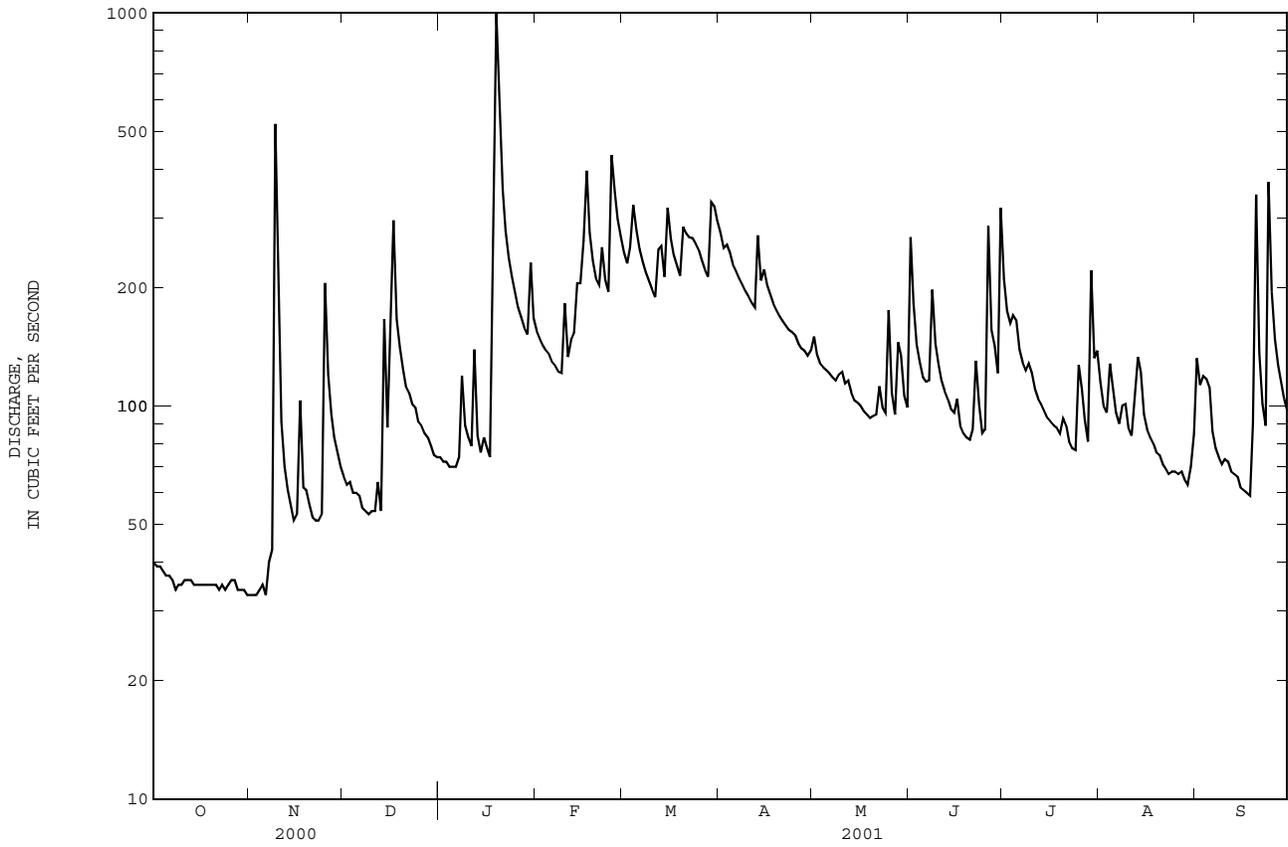




Gaging station at Brasstown Creek at Brasstown, North Carolina.

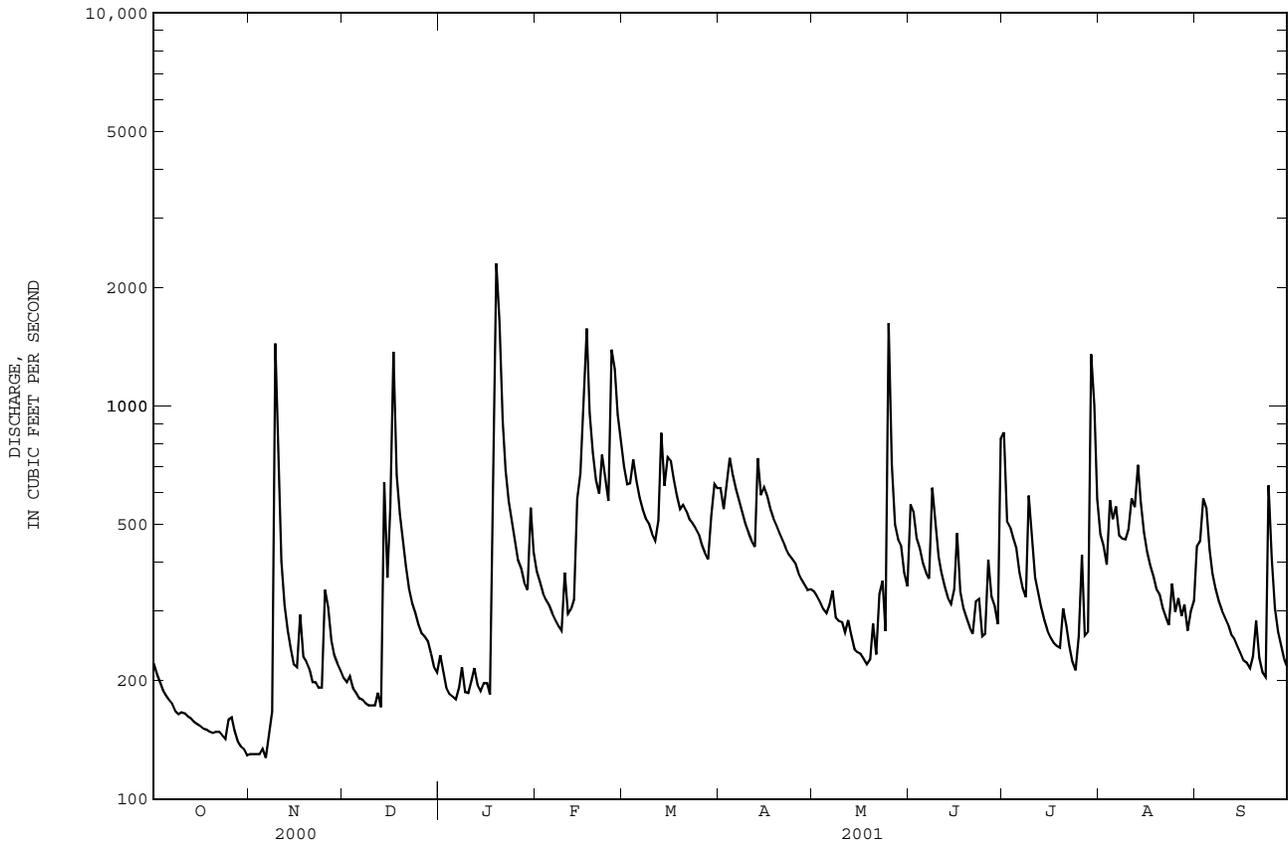


03504000 NANTAHALA RIVER NEAR RAINBOW SPRINGS, NC--Continued





03512000 OCONALUFTEE RIVER AT BIRDTOWN, NC--Continued

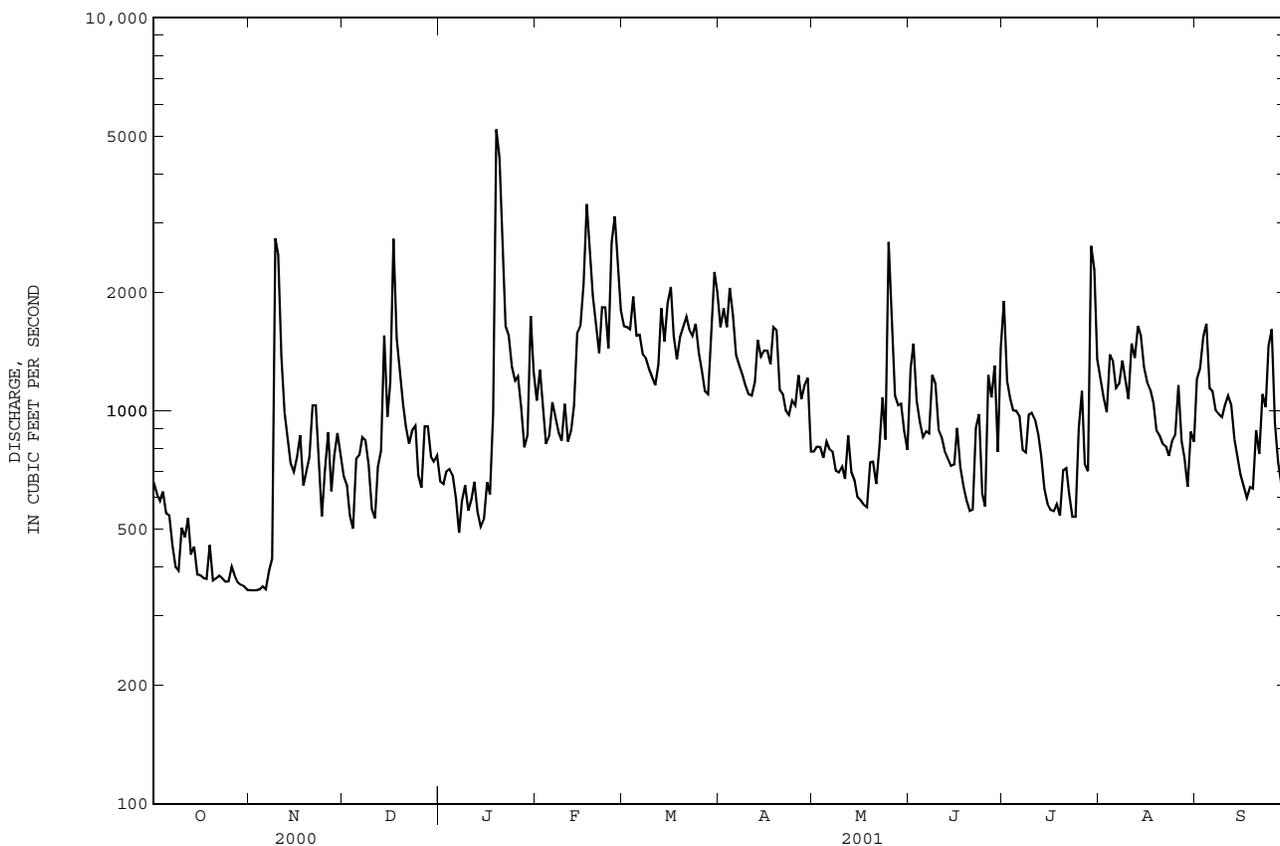




03513000 TUCKASEGEE RIVER AT BRYSON CITY, NC--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1898 - 2001 <sup>®</sup>	
ANNUAL TOTAL	403760		380389		1592	
ANNUAL MEAN	1103		1042		2576	
HIGHEST ANNUAL MEAN					879	
LOWEST ANNUAL MEAN					1986	
HIGHEST DAILY MEAN	7880	Apr 4	5190	Jan 19	28000	Mar 4 1917
LOWEST DAILY MEAN	349	Nov 1	349	Nov 1	31*	Sep 9 1925
ANNUAL SEVEN-DAY MINIMUM	351	Oct 31	351	Oct 31	97	Sep 4 1925
MAXIMUM PEAK FLOW			7930		61600*	
MAXIMUM PEAK STAGE			6.23		15.96	
INSTANTANEOUS LOW FLOW			336		27*	
10 PERCENT EXCEEDS	1930		1640		2840	
50 PERCENT EXCEEDS	896		891		1260	
90 PERCENT EXCEEDS	468		531		604	

e Estimated.  
<sup>®</sup> See PERIOD OF RECORD.  
 \* See REMARKS.



TENNESSEE RIVER BASIN

03513000 TUCKASEGEE RIVER AT BRYSON CITY, NC--Continued

PRECIPITATION RECORDS

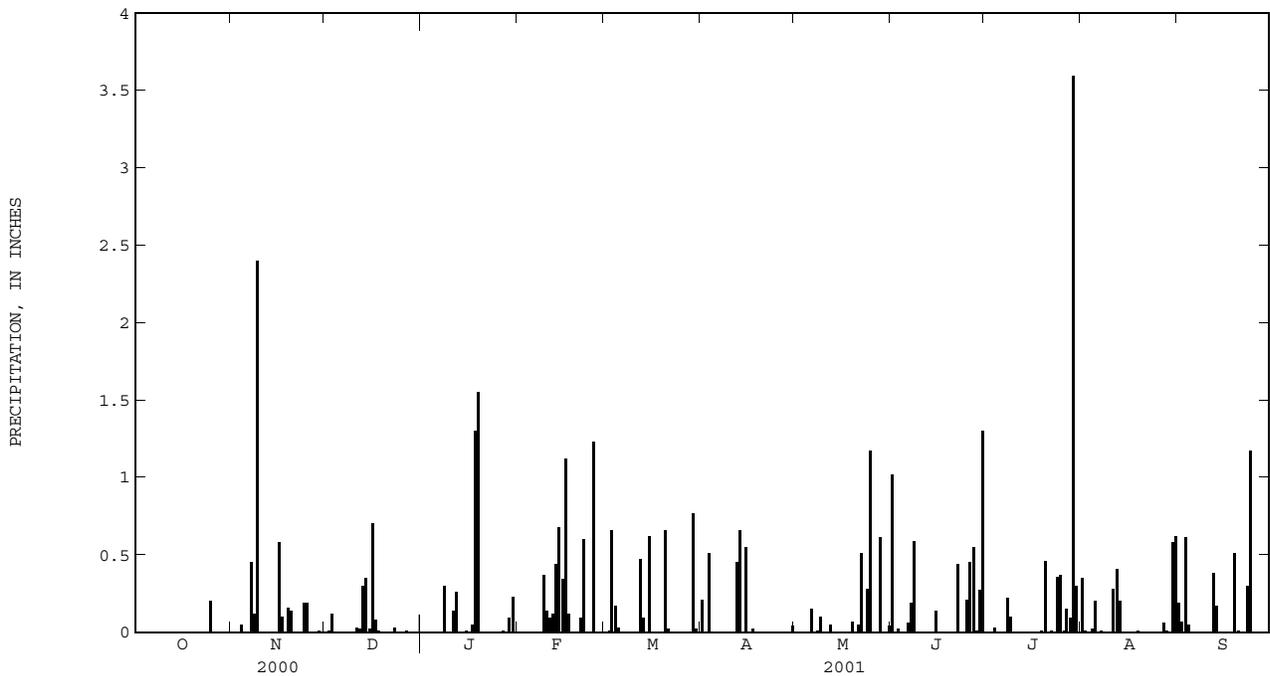
PERIOD OF RECORD.--October 1999 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at site.

REMARKS.--Gage is operated in cooperation with Tennessee Valley Authority and the North Carolina Department of Environment and Natural Resources. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.21	.00	1.02	.00	.35	.19
2	.00	.00	.01	.00	.00	.01	.00	.00	.00	.00	.01	.07
3	.00	.00	.12	.00	.00	.66	.51	.00	.02	.00	.00	.61
4	.00	.05	.00	.00	.00	.17	.00	.00	.00	.03	.02	.05
5	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.20	.00
6	.00	.00	.00	.00	.00	.00	.00	.15	.06	.00	.00	.00
7	.00	.45	.00	.00	.00	.00	.00	.00	.19	.00	.01	.00
8	.00	.12	.00	.30	.00	.00	.00	.01	.59	.22	.00	.00
9	.00	2.40	.00	.00	.37	.00	.00	.10	.00	.10	.00	.00
10	.00	.00	.00	.00	.14	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.03	.14	.09	.00	.00	.00	.00	.00	.28	.00
12	.00	.00	.02	.26	.12	.47	.45	.05	.00	.00	.41	.38
13	.00	.00	.30	.00	.44	.09	.66	.00	.00	.00	.20	.17
14	.00	.00	.35	.00	.68	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.02	.01	.34	.62	.55	.00	.14	.00	.00	.00
16	.00	.58	.70	.00	1.12	.00	.00	.00	.00	.00	.00	.00
17	.00	.10	.08	.05	.12	.00	.02	.00	.00	.00	.00	.00
18	.00	.00	.01	1.30	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.16	.00	1.55	.00	.00	.00	.07	.00	.01	.01	.51
20	.00	.14	.00	.00	.00	.66	.00	.00	.00	.46	.00	.01
21	.00	.00	.00	.00	.09	.02	.00	.05	.00	.00	.00	.00
22	.00	.00	.00	.00	.60	.00	.00	.51	.44	.01	.00	.00
23	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.30
24	.00	.19	.00	.00	.00	.00	.00	.28	.00	.36	.00	1.17
25	.20	.19	.00	.00	1.23	.00	.00	1.17	.21	.37	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.45	.01	.00	.00
27	.00	.00	.01	.01	.00	.00	.00	.00	.55	.15	.06	.00
28	.00	.00	.00	.00	.00	.00	.00	.61	.01	.09	.01	.00
29	.00	.01	.00	.09	---	.77	.00	.00	.27	3.59	.00	.00
30	.00	.00	.00	.23	---	.02	.04	.00	1.30	.30	.58	.00
31	.00	---	.00	.00	---	.00	---	.04	---	.00	.62	---
TOTAL	0.20	4.39	1.68	3.94	5.34	3.52	2.44	3.04	5.25	5.70	2.76	3.46





Gaging station at Watauga River near Sugar Grove, North Carolina.

## TENNESSEE RIVER BASIN

0351706800 CHEOAH RIVER NEAR BEAR PEN GAP NEAR TAPOCO, NC

LOCATION.--Lat 35°26'18", long 83°55'08", Graham County, Hydrologic Unit 06010204, on right bank, 93 ft downstream of U.S. Forest Service bridge number 62 on Slickrock Road, 1.7 mi upstream of mouth, and 1.2 mi east southeast of Tapoco.

DRAINAGE AREA.--206 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,260 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Considerable regulation at times caused by Santeetlah Dam, 10.3 mi upstream. Water from Santeetlah Lake, 10.3 mi upstream, is diverted to hydro powerplant on the Little Tennessee River, which bypasses gage. Minimum discharge for period of record also occurred Sept. 17, 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	11	23	e23	58	86	77	44	92	53	75	64
2	14	11	22	e23	52	77	71	48	84	44	62	48
3	13	12	25	e23	47	76	81	41	68	53	56	50
4	13	12	24	e22	44	88	83	38	66	53	55	46
5	13	13	22	e22	42	93	75	37	60	63	51	38
6	12	12	21	e21	40	75	70	72	62	49	62	34
7	12	13	20	e21	38	68	66	65	84	44	47	32
8	12	43	20	35	36	64	62	48	159	42	43	30
9	12	283	19	29	35	62	59	47	115	62	44	29
10	12	88	20	e25	69	58	57	62	81	56	70	27
11	12	40	20	e24	47	55	55	57	67	42	59	27
12	12	30	22	47	49	72	52	50	60	38	71	26
13	12	25	20	40	49	91	107	45	54	36	69	25
14	12	22	63	37	89	69	79	40	177	33	55	24
15	12	20	38	40	99	151	99	38	108	32	46	24
16	12	21	111	37	145	126	89	36	84	32	41	23
17	12	50	246	33	307	95	76	34	65	31	38	23
18	12	31	87	104	160	81	69	32	56	31	37	22
19	12	28	63	456	111	73	64	32	51	35	35	28
20	11	26	e49	254	87	106	60	37	48	40	40	55
21	12	23	e40	131	99	105	57	33	45	48	33	30
22	12	21	e36	91	141	95	54	45	60	61	30	26
23	12	21	e32	74	117	87	52	41	62	56	29	24
24	11	21	e31	64	95	81	51	34	45	40	29	127
25	12	59	e29	56	194	75	49	193	55	57	32	82
26	12	46	27	49	172	68	46	79	53	53	32	45
27	12	34	28	46	127	64	44	58	47	43	33	36
28	12	29	29	42	104	60	43	69	47	36	37	32
29	12	27	26	41	---	72	42	82	41	222	31	30
30	11	25	25	110	---	79	41	59	68	157	40	28
31	11	---	e24	69	---	77	---	53	---	80	62	---
TOTAL	375	1097	1262	2089	2653	2529	1930	1649	2164	1722	1444	1135
MEAN	12.1	36.6	40.7	67.4	94.8	81.6	64.3	53.2	72.1	55.5	46.6	37.8
MAX	14	283	246	456	307	151	107	193	177	222	75	127
MIN	11	11	19	21	35	55	41	32	41	31	29	22

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

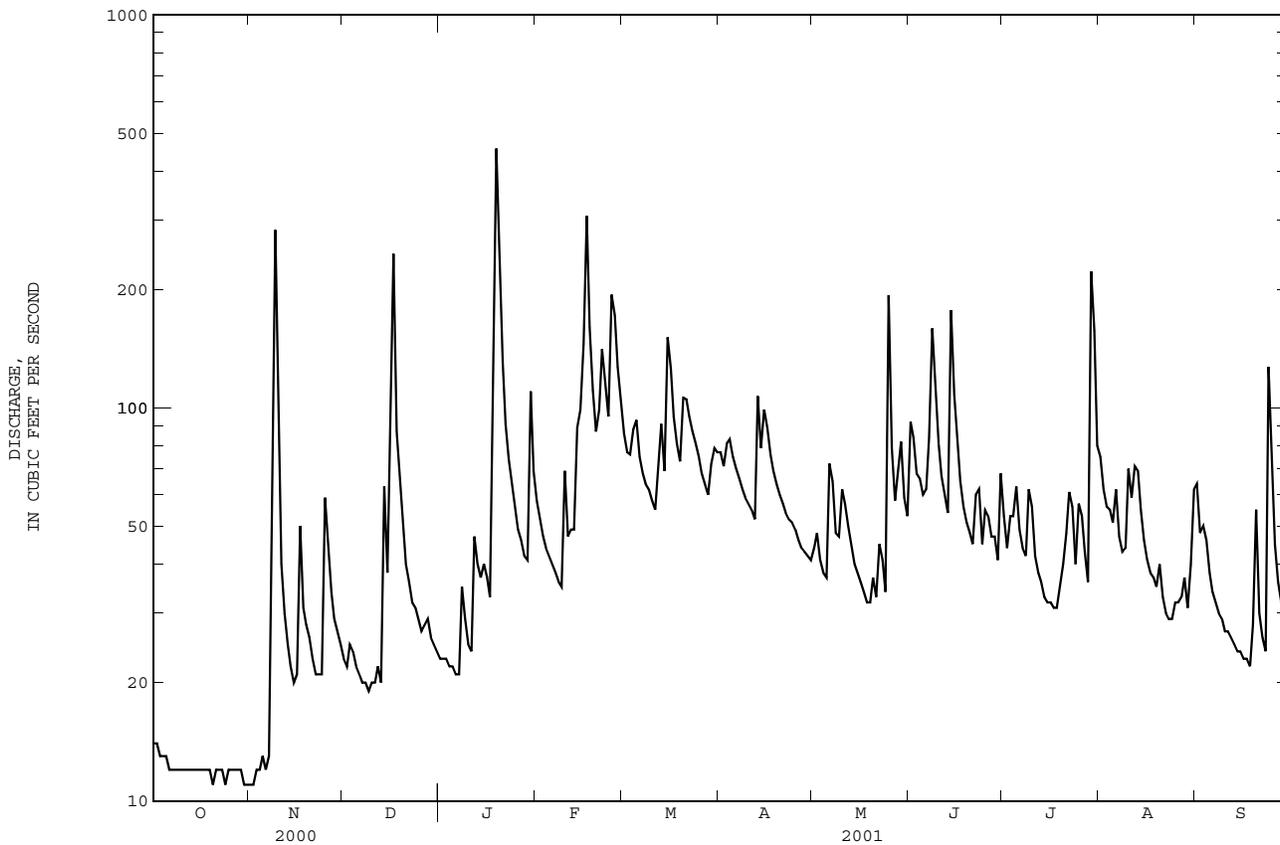
	2000	2001	2001	2001	2001	2001	2000	2000	2001	2000	2001	2000
MEAN	17.0	31.6	36.1	66.6	85.9	80.6	103	56.2	62.9	68.1	35.3	28.9
MAX	21.8	36.6	40.7	67.4	94.8	81.6	141	59.2	72.1	80.7	46.6	37.8
(WY)	2000	2001	2001	2001	2001	2001	2000	2000	2001	2000	2001	2001
MIN	12.1	26.7	31.5	65.8	77.3	79.7	64.3	53.2	53.6	55.5	24.0	19.9
(WY)	2001	2000	2000	2000	2000	2000	2001	2001	2000	2001	2000	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 2000 - 2001
ANNUAL TOTAL	21013.3	20049	
ANNUAL MEAN	57.4	54.9	55.8
HIGHEST ANNUAL MEAN			56.7
LOWEST ANNUAL MEAN			54.9
HIGHEST DAILY MEAN	612	Apr 4	612
LOWEST DAILY MEAN	9.1	Sep 17	9.1
ANNUAL SEVEN-DAY MINIMUM	9.8	Sep 14	9.8
MAXIMUM PEAK FLOW		737	Jun 14
MAXIMUM PEAK STAGE		4.21	Jun 14
INSTANTANEOUS LOW FLOW		11	Oct 31
10 PERCENT EXCEEDS	109	95	101
50 PERCENT EXCEEDS	40	45	42
90 PERCENT EXCEEDS	12	14	17

e Estimated.

\* See REMARKS.

0351706800 CHEOAH RIVER NEAR BEAR PEN GAP NEAR TAPOCO, NC--Continued



## TENNESSEE RIVER BASIN

0351706800 CHEOAH RIVER NEAR BEAR PEN GAP NEAR TAPOCO, NC--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1999 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1999 to current year.

INSTRUMENTATION.--Temperature probe since October 1999. Satellite telemetry at station.

REMARKS.--Station operated in cooperation with Tapoco, Inc.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 29.0°C, Aug. 9, 2000; minimum recorded, 0°C, periodically in winter months.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 27.7°C, July 24; minimum recorded, 0°C, Dec. 20-25, 30-31, Jan. 1-7, 9-11.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	19.9	14.9	17.1	14.3	11.1	12.8	5.3	3.2	4.3	.2	.0	.1
2	20.0	15.2	17.4	15.2	11.9	13.6	6.2	4.7	5.4	.3	.0	.1
3	21.2	16.2	18.3	15.7	12.8	14.3	5.9	4.7	5.1	.1	.0	.0
4	21.7	17.0	19.0	14.5	13.4	13.9	5.4	3.8	4.6	.1	.0	.0
5	21.7	17.3	19.2	14.9	12.6	13.7	4.8	3.4	4.0	.5	.0	.2
6	19.4	17.4	18.4	13.2	11.4	12.5	4.1	2.7	3.5	.7	.0	.3
7	17.4	13.3	15.7	16.2	12.9	14.6	4.5	3.1	3.7	1.0	.0	.5
8	13.3	10.5	11.8	16.6	15.3	15.9	4.6	2.2	3.3	1.5	.9	1.2
9	12.3	9.0	10.4	16.2	14.2	15.5	5.1	2.4	3.7	1.3	.0	.8
10	12.1	7.6	9.7	14.2	10.2	12.0	6.4	4.7	5.6	.3	.0	.1
11	12.4	7.6	9.8	10.5	8.9	9.6	7.4	5.2	6.4	.9	.0	.3
12	12.8	7.9	10.3	10.3	7.7	9.0	7.7	4.0	6.1	2.9	.9	1.9
13	13.6	8.9	11.2	10.3	8.8	9.5	6.0	3.1	4.0	4.5	2.8	3.4
14	13.9	9.7	11.8	10.2	7.5	9.3	8.0	6.0	7.1	4.6	2.6	3.6
15	13.9	10.1	12.0	7.9	6.3	7.1	7.5	6.3	7.0	6.1	4.2	5.0
16	14.6	10.6	12.6	7.4	6.1	6.7	9.9	7.1	8.6	4.9	3.7	4.3
17	15.2	12.1	13.7	8.9	6.9	7.9	9.9	3.6	6.7	5.3	3.4	4.3
18	16.8	13.8	15.0	6.9	5.6	6.0	3.6	2.0	2.9	6.6	5.2	5.8
19	16.3	12.7	14.5	5.6	4.8	5.2	3.5	.8	2.7	8.3	6.6	7.6
20	15.6	13.2	14.5	5.5	3.9	4.5	.8	.0	.2	7.5	3.5	5.5
21	17.3	14.5	15.9	3.9	1.8	3.0	1.2	.0	.6	3.5	2.4	3.0
22	17.6	14.7	16.1	3.6	.7	2.2	1.1	.0	.5	3.8	2.1	3.0
23	17.9	14.8	16.4	4.9	2.8	3.9	.1	.0	.0	3.5	1.8	2.8
24	18.3	15.3	16.9	6.2	4.4	5.3	1.1	.0	.5	4.3	2.6	3.4
25	17.3	15.4	16.3	8.5	6.2	7.6	.9	.0	.4	3.3	1.6	2.5
26	17.7	14.9	16.2	8.9	7.7	8.4	1.6	.3	1.0	2.5	.4	1.6
27	17.9	14.9	16.4	7.8	6.2	7.0	2.4	1.4	1.9	4.5	2.3	3.4
28	18.1	15.0	16.5	6.6	4.7	5.6	3.2	2.1	2.6	3.7	1.7	2.7
29	16.5	13.7	15.2	7.0	5.5	6.2	3.2	1.6	2.3	6.7	2.7	4.5
30	15.1	12.4	13.7	6.0	4.3	5.2	1.9	.0	.5	7.9	6.3	7.0
31	14.0	11.0	12.6	---	---	---	.5	.0	.1	7.7	5.9	6.7
MONTH	21.7	7.6	14.7	16.6	.7	8.9	9.9	.0	3.4	8.3	.0	2.8

TENNESSEE RIVER BASIN

625

0351706800 CHEOAH RIVER NEAR BEAR PEN GAP NEAR TAPOCO, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	6.8	5.4	6.0	10.0	7.0	8.6	10.7	8.1	9.4	19.7	15.3	17.1
2	5.4	3.4	4.6	10.1	8.6	9.2	9.6	6.6	8.1	17.9	14.7	16.3
3	4.1	1.7	2.9	10.4	9.6	10.0	9.2	8.6	8.9	20.7	14.5	17.3
4	4.9	2.3	3.6	12.5	10.0	11.0	14.6	9.2	11.5	21.7	15.4	18.3
5	4.5	3.5	4.1	10.0	6.2	7.9	13.0	11.8	12.2	22.2	16.2	19.0
6	5.1	2.1	3.6	6.4	4.0	5.2	14.0	11.4	12.5	20.8	16.2	18.3
7	5.9	2.9	4.3	7.1	3.3	5.0	16.1	12.1	13.9	19.2	15.5	17.0
8	7.3	4.2	5.7	7.9	3.6	5.8	18.4	13.4	15.7	17.4	15.1	15.8
9	9.7	6.2	8.0	8.9	5.1	6.7	19.4	14.1	16.5	16.4	14.3	15.4
10	9.7	6.1	7.8	8.4	4.0	6.1	20.2	14.8	17.3	19.5	14.4	16.4
11	7.4	5.0	6.2	9.1	4.6	6.9	19.6	15.8	17.6	19.5	14.7	16.9
12	7.2	6.2	6.8	9.0	7.2	8.1	17.7	16.2	16.9	18.1	16.4	17.2
13	8.4	7.2	7.8	12.5	8.5	10.1	17.8	15.6	16.5	20.5	15.0	17.3
14	10.2	8.4	9.4	11.2	8.1	9.7	16.0	13.5	14.9	19.7	13.2	16.3
15	11.4	10.0	10.6	10.0	8.8	9.4	15.7	13.5	14.6	21.1	14.5	17.4
16	12.4	10.5	11.3	12.1	8.6	10.1	16.2	12.5	14.1	22.4	16.2	19.0
17	10.7	6.3	8.4	10.3	7.8	8.9	13.5	8.9	11.0	23.4	17.1	20.0
18	6.5	4.6	5.5	10.7	6.8	8.4	12.5	7.6	9.7	24.2	17.7	20.6
19	7.5	4.4	5.9	10.3	6.0	8.3	13.3	7.4	10.2	22.1	17.9	19.9
20	7.4	5.8	6.5	8.9	7.3	7.8	14.0	9.2	11.7	20.6	18.3	19.4
21	8.9	7.4	8.0	7.3	6.8	6.9	17.9	11.9	14.5	23.4	18.2	20.4
22	8.6	8.1	8.3	11.5	6.8	8.8	19.6	13.6	16.3	21.0	17.0	19.2
23	9.5	7.3	8.2	11.4	6.8	9.1	20.3	15.1	17.5	19.9	14.8	17.1
24	9.7	6.6	8.3	9.1	7.0	7.9	17.9	14.5	16.0	19.2	14.5	16.5
25	11.4	9.7	10.5	10.5	6.5	8.2	17.9	12.5	14.9	17.3	14.7	15.9
26	10.8	8.4	9.6	9.0	4.9	6.8	17.3	11.3	14.1	18.9	13.2	15.7
27	9.0	7.4	8.4	8.8	3.9	6.2	17.7	11.1	14.2	20.1	14.1	16.8
28	10.2	8.5	9.1	8.9	3.9	6.5	18.7	12.7	15.5	17.5	15.4	16.0
29	---	---	---	7.7	6.9	7.4	17.5	13.4	15.6	19.9	15.0	17.1
30	---	---	---	10.4	7.6	9.0	18.6	14.0	16.1	21.3	15.3	18.0
31	---	---	---	10.9	9.3	10.1	---	---	---	18.5	15.9	17.2
MONTH	12.4	1.7	7.1	12.5	3.3	8.1	20.3	6.6	13.9	24.2	13.2	17.6
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	17.5	16.3	16.8	24.3	19.7	21.7	23.8	20.7	22.1	21.3	19.6	20.3
2	18.0	15.2	16.3	26.8	20.4	23.1	24.5	20.4	22.2	21.3	19.7	20.5
3	18.8	15.4	17.1	23.6	21.4	22.4	22.9	20.8	21.9	20.7	20.0	20.4
4	19.9	16.0	17.8	26.3	20.4	22.6	25.5	20.6	22.7	23.9	19.5	21.3
5	20.2	17.3	18.7	24.0	19.9	22.0	25.6	21.8	23.3	25.7	20.4	22.6
6	20.9	17.5	19.1	26.2	20.2	22.8	25.6	21.1	23.2	25.6	21.3	23.3
7	18.6	17.5	17.9	22.8	19.9	21.3	25.8	21.5	23.6	25.3	21.1	23.1
8	19.2	17.1	17.9	25.2	19.6	22.2	27.4	22.0	24.4	24.2	20.6	22.3
9	21.1	16.8	18.6	23.7	21.4	22.4	26.7	22.7	24.4	25.5	20.4	22.6
10	21.5	16.4	18.8	27.0	20.5	23.2	24.8	21.9	23.0	23.6	21.1	22.3
11	20.5	16.9	18.8	27.5	22.0	24.5	25.6	21.1	23.0	25.0	20.3	22.2
12	23.2	17.5	20.0	26.7	21.8	24.1	23.5	21.6	22.6	25.2	20.4	22.6
13	24.7	18.8	21.5	27.4	21.5	24.0	23.9	20.8	22.0	24.7	20.5	22.5
14	22.2	16.7	19.2	26.5	19.9	22.9	25.6	20.8	22.8	24.2	20.4	22.0
15	21.5	17.1	19.1	25.4	19.2	22.1	24.8	20.4	22.6	23.2	19.0	21.0
16	21.4	18.2	19.4	24.7	20.0	22.2	25.5	21.2	23.2	21.4	18.1	19.5
17	23.3	17.1	19.9	26.0	20.6	23.1	24.9	21.8	23.1	21.2	16.7	18.7
18	24.2	17.8	20.8	24.6	21.1	22.7	25.5	21.1	23.1	21.6	16.7	19.0
19	24.6	18.9	21.6	24.6	21.5	22.8	26.1	21.3	23.3	19.0	17.5	18.1
20	25.2	19.8	22.3	25.5	21.4	23.0	25.9	21.2	23.2	20.1	17.4	18.4
21	24.8	20.1	22.3	25.9	21.7	23.5	25.5	20.0	22.4	21.9	17.4	19.3
22	21.8	19.6	20.7	26.2	21.1	23.3	25.2	19.1	21.9	21.8	17.4	19.3
23	23.2	18.4	20.5	26.1	22.0	23.9	26.1	20.1	22.8	21.6	17.4	19.4
24	23.7	17.4	20.4	27.7	22.0	24.3	24.0	21.8	22.8	19.9	17.0	18.4
25	20.9	18.0	19.5	24.7	22.2	23.5	25.0	21.3	22.9	17.1	14.5	15.8
26	19.7	17.3	18.3	25.0	21.5	22.9	24.9	21.4	23.0	16.4	12.5	14.2
27	21.9	17.4	19.6	27.4	21.9	24.2	23.8	20.9	22.2	16.5	11.8	13.9
28	22.6	18.8	20.6	25.2	22.5	23.8	22.9	20.6	21.7	17.0	12.4	14.4
29	24.3	19.6	21.8	23.6	20.3	21.7	25.0	20.6	22.6	16.9	12.7	14.5
30	23.1	19.9	21.4	24.1	19.8	21.5	22.9	21.1	21.9	16.6	12.3	14.2
31	---	---	---	24.8	20.5	22.3	21.1	19.9	20.4	---	---	---
MONTH	25.2	15.2	19.6	27.7	19.2	22.9	27.4	19.1	22.7	25.7	11.8	19.5

## TENNESSEE RIVER BASIN

0351751500 CHEOAH RIVER NEAR TAPOCO, NC

LOCATION.--Lat 35°26'51", long 83°56'22", Graham County, Hydrologic Unit 06010204, on left bank, 15 ft downstream from Cheoah Power House Bridge, 12 ft east of Highway 129, 300 ft upstream of mouth, and 0.2 mi north northeast of Tapoco.

DRAINAGE AREA.--215 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,120 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records good.

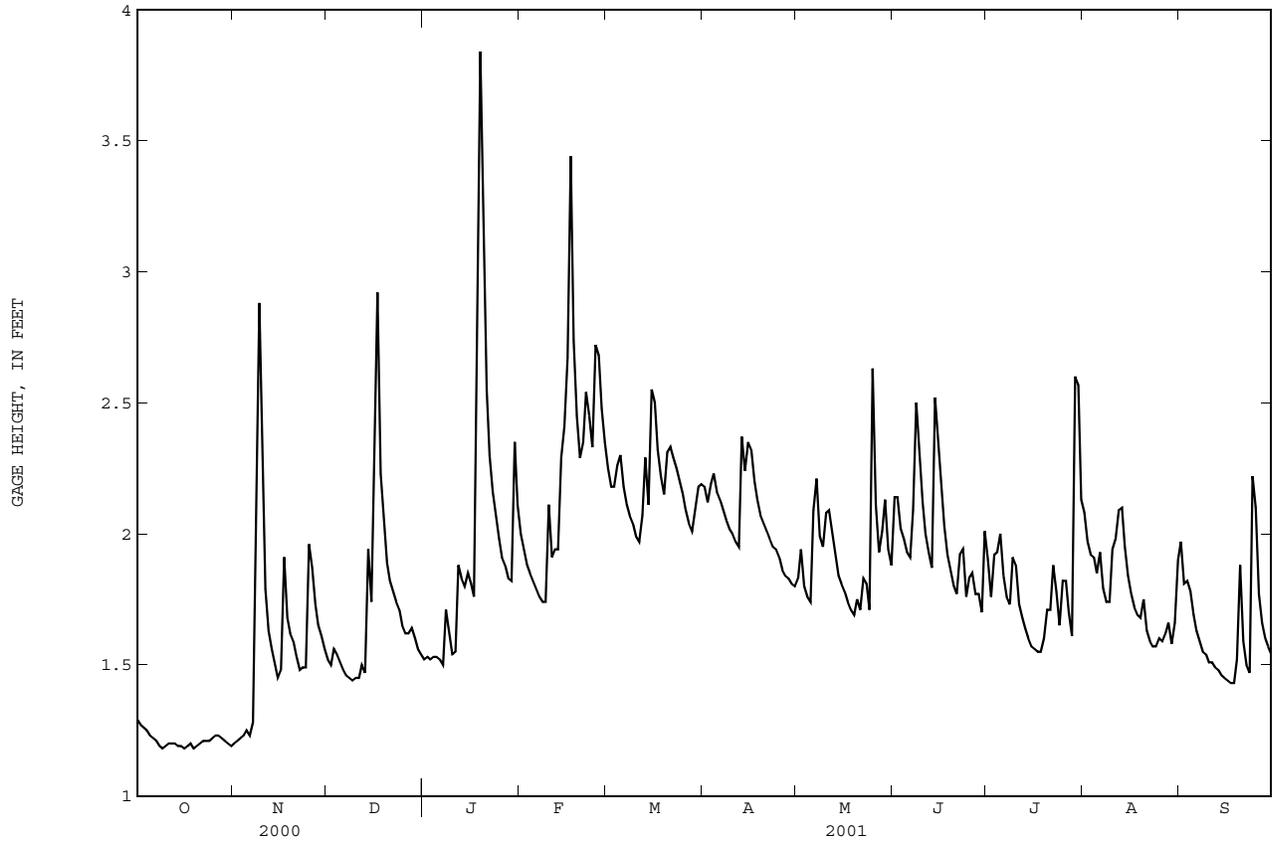
EXTREMES FOR PERIOD OF RECORD--Maximum, 5.45 ft, Apr. 3, 2000; minimum, 1.03 ft, Sept. 16, 17, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum 4.48 ft, June 14; minimum 1.17 ft, Oct. 8, 9, 10, 16, 19, 20, 31.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.29	1.20	1.52	1.52	2.00	2.25	2.18	1.83	2.14	1.90	2.08	1.97
2	1.27	1.21	1.50	1.53	1.94	2.18	2.12	1.94	2.14	1.76	1.97	1.81
3	1.26	1.22	1.56	1.52	1.88	2.18	2.19	1.80	2.02	1.92	1.92	1.82
4	1.25	1.23	1.54	1.53	1.85	2.26	2.23	1.76	1.98	1.93	1.91	1.78
5	1.23	1.25	1.51	1.53	1.82	2.30	2.16	1.74	1.93	2.00	1.85	1.69
6	1.22	1.23	1.48	1.52	1.79	2.18	2.13	2.09	1.91	1.84	1.93	1.63
7	1.21	1.28	1.46	1.50	1.76	2.11	2.09	2.21	2.09	1.76	1.79	1.59
8	1.19	1.81	1.45	1.71	1.74	2.07	2.05	1.99	2.50	1.73	1.74	1.55
9	1.18	2.88	1.44	1.63	1.74	2.04	2.02	1.95	2.33	1.91	1.74	1.54
10	1.19	2.22	1.45	1.54	2.11	1.99	2.00	2.08	2.12	1.88	1.94	1.51
11	1.20	1.79	1.45	1.55	1.91	1.97	1.97	2.09	2.00	1.73	1.98	1.51
12	1.20	1.63	1.50	1.88	1.94	2.07	1.95	2.00	1.93	1.68	2.09	1.49
13	1.20	1.56	1.47	1.83	1.94	2.29	2.37	1.92	1.87	1.64	2.10	1.48
14	1.19	1.51	1.94	1.80	2.29	2.11	2.24	1.84	2.52	1.60	1.95	1.46
15	1.19	1.45	1.74	1.85	2.41	2.55	2.35	1.81	2.36	1.57	1.84	1.45
16	1.18	1.48	2.10	1.81	2.67	2.50	2.32	1.78	2.19	1.56	1.77	1.44
17	1.19	1.91	2.92	1.76	3.44	2.32	2.20	1.74	2.03	1.55	1.72	1.43
18	1.20	1.68	2.23	2.30	2.74	2.22	2.13	1.71	1.92	1.55	1.69	1.43
19	1.18	1.62	2.05	3.84	2.45	2.15	2.07	1.69	1.86	1.60	1.68	1.52
20	1.19	1.59	1.89	3.14	2.29	2.31	2.04	1.75	1.80	1.71	1.75	1.88
21	1.20	1.53	1.82	2.55	2.35	2.33	2.01	1.71	1.77	1.71	1.63	1.59
22	1.21	1.48	1.78	2.30	2.54	2.29	1.98	1.83	1.92	1.88	1.59	1.50
23	1.21	1.49	1.74	2.16	2.45	2.25	1.95	1.81	1.94	1.78	1.57	1.47
24	1.21	1.49	1.71	2.07	2.33	2.20	1.94	1.71	1.76	1.65	1.57	2.22
25	1.22	1.96	1.65	1.98	2.72	2.15	1.91	2.63	1.83	1.82	1.60	2.10
26	1.23	1.87	1.62	1.91	2.68	2.09	1.86	2.11	1.85	1.82	1.59	1.77
27	1.23	1.73	1.62	1.88	2.48	2.04	1.84	1.93	1.77	1.70	1.62	1.66
28	1.22	1.65	1.64	1.83	2.35	2.01	1.83	2.01	1.77	1.61	1.66	1.60
29	1.21	1.61	1.60	1.82	---	2.09	1.81	2.13	1.70	2.60	1.58	1.57
30	1.20	1.56	1.56	2.35	---	2.18	1.80	1.94	2.01	2.57	1.66	1.54
31	1.19	---	1.54	2.11	---	2.19	---	1.88	---	2.13	1.90	---
MEAN	1.21	1.60	1.69	1.94	2.24	2.19	2.06	1.92	2.00	1.81	1.79	1.63
MAX	1.29	2.88	2.92	3.84	3.44	2.55	2.37	2.63	2.52	2.60	2.10	2.22
MIN	1.18	1.20	1.44	1.50	1.74	1.97	1.80	1.69	1.70	1.55	1.57	1.43

0351751500 CHEOAH RIVER NEAR TAPOCO, NC--Continued



## TENNESSEE RIVER BASIN

03548330 BRASSTOWN CREEK NEAR BRASSTOWN, NC

LOCATION.--Lat 35°02'24", long 83°57'34", Clay County, Hydrologic Unit 06020002, on right bank 20 ft upstream from bridge on Secondary Road 1134, 0.1 mi northwest of Brasstown, and 0.8 mi above mouth.

DRAINAGE AREA.--83.1 mi<sup>2</sup>.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1944, 1947, 1953-55, 1960-64, 1988. July 2000 to September 2001.

GAGE.--Water-stage recorder. Elevation of gage is 1,600 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges and those above 600 ft<sup>3</sup>/s, which are fair. Maximum discharge for period of record from rating curve extended above 600 ft<sup>3</sup>/s by logarithmic plotting. Minimum discharge for current water year also occurred Oct. 7. Minimum discharge for period of record also occurred Sept. 20, 2000.

DISCHARGE, CUBIC FEET PER SECOND, FOR PERIOD JULY TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	58	47	30
2	---	---	---	---	---	---	---	---	---	53	54	33
3	---	---	---	---	---	---	---	---	---	51	54	34
4	---	---	---	---	---	---	---	---	---	48	44	34
5	---	---	---	---	---	---	---	---	---	57	45	29
6	---	---	---	---	---	---	---	---	---	62	39	26
7	---	---	---	---	---	---	---	---	---	51	42	24
8	---	---	---	---	---	---	---	---	---	46	39	25
9	---	---	---	---	---	---	---	---	---	44	36	25
10	---	---	---	---	---	---	---	---	---	43	35	23
11	---	---	---	---	---	---	---	---	---	47	39	22
12	---	---	---	---	---	---	---	---	---	65	34	21
13	---	---	---	---	---	---	---	---	---	51	31	21
14	---	---	---	---	---	---	---	---	---	45	29	20
15	---	---	---	---	---	---	---	---	---	42	28	19
16	---	---	---	---	---	---	---	---	---	39	27	18
17	---	---	---	---	---	---	---	---	---	37	26	18
18	---	---	---	---	---	---	---	---	---	36	26	19
19	---	---	---	---	---	---	---	---	---	36	25	19
20	---	---	---	---	---	---	---	---	---	34	26	18
21	---	---	---	---	---	---	---	---	---	33	29	92
22	---	---	---	---	---	---	---	---	---	32	28	41
23	---	---	---	---	---	---	---	---	---	32	27	34
24	---	---	---	---	---	---	---	---	---	138	25	33
25	---	---	---	---	---	---	---	---	---	51	25	58
26	---	---	---	---	---	---	---	---	---	43	23	57
27	---	---	---	---	---	---	---	---	---	43	31	36
28	---	---	---	---	---	---	---	---	---	39	34	32
29	---	---	---	---	---	---	---	---	---	47	27	30
30	---	---	---	---	---	---	---	---	---	39	25	29
31	---	---	---	---	---	---	---	---	---	43	26	---
TOTAL	---	---	---	---	---	---	---	---	---	1485	1026	920
MEAN	---	---	---	---	---	---	---	---	---	47.9	33.1	30.7
MAX	---	---	---	---	---	---	---	---	---	138	54	92
MIN	---	---	---	---	---	---	---	---	---	32	23	18
CFSM	---	---	---	---	---	---	---	---	---	.58	.40	.37
IN.	---	---	---	---	---	---	---	---	---	.66	.46	.41

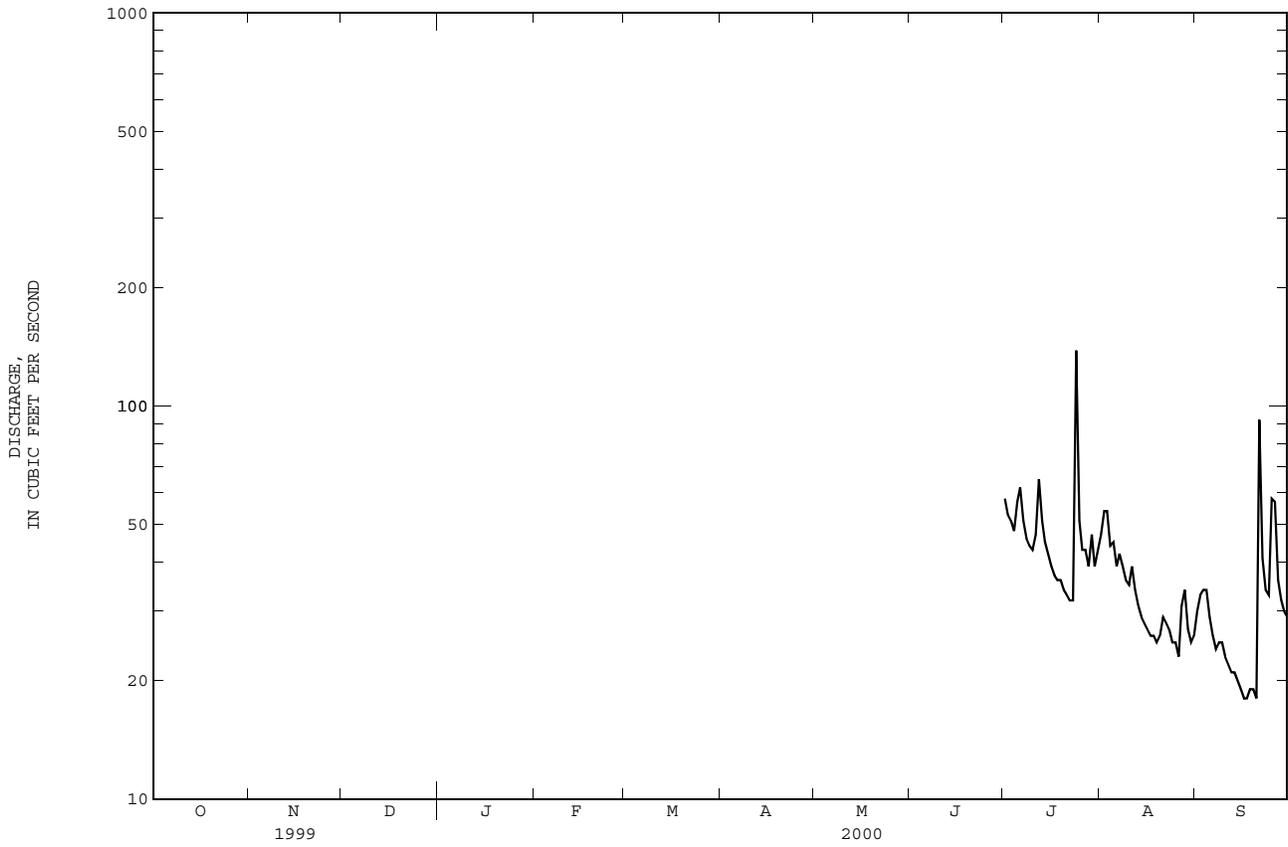
## SUMMARY STATISTICS

FOR PERIOD JULY TO SEPTEMBER 2000

MAXIMUM PEAK FLOW	446	Jul 24 2000
MAXIMUM PEAK STAGE	5.53	Jul 24 2000
INSTANTANEOUS LOW FLOW	17*	Sep 16 2000

\* See REMARKS.

03548330 BRASSTOWN CREEK NEAR BRASSTOWN, NC--Continued



## TENNESSEE RIVER BASIN

03548330 BRASSTOWN CREEK NEAR BRASSTOWN, NC--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	27	43	e41	69	104	112	71	213	191	82	137
2	28	28	42	e41	66	96	104	72	181	106	52	101
3	28	28	44	e41	62	100	109	62	111	95	47	90
4	27	28	43	e40	61	136	115	59	96	88	48	78
5	26	33	41	e40	59	114	104	57	80	81	76	176
6	26	30	40	e41	57	102	100	57	83	72	48	83
7	26	30	39	42	56	95	96	74	89	64	45	67
8	26	35	38	74	54	89	92	58	150	61	48	59
9	26	249	38	59	54	85	88	59	113	58	64	54
10	27	104	38	e51	90	81	86	61	89	57	44	51
11	28	56	38	49	68	77	82	59	76	53	46	50
12	28	47	39	78	78	98	80	65	70	49	74	47
13	27	43	37	66	83	129	123	57	65	47	84	45
14	26	41	56	59	100	99	101	52	62	44	77	44
15	26	39	47	57	94	219	109	50	59	42	54	42
16	27	40	54	54	113	166	104	48	58	41	47	40
17	26	76	91	52	265	133	93	46	51	40	51	40
18	26	51	66	118	148	117	88	45	48	38	56	39
19	26	49	61	626	117	105	85	43	46	38	44	53
20	27	54	e57	316	103	276	82	46	45	42	45	176
21	27	50	51	157	95	226	78	46	44	51	41	87
22	28	45	48	118	135	162	75	54	49	40	38	64
23	28	43	e46	100	113	137	73	58	51	40	36	55
24	28	44	45	88	99	124	72	49	45	37	40	160
25	28	73	44	79	180	114	72	84	45	49	42	113
26	29	64	43	73	167	105	68	57	65	46	38	80
27	29	53	45	70	132	99	66	49	66	39	40	68
28	28	49	48	65	116	94	64	95	56	38	39	61
29	28	46	45	63	---	131	62	109	53	65	38	55
30	28	44	43	94	---	146	61	68	414	77	58	52
31	27	---	41	76	---	120	---	58	---	100	59	---
TOTAL	843	1599	1451	2928	2834	3879	2644	1868	2673	1889	1601	2267
MEAN	27.2	53.3	46.8	94.5	101	125	88.1	60.3	89.1	60.9	51.6	75.6
MAX	29	249	91	626	265	276	123	109	414	191	84	176
MIN	26	27	37	40	54	77	61	43	44	37	36	39
CFSM	.33	.64	.56	1.14	1.22	1.51	1.06	.73	1.07	.73	.62	.91
IN.	.38	.72	.65	1.31	1.27	1.74	1.18	.84	1.20	.85	.72	1.01

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

	2000	2001	2000	2001	2000	2001	2000	2001	2000	2001	2000	2001
MEAN	27.2	53.3	46.8	94.5	101	125	88.1	60.3	89.1	54.4	42.4	53.1
MAX	27.2	53.3	46.8	94.5	101	125	88.1	60.3	89.1	60.9	51.6	75.6
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001
MIN	27.2	53.3	46.8	94.5	101	125	88.1	60.3	89.1	47.9	33.1	30.7
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2000	2000	2000

## SUMMARY STATISTICS

## FOR 2001 WATER YEAR

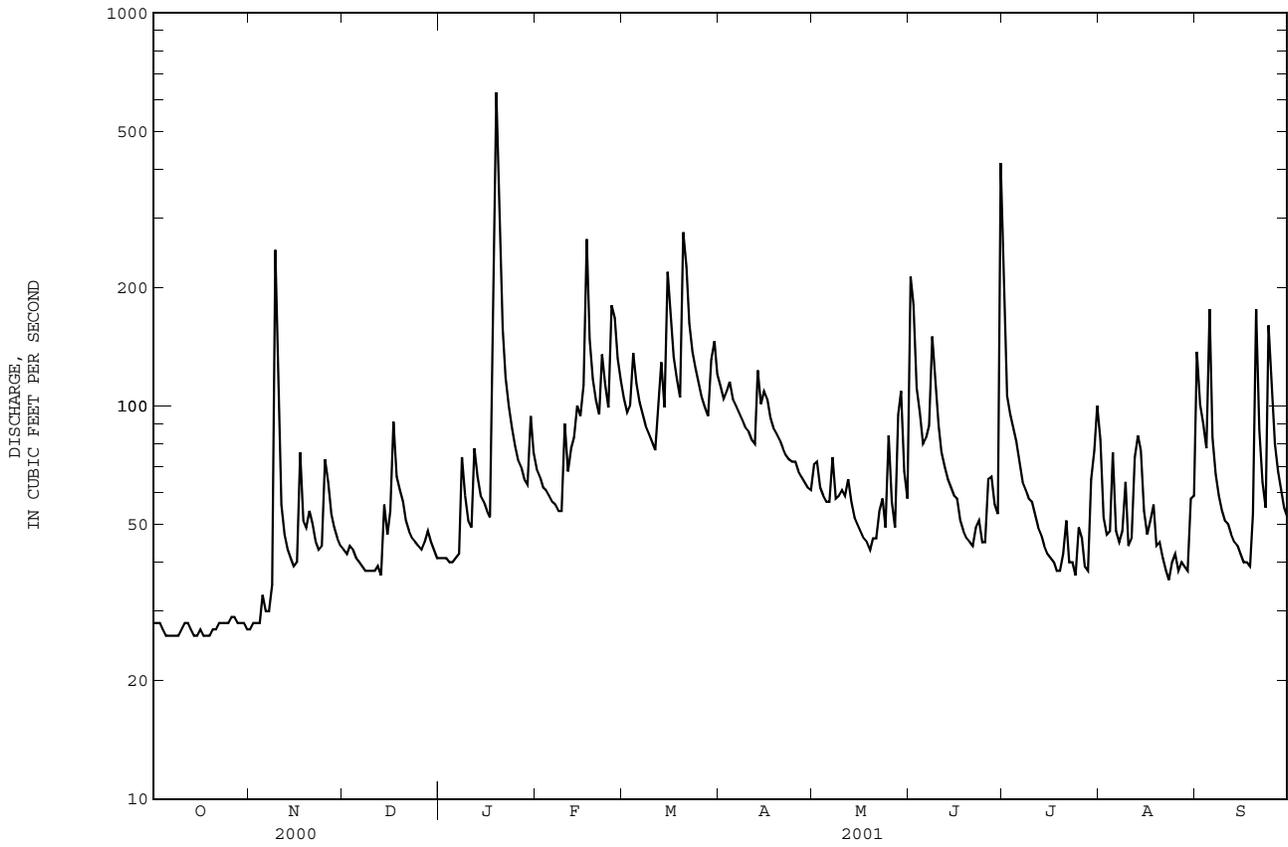
## WATER YEARS 2000 - 2001

ANNUAL TOTAL	26476	
ANNUAL MEAN	72.5	72.5
HIGHEST ANNUAL MEAN		72.5
LOWEST ANNUAL MEAN		72.5
HIGHEST DAILY MEAN	626	Jan 19 2001
LOWEST DAILY MEAN	26	Oct 5 2000
ANNUAL SEVEN-DAY MINIMUM	26	Oct 4 2000
MAXIMUM PEAK FLOW	1330*	Jan 19 2001
MAXIMUM PEAK STAGE	8.25	Jan 19 2001
INSTANTANEOUS LOW FLOW	24*	Oct 6 2000
ANNUAL RUNOFF (CFSM)	.87	.87
ANNUAL RUNOFF (INCHES)	11.85	11.86
10 PERCENT EXCEEDS	117	113
50 PERCENT EXCEEDS	58	51
90 PERCENT EXCEEDS	30	28

e Estimated.

\* See REMARKS.

03548330 BRASSTOWN CREEK NEAR BRASSTOWN, NC--Continued



## TENNESSEE RIVER BASIN

03548500 HIWASSEE RIVER ABOVE MURPHY, NC

LOCATION.--Lat 35°04'49", long 84°00'10", Cherokee County, Hydrologic Unit 06020002, on right bank on U.S. Highway 64, 600 ft upstream from Will Scott Creek, 2.0 mi southeast of Murphy, and at mile 99.1.

DRAINAGE AREA.--406 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1896 to August 1897 (gage heights only), October 1897 to current year. Published as "Hiwassee River at Murphy" 1897-1940. Records published for both sites August 1939 to April 1940. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORD.--WSP 583: 1899(M). WSP 973: Drainage area. WSP 1003: 1943. WSP 1306: 1901-2, 1904-17, 1919(M), 1922(M), 1924-26(M). WSP 1706: 1899, 1907.

GAGE.--Water-stage recorder. Datum of gage is 1,538.23 ft above sea level (levels by Tennessee Valley Authority). Prior to Jan. 30, 1921, nonrecording gage at bridge 2.8 mi downstream at 1,507.83 ft. Jan. 30, 1921, to Nov. 8, 1926, nonrecording gage 2.8 mi downstream at 1,509.83 ft. Nov. 9, 1926, to Apr. 30, 1940, water-stage recorder 2.8 mi downstream at 1,510.03 ft. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Considerable diurnal fluctuation since 1924 caused by Mission power plant at Andrews Dam 7 mi upstream, normal regulated storage, about 75 ft<sup>3</sup>/s-day. Flow regulated since 1942 by Chatuge Lake (station 03546500) 22 mi upstream. Prior to regulation, maximum discharge: 23,100 ft<sup>3</sup>/s, Mar. 19, 1899, from rating curve extended above 5,000 ft<sup>3</sup>/s; gage height: 18.4 ft, from graph based on gage readings, site and datum then in use; minimum daily discharge: 10 ft<sup>3</sup>/s, Dec. 3, 1924, result of freezeup and filling of Lake Andrews, site and datum then in use. Minimum discharge for period of record also occurred Oct. 1, 2, 2000. Minimum discharge for current water year also occurred Oct. 2.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage observed is that of Mar. 19, 1899.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	307	225	493	305	339	725	557	337	917	795	573	771
2	477	269	401	272	420	563	473	354	937	446	776	503
3	926	286	246	376	434	515	471	356	623	398	887	517
4	1040	274	560	310	303	725	499	324	505	363	570	585
5	911	341	580	256	354	749	448	378	424	417	394	950
6	e680	328	418	255	454	768	443	302	423	533	424	712
7	e300	329	447	244	329	759	432	336	439	317	724	1220
8	e270	355	342	308	365	555	410	288	893	300	715	1090
9	e570	995	247	303	271	467	406	295	772	306	1120	e873
10	e600	609	221	260	357	504	393	306	555	314	650	e861
11	e800	318	224	268	298	591	377	294	467	291	692	1030
12	e250	270	314	350	344	452	369	314	426	280	586	991
13	286	483	807	325	342	567	562	308	394	271	599	970
14	180	686	524	293	461	446	528	299	368	257	1170	810
15	308	582	281	302	485	827	517	286	345	251	838	475
16	455	352	292	292	544	720	516	275	347	254	744	315
17	619	576	474	288	1230	714	454	264	335	277	864	309
18	483	458	911	452	817	798	439	263	320	255	588	252
19	290	268	1250	2460	721	667	419	262	323	226	302	293
20	368	539	1410	1870	518	797	401	266	329	246	413	607
21	232	733	1370	937	498	744	385	265	294	263	757	422
22	303	694	1380	622	673	607	372	287	313	238	516	614
23	243	490	727	506	671	542	361	299	329	280	706	637
24	294	254	301	445	515	501	358	279	298	341	478	1360
25	294	321	272	520	1030	464	348	478	283	382	587	949
26	318	344	260	754	1210	437	375	366	307	639	576	733
27	358	430	263	538	946	426	338	314	359	291	584	391
28	357	539	279	326	725	401	323	434	304	277	551	303
29	262	357	301	314	---	503	318	e470	290	973	670	375
30	266	237	284	510	---	622	310	e360	907	746	696	306
31	263	---	267	456	---	532	---	331	---	559	709	---
TOTAL	13310	12942	16146	15717	15654	18688	12602	9990	13826	11786	20459	20224
MEAN	429	431	521	507	559	603	420	322	461	380	660	674
MAX	1040	995	1410	2460	1230	827	562	478	937	973	1170	1360
MIN	180	225	221	244	271	401	310	262	283	226	302	252

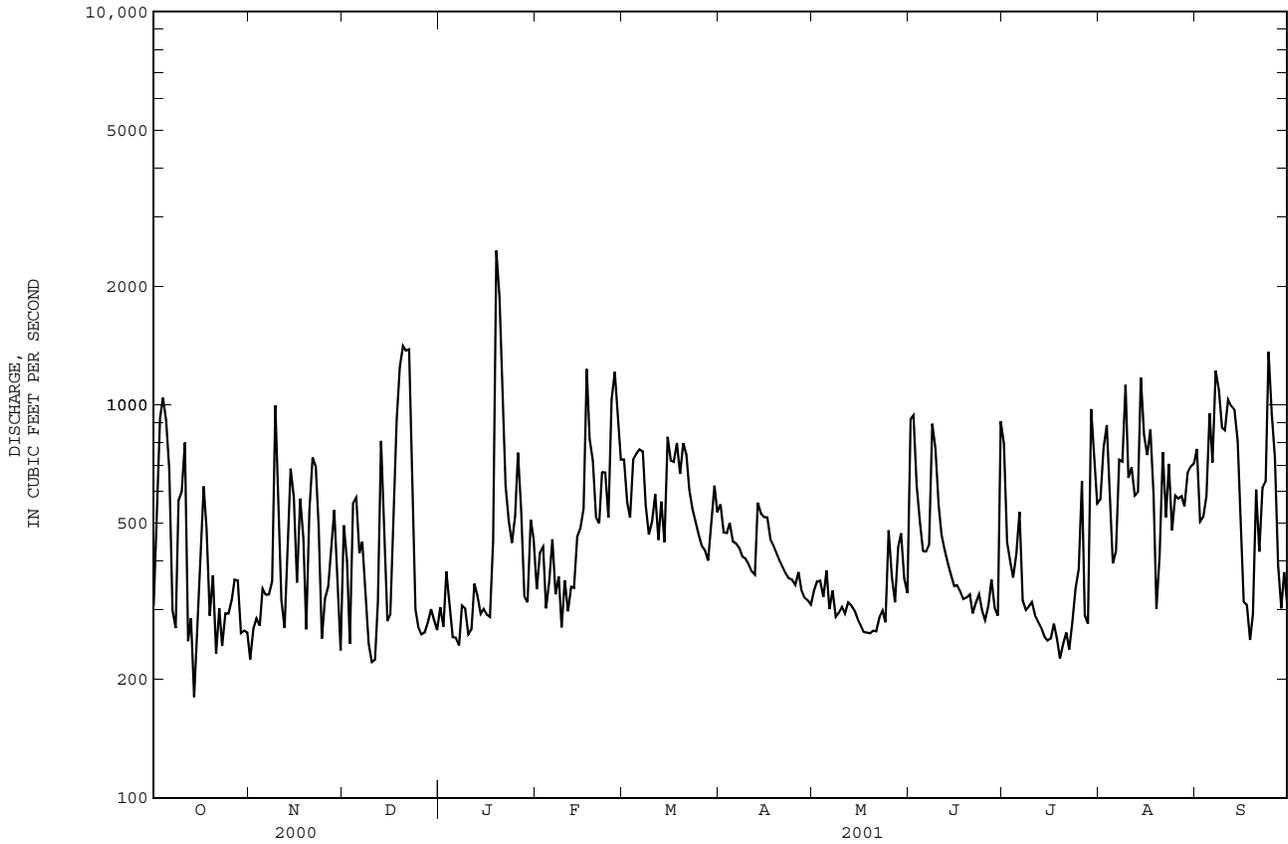
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2001,® BY WATER YEAR (WY)

	525	587	934	1126	1207	1101	1035	923	893	878	865	714
MEAN	525	587	934	1126	1207	1101	1035	923	893	878	865	714
MAX	1530	1654	2532	2462	3076	2784	2155	2033	1852	1517	1674	1628
(WY)	1990	1990	1993	1974	1990	1990	1953	1953	1989	1989	1994	1943
MIN	98.8	106	214	223	408	373	219	212	238	228	120	141
(WY)	1953	1954	1948	1948	1954	1988	1986	1988	1953	1953	1953	1953

03548500 HIWASSEE RIVER ABOVE MURPHY, NC--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1942 - 2001 <sup>®</sup>	
ANNUAL TOTAL	174965		181344		898	
ANNUAL MEAN	478		497		1414	
HIGHEST ANNUAL MEAN					1990	
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	3700	Apr 4	2460	Jan 19	11600	Feb 16 1990
LOWEST DAILY MEAN	160	Sep 9	180	Oct 14	62	Oct 19 1952
ANNUAL SEVEN-DAY MINIMUM	208	Jul 17	251	Jul 16	80	Oct 18 1952
MAXIMUM PEAK FLOW			4740	Jan 19	18600	May 28 1973
MAXIMUM PEAK STAGE			6.97	Jan 19	13.88	May 28 1973
INSTANTANEOUS LOW FLOW			106*	Oct 1	106*	Oct 2 1993
10 PERCENT EXCEEDS	800		831		1620	
50 PERCENT EXCEEDS	396		420		790	
90 PERCENT EXCEEDS	252		268		226	

e Estimated.  
<sup>®</sup> Regulated period only (1942-2001). See REMARKS.  
 \* See REMARKS.

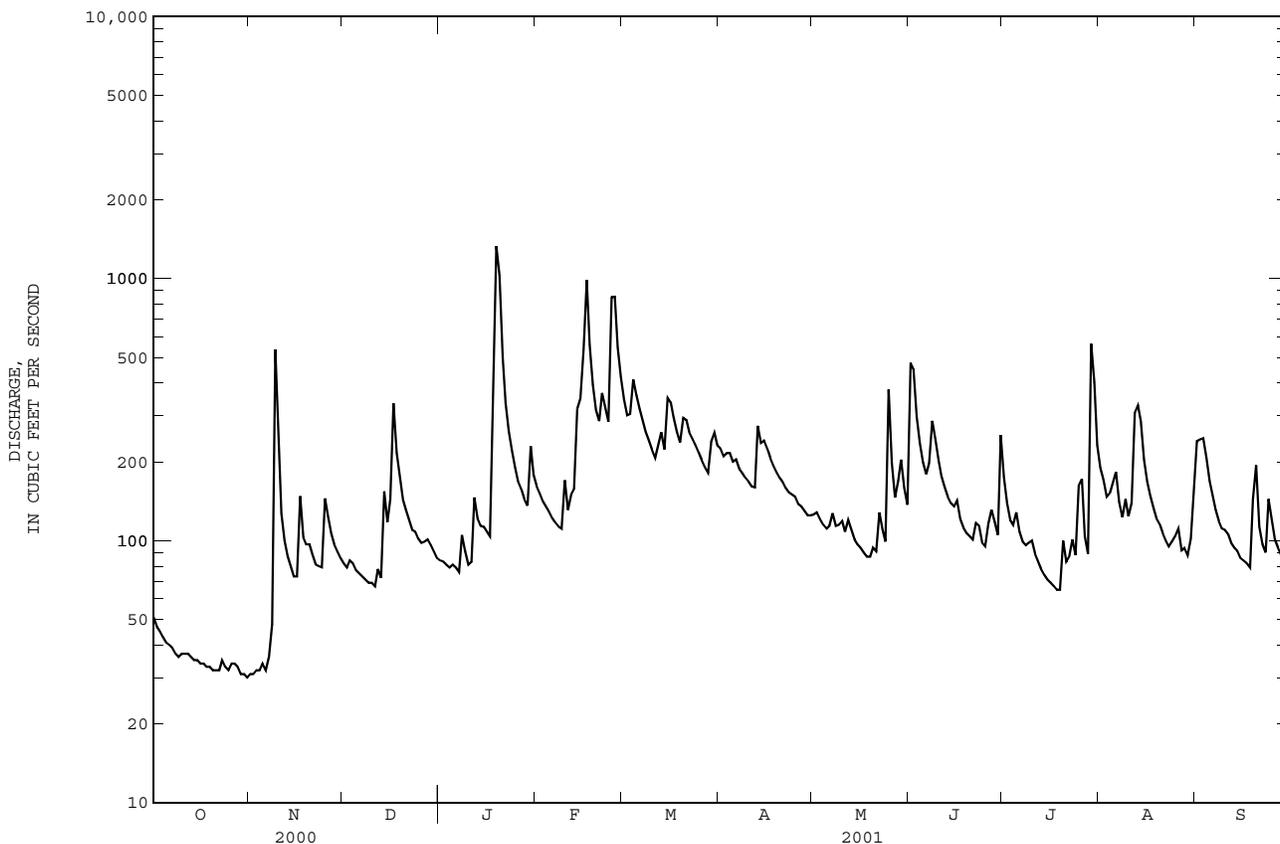




03550000 VALLEY RIVER AT TOMOTLA, NC--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1904 - 2001 <sup>®</sup>	
ANNUAL TOTAL	55874		59047		256	
ANNUAL MEAN	153		162		379	
HIGHEST ANNUAL MEAN					111	
LOWEST ANNUAL MEAN					111	
HIGHEST DAILY MEAN	1880	Apr 4	1330	Jan 19	8190	Feb 16 1995
LOWEST DAILY MEAN	30	Oct 31	30	Oct 31	12	Aug 27 1925
ANNUAL SEVEN-DAY MINIMUM	31	Oct 29	31	Oct 29	13	Aug 24 1925
MAXIMUM PEAK FLOW			2160		18000*	
MAXIMUM PEAK STAGE			6.98		20.50	
INSTANTANEOUS LOW FLOW			30*		12*	
ANNUAL RUNOFF (CFSM)	1.47		1.56		2.46	
ANNUAL RUNOFF (INCHES)	19.99		21.12		33.39	
10 PERCENT EXCEEDS	273		294		500	
50 PERCENT EXCEEDS	114		122		176	
90 PERCENT EXCEEDS	37		46		59	

e Estimated.  
<sup>®</sup> See PERIOD OF RECORD.  
 \* See REMARKS.



## LAKES AND RESERVOIRS IN OHIO RIVER BASIN

**03460242 WATERVILLE LAKE**

LOCATION.--Lat 35°41'41", long 83°03'02", Haywood County, Hydrologic Unit 06010206, at Waterville Dam on Pigeon River, 0.1 mi downstream from Cataloochee Creek, 5.5 mi southeast of Mount Sterling, and at river mile 38.0.

DRAINAGE AREA.--455 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1961 to current year. Prior to October 1979, published as Lake Walters.

GAGE.--Nonrecording gage read once daily. Datum of gage is sea level.

REMARKS.--Reservoir is formed by a single-arch, variable-radius, concrete dam with 14 taintor gates 10 ft high by 24 ft wide. Dam was completed in 1929 and filling began October 1929; water in reservoir first reached minimum pool elevation November 1929. Total capacity is 12,800 ft<sup>3</sup>/s-day at 2,258.60 ft (top of gate), of which 10,400 ft<sup>3</sup>/s-day is controlled storage above 2,175 ft, normal minimum pool elevation. Reservoir is used for power. Prior to Jan. 1, 1971, records furnished by Carolina Power and Light Co. New capacity table was put into use Jan. 1, 1971.

COOPERATION.--Gage-height record furnished by Carolina Power and Light Co.; water-level storage records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum content observed: 12,950 ft<sup>3</sup>/s-day, Mar. 27, 1994; elevation, 2,259.20 ft. Minimum content observed: 1,030 ft<sup>3</sup>/s-day, Sept. 16, 1980; elevation, 2,141.50 ft.

EXTREMES FOR CURRENT YEAR.--Maximum content observed: 12,810 ft<sup>3</sup>/s-day, May 28; elevation, 2,258.40 ft. Minimum content observed: 9,440 ft<sup>3</sup>/s-day, Nov. 14; elevation, 2,236.90 ft.

**03514500 FONTANA LAKE**

LOCATION.--Lat 35°27'07", long 83°48'18", Graham County, Hydrologic Unit 06010202, at Fontana Dam on Little Tennessee River, 9.6 mi upstream from Cheoah Dam, 5.7 mi upstream from Twenty Mile Creek, 9.0 mi north of Robbinsville, and at river mile 61.0.

DRAINAGE AREA.--1,571 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1944 to current year. Prior to November 1944, monthend content only, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by gravity, nonoverflow-type concrete dam. Spillway is equipped with four radial gates 35 ft high by 35 ft wide. Filling began Nov. 7, 1944; dam completed March 1945; water in reservoir first reached minimum pool elevation Jan. 16, 1945. Total capacity (based on 1967 resurvey) is 727,500 ft<sup>3</sup>/s-day, at 1,710.0 ft (top of gate) of which 476,900 ft<sup>3</sup>/s-day is controlled storage above 1,580.0 ft, normal minimum pool elevation. Reservoir is used for navigation, flood control, and power. New capacity table put into use Jan. 1, 1971.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum content observed: 728,600 ft<sup>3</sup>/s-day, May 28, 1973; elevation, 1,710.20 ft. Minimum content observed (after first filling): 78,300 ft<sup>3</sup>/s-day, Jan. 29, 1955; elevation, 1,472.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum content observed: 656,400 ft<sup>3</sup>/s-day, Aug. 1; elevation, 1,696.28 ft. Minimum content observed: 240,900 ft<sup>3</sup>/s-day, Nov. 17; elevation, 1,575.59 ft.

**03546500 CHATUGE LAKE**

LOCATION.--Lat 35°01'01", long 83°47'28", Clay County, Hydrologic Unit 06020002, at Chatuge Dam on Hiwassee River, 2.0 mi upstream from Hyatt Mill Creek, 2.5 mi downstream from Georgia-North Carolina Stateline, 2.4 mi southeast of Hayesville, and at river mile 121.0.

DRAINAGE AREA.--189 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level. Prior to Aug. 4, 1942, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by a rolled, earthfill dam with side-channel spillway equipped with flashboards. Dam completed and filling began Feb. 12, 1942; water in reservoir first reached minimum pool elevation Feb. 26, 1942. Total capacity (based on 1965 resurvey) is 121,200 ft<sup>3</sup>/s-day, at 1,928.0 ft (top of flashboard), of which 61,700 ft<sup>3</sup>/s-day is controlled storage above 1,905.0 ft, normal minimum pool elevation. Reservoir is used for navigation, flood control, and power. New capacity table put into use Jan. 1, 1971.

COOPERATION.--Records furnished by Tennessee Valley Authority. (See station 03548500.)

EXTREMES FOR PERIOD OF RECORD.--Maximum content observed: 124,200 ft<sup>3</sup>/s-day, Apr. 20, 1943; elevation, 1,927.80 ft. Minimum content observed (after first filling): 9,400 ft<sup>3</sup>/s-day, Sept. 5, 1947, and Jan. 27, 1956; elevation, 1,860.11 ft, Sept. 5, 1947.

EXTREMES FOR CURRENT YEAR.--Maximum content observed: 102,000 ft<sup>3</sup>/s-day, July 11; elevation, 1,922.23 ft. Minimum content observed: 71,900 ft<sup>3</sup>/s-day, Jan. 4; elevation, 1,910.95 ft.

**03554500 HIWASSEE LAKE**

LOCATION.--Lat 35°09'01", long 84°10'40", Cherokee County, Hydrologic Unit 06020002, at Hiwassee Dam on Hiwassee River, 3.9 mi upstream from Shoal Creek, 0.3 mi northwest of village of Hiwassee Dam, and at river mile 75.8.

DRAINAGE AREA.--968 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 0.63 ft below sea level.

## LAKES AND RESERVOIRS IN OHIO RIVER BASIN

REMARKS--Reservoir is formed by gravity overflow concrete dam with seven taintor gates 23 ft high by 32 ft wide. Slight filling began Apr. 13, 1939, during construction; systematic filling operation began Jan. 14, 1940; dam completed February 1940; water in reservoir and first reached minimum pool elevation Feb. 23, 1940. Total capacity (based on 1965 resurvey) is 218,800 ft<sup>3</sup>/s-day at 1,526.5 ft (top of gate), of which 154,300 ft<sup>3</sup>/s-day is controlled storage above 1,450.0 ft, normal minimum pool elevation. Reservoir is used for navigation, floodcontrol, and power. New capacity table put into use Jan. 1, 1971.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum content observed: 223,400 ft<sup>3</sup>/s-day, May 28, 1973; elevation, 1,528.02 ft. Minimum content observed (after first filling): 35,800 ft<sup>3</sup>/s-day, Jan. 28, 1948; elevation, 1,413.41 ft.

EXTREMES FOR CURRENT YEAR.--Maximum content observed: 182,400 ft<sup>3</sup>/s-day, Aug. 4; elevation, 1,514.41 ft. Minimum content observed: 77,200 ft<sup>3</sup>/s-day, Jan. 4; elevation, 1,460.85 ft.

**OTHER RESERVOIRS**

The following smaller reservoirs in the Tennessee River basin are described below. Records of content are not published herein.

**03447832 LAKE JULIAN**

LOCATION.--Lat 35°28'37", long 82°32'51", Buncombe County, Hydrologic Unit 06010105, on Pollees Creek near Skyland.

DRAINAGE AREA.--4.78 mi<sup>2</sup>.

PERIOD OF RECORD.--Prior to November 1967 published as Asheville Steam-Electric Generating Plant Lake.

REMARKS.--Total capacity is 4,540 ft<sup>3</sup>/s-day, of which 2,120 ft<sup>3</sup>/s-day is controlled storage. Filling began Mar. 27, 1963, and lake reached spillway elevation, 2,160 ft, June 3, 1963. Most of initial storage and occasional, supplemental storage provided by pumped diversion from French Broad River. Lake is a cooling-water reservoir for Carolina Power and Light Co. plant.

**03448959 BURNETT LAKE**

LOCATION.--Lat 35°39'44", long 82°20'43", Buncombe County, Hydrologic Unit 06010105, on North Fork Swannanoa River near Black Mountain.

DRAINAGE AREA.--21.9 mi<sup>2</sup>.

REMARKS.--Total capacity at crest of spillway is 11,600 ft<sup>3</sup>/s-day, of which 8,900 ft<sup>3</sup>/s-day is controlled storage. Filling began Jan. 28, 1954. Lake is part of Asheville's municipal water supply. (See station 03451000.)

**03450134 BEETREE RESERVOIR**

LOCATION.--Lat 35°38'27", long 82°24'04", Buncombe County, Hydrologic Unit 06010105, on Beetree Creek near Swannanoa.

DRAINAGE AREA.--7.62 mi<sup>2</sup>.

REMARKS.--Total capacity is 844 ft<sup>3</sup>/s-day, of which 823 ft<sup>3</sup>/s-day is controlled storage. Dam completed December 1926, and filling began Jan. 11, 1927; water in reservoir first reached maximum pool elevation Mar. 8, 1927. Lake is part of Asheville's municipal water supply. (See station 034577330.)

**03455773 LAKE LOGAN**

LOCATION.--Lat 35°25'15", long 82°55'30", Haywood County, Hydrologic Unit 06010106, on West Fork Pigeon River near Canton and at river mile 7.0.

DRAINAGE AREA.--33.3 mi<sup>2</sup>.

REMARKS.--Total capacity is 1,040 ft<sup>3</sup>/s-day (top of flashboards), all of which is usable. Filling began November 1931. (See station 0345577330.)

**03458319 LAKE JUNALUSKA**

LOCATION.--Lat 35°31'38", long 82°57'48", Haywood County, Hydrologic Unit 06010106, on Richland Creek at Lake Junaluska and at river mile 2.4.

DRAINAGE AREA.--63.6 mi<sup>2</sup>.

REMARKS.--Total surface area is about 195 acres. The lake reached spillway elevation in the spring of 1913.

**03500466 SEQUOYAH LAKE**

LOCATION.--Lat 35°04'02", long 83°13'31", Macon County, Hydrologic Unit 06010202, on Cullasaja River near Highlands, and at river mile 18.4.

DRAINAGE AREA.--14.4 mi<sup>2</sup>.

REMARKS.--Total capacity is 233 ft<sup>3</sup>/s-day (at crest of spillway), of which approximately 116 ft<sup>3</sup>/s-day is usable. Filling began in 1926.

## LAKES AND RESERVOIRS IN OHIO RIVER BASIN

**03504500 NANTAHALA LAKE**

LOCATION.--Lat 35°11'56", long 83°39'17", Macon County, Hydrologic Unit 06010202, at Nantahala Dam on Nantahala River, 5.5 mi upstream from Whiteoak Creek, 4.2 mi southeast of Topton, and at river mile 22.8.

DRAINAGE AREA.--91.0 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1942 to September 1995. Prior to October 1944 monthend content only, published in WSP 1306.

REMARKS.--Reservoir is formed by rockfill dam with side-channel, gate-controlled spillway supplemented by fuse-plug dam. Dam completed and filling began Jan. 30, 1942; water in reservoir first reached minimum pool elevation Feb. 16, 1942. Total capacity (based on 1969 resurvey) is 69,200 ft<sup>3</sup>/s-day at 2,890.0 ft (top of gates), of which 63,500 ft<sup>3</sup>/s-day is controlled storage above 2,758.84 ft, normal minimum pool elevations. Reservoir is used for flood control and power. New capacity table put into use Jan. 1, 1971.

**03507111; 03507131 EAST FORK LAKE AND WOLF CREEK LAKE**

These two reservoirs are operated as a unit for storage of water for the Tennessee Creek Project.

**EAST FORK DAM**

LOCATION.--Lat 35°12'48", long 83°00'08", Jackson County, Hydrologic Unit 06010203, on Tuckasegee River near Tuckasegee.

DRAINAGE AREA.--24.9 mi<sup>2</sup>.

REMARKS.--Total capacity of East Fork Lake is 671 ft<sup>3</sup>/s-day, of which 625 ft<sup>3</sup>/s-day is controlled storage. Filling began April 18, 1955.

**WOLF CREEK DAM**

LOCATION.--Lat 35°13'18", long 83°00'00", on Wolf Creek near Tuckasegee.

DRAINAGE AREA.--15.2 mi<sup>2</sup>.

REMARKS.--Total capacity of Wolf Creek Lake is 5,070 ft<sup>3</sup>/s-day, of which 3,850 ft<sup>3</sup>/s-day is controlled storage. Filling began Mar. 22, 1955.

**03507216 BEAR CREEK LAKE**

LOCATION.--Lat 35°14'29", long 83°04'22", Jackson County, Hydrologic Unit 06010203, on Tuckasegee River near Tuckasegee.

DRAINAGE AREA.--74.8 mi<sup>2</sup>.

REMARKS.--Total capacity is 17,500 ft<sup>3</sup>/s-day, of which 2,290 ft<sup>3</sup>/s-day is controlled storage. Filling began Oct. 9, 1953.

**03507289 CEDAR CLIFF LAKE**

LOCATION.--Lat 35°15'12", long 83°05'58", Jackson County, Hydrologic Unit 06010203, on Tuckasegee River near Tuckasegee and at river mile 51.9.

DRAINAGE AREA.--80.3 mi<sup>2</sup>.

REMARKS.--Total capacity is 3,200 ft<sup>3</sup>/s-day, of which 350 ft<sup>3</sup>/s-day is controlled storage. Filling began Apr. 26, 1952.

**03507500 THORPE RESERVOIR**

LOCATION.--Lat 35°11'46", long 83°09'09", Jackson County, Hydrologic Unit 06010203, at Thorpe Dam on West Fork Tuckasegee River, 3.0 mi upstream from Shoal Creek, and 2.3 mi northwest of Glenville, and at river mile 9.7.

DRAINAGE AREA.--36.7 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1941 to September 1995. Prior to October 1944 monthend content only, published in WSP 1306. Prior to October 1948, published as Glenville Reservoir.

REMARKS.--Reservoir is formed by earth and rock dam and six 40 ft fuse-plug dams with side-channel spillway equipped with two taintor gates 12 ft high by 25 ft wide. Dam completed and storage began Feb. 12, 1941. Water in reservoir first reached minimum pool elevation Mar. 15, 1941. Total capacity (based on 1969 resurvey) is 35,500 ft<sup>3</sup>/s-day, at 3,100.0 ft (top of gate), of which 33,700 ft<sup>3</sup>/s-day is controlled storage above 3,023.25 ft, normal minimum pool elevation. Reservoir is used for flood control and power. New capacity table put into use Jan. 1, 1971.

**03515152 CHEOAH LAKE**

LOCATION.--Lat 35°26'54", long 83°56'11", Graham County, Hydrologic Unit 06010202, on Little Tennessee River at Cheoah and at river mile 51.4.

DRAINAGE AREA.--1,608 mi<sup>2</sup>.

REMARKS.--Total capacity is 17,700 ft<sup>3</sup>/s-day, of which 920 ft<sup>3</sup>/s-day is controlled storage. Filling began Dec. 8, 1918.

**03516500 SANTEETLAH LAKE**

LOCATION.--Lat 35°22'38", long 83°52'33", Graham County, Hydrologic Unit 06010204, at Santeetlah Dam on Cheoah River, 1.0 mi downstream from Santeetlah Creek, 5.5 mi northwest of Robbinsville, and at river mile 9.3.

DRAINAGE AREA.--176 mi<sup>2</sup>.

PERIOD OF RECORD.--December 1927 to September 1995. Prior to October 1946 monthend content only, published in WSP 1306.

REMARKS.--Reservoir is formed by concrete gravity and arch dam with concrete spillway controlled by six taintor gates 12 ft high by 25 ft wide. Dam completed and filling began Dec. 7, 1927. Water in reservoir first reached minimum pool elevation December 1927. Total capacity (new capacity table put into use Jan. 1, 1971) is 78,800 ft<sup>3</sup>/s-day (top of gate) at elevation 1,817.0 ft, of which 66,600 ft<sup>3</sup>/s-day is controlled storage above 1,740.08 ft, normal minimum pool elevation. Reservoir is used for power.

## LAKES AND RESERVOIRS IN OHIO RIVER BASIN

**03555500 APPALACHIA LAKE**

LOCATION.--Lat 35°10'04", long 84°17'49", Cherokee County, Hydrologic Unit 06020002, at Appalachia Dam on Hiwassee River, 9.8 mi downstream from Hiwassee Dam, 0.1 mi upstream from North Carolina-Tennessee State line, 1.5 mi northeast of Farner, Tennessee, and at river mile 66.0.

DRAINAGE AREA.--1,018 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1943 to September 1995.

REMARKS.--Reservoir is formed by concrete gravity dam. Spillway is equipped with 10 radial gates. Dam completed and filling began Feb. 14, 1943; water in reservoir first reached minimum pool elevation Feb. 21, 1943. Total capacity (based on 1965 resurvey) is 29,100 ft<sup>3</sup>/s-day at 1,280.0 ft (top of gate), of which 4,400 ft<sup>3</sup>/s-day is controlled storage above 1,272.0 ft, normal minimum pool elevation. Reservoir is used for navigation, flood control, and power. New capacity table put into use Jan. 1, 1971.

## LAKES AND RESERVOIRS IN OHIO RIVER BASIN

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Elevation (feet)	Contents (cfs- days)	Change in contents (cfs- days)	Gage height (feet)	Contents (cfs- days)	Change in contents (cfs- days)
		03460242 Waterville Lake				03524500 Fontana Lake
Sept. 30	2,244.10	10,540	---	1,633.46	398,700	---
Oct. 31	2,247.50	11,070	+530	1,589.92	273,500	-125,200
Nov. 30	2,249.00	11,300	+230	1,584.31	260,300	-13,200
Dec. 31	2,249.00	11,300	0	1,593.89	283,300	+23,000
CAL YR 2000		---	+250		---	-87,600
Jan. 31	2,249.30	11,350	+50	1,620.93	358,800	+75,500
Feb. 28	2,249.80	11,430	+80	1,643.00	431,500	+72,700
Mar. 31	2,250.30	11,510	+80	1,659.14	492,200	+60,700
Apr. 30	2,251.90	11,760	+250	1,677.55	568,900	+76,700
May 31	2,255.20	12,290	+530	1,685.87	606,500	+37,600
June 30	2,255.90	12,400	+110	1,692.02	635,500	+29,000
July 31	2,251.00	11,620	-780	1,696.04	655,200	+19,700
Aug. 31	2,247.50	11,070	-550	1,685.93	606,800	-48,400
Sept. 30	2,253.30	11,980	-910	1,676.34	563,600	-43,200
WTR YR 2001		---	-380		---	+164,900
Date	Gage height (feet)	Contents (cfs- days)	Change in contents (cfs- days)	Elevation (feet)	Contents (cfs- days)	Change in contents (cfs- days)
		03546500 Chatuge Lake				03554500 Hiwasee Lake
Sep. 30	1,917.28	87,700	---	1,497.62	140,700	---
Oct. 31	1,914.12	79,500	-8,200	1,482.83	111,300	-29,400
Nov. 30	1,913.23	77,300	-2,200	1,469.51	89,000	-22,300
Dec. 31	1,911.03	72,100	-5,200	1,462.86	79,700	-9,300
CAL YR 2000		---	-100		---	+200
Jan. 31	1,913.09	77,000	+4,900	1,469.26	88,600	+8,900
Feb. 28	1,915.04	81,800	+4,800	1,477.50	102,000	+13,400
Mar. 31	1,918.13	90,000	+8,200	1,490.54	125,600	+23,600
Apr. 30	1,919.78	94,700	+4,700	1,498.69	143,200	+17,600
May 31	1,920.40	96,500	+1,800	1,506.30	161,500	+18,300
June 30	1,921.81	100,700	+4,200	1,512.75	178,000	+16,500
July 31	1,922.04	101,400	+700	1,513.32	179,500	+1,500
Aug. 31	1,919.49	93,900	-7,500	1,508.36	166,700	-12,800
Sept. 30	1,917.92	89,500	-4,400	1,503.17	153,800	-12,900
WTR YR 2001		---	+1,800		---	+13,100

## MEASUREMENTS AT LOW-FLOW PARTIAL-RECORD SITES

Measurements of streamflow made at low-flow partial-record stations in the area covered by this report are given in the following table. These measurements were made during periods of base flow when streamflow is primarily from ground-water storage. When correlated with the simultaneous discharge of a nearby stream where continuous records are available, these measurements provide an indicator of a stream's low-flow potentiality. The column headed by "Measured Previously" lists the water years in which measurements were made at or close to the same site.

Station Number and Stream	Tributary to	Location	Drainage area (mi <sup>2</sup> )	Measured previously (water years)	Measurements	
					Date	Discharge (ft <sup>3</sup> /s)
DISCHARGE MEASUREMENTS MADE AT LOW-FLOW PARTIAL-RECORD SITES DURING WATER YEAR 2001, IN ATLANTIC SLOPE BASINS						
CAPE FEAR RIVER BASIN						
02093500 Haw River	Cape Fear River	Lat 36°15'06", long 79°33'55", Rockingham County, Hydrologic Unit 03030002, on Secondary Road 2620, 6 mi below Troublesome Creek, and 6 mi east of Benaja.	168	1928-71 <sup>†</sup>	10-23-00	26.6
02093549 Haw River	Cape Fear River	Lat 36°10'57", long 79°30'37", Alamance County, Hydrologic Unit 03030002, on State Highway 87, at Altamahaw, and 1.2 mi downstream from Reedy Fork.	188	1967-74	10-23-00	25.3
0209374850 Reedy Fork	Haw River	Lat 36°08'00", long 80°00'52", Guilford County, Hydrologic Unit 03030002, at Secondary Road 1858, 3.1 mi south southwest of Oak Ridge, and 3.5 mi above Beaver Creek.	4.91	1973-74, 1976-77	10-23-00	1.89
0209555450 Buffalo Creek	Reedy Fork	Lat 36°09'11", long 79°36'51", Guilford County, Hydrologic Unit 03030002, on Secondary Road 2719, 1.5 mi upstream from mouth, 5.0 mi northwest of Gibonsville, and 5.0 mi south of Osceola.	97.4	1986-1987 <sup>†</sup>	10-24-00	71.6
02095608 Reedy Fork	Haw River	Lat 36°10'44", long 79°34'36", Guilford County, Hydrologic Unit 03030002, on State Highway 61, 1.7 mi downstream from Buffalo Creek, and 3.6 mi south of Osceola (also, 3.5 mi northwest of Ossipee).	243	1969-71, 1973, 1989 1986-1987 <sup>†</sup>	10-24-00	83.3
02095716 Haw River	Cape Fear River	Lat 36°09'10", long 79°29'23", Alamance County, Hydrologic Unit 03030002, on Secondary Road 1530, 0.9 mi upstream from Travis Creek, and 2.0 mi southeast of Ossipee.	452	1969-71, 1973	10-23-00	94.8
02096587 Haw River	Cape Fear River	Lat 36°01'33", long 79°22'05", Alamance County, Hydrologic Unit 03030002, on Secondary Road 2158, 0.3 mi northwest of Sweponville, and 0.5 mi upstream of Alamance Creek.	697	1969, 1971, 1975	10-24-00	176
02096811 Big Alamance Creek	Haw River	Lat 36°01'25", long 79°23'33", Alamance County, Hydrologic Unit 03030002, on State Highway 87, 0.2 mi downstream from Little Alamance Creek, and 2.9 mi east of Bellemont.	260	1969, 1973	10-24-00	18.7

<sup>†</sup> Operated as a continuous-record gaging station.

## MEASUREMENTS AT LOW-FLOW PARTIAL-RECORD SITES

These measurements and others collected for special reasons are called measurements at miscellaneous sites. Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table.

Station Number and Stream	Tributary to	Location	Drainage area (mi <sup>2</sup> )	Measured previously (water years)	Measurements	
					Date	Discharge (ft <sup>3</sup> /s)
DISCHARGE MEASUREMENTS MADE AT LOW-FLOW PARTIAL-RECORD SITES DURING WATER YEAR 2001, IN ATLANTIC SLOPE BASINS						
CAPE FEAR RIVER BASIN						
02098198 Haw River	Cape Fear River	Lat 35°39'11", long 79°04'03", Chatham County, Hydrologic Unit 03030002, 300 ft downstream from dam at B. Everett Jordan Lake, 2.5 mi north of Moncure, and 4.2 mi upstream from mouth	1,689	1965-92 <sup>†</sup> 1992-2000 <sup>‡</sup>	10-25-00	560
02103550 Little River	Cape Fear River	Lat 35°15'49", long 78°44'26", Harnett County, Hydrologic Unit 03030004, on State Highway 217, 0.5 mi downstream from Stewarts Creek, and 0.5 mi north of Linden.	472	1974, 1976, 1979	10-24-00	110
02104000 Cape Fear River	Atlantic Ocean	Lat 35°02'49", long 78°51'36", Cumberland County, Hydrologic Unit 03030004, on Person Street, at Fayetteville, and 0.3 mi below Cross Creek.	4,395	1889-1917 <sup>†</sup> , 1928-40 <sup>†</sup> , 1986-2000 <sup>‡</sup>	10-24-00	796
0210563128 Turnbull Creek	Cape Fear River	Lat 34°33'49", long 78°33'26", Bladen County, Hydrologic Unit 03030005, on State Highway 41, 3.0 mi upstream from mouth, and 3.0 mi northeast of Elizabethtown.	81.4	1985-93	10-24-00	19.1
02107581 Northeast Cape Fear River	Cape Fear River	Lat 35°11'10", long 78°03'00", Duplin County, Hydrologic Unit 03030007, on Secondary Road 1004, 0.5 mi upstream from Barlow Branch, and 1.5 mi southeast of Mount Olive.	3.91	1956, 1973	10-23-00	5.80
2107586 Northeast Cape Fear River	Cape Fear River	Lat 35°11'28", long 78°01'05", Wayne County, Hydrologic Unit 03030007, on Secondary Road 1937, 1.5 mi downstream from Barlow Branch, and 3 mi east of Mount Olive.	10.5	1973, 1975-76, 1978-79	10-23-00	9.00
02107600 Northeast Cape Fear River	Cape Fear River	Lat 35°10'20", long 77°55'56", Wayne County, Hydrologic Unit 03030007, on Secondary Road 1948, 4.5 mi above Buck Marsh, and 6 mi southwest of Seven Springs.	48.5	1958-75	10-23-00	30.5
0210761250 Northeast Cape Fear River	Cape Fear River	Lat 35°06'02", long 77°49'59", Duplin County, Hydrologic Unit 03030007, at Secondary Road 1519, 0.5 mi upstream from Matthews Sawyer Branch, and 3 mi north of Kornegay.	104	1973  1980	10-24-00	68.4

<sup>†</sup> Operated as a continuous-record gaging station (discharge).

<sup>‡</sup> Operated as a continuous-record gaging station (gage height only).

## MEASUREMENTS AT LOW-FLOW PARTIAL-RECORD SITES

These measurements and others collected for special reasons are called measurements at miscellaneous sites. Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table.

Station Number and Stream	Tributary to	Location	Drainage area (mi <sup>2</sup> )	Measured previously (water years)	Measurements	
					Date	Discharge (ft <sup>3</sup> /s)
DISCHARGE MEASUREMENTS MADE AT LOW-FLOW PARTIAL-RECORD SITES DURING WATER YEAR 2001, IN ATLANTIC SLOPE BASINS						
CAPE FEAR RIVER BASIN						
02107672 Northeast Cape Fear River	Cape Fear River	Lat 35°03'10", long 77°50'17", Duplin County, Hydrologic Unit 03030007, on State Highway 11, 0.2 mi upstream from Burn Coal Branch, and 0.8 mi southwest of Kornegay.	120	1956, 1971, 1974, 1976, 1978,	10-24-00	42.3
02107838 Goshen Swamp	Northeast Cape Fear River	Lat 35°01'40", long 78°51'05", Duplin County, Hydrologic Unit 03030007, 0.25 mi above State Highway 11, 1.0 mi above mouth, and 2.5 mi southwest of Kornegay.	179	1956	10-24-00	4.85
02108566 Northeast Cape Fear River	Cape Fear River	Lat 34°35'55", long 77°52'32", Pender County, Hydrologic Unit 03030007, at State Highway 53, 3.9 miles above Holly Shelter Creek, and 4.5 miles east of Burgaw	920	1999-2001 <sup>‡</sup>	10-27-00	95.0
0210857065 Holly Shelter Creek	Northeast Cape Fear River	Lat 34°39'25", long 77°41'22", Pender County, Hydrologic Unit 03030007, at State Highway 50, at Maple Hill.	27.1		10-27-00	0

<sup>‡</sup> Operated as a continuous-record gaging station (gage height only).

## MEASUREMENTS AT MISCELLANEOUS SITES

These measurements and others collected for special reasons are called measurements at miscellaneous sites. Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table.

Station Number and Stream	Tributary to	Location	Drainage area (mi <sup>2</sup> )	Measured previously (water years)	Date	Discharge (ft <sup>3</sup> /s)
DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2001, IN ATLANTIC SLOPE BASINS						
CAPE FEAR RIVER BASIN						
02093250 Haw River	Cape Fear River	Lat 36°12'47", long 79°57'24", Guilford County, Hydrologic Unit 03030002, on Secondary Road 2109, 0.2 mi downstream of Rocky Branch, and 3.3 mi northeast of Oak Ridge.	14.1	1971, 1973, 1984, 1986-2000	10-23-00, 3-28-01, 9-28-01	2.56, 10.5, 0.26
02093423 Little Troublesome Creek	Haw River	Lat 36°16'53", long 79°36'37", Rockingham County, Hydrologic Unit 03030002, at bridge on Secondary Road 2600, 0.8 mi west of Thompsonville, and 1 mi upstream from mouth.	13.0 <sup>a</sup>	1970-73, 1976-77, 1996-2000	11-2-00, 3-7-01, 6-12-01, 9-7-01	2.63, 7.29, 3.64, 0.52
02095091 South Buffalo Creek	Buffalo Creek	Lat 36°06'45", long 79°40'19", Guilford County, Hydrologic Unit 03030002, at bridge on Secondary Road 2821, 0.8 mi northwest of McLeansville, and 1.4 mi upstream from mouth.	43.5	1969-70, 1973, 1976-81, 1983-89, 1991-2000	1-3-01, 3-29-01, 9-27-01	61.9, 45.4, 35.0
02095681 Reedy Fork	Haw River	Lat 36°10'23", long 79°30'38", Alamance County, Hydrologic Unit 03030002, at bridge on State Highway 87 at Ossipee, and 0.5 mi upstream from mouth.	256	1969-70, 1973, 1976-2000	10-28-00, 3-8-01, 6-12-01, 9-7-01	76.6, 69.3, 78.8, 69.6
02096230 Jordan Creek	Stony Creek	Lat 36°11'20", long 79°23'43", Alamance County, Hydrologic Unit 03030002, at bridge on Secondary Road 1754, 1.0 mi south of Union Ridge, and 2.0 mi above mouth.	24.1	1949-57, 1959-62, 1966, 1997-2000	11-2-00, 3-8-01, 6-12-01, 9-7-01	1.34, 15.2, 3.15, 0.14
02096879 Haw River	Cape Fear River	Lat 35°53'43", long 79°15'31", Alamance County, Hydrologic Unit 03030002, at bridge on Secondary Road 1005, 0.7 mi upstream from Cane Creek, and 5.8 mi north of Terrells.	1082	1974-75, 1979-86, 1989-91, 1993, 1996-2000	10-25-00, 4-12-01, 7-17-01, 8-29-01	186, 829, 144, 178
02097521 Morgan Creek	New Hope River	Lat 35°51'48", long 79°00'35", Chatham County, Hydrologic Unit 03030002, at bridge on Secondary Road 1726, 2 mi upstream from Cub Creek, and 4 mi north of Farrington.	45.6	1970, 1973, 1976, 1978, 1980-2000	12-5-00, 3-7-01, 6-7-01, 8-29-01	13.8, 56.3, 27.3, 17.1
02099484 Richland Creek	Deep River	Lat 35°56'26", long 79°54'08", Guilford County, Hydrologic Unit 03030003, at bridge on Secondary Road 1147, 0.2 mi upstream from mouth, and 4 mi southwest of Groomtown.	16.2	1971, 1973-76, 1978-2000	9-28-01	15.0

<sup>a</sup> Approximately.

## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2001--Continued

Station Number and Stream	Tributary to	Location	Drainage area (mi <sup>2</sup> )	Measured previously (water years)	Measurements	
					Date	Discharge (ft <sup>3</sup> /s)
CAPE FEAR RIVER BASIN--Continued						
02101001 Bear Creek	Deep River	Lat 35°26'26", long 79°35'20", Moore County, Hydrologic Unit 03030003, at bridge on State Highway 705, 0.5 mi north of Robbins, and 1 mi downstream of Cabin Creek.	139	1973-74, 1985-2000	11-22-00	35.5
					3-2-01	37.2
					6-4-01	47.9
					8-22-01	14.1
0210102530 Deep River	Cape Fear River	Lat 35°28'40", long 79°31'12", Moore County, Hydrologic Unit 03030004, at State Highway 22 near High Falls.	792	1993-94, 1997, 1999	10-30-00	23.6
					8-22-01	36.1
02102634 Upper Little River	Cape Fear River	Lat 35°19'33", long 78°43'26", Harnett County, Hydrologic Unit 03030004, at bridge on Secondary Road 2021, 1.5 mi upstream from mouth, and 2.8 mi west of Erwin.	217	1968, 1974-76, 1979, 1985-2000	10-24-00	23.4
					4-2-01	841
					6-1-01	54.4
					8-23-01	140
02102897 Lower Little River	Cape Fear River	Lat 35°12'13", long 79°12'59", Moore County, Hydrologic Unit 030300004, at bridge on Secondary Road 2023, 0.5 mi above James Creek, 1.0 mi southwest of Lobelia.	110	1997-2000	11-14-00	29.6
					4-6-01	155
					6-1-01	32.8
					8-23-01	20.7
02103000 Little River	Cape Fear River	Lat 35°11'38", long 78°59'14", Cumberland County, Hydrologic Unit 03030004, at bridge on State Highway 87 at Manchester, and 0.3 mi upstream from Tank Creek.	347	1939-50 <sup>†</sup> , 1978, 1980-2000	11-14-00	186
					4-6-01	3.62
					6-1-01	126
					8-23-01	122
02104279 Rockfish Creek	Cape Fear River	Lat 34°58'10", long 79°06'40", Hoke County, Hydrologic Unit 03030004, at bridge on Secondary Road 1432, 0.2 mi downstream of Puppy Creek, and 1.2 mi northeast or Arabia.	150 <sup>a</sup>	1973-74, 1978, 1980-91, 1997-2000	11-14-00	123
					4-6-01	145
					6-1-01	105
					8-23-01	97.8
PEE DEE RIVER BASIN						
02115860 Muddy Creek	Yadkin River	Lat 36°00'01", long 80°20'25", Forsyth County, Hydrologic Unit 03040101, 100 ft upstream from bridge on Secondary Road 2995, 0.2 mi downstream of Salem Creek and 1.8 mi east of Muddy Creek.	186	1964-87, 1988-93, 1996-2000	10-10-00	70.5
					4-16-01	115
					6-4-01	95.0
					8-6-01	59.0
02120521 Third Creek	South Yadkin River	Lat 35°46'13", long 80°37'34", Rowan County, Hydrologic Unit 03040102, at bridge on Secondary Road 1970, and 2.2 mi west of Woodleaf.	96.6	1985-2000	10-19-00	17.9
					2-05-01	31.3
					5-16-01	28.7
					8-06-01	18.8

<sup>†</sup> Operated as a continuous-record gaging station.

<sup>a</sup> Approximately.

## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2001--Continued

Station Number and Stream	Tributary to	Location	Drainage area (mi <sup>2</sup> )	Measured previously (water years)	Measurements	
					Date	Discharge (ft <sup>3</sup> /s)
PEE DEE RIVER BASIN--Continued						
0212147355 Rich Fork Creek	Abbotts Creek	Lat 35°55'36", long 80°07'31", Davidson County, Hydrologic Unit 03040103, at bridge on Secondary Road 1800, 1.4 mi downstream of High Point sewage disposal plant, and 3.9 mi northwest of Thomasville.	26.6	1970-75, 1981-84, 1986-90, 1993-99	10-14-99	18.3
					2-7-00	28.4
					5-4-00	13.1
02123500 Uwharrie River	Pee Dee River	Lat 35°25'47", long 80°01'05", Montgomery County, Hydrologic Unit 03040103, at State Highway 109, 1 mi upstream from McLeans Creek, and 3 mi south of Eldorado.	342	1938-71 <sup>†</sup> , 1981-2000	10-18-00	12.9
					2-2-01	35.5
					6-13-01	22.4
02123881 Rocky River	Pee Dee River	Lat 35°28'29", long 80°46'48", Mecklenburg County, Hydrologic Unit 03040105, at bridge on Secondary Road 1608, 1.3 mi upstream from West Branch, and 4.2 mi southeast of Davidson	13.4	1970-2000	10-17-00	3.39
					2-9-01	8.02
02124374 Irish Buffalo Creek	Rocky River	Lat 35°20'50", long 80°32'52", Cabarrus County, Hydrologic Unit 03040105, at bridge on Secondary Road 1132, 1 mi south of Faggarts Crossroads, and 1 mi upstream from mouth.	45.4	1974-84, 1986-2000	10-13-00	5.94
					3-12-01	12.4
					8-8-01	3.78
02124401 Rocky River	Pee Dee River	Lat 35°19'26", long 80°30'59", Cabarrus County, Hydrologic Unit 03040105, at bridge on U.S. Highway 601, 1 mi upstream from Hamby Branch, and 3 mi southeast of Faggarts Crossroads.	393	1970-71, 1973-2000	10-13-00	64.5
					2-9-01	93.6
02125126 Long Creek	Rocky River	Lat 35°13'05", long 80°15'28", Stanly County, Hydrologic Unit 03040105, at bridge on Secondary Road 1917, 1 mi upstream from mouth, and 4 mi east of Oakboro.	198	1970-71, 1973-2000	2-2-01	40.2
					5-2-01	34.1
02125482 Richardson Creek	Rocky River	Lat 35°04'16", long 80°24'25", Union County, Hydrologic Unit 03040105, at bridge on Secondary Road 1649, 1.2 mi downstream of Watson Creek, and 1.5 mi northwest of Fairfield.	153	1961-62, 1981-84, 1986-2000	10-18-00	8.70
					2-16-01	20.5
					5-24-01	9.08
02129341 Hitchcock Creek	Pee Dee River	Lat 34°55'05", long 79°47'50", Richmond County, Hydrologic Unit 03040201, downstream of dam at Cordova, and 1.2 mi upstream from mouth.	134	1970-71, 1974, 1979-84, 1986-2000	10-18-00	38.1
					2-16-01	111
					5-24-01	26.8
					8-30-01	12.2

<sup>†</sup> Operated as a continuous-record gaging station.

## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2001--Continued

Station Number and Stream	Tributary to	Location	Drainage area (mi <sup>2</sup> )	Measured previously (water years)	Measurements	
					Date	Discharge (ft <sup>3</sup> /s)
PEE DEE RIVER BASIN--Continued						
02129527 Jones Creek	Pee Dee River	Lat 34°54'15", long 79°55'51", Anson County, Hydrologic Unit 03040201, at bridge on State Highway 145, 2.9 mi downstream of Hale Creek, and 3.1 mi southwest of Pee Dee.	92.8	1985-2000	10-18-00	14.9
					2-16-01	54.9
					5-24-01	8.74
					8-30-01	0.45
0212955844 Marks Creek	Pee Dee River	Lat 34°51'45", long 79°43'09", Richmond County, Hydrologic Unit 03040201, at bridge on Secondary Road 1812, 1.3 mi downstream of City Lake spillway, and 2.4 mi southwest of Hamlet.	12.9	1970-71, 1979-84, 1986-2000	10-18-00	2.81
02132269 Leith Creek	Little Pee Dee River	Lat 34°44'37", long 79°25'13", Scotland County, Hydrologic Unit 03040204 at bridge on Secondary Road 1609, 4 mi west of Maxton, and 5.4 mi upstream from mouth.	21.8	1973-75, 1979-92, 1995-2000	1-7-01	8.73
					4-5-01	14.7
					7-12-01	1.01
					8-21-01	12.4
SANTEE RIVER BASIN						
02141245 Lower Creek	Catawba River	Lat 35°49'31", long 81°38'10", Burke County, Hydrologic Unit 03050102, at bridge on Secondary Road 1501, 0.8 mi downstream of Husband Creek, and 7 mi northeast of Morganton.	89.5	1949-50, <sup>b</sup> 1964-69, <sup>b</sup> 1972-73, 1975-84, 1986-92, 1993-94, <sup>†</sup> 1995-2000	10-18-00	33.3
					1-23-01	79.5
					5-1-01	51.9
0214272204 Dutchmans Creek	Catawba River	Lat 35°20'10", long 81°00'50", Gaston County, Hydrologic Unit 03050102, at bridge on Secondary Road 1918, and 0.7 mi west of Mountain Island.	116	1986-2000	10-5-00	22.9
					2-7-01	38.0
					6-21-01	18.0
02143027 Henry Fork	South Fork Catawba River	Lat 35°39'27", long 81°18'33", Catawba County, Hydrologic Unit 03050102, at bridge on Secondary Road 1143, 1.7 mi upstream from mouth and 2.5 mi northwest of Startown.	110	1970-71, 1973-74, 1978-80, 1996-2000	10-24-00	35.8
					1-24-01	95.2
					5-1-01	78.1
					9-28-01	41.4
02143069 South Fork Catawba River	Catawba River	Lat 35°37'58", long 81°18'20", Catawba County, bridge on State Highway 10, 1 mile downstream from Henry Fork, and 2.2 miles west of Startown.	210	1974-77, 1979-88, 1991-93, 1997-2000	10-24-00	69.6
					1-24-01	158
					5-4-01	104
					9-28-01	57
02143260 Clark Creek	South Fork Catawba River	Lat 35°28'30", long 81°16'00", Lincoln County, Hydrologic Unit 03050102, at bridge on Secondary Road 1008 at Lincolnton, and 0.2 mi upstream from mouth.	91.2	1947, 1949-57, 1962-64, 1970-72, 1975, 1978-2000	10-19-00	29.4
					2-6-01	40.9
					6-6-01	33.2

<sup>b</sup> Baseflow.<sup>†</sup> Operated as a continuous-record gaging station.

## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2001--Continued

Station Number and Stream	Tributary to	Location	Drainage area (mi <sup>2</sup> )	Measured previously (water years)	Measurements	
					Date	Discharge (ft <sup>3</sup> /s)
SANTEE RIVER BASIN--Continued						
02145640 Crowders Creek	Catawba River	Lat 35°08'15", long 81°08'15", York County, South Carolina, Hydrologic Unit 03050101, at bridge on Ridge Road, 3.4 mi upstream from Beaver Dam Creek, and 3.2 mi east-southeast of Bowling Green, South Carolina.	89	1970-77, 1979-91, 1996-2000	10-17-00	20.5
					2-15-01	38.5
					8-21-01	9.63
0214676115 McAlpine Creek	Sugar Creek	Lat 35°03'12", long 80°53'06", Lancaster County, South Carolina, Hydrologic Unit 03050103, at bridge on Secondary Road 2964, 0.5 mi north of Camp Cox, South Carolina, 0.6 mi above Sugar Creek, and 1.0 mi below North Carolina-South Carolina state line.	95.4	1996-2000	10-15-00	15.5
					2-15-01	74.4
02146800 Sugar Creek	Catawba River	Lat 35°00'21", long 80°54'09", York County, Hydrologic Unit 03050103, at bridge on State Highway 160, 0.7 mi downstream from Clems Branch, and 2.6 mi east of Fort Mill, S.C.	262	1969, 1974-78 <sup>†</sup> , 1982-2000	10-17-00	93.0
					2-15-01	176
					8-21-01	98.4
02152596 First Broad River	Broad River	Lat 35°13'03", long 81°36'28", Cleveland County, Hydrologic Unit 03050105, at bridge on Secondary Road 1140, 3 mi upstream from mouth, and 4.8 mi northwest of Earl.	296	1968-77, 1980-2000	10-23-00	65.6
					1-25-01	170
					4-17-01	180
02153456 Buffalo Creek	Broad River	Lat 35°10'20", long 81°31'02", Cleveland County, Hydrologic Unit 03050105, at bridge on State Highway 198, 0.1 mi upstream from North Carolina-South Carolina State line, and 4 mi west of Grover.	161	1968-77, 1979-2000	10-23-00	71.7
					1-25-01	63.4
					4-17-01	104
					9-27-01	29.2
SAVANNAH RIVER BASIN						
02184242 Horse- pasture River	Toxaway River	Lat 35°05'33", long 82°58'04", Transylvania County, Hydrologic Unit 03060101, at bridge on State Highway 281, and 4 mi southwest of Lake Toxaway.	24.1	1985-2000	10-19-00	12.4
					3-9-01	65.4
					5-3-01	43.5
					9-7-01	45.4
KANAWA RIVER BASIN						
03160271 South Fork New River	New River	Lat 36°13'14", long 81°38'25", Watauga County, Hydrologic Unit 05050001, at bridge on U.S. Highway 421, and 2 mi east of Boone.	34.8	1925, 1955-56, 1960, 1962, 1974-2000	10-4-00	21.4
					1-31-01	47.9
					5-10-01	35.0
					6-5-01	42.7

<sup>†</sup> Operated as a continuous-record gaging station.

## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2001--Continued

Station Number and Stream	Tributary to	Location	Drainage area (mi <sup>2</sup> )	Measured previously (water years)	Measurements	
					Date	Discharge (ft <sup>3</sup> /s)
KANAWA RIVER BASIN--Continued						
03162500	New River	Lat 36°30'14", long 81°23'25", Ashe	277	1930-58 <sup>†</sup> , 1977, 1981-2000	10-10-00	95.8
North Fork		County, Hydrologic Unit 05050001,			4-17-01	319
New River		0.2 mi downstream of bridge on			6-6-01	265
		State Highway 16 at Crumpler, and 6 mi upstream from South Fork.			9-12-01	184
TENNESSEE RIVER BASIN						
03441440	French Broad River	Lat 35°11'32", long 82°36'49", Transylvania County, Hydrologic Unit 06010105, above High Falls, 0.2 mi upstream from Grassy Creek, 1.0 mi downstream from Reasonover Creek, 3.8 mi northeast of Cedar Mountain.	26.8	1963-1990 <sup>†</sup> , 1995-99	5-17-01	30.1
03446569	French Broad River	Lat 35°21'10", long 82°27'51", Henderson County, Hydrologic Unit 06010105, at bridge on Secondary Road 1508, 0.2 mi downstream of Clear Creek, and 0.6 mi northeast of Balfour.	97.4	1968-74, 1977, 1992-2000	10-20-00	39.3
Mud Creek					12-28-00	91.5
					4-20-01	99.2
					9-28-01	70.6
0344776625	Tennessee French Broad River	Lat 35°27'11", long 82°33'00", Buncombe County, Hydrologic Unit 06010105, at Secondary Road 3495 and 2.1 mi southwest of Arden.	652	1993-2000	10-20-00	337
					12-29-00	775
					4-19-01	1070
					8-10-01	809
03457124	French Broad River	Lat 35°32'05", long 82°54'41", Haywood County, Hydrologic Unit 06010106, at bridge on Secondary Road 1818 at Clyde, and 0.2 mi down- stream of Chambers Branch.	162	1969-78, 1980-2000	10-6-00	57.0
					12-28-00	166
					4-19-01	331
					9-17-01	65.6
03458121	Pigeon Richland Creek	Lat 35°30'30", long 82°58'19", Haywood County, Hydrologic Unit 06010106, at bridge on Secondary Road 1184, 0.8 mi upstream from Raccoon Creek, and 1.5 mi northeast of Waynesville.	48.0	1981-2000	10-6-00	16.9
					12-27-00	45.6
					4-19-01	101
					9-17-01	23.7
03461976	Nolichucky North Toe River	Lat 35°58'51", long 82°00'59", Avery County, Hydrologic Unit 06010108, at bridge on U.S. Highway 19E, 0.1 mi downstream of Jones Creek, 0.7 mi north of Ingalls, and at mile 50.9.	74.1	1969-71, 1973-74, 1976-2000	10-19-00	38.3
					3-2-01	112
					5-7-01	82.5
03463021	Nolichucky North Toe River	Lat 35°55'46", long 82°06'57", Mitchell County, Hydrologic Unit 06010108, at bridge on Secondary Road 1162 at Penland, 0.4 mi down- stream of Bear Creek, and at mile 27.6	145	1969-70, 1972-75, 1978, 1982-2000	10-19-00	70.3
					3-2-01	154
					5-7-01	143

<sup>†</sup> Operated as a continuous-record gaging station.

## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2001--Continued

Station Number and Stream	Tributary to	Location	Drainage area (mi <sup>2</sup> )	Measured previously (water years)	Date	Measurements Discharge (ft <sup>3</sup> /s)
TENNESSEE RIVER BASIN--Continued						
03464000 Cane River	Nolichucky River	Lat 36°00'52", long 82°19'40", Yancey County, Hydrologic Unit 06010108, 1.3 mi upstream from North Toe River, and 1.5 mi east of Sioux.	157	1933-71 <sup>†</sup> , 1974-78, 1980-2000	10-25-00 3-5-01 5-8-01	47.4 332 124
03464500 Nolichucky River	French Broad River	Lat 36°04'28", long 82°20'42", Mitchell County, Hydrologic Unit 06010108, at Poplar, and 0.7 mi upstream from Hollow Poplar Creek.	608	1922-45 <sup>†</sup> , 1962-63, 1968-72, 1974-78, 1980-95, 1997-99	10-25-00 5-8-01	224 474
03478819 Watauga River	South Fork Holston River	Lat 36°11'39", long 81°44'45", Watauga County, Hydrologic Unit 06010103, at bridge on State Highway 105, 300 ft upstream from Laurel Fork, and 1.4 mi north of Shulls Mills.	26.6	1971-73, 1975, 1986-2000	10-4-00 12-6-00 5-10-01 6-5-01	21.4 15.8 23.9 21.8
03500466 Cullasaja River	Little Tennessee River	Lat 35°04'02", long 83°13'31", Macon County, Hydrologic Unit 06010202, at Dam, and 2.0 mi northwest of Highlands.	14.4	1999-2000	10-19-00 3-9-01 5-3-01 7-18-01 9-19-01	3.44 41.5 31.2 16.9 11.6
0350116510 Cullasaja River	Little Tennessee River	Lat 35°09'52", long 83°21'37", Macon County, Hydrologic Unit 06010202, at bridge on Secondary Road 1653, 1.7 mi southeast of Franklin.	91.1		3-14-01 5-2-01 6-22-01 8-31-01 9-25-01	212 137 62.5 65.8 272
03502000 Little Tennessee River	Tennessee River	Lat 35°14'01", long 83°23'35", Macon County, Hydrologic Unit 06010202, 0.2 mi upstream from State Highway 28 at Iotla, and 0.2 mi upstream from Iotla Creek.	323	1929-45 <sup>†</sup> , 1972-79, 1982-2000	10-16-00 3-14-01 5-2-01 9-14-01	176 622 429 204
03515633 Cheoah River	Little Tennessee River	Lat 35°20'04", long 83°48'21", Graham County, Hydrologic Unit 06010204, 0.1 mi upstream from Long Creek, and 0.9 mi north of Robbinsville.	55.3	1968-71, 1973-2000	10-5-00 1-17-01 4-5-01 9-4-01	14.9 42.7 103 105
0351751500 Cheoah River	Little Tennessee River	Lat 35°26'51", long 83°56'22", Graham County, Hydrologic Unit 06010204, 350 ft upstream of mouth and 0.2 mi north-northwest of Tapoco.	215	2000	10-5-00 5-30-01	18.0 83.0
03548243 Brasstown Creek	Hiwassee River	Lat 34°59'13", long 83°53'40", Clay County, Hydrologic Unit 06020002, at bridge on Secondary Road 1111.	37.3	2000	10-3-00 3-19-01 6-25-01 7-31-01	11.8 49.2 23.2 19.4

<sup>†</sup> Operated as a continuous-record gaging station.



	Page		Page
A			
Abbotts Creek at Lexington .....	260	Buffalo Creek at SR2819 near McLeansville .....	106
Access to USGS water data .....	29	Burgaw, Northeast Cape Fear River near.....	216
Accuracy of the Records .....	23	Burlington, Lake.....	534
Alexander, Newfound Creek near.....	562	Burnett Lake .....	556, 637
All Healing Springs, Lower Little River near.....	336	Bynum, Haw River near.....	120
Appalachia Lake .....	639	C	
Ararat River at Ararat .....	242	Calvin, Catawba River .....	332
Ararat, Ararat River at .....	242	Campbell Creek near Charlotte .....	454
Arneys Store, Johns River at.....	334	Cane Creek near Orange Grove .....	112
Asheville, French Broad River at.....	558	Cane Creek Reservoir near White Cross.....	116
B			
B. Everett Jordan Lake.....	162, 184, 194, 206, 531	Canton, East Fork Pigeon River near .....	578
B. Everett Jordan Lake, change in contents .....	536	Canton, Pigeon River near .....	582
B. Everett Jordan Lake at Dam near Moncure.....	162	Cape Fear River at Fayetteville.....	190
Badin Lake .....	531	Cape Fear River at Lillington.....	184
Badin Lake, change in contents .....	537	Cape Fear River at Lock 1 near Kelly.....	206
Barber, Second Creek near.....	258	Cape Fear River at State Highway 42 near Brickhaven.....	180
Battle Branch near Chapel Hill .....	130	Cape Fear River at William O. Huske Lock near Tarheel .....	194
Bear Creek Lake.....	618, 638	Cartoogechaye Creek near Franklin .....	604
Bee Tree Lake .....	556	Casar, First Broad River near.....	490
Beetree Creek .....	556	Cataloochee Creek near Cataloochee .....	586
Beetree Creek near Swannanoa.....	554	Cataloochee, Cataloochee Creek near .....	586
Beetree Reservoir.....	637	Catawba River at Calvin .....	332
Bessemer City, Long Creek near .....	372	Catawba River near Pleasant Gardens .....	326
Bessemer City, Long Creek Tributary at headwaters near .....	368	Catheys Creek near Brevard.....	544
Bessemer City, Long Creek Tributary below headwaters near ..	370	Cedar Cliff Lake.....	618, 638
Bethel, West Fork Pigeon River at.....	576	Celo, South Toe River.....	596
Big Bear Creek near Richfield .....	290	Chapel Hill, Battle Branch near .....	130
Big Shoe Heel Creek near Laurinburg.....	298	Chapel Hill, Morgan Creek near .....	146
Big Swamp near Tarheel.....	308	Chapel Hill, University Lake near.....	142
Biltmore, Swannanoa River at .....	556	Charlotte, Briar Creek above Colony Road at.....	420
Birdtown, Oconaluftee River at .....	616	Charlotte, Briar Creek near .....	408
Black River near Tomahawk.....	212	Charlotte, Campbell Creek near .....	454
Blands, New Hope Creek near .....	126	Charlotte, Coffey Creek near .....	390
Blantyre, French Broad River at .....	548	Charlotte, Irvins Creek at SR1368 near .....	460
Blewett Falls Lake .....	296, 532	Charlotte, Irwin Creek near.....	386
Blewett Falls Lake, change in contents.....	537	Charlotte, Irwin Creek at Statesville Avenue at.....	378
Boardman, Lumber River at.....	310	Charlotte, Little Hope Creek at Seneca Place at .....	432
Boiling Springs, Broad River near .....	488	Charlotte, Little Sugar Creek at Medical Center Drive at.....	396
Brandt, Lake .....	76, 534	Charlotte, Little Sugar Creek at Archdale Drive at.....	434
Brasstown, Brasstown Creek near .....	628	Charlotte, McAlpine Creek at Sardis Road near .....	466
Brasstown Creek near Brasstown .....	628	Charlotte McDowell Creek near .....	344
Brevard, Catheys Creek near .....	544	Charlotte, McMullen Creek at Sharon View Road near .....	472
Brevard, Davidson River at.....	546	Charlotte, Paw Creek at Wilkinson Boulevard near .....	358
Briar Creek, above Colony Road at Charlotte .....	420	Charlotte, Stewart Creek at State Street at .....	380
Briar Creek near Charlotte .....	408	Charlotte, Taggart Creek at West Boulevard near .....	388
Brickhaven, Cape Fear River at State Highway 42 near.....	180	Chatuge Lake.....	632, 636
Broad River near Boiling Springs.....	488	Chatuge Lake, change in contents.....	640
Browns Summit, Reedy Fork near.....	66	Cheoah Lake.....	638
Brush Creek at Fleming Road at Greensboro .....	58	Cheoah River near Bear Pen Gap near Tapoco.....	622
Bryson City, Tuckasegee River at.....	618	Cheoah River near Tapoco.....	626
Buckhorn Creek near Corinth .....	182	Chinquapin, Northeast Cape Fear River near.....	214
Buckhorn Reservoir .....	184, 534	Coffey Creek near Charlotte .....	390
		Copeland, Fisher River near.....	240
		Corinth, Buckhorn Creek near .....	182
		Cove Creek near Lake Lure .....	482
		CRN01.....	312

Page	Page		
CRN02 .....	492	<b>D</b>	
CRN03 .....	376		
CRN04 .....	493		Dalton, Little Yadkin River at..... 244
CRN05 .....	494		Data Collection and Computation ..... 20
CRN07 .....	495		Data Presentation..... 20
CRN08 .....	496		Davidson River near Brevard.....546
CRN09 .....	497		Deep River at Moncure ..... 178
CRN11 .....	498		Deep River at Ramseur ..... 172
CRN12 .....	499		Deep River near Randleman ..... 170
CRN13 .....	500		Definition of terms ..... 30
CRN14 .....	501		Downstream Order System ..... 19
CRN15 .....	502		Drowning Creek near Hoffman..... 300
CRN16 .....	313		Dutchmans Creek near Uwharrie ..... 264
CRN17 .....	503	<b>E</b>	
CRN19 .....	504		
CRN20 .....	505		East Fork Deep River near High Point..... 168
CRN21 .....	506		East Fork Lake ..... 638
CRN22 .....	507		East Fork Pigeon River near Canton..... 578
CRN23 .....	314		Elk Creek at Elkville ..... 224
CRN24 .....	342		Elkin, Yadkin River at..... 236
CRN25 .....	348		Elkville, Elk Creek at ..... 224
CRN26 .....	315		Enon, Yadkin River at..... 246
CRN27 .....	508		Explanation of records ..... 18
CRN28 .....	392	<b>F</b>	
CRN29 .....	316		
CRN30 .....	317		Fairview, Goose Creek at ..... 274
CRN31 .....	509		Farrington, Jordan Lake at Buoy 12 at ..... 148
CRN32 .....	318		Fayetteville, Cape Fear River at ..... 190
CRN33 .....	319		First Broad River near Casar ..... 490
CRN34 .....	510		Fisher River near Copeland..... 240
CRN35 .....	349		Flat Creek near Inverness ..... 186
CRN36 .....	320		Fontana Lake ..... 636
CRN37 .....	511		Fontana Lake, change in contents ..... 640
CRN38 .....	512		Four Mile Creek near Pineville ..... 470
CRN39 .....	321		Franklin, Cartoogechaye Creek near ..... 604
CRN40 .....	513		Franklin, Cullasaja River at Secondary Road 1653 near ..... 607
CRN42 .....	514		Franklin, Lake Emory at Dam near ..... 608
CRN43 .....	515		Freeland, Waccamaw River at ..... 218
CRN44 .....	322		French Broad River at Asheville..... 558
CRN45 .....	516		French Broad River at Blantyre ..... 548
CRN46 .....	323		French Broad River at Marshall ..... 566
CRN47 .....	517		French Broad River at Rosman ..... 542
CRN48 .....	518	<b>G</b>	
CRN49 .....	519		
CRN50 .....	520		Genlee, Northeast Creek near..... 134
CRN51 .....	521		Gibsonville, Reedy Fork near ..... 76
CRN52 .....	522		Goose Creek at Fairview ..... 274
CRN53 .....	523		Green Level, White Oak Creek at ..... 152
CRN54 .....	524		Greensboro, Brush Creek at Fleming Road at..... 58
CRN55 .....	525		Greensboro, Horsepen Creek at US 220 near ..... 62
CRN56 .....	526		Greensboro, North Buffalo Creek at Church St at ..... 98
CRN57 .....	527		Greensboro, North Buffalo Creek at Westover Terrace at..... 94
CRN58 .....	528		Greensboro, North Buffalo Creek near ..... 102
CRN59 .....	529		Greensboro, Ryan Creek below US220 at ..... 86
CRN60 .....	530		Greensboro, South Buffalo Creek at US220 at ..... 82
Crutchfield Crossroads, Rocky River near ..... 174			
Cullasaja River at Secondary Road 1653 near Franklin ..... 607			



	Page
Laurinburg, Big Shoe Heel Creek near .....	298
Leland, Hood Creek near .....	210
Lexington, Abbotts Creek at .....	260
Lexington-Thomasville Reservoir .....	534
Lillington, Cape Fear River at.....	184
Linville River near Nebo.....	330
Little Hope Creek at Seneca Place at Charlotte .....	432
Little River near Star.....	294
Little Sugar Creek at Archdale Drive at Charlotte.....	434
Little Sugar Creek at Highway 51 at Pineville .....	446
Little Sugar Creek at Medical Center Drive at Charlotte.....	396
Little Tennessee River at Needmore.....	610
Little Tennessee River near Prentiss.....	602
Little Tennessee River at Riverside .....	600
Little Yadkin River at Dalton.....	244
Logan, Lake .....	574, 637
Logan, Second Broad River near .....	484
Long Creek near Bessemer City .....	372
Long Creek near Paw Creek .....	352
Long Creek near Rhyne .....	356
Long Creek Tributary at headwaters near Bessemer City .....	368
Long Creek Tributary below headwaters near Bessemer City ...	370
Lookout Shoals Lake .....	533
Lookout Shoals Lake, change in contents.....	538
Lowell, South Fork Catawba River at.....	374
Lower Little River near All Healing Springs.....	336
Lumber River at Boardman.....	310
Lumber River at Lumberton .....	304
Lumber River near Maxton.....	302
Lumberton, Lumber River at .....	304

M

Mallard Creek nr Harrisburg.....	266
Mariposa, Killian Creek near .....	350
Marshall, French Broad River at.....	566
Marshall, Ivy River near .....	564
Maxton, Lumber River near.....	302
McAlpine Creek at Sardis Road near Charlotte.....	466
McAlpine Creek at State Road 3150 near Idlewild .....	448
McAlpine Creek below McMullen Creek near Pineville.....	474
McDowell Creek near Charlotte .....	344
McLeansville, Buffalo Creek at SR 2819 near .....	106
McMullen Creek at Sharon View Road near Charlotte .....	472
Measurements at miscellaneous sites.....	641
Mills River near Mills River .....	550
Mills River, Mills River near .....	550
Mitchell River near State Road.....	238
Mocksville, South Yadkin River near.....	254
Moncure, B. Everett Jordan Lake at Dam near.....	162
Moncure, Deep River at .....	178
Moncure, Haw River below B. Everett Jordan Dam near .....	164
Morgan Creek near Chapel Hill .....	146
Morgan Creek near White Cross.....	138
Mount Vernon Springs, Tick Creek near .....	176
Mountain Island Lake .....	533
Mountain Island Lake, change in contents.....	539
Murphy, Hiwassee River above .....	632

N

NC-193 Precipitation.....	325
Nantahala Lake.....	638
Nantahala River near Rainbow Springs .....	614
National Atmospheric Deposition Program/National Trends Network .....	18
National Stream Quality Accounting Network .....	18
National Water-Quality Assessment Program .....	18
Nebo, Linville River near.....	330
Needmore, Little Tennessee River at .....	610
New Hope Creek near Blands .....	126
Newfound Creek near Alexander .....	562
Norman, Lake.....	533
North Buffalo Creek at Church Street at Greensboro .....	98
North Buffalo Creek at Westover Terrace at Greensboro.....	94
North Buffalo Creek near Greensboro .....	102
North Fork Swannanoa River near Walkertown .....	552
North Wilkesboro, Reddies River at .....	230
Northeast Cape Fear River near Burgaw.....	216
Northeast Cape Fear River near Chinquapin.....	214
Northeast Creek near Genlee.....	134
Norwood Creek near Troutman.....	340
Norwood, Rocky River near .....	292

O

Oak Hollow Reservoir.....	170, 172, 534
Oak Ridge, Reedy Fork near .....	54
Oconaluftee River at Birdtown .....	616
Orange Grove, Cane Creek near .....	112
Other Records Available .....	24

P

Patterson, Yadkin River at .....	220
Paw Creek, Long Creek near.....	352
Paw Creek at Wilkinson Boulevard near Charlotte .....	358
Pee Dee River near Rockingham .....	296
Pigeon River below power plant near Waterville .....	590
Pigeon River near Canton .....	582
Pigeon River near Hepco.....	584
Pineville, Four Mile Creek near .....	470
Pineville, Little Sugar Creek at Highway 51 at.....	446
Pineville, McAlpine Creek below McMullen Creek near.....	474
Pineville, Steele Creek at SR1441 near .....	478
Pineville, Sugar Creek at NC 51 near .....	394
Pleasant Gardens, Catawba River near .....	326
Pomona, South Buffalo Creek near.....	78
Prentiss, Little Tennessee River near .....	602

R

Raeford, Rockfish Creek at .....	192
Rainbow Springs, Nantahala River near .....	614
Ramseur, Deep River at .....	172
Ramsey, Jacob Fork at .....	362
Randleman, Deep River near .....	170

	Page		Page
Records of Precipitation.....	24	Stony Creek Reservoir .....	534
Records of Stage and Water Discharge.....	19	Sugar Creek at NC 51 near Pineville .....	394
Records of Surface Water Quality .....	24	Sugar Grove, Watauga River near.....	598
Reddies River at North Wilkesboro .....	230	Swannanoa River at Biltmore .....	556
Reedy Fork near Browns Summit.....	66	Swannanoa, Beetree Creek near.....	554
Reedy Fork near Gibsonville .....	76		
Reedy Fork near Oak Ridge.....	54	T	
Remark Codes .....	28	Taggart Creek at West Boulevard near Charlotte .....	388
Reservoir, Beetree .....	637	Tapoco, Cheoah River near.....	626
Reservoir, Buckhorn .....	184, 534	Tapoco, Cheoah River near Bear Pen Gap near.....	622
Reservoir, Lexington-Thomasville .....	535	Tarheel, Big Swamp near .....	308
Reservoir, Oak Hollow .....	170, 172, 534	Tarheel, Cape Fear River at William O. Huske Lock near .....	194
Reservoir, Shearon Harris Main.....	182, 534	Thorpe Reservoir.....	618, 638
Reservoir, Stony Creek .....	534	Tick Creek near Mount Vernon Springs .....	176
Reservoir, Thorpe.....	618, 638	Tillery, Lake .....	532
Reservoir, Tuckertown.....	263, 531	Tomahawk, Black River near.....	212
Reservoir, W. Kerr Scott.....	236, 246, 250, 531	Tomotla, Valley River at.....	634
Retreat, West Fork Pigeon River near .....	574	Townsend, Lake .....	76, 534
Rhodhiss Lake .....	532	Toxaway, Lake .....	535
Rhodhiss Lake, change in contents .....	538	Triplett Raingage.....	223
Rhyne, Long Creek near .....	356	Troutman, Norwood Creek near.....	340
Richfield, Big Bear Creek near.....	290	Tuckasegee River at Bryson City.....	618
Richland Lake .....	76	Tuckertown Reservoir .....	263, 531
Riverside, Little Tennessee River at .....	600	Tuckertown Reservoir, change in contents .....	536
Roaring River near Roaring River .....	234	Tuckertown Reservoir Precipitation.....	263
Roaring River, Roaring River near .....	234	Twelve Mile Creek near Waxhaw.....	480
Rockfish Creek at Raeford.....	192		
Rockingham, Pee Dee River near .....	296	U	
Rocky River above Irish Buffalo Creek near Rocky River .....	270	University Lake near Chapel Hill.....	142
Rocky River near Crutchfield Crossroads .....	174	Uwharrie, Dutchmans Creek near .....	264
Rocky River near Norwood .....	292		
Rocky River, Rocky River above Irish Buffalo Creek near .....	270	V	
Rocky River near Stanfield .....	286	Valley River at Tomotla.....	634
Rosman, French Broad River at .....	542		
Ryan Creek below US220 at Greensboro .....	86	W	
		W. Kerr Scott at Dam near Wilkesboro .....	226
S		W. Kerr Scott Reservoir .....	236, 246, 250, 531
Santeetlah Lake .....	638	W. Kerr Scott Reservoir, change in contents .....	536
Second Broad River near Logan .....	484	Waccamaw River at Freeland .....	218
Second Creek near Barber.....	258	Walkertown, North Fork Swannanoa River near .....	552
Sequoyah Lake .....	637	Watauga River near Sugar Grove.....	598
Shearon Harris Main Reservoir.....	182, 534	Waterville, Pigeon River below power plant near .....	590
South Buffalo Creek at US220 at Greensboro.....	82	Waterville Lake .....	636
South Buffalo Creek near Greensboro.....	90	Waterville Lake, change in contents .....	640
South Buffalo Creek near Pomona.....	78	Waxhaw, Twelve Mile Creek near.....	480
South Fork Catawba River at Lowell.....	374	West Fork Pigeon River at Bethel .....	576
South Fork New River near Jefferson.....	540	West Fork Pigeon River near Hazelwood .....	568
South Toe River near Celo.....	596	West Fork Pigeon River near Retreat .....	574
South Yadkin River near Mocksville.....	254	White Cross, Cane Creek Reservoir near.....	116
Special networks and programs .....	18	White Cross, Morgan Creek near .....	138
Stanfield, Rocky River near.....	286	White Oak Creek at Green Level .....	152
Star, Little River near .....	294	Wilbar Raingage.....	228
State Road, Mitchell River near.....	238	Wilkesboro, W. Kerr Scott Reservoir at Dam near.....	226
Statesville Precipitation.....	324	Wilkesboro, Yadkin River at.....	232
Station Identification Numbers .....	18	Wilsonville, Jordan Lake near.....	156
Steele Creek at SR 1441 near Pineville .....	478		
Stewart Creek at State Street at Charlotte.....	380		

	Page
Wolf Creek Lake .....	638

Page

Y

Yadkin College, Yadkin River at .....	250
Yadkin River at Elkin .....	236
Yadkin River at Enon.....	246
Yadkin River at Patterson .....	220
Yadkin River at Wilkesboro .....	232
Yadkin River at Yadkin College .....	250

# CALENDAR FOR WATER YEAR 2001

2000

---

OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7				1	2	3	4						1	2
8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9
15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16
22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23

---

2001

---

JANUARY							FEBRUARY							MARCH							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
	1	2	3	4	5	6					1	2	3						1	2	3
7	8	9	10	11	12	13	4	5	6	7	8	9	10	4	5	6	7	8	9	10	
14	15	16	17	18	19	20	11	12	13	14	15	16	17	11	12	13	14	15	16	17	
21	22	23	24	25	26	27	18	19	20	21	22	23	24	18	19	20	21	22	23	24	

APRIL							MAY							JUNE						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7			1	2	3	4	5						1	2
8	9	10	11	12	13	14	6	7	8	9	10	11	12	3	4	5	6	7	8	9
15	16	17	18	19	20	21	13	14	15	16	17	18	19	10	11	12	13	14	15	16
22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23

JULY							AUGUST							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7				1	2	3	4							1
8	9	10	11	12	13	14	5	6	7	8	9	10	11	2	3	4	5	6	7	8
15	16	17	18	19	20	21	12	13	14	15	16	17	18	9	10	11	12	13	14	15
22	23	24	25	26	27	28	19	20	21	22	23	24	25	16	17	18	19	20	21	22

# CONVERSION FACTORS AND VERTICAL DATUM

<b>Multiply</b>	<b>By</b>	<b>To obtain</b>
<b><i>Length</i></b>		
inch (in.)	$2.54 \times 10^1$	millimeter
	$2.54 \times 10^{-2}$	meter
foot (ft)	$3.048 \times 10^{-1}$	meter
mile (mi)	$1.609 \times 10^0$	kilometer
<b><i>Area</i></b>		
acre	$4.047 \times 10^3$	square meter
	$4.047 \times 10^{-1}$	square hectometer
	$4.047 \times 10^{-3}$	square kilometer
square mile (mi <sup>2</sup> )	$2.590 \times 10^0$	square kilometer
<b><i>Volume</i></b>		
gallon (gal)	$3.785 \times 10^0$	liter
	$3.785 \times 10^0$	cubic decimeter
	$3.785 \times 10^{-3}$	cubic meter
million gallons (Mgal)	$3.785 \times 10^3$	cubic meter
	$3.785 \times 10^{-3}$	cubic hectometer
cubic foot (ft <sup>3</sup> )	$2.832 \times 10^1$	cubic decimeter
	$2.832 \times 10^{-2}$	cubic meter
cubic-foot-per-second day [(ft <sup>3</sup> /s) d]	$2.447 \times 10^3$	cubic meter
	$2.447 \times 10^{-3}$	cubic hectometer
acre-foot (acre-ft)	$1.233 \times 10^3$	cubic meter
	$1.233 \times 10^{-3}$	cubic hectometer
	$1.233 \times 10^{-6}$	cubic kilometer
<b><i>Flow</i></b>		
cubic foot per second (ft <sup>3</sup> /s)	$2.832 \times 10^1$	liter per second
	$2.832 \times 10^1$	cubic decimeter per second
	$2.832 \times 10^{-2}$	cubic meter per second
gallon per minute (gal/min)	$6.309 \times 10^{-2}$	liter per second
	$6.309 \times 10^{-2}$	cubic decimeter per second
	$6.309 \times 10^{-5}$	cubic meter per second
million gallons per day (Mgal/d)	$4.381 \times 10^1$	cubic decimeter per second
	$4.381 \times 10^{-2}$	cubic meter per second
<b><i>Mass</i></b>		
ton (short)	$9.072 \times 10^{-1}$	megagram or metric ton

*Sea level:* In this report “sea level” refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment for the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.