

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to these events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at crest-stage partial-record stations are presented in the following table. Discharge measurements made at miscellaneous sites and for special studies are given in separate tables.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device that will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Maximum discharge at crest-stage partial-record stations during water year 2003

Station name and number	Location and drainage area	Period of record (water years)	Water year 2003 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft ³ /s)	Date	Gage height (ft)	Discharge (ft ³ /s)
POTOMAC RIVER BASIN								
Chub Run near Stanley, VA (01629945)	Lat 38°34'31", long 78°27'31", NAD83, Page County, Hydrologic Unit 02070005, at culvert on State Highway 689, 2.2 mi east of Stanley, and 3.1 mi upstream from mouth. Datum of gage is 1,023.05 ft NGVD of 1929. Drainage area is 3.16 mi ² .	1959-69a, 1970-03	9-19-03	8.23	1,100	9-6-96	>10.08	*
Crooked Run near Mt. Jackson, VA (01632970)	Lat 38°45'44", long 78°41'05", NAD83, Shenandoah County, Hydrologic Unit 02070006, on right upstream wingwall of culvert on State Highway 263, 0.4 mi upstream from mouth, and 2.3 mi west of Mt. Jackson. Datum of gage is 962.84 ft NGVD of 1929. Drainage area is 6.49 mi ² .	1972-03	9-19-03	3.97	442	1-19-96	11.34	5,700
Pughs Run near Woodstock, VA (01633650)	Lat 38°55'48", long 78°32'42", NAD83, Shenandoah County, Hydrologic Unit 02070006, on left upstream wingwall of culvert on State Highway 623, 4.0 mi northwest of Woodstock, and 5.4 mi upstream from mouth. Datum of gage is 1,027.27 ft NGVD of 1929. Drainage area is 3.66 mi ² .	1971-03	9-19-03	6.29	236	9-6-96	13.39	1,100
GREAT WICOMICO RIVER BASIN								
Bush Mill Stream near Heathsville, VA (01661800)	Lat 37°52'36", long 76°29'41", NAD83, Northumberland County, Hydrologic Unit 02080102, on right bank 12 ft upstream from bridge on State Highway 601, 2.2 mi northwest of Howland, and 3.0 mi southwest of Heathsville. Datum of gage is 22.22 ft NGVD of 1929. Drainage area is 6.82 mi ² .	1964-69 ^a , 1970-86 ^a , 1987-03	5-26-03	6.11	212	9-16-99	11.50	1,390
		Correction	4-22-02	3.46	21.8			

* Discharge not determined.

< Less than.

> Greater than.

a Records provided by U.S. Department of Agriculture, Soil Conservation Service.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations during water year 2003--Continued

Station name and number	Location and drainage area	Period of record (water years)	Water year 2003 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
RAPPAHANNOCK RIVER BASIN								
Pony Mountain Branch near Culpeper, VA (01665050)	Lat 38°27'04", long 77°57'23", NAD83, Culpeper County, Hydrologic Unit 02080103, at culvert on State Highway 3, 0.3 mi upstream from mouth, and 2.7 mi southeast of Cul- peper. Elevation of gage is 335 ft NGVD of 1929, from topographic map. Drainage area is 0.30 mi ² .	1958-69a, 1970-03	2-22-03	5.80	312	2-22-03	5.80	312
Farmers Hall Creek near Champlain, VA (01668300)	Lat 38°00'05", long 76°58'39", NAD83, Essex County, Hydro- logic Unit 02080104, on left upstream wingwall of culvert on U.S. Highway 17, 1.0 mi upstream from Rouzie Swamp, and 1.2 mi southeast of Champlain. Datum of gage is 42.10 ft NGVD of 1929. Drainage area is 2.18 mi ² .	1966-03	9-19-03	6.75	152	8-20-69	19.2	510
YORK RIVER BASIN								
Pamunkey Creek at Lahore, VA (01670180)	Lat 38°11'33", long 77°58'08", NAD83, Orange County, Hydro- logic Unit 02080106, on right bank on upstream side of bridge on State Highway 669, 0.45 mi south of Lahore, and 3.8 mi upstream from Lake Anna. Elevation of gage is 200 ft NGVD of 1929, from topographic map. Drainage area is 40.5 mi ² .	1989-91‡, 1992-03	9-19-03	10.61	2,110	6-27-95	17.20	6,900
Contrary Creek near Mineral, VA (01670300)	Lat 38°03'53", long 77°52'44", NAD83, Louisa County, Hydro- logic Unit 02080106, on left bank 200 ft downstream from bridge on U.S. Highway 522, 4.0 mi northeast of Mineral. Elevation of gage is 275 ft NGVD of 1929, from topo- graphic map. Drainage area is 5.53 mi ² .	1976-86‡, 1987-03	9-19-03	3.37	799	11-28-93	6.94	7,050
Waldrop Creek near Louisa, VA (01671650)	Lat 38°00'09", long 78°04'21", NAD83, Louisa County, Hydro- logic Unit 02080106 on left upstream wingwall of culvert on State Highway 632, 2.3 mi upstream from mouth, and 4.2 mi southwest of Louisa. Datum of gage is 361.41 ft NGVD of 1929. Drainage area is 2.85 mi ² .	1969-03	9-19-00	9.21	605	8-20-69	21.00	2,500
Reedy Creek near Dawn, VA (01674200)	Lat 37°52'56", long 77°21'34", NAD83, Caroline County, Hydro- logic Unit 02080105, at bridge on U.S. Highway 301, 3.3 mi north of Dawn, and 11 mi south of Bowling Green. Drainage area is 16.8 mi ² .	1951-69, 1972-03	9-19-03	5.95	270	8-20-69	7.28	2,500

‡ Operated as a continuous-record gaging station.

a Records provided by U.S. Department of Agriculture, Soil Conservation Service.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations during water year 2003--Continued

Station name and number	Location and drainage area	Period of record (water years)	Water year 2003 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft ³ /s)	Date	Gage height (ft)	Discharge (ft ³ /s)
JAMES RIVER BASIN								
Jackson River at Falling Spring, VA (02012500)	Lat 37°52'36", long 79°58'38", NAD83, Alleghany County, Hydrologic Unit 02080201, on right bank 20 ft upstream from Smith Bridge, 0.8 mi south of Falling Spring, and 5.5 mi north of Covington. Datum of gage is 1,333.49 ft above sea level. Drainage area is 411 mi ² .	1925-84 [‡] , 1987-03	2-25-03	9.98	7,290	3-17-36 b1913	14.74 20	24,700 c50,000
Cowpasture River near Head Waters, VA (02015600)	Lat 38°19'30", long 79°26'13", NAD83, Highland County, Hydrologic Unit 02080201, on left downstream wingwall of bridge on U. S. Highway 250, 1.2 mi west of Head Waters, and 3 mi upstream from Shaw Fork. Datum of gage is 1,985.65 ft NGVD of 1929. Drainage area is 11.3 mi ² .	1949-94, 1996-03	9-19-03	8.74	790	6-17-49	d6.5	5,650
Craig Creek tributary near New Castle, VA (02017700)	Lat 37°33'21", long 79°59'51", NAD83, Craig County, Hydrologic Unit 02080201, on right upstream wingwall of culvert on State Highway 606, 0.4 mi upstream from mouth, and 7.1 mi northeast of New Castle. Drainage area is 2.05 mi ² .	1968-03	2-22-03	7.29	323	11-4-85	13.45	1,100
Renick Run near Buchanan, VA (02020100)	Lat 37°35'27", long 79°38'03", NAD83, Botetourt County, Hydrologic Unit 02080201, on left upstream wingwall of culvert on Frontage Road F054 of Interstate Highway 81 between Exits 168 and 169, 2.2 mi upstream from mouth, and 4.8 mi northeast of Buchanan. Datum of gage is 1,261.85 ft NGVD of 1929. Drainage area is 2.06 mi ² .	1967-03	9-19-03	10.94	1,460	9-19-03	10.94	1,460
Buffalo River tributary near Amherst, VA (02027700)	Lat 37°33'45", long 78°57'35", NAD83, Amherst County, Hydrologic Unit 02080203, on left bank just upstream from culvert on U.S. Highway 60, 0.8 mi upstream from mouth, and 5.2 mi southeast of Amherst. Datum of gage is 583.66 ft NGVD of 1929. Drainage area is 0.46 mi ² .	1966-03	4-11-03	3.92	48	9-6-96	7.33	196

[‡] Operated as a continuous-record gaging station.

^b Maximum known historical peak outside period of record.

^c Approximate.

^d At different datum.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations during water year 2003--Continued

Station name and number	Location and drainage area	Period of record (water years)	Water year 2003 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
JAMES RIVER BASIN--Continued								
Stockton Creek near Afton, VA (02030800)	Lat 38°01'48", long 78°48'29", NAD83, Albemarle County, Hydrologic Unit 02080204, on left upstream wingwall of cul- vert on State Highway 6, 1.7 mi east of Afton, and 4.3 mi upstream from Stony Run. Datum of gage is 835.27 ft NGVD of 1929. Drainage area is 2.80 mi ² .	1967-03	9-19-03	5.48	163	6-21-72 11-23-92	9.68 e9.73	678 425
Muddy Run near Stanardsville, VA (02032300)	Lat 38°14'05", long 78°37'01", NAD83, Albemarle County, Hydrologic Unit 02080204, on right downstream abutment of bridge on State Highway 810, 0.7 mi upstream from mouth, and 11 mi southwest of Stanardsville. Datum of gage is 756.79 ft above sea level. Drainage area is 3.36 mi ² .	1967-03	9-19-03	7.11	62.9	5-13-78	8.33	92
Moores Creek near Char- lottesville, VA (02033300)	Lat 38°00'26", long 78°34'24", NAD83, Albemarle County, Hydro- Hydrologic unit 02080204, on right downstream wingwall of culvert on access road, 30 ft north of U.S. Highway 29, 2.8 mi upstream from Morey Creek, and 4 mi southwest of Char- lottesville. Datum of gage is 505.40 ft NGVD of 1929. Drainage area is 3.52 mi ² .	1967-03	9-19-03	15.47	434	6-2-79	18.74	*
Falling Creek near Midlothian, VA (02037800)	Lat 37°27'16" long 77°35'19", NAD83, Chesterfield County, Hydrologic Unit 02080206, on downstream of bridge on State Highway 653, 2.2 mi upstream from Horners Run and 4 mi southeast of Midlothian. Elevation of gage is 170 ft NGVD of 1929, from topo- graphic map. Drainage area is 18.1mi ² .	1951-93, 2002-03	9-18-03	27.49	1,800	9-30-79	d11.71	5,170
Falling Creek near Chesterfield, VA (02038000)	Lat 37°26'38" long 77°31'20", NAD83, Chesterfield County, Hydrologic Unit 02080206, on left bank 50 ft upstream from bridge on State Highway 651, 0.8 mi downstream from Licking Creek, 2.8 mi upstream from Pocosnock Creek, and 4.7 mi northwest of Chesterfield. Datum of gage is 126.39 ft NGVD of 1929. Drainage area is 32.8 mi ² .	1955-94‡, 1996-03	9-18-03	13.85	3,860	10-1-79	15.32	5,930

* Discharge not determined.

‡ Operated as a continuous-record gaging station.

d At different datum.

e Affected by debris jam at upstream end of culvert.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations during water year 2003--Continued

Station name and number	Location and drainage area	Period of record (water years)	Water year 2003 maximum		Period of record maximum			
			Date	Gage height (ft)	Dis-charge (ft ³ /s)	Date	Gage height (ft)	Dis-charge (ft ³ /s)
JAMES RIVER BASIN--Continued								
Holiday Creek near Toga, VA (02038840)	Lat 37°25'59", long 78°41'11", NAD83, Buckingham County Hydrologic Unit 02080207, on left bank 40 ft downstream from State Forest Road 2307 (old Richmond Road), 1.8 mi upstream from confluence of North Holiday Creek, and 5.2 mi south-southwest of Toga. Datum of gage is 614.40 ft NGVD of 1929. Drainage area is 1.68 mi ² .	1971-03	3-20-03	3.59	299	6-21-72	6.72	2,820
Flat Creek near Amelia, VA (02040500)	Lat 37°23'28", long 78°03'44", NAD83, Amelia County, Hydrologic Unit 02080207, at bridge on State Highway 681, 0.5 mi downstream from Horsepen Creek and 6.0 mi northwest of Amelia. Elevation of gage is 240 ft above sea level, from topographic map. Drainage area is 73.0 mi ² .	1947, 1954-70, 1972-03	9-18-03	12.73	4,940	4-16-87	f12.38	f5,260
Bailey Branch tributary at Spring Grove, VA (02042250)	Lat 37°10'30", long 76°59'12", NAD83, Surry County, Hydrologic Unit 02080206, on right upstream wingwall of culvert on State Highway 10, 1.0 mi northwest of Spring Grove. Datum of gage is 61.39 ft NGVD of 1929. Drainage area is 0.71 mi ² .	1967-03	9-18-03	5.35	168	9-16-99	8.12	474
Jordans Branch at Richmond, VA (02042400)	Lat 37°35'11", long 77°29'54", NAD83, Henrico County, Hydrologic Unit 02080206, on left downstream wall of bridge on U.S. Highway 250 (Broad Street), at Richmond, and 2.0 mi upstream from mouth. Drainage area is 2.53 mi ² .	1965-03	9-18-03	12.12	2,170	6-22-91	13.10	2,760
CHOWAN RIVER BASIN								
Falls Creek tributary near Victoria, VA (02044200)	Lat 37°02'05", long 78°10'25", NAD83, Lunenburg County, Hydrologic Unit 03010201, at upstream end of culvert on State Highway 49, 3.6 mi northeast of Victoria. Datum of gage is 409.21 ft above sea level. Drainage area is 0.34 mi ² .	1962-03	9-18-03	6.54	184	6-21-72	9.15	343
Blackwater River tributary near Holland, VA (02050050)	Lat 36°38'45", long 76°51'28", NAD83, Suffolk City, Hydrologic Unit 03010202, on left upstream wingwall of culvert on State Highway 272, 3.0 mi upstream from mouth, and 4.9 mi southwest of Holland. Datum of gage is 29.25 ft NGVD of 1929. Drainage area is 2.76 mi ² .	1967-03	9-19-03	8.39	497	9-16-99	10.78	784

f From rating then in use.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations during water year 2003--Continued

Station name and number	Location and drainage area	Period of record (water years)	Water year 2003 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
ROANOKE RIVER BASIN								
Powells Creek near Turbeville, VA (02075350)	Lat 36°34'51", long 79°11'19", NAD83, Halifax County, Hydro- logic Unit 03010104, at cul- vert on U.S. Highway 58, 0.8 mi upstream from mouth, 1.1 mi east of Halifax-Pittsylvania County line, and 8.8 mi southwest of Turbeville. Datum of gage is 386.76 ft NGVD of 1929. Drainage area is 0.28 mi ² .	1958-69a, 1970-03	9-23-03	6.94	178	7-11-65	7.86	384
Bearskin Creek near Chatham, VA (02076200)	Lat 36°50'31", long 79°29'04", NAD83, Pittsylvania County, Hydrologic Unit 03010105, on left upstream wingwall of cul- vert on State Highway 57, 4.5 mi west of Chatham, and 6 mi upstream from mouth. Eleva- tion of gage is 630 ft above sea level, from topographic map. Drainage area is 4.06 mi ² .	1967-03	3-20-03	6.41	525	6-29-95	19.90	2,850
Blacks Creek near Mt. Airy, VA (02076700)	Lat 36°56'41", long 79°09'55", NAD83, Pittsylvania County, Hydrologic Unit 03010105, on left upstream wingwall of culvert on State Highway 40, 1.5 mi east of Mt. Airy, and 3.5 mi upstream from mouth. Elevation of gage is 420 ft NGVD of 1929, from topo- graphic map. Drainage area is 3.44 mi ² .	1966-03	3-20-03	6.36	364	9-8-87	g19.5	2,200
KANAWHA RIVER BASIN								
Mira Fork tributary near Dugspur, VA (03167300)	Lat 36°50'16", long 80°34'43", NAD83, Carroll County, Hydro- logic Unit 05050001, on left upstream wingwall of culvert on U.S. Highway 221, 1.3 mi upstream from mouth, and 2.2 mi northeast of Dugspur. Datum of gage is 2,602.96 ft NGVD of 1929. Drainage area is 0.62 mi ² .	1967-03	8-7-03	4.21	93.4	4-21-92	7.20	257
Thorne Springs Branch near Dublin, VA (03168750)	Lat 37°05'30", long 80°44'33", NAD83, Pulaski County, Hydro- logic Unit 05050001, at pond dam just upstream from U.S. Highway 11, 3.3 mi southwest of Dublin, and 4.3 mi up- stream from mouth. Elevation of gage is 1,975 ft above sea level, from topographic map. Drainage area is 4.77 mi ² .	1957-69a, 1970-03	2-22-03	2.63	235	5-28-73	8.01	2,200

a Records provided by U.S. Department of Agriculture, Soil Conservation Service.

g From high-water marks.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations during water year 2003--Continued

Station name and number	Location and drainage area	Period of record (water years)	Water year 2003 maximum		Period of record maximum			
			Date	Gage height (ft)	Dis-charge (ft ³ /s)	Date	Gage height (ft)	Dis-charge (ft ³ /s)
BIG SANDY RIVER BASIN								
Russell Fork at Council, VA (03208040)	Lat 37°04'41", long 82°03'55", NAD83, Buchanan County, Hydrologic Unit 05070202, on left bank 50 ft upstream from bridge on State Highway 80, 750 ft downstream from Ball Creek, 0.6 mi southeast of Council, and 4.7 mi upstream from Hurricane Creek. Elevation of gage is 1,680 ft above sea level, from topographic map. Drainage area is 10.2 mi ² .	1981-83‡, 1984-03	2-16-03	4.49	656	7-29-01	8.17	1,870
North Fork Pound River at Pound, VA (03208700)	Lat 37°07'32", long 82°37'36", NAD83, Wise County, Hydrologic Unit 05070202, on right bank at Pound, 700 ft downstream from Stacy Branch, and 1,600 ft downstream from North Fork Pound River dam. Datum of gage is 1,500.00 ft above sea level. Drainage area is 18.5 mi ² . Prior to Oct. 1, 1965, at datum 44.88 ft higher.	1963-87‡, 1988-03	2-16-03	51.61	360	3-12-63	61.58	4,480
Pound River above Indian Creek, at Pound, VA (03208800)	Lat 37°07'26", long 82°36'29", NAD83, Wise County, Hydrologic Unit 05070202, on left bank at Pound, 1,600 ft downstream from confluence of North and South Forks, 0.5 mi upstream from bridge on U.S. Highway 23, and 0.7 mi upstream from Indian Creek. Datum of gage is 1,535.64 ft NGVD of 1929. Drainage area is 36.7 mi ² .	1966-78‡, 1979-03	2-16-03	13.30	1,940	5-18-75	19.44	3,460
Pound River near Georges Fork, VA (03208900)	Lat 37°09'51", long 82°31'30", NAD83, Dickenson County, Hydrologic Unit 05070202, on right bank 50 ft upstream from bridge on State Highway 624, 150 ft upstream from Camp Creek, and 2.6 mi northwest of Georges Fork. Datum of gage is 1,470.39 ft NGVD of 1929. Drainage area is 82.5 mi ² .	1964-82‡, 1983-03	2-16-03	9.39	3,400	5-18-75	14.91	10,900
Russell Fork at Bartlick, VA (03209200)	Lat 37°14'45", long 82°19'25", NAD83, Dickenson County, Hydrologic Unit 05070202, on left bank at Bartlick just upstream from bridge on State Highway 611, 0.2 mi downstream from Pound River, and 1.1 mi upstream from Fall Branch. Datum of gage is 1,165.00 ft NGVD of 1929. Drainage area is 526 mi ² .	1963-82‡, 1983-03	2-16-03	19.74	20,700	5-2-02	27.55	50,000

‡ Operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations during water year 2003--Continued

Station name and number	Location and drainage area	Period of record (water years)	Water year 2003 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
BIG SANDY RIVER BASIN--Continued								
Knox Creek at Kelsa, VA (03213590)	Lat 37°27'02", long 82°03'33", NAD83, Buchanan County, Hydrologic Unit 05070201, on downstream end of right bridge pier on State Highway 697, 0.3 mi downstream from Pawpaw Creek, 0.8 mi northeast of Kelsa, and 10.0 mi upstream from mouth. Elevation of gage is 945 ft above sea level, from topographic map. Drainage area is 84.3 mi ² .	1980-81‡, 1982-03	2-16-03	13.00	6,210	5-2-02	23.14	16,100
TENNESSEE RIVER BASIN								
Middle Fork Holston River at Groseclose, VA (03473500)	Lat 36°53'19", long 81°20'50", NAD83, Smyth County, Hydrologic Unit 06010102, on left bank 10 ft downstream from culvert on State Highway 679 at Groseclose, 0.2 mi upstream from Rocky Spring Branch, 10 mi northeast of Marion, and at mile 54.7. Datum of gage is 2,442.86 ft NGVD of 1929. Drainage area is 7.39mi ² .	1948-57‡, 1958-87, 1988-89‡, 1990-95, 2001-03	2-22-03	5.29	376	7-6-53	7.42	813
Cedar Creek near Meadowview, VA (03475600)	Lat 36°44'50", long 81°51'19", NAD83, Washington County, Hydrologic Unit 06010102, on left downstream wingwall of culvert on U.S. Highway 11, 1.2 mi south of Meadowview, and 2.5 mi upstream from mouth. Datum of gage is 2,034.66 ft NGVD of 1929. Drainage area is 3.38 mi ² .	1967-03	8-4-03	11.80	*	8-4-03	11.80	*
Lick Creek near Chatham Hill, VA (03487800)	Lat 36°57'44", long 81°28'21", NAD83, Smyth County, Hydro- logic Unit 06010101, on left bank 270 ft upstream from bridge on State Highway 42, 2.9 mi northeast of Chatham Hill, and 1.6 mi upstream from mouth. Datum of gage is 2,076.97 ft NGVD of 1929. Drainage area is 25.5 mi ² .	1966-68‡, 1969-03	2-22-03	6.60	1,760	11-7-77	8.09	2,660
Brumley Creek at Brumley Gap, VA (03488450)	Lat 36°47'30", long 82°01'09", NAD83, Washington County, Hydrologic Unit 06010101, on left downstream wingwall of bridge of State Highway 611, 0.2 mi upstream from mouth, 0.8 mi southeast of Brumley Gap, and 2.7 mi downstream from Lee Creek. Datum of gage is 1,489.16 ft above sea level. Drainage area is 21.1 mi ² .	1979-81‡, 1982-03	2-22-03	5.51	932	3-18-02	6.72	1,570

* Discharge not determined.

‡ Operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations during water year 2003--Continued

Station name and number	Location and drainage area	Period of record (water years)	Water year 2003 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft ³ /s)	Date	Gage height (ft)	Discharge (ft ³ /s)
TENNESSEE RIVER BASIN--Continued								
Cove Creek near Shelleys, VA (03489800)	Lat 36°39'13", long 82°21'16", NAD83, Scott County, Hydrologic Unit 06010101, on right downstream wingwall of bridge on U.S. Highway 58 and 421, 1.5 mi northwest of Shelleys, and at mile 3.3. Datum of gage is 1,381.53 ft above sea level. Drainage area is 17.3 mi ² .	1951-03	4-10-03	6.17	991	3-12-63	8.40	2,500
North Fork Holston River near Gate City, VA (03490000)	Lat 36°36'31", long 82°34'05", NAD83, Scott County, Hydrologic Unit 06010101, on left bank 75 ft upstream from bridge on U.S. Highway 23, 1.6 mi downstream from Big Mountain Creek, 2.1 mi southeast of Gate City, and at mile 8.8. Datum of gage is 1,197.56 ft NGVD of 1929. Drainage area is 672 mi ² .	1932-81‡, 1982-03h	2-16-03	13.47	20,800	4-5-77 b1862	19.79 h22.5	41,000 h54,000
Clinch River at Richlands, VA (03521500)	Lat 37°05'10", long 81°46'51", NAD83, Tazewell County, Hydrologic Unit 06010205, on right bank 1.0 mi southeast of Richlands, 1.6 mi downstream from Middle Creek, 2.2 mi upstream from Big Creek, and at mile 321.0. Datum of gage is 1,924.08 ft NGVD of 1929. Drainage area	1946-89‡, 1990-03	2-16-03	11.62	4,560	b6-22-1901	h21.3	h11,500
Big Cedar Creek near Lebanon, VA (03523000)	Lat 36°54'29", long 82°02'19", NAD83, (formerly published as Cedar Creek near Lebanon) Russell County, Hydrologic Unit 06010205, on right bank 200 ft upstream from bridge on U.S. Highway 19 (business), 0.2 mi upstream from Roaring Spring Creek, 1.3 mi downstream from Little Cedar Creek, and 2.3 mi east of Lebanon. Datum of gage is 1,895.76 ft NGVD of 1929. Drainage area is 51.5 mi ² .	1953-59‡, 1960-77, 1991-94, 2001-03	2-16-03	4.26	2,130	3-18-02	5.83	c6,570
Guest River at Coeburn, VA (03524500)	Lat 36°55'45", long 82°27'23", NAD83, Wise County, Hydrologic Unit 06010205, on right bank 30 ft downstream from bridge on State Highway 72, 1.0 mi southwest of Coeburn, 1.4 mi upstream from Jaybird Branch, 1.8 mi downstream from Pine Camp Creek, and at mile 6.3. Datum of gage is 1,935.80 ft NGVD of 1929. Drainage area is 87.3 mi ² .	1950-59‡, 1960-78, 1979-81‡, 1982-03	2-16-03	13.93	6,340	4-5-77	20.95	18,000

‡ Operated as a continuous-record gaging station.

b Maximum known historical peak outside period of record.

c Approximate.

h Records provided by Tennessee Valley Authority.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations during water year 2003--Continued

Station name and number	Location and drainage area	Period of record (water years)	Water year 2003 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
TENNESSEE RIVER BASIN--Continued								
Stony Creek at Ka, VA (03524900)	Lat 36°48'57", long 82°37'02", NAD83, Scott County, Hydro- logic Unit 06010205, at Ka, on left bank 300 ft upstream from bridge on State High- way 619, 600 ft downstream from Straight Fork, and 4.2 mi upstream from mouth. Elevation of gage is 1,510 ft NGVD of 1929, from topo- graphic map. Drainage area is 30.9 mi ² .	1981‡, 1982-03	2-16-03	7.51	2,800	7-29-01	13.11	11,300
Copper Creek near Gate City, VA (03526000)	Lat 36°40'26", long 82°33'57", NAD83, Scott County, Hydro- logic Unit 06010205, on right bank on upstream end of old bridge pier, 50 ft upstream from bridge on State Highway 619, 0.2 mi upstream from Plank Camp Creek, 1.1 mi downstream from Obeys Creek, and 2.6 mi northeast of Gate City. Datum of gage is 1,301.95 ft above sea level. Drainage area is 106 mi ² .	1948-72‡, 1973-95, 1996-98‡, 1999-03	2-16-03	10.01	3,320	4-5-77	13.57	7,660
North Fork Powell River at Pennington Gap VA (03530500)	Lat 36°46'26", long 83°01'59", NAD83, Lee County, Hydro- logic Unit 06010206, near right bank on downstream side of abandoned highway bridge 75 feet east of U.S. Highway 421, 0.8 mi north of Pennington Gap, 1.3 mi downstream from Straight Creek, and at mile 4.7. Datum of gage is 1,363.02 ft above sea level. Drainage area is 71.4 mi ² .	1945-51‡, 1952-77, 1979-81‡, 1982-93, 1994-95‡, 2001-03	2-16-03	12.17	9,380	4-5-77	16.14	17,000

‡ Operated as a continuous-record gaging station.

FOOTNOTES FOR CREST-STAGE PARTIAL-RECORD STATIONS: 2003 water year

- * Discharge not determined.
- ‡ Operated as a continuous-record gaging station.
- < Less than.
- > Greater than.
- a Records provided by U.S. Department of Agriculture, Soil Conservation Service.
- b Maximum known historical peak outside period of record.
- c Approximate.
- d At different datum.
- e Affected by debris jam at upstream end of culvert
- f From rating then in use.
- g From high-water marks.
- h Records provided by Tennessee Valley Authority.

Special study and miscellaneous sites

Discharge measurements in the following table were made at special study and miscellaneous sites throughout the State. Data for miscellaneous sites provided by the Virginia Department of Environmental Quality - Water Division are noted by an "[a]".

Discharge measurements made at special study and miscellaneous sites during water year 2003

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
POTOMAC RIVER BASIN						
01614805 Opequon Creek	Potomac River	Lat 39°09'26", long 78°14'48", NAD83, Frederick County, at Route 622 at Opequon.	2.47	1950 2001-02	10-2-02 11-6-02 12-18-02 3-25-03 6-4-03	0.34 .68 2.59 4.00 4.58
01614820 Opequon Creek	Potomac River	Lat 39°07'48", long 78°13'32", NAD83, Frederick County, at old Route 628 near Opequon.	10.6	1952-54, 1963 2001-02	10-3-02 11-6-02 12-18-02 3-25-03 6-3-03	1.22 2.69 5.84 14.3 10.7
01615515 Old Town Spring	Town Run	Lat 39°11'16", long 78°10'35", NAD83, Frederick County, at Winchester at weir.	-	2001-02	10-2-02 11-7-02 11-19-02 3-27-03 8-12-03	0.45 0.53 0.56 0.67 0.58
01615518 Town Run tributary from Shawnee Spring	Town Run	Lat 39°10'20", long 78°09'45", NAD83, Frederick County, 30 ft above confluence with Town Run, at Winchester.	-	2001-02	10-2-02 11-7-02 12-19-02 3-27-03	1.03 1.22 1.40 1.45
01616075 Fay Spring	Redbud Run	Lat 39°12'18", long 78°07'50", NAD83, Frederick County, near Winchester at weir below springbox.	-	2001-02	10-2-02 11-7-02 12-19-02 3-27-03 8-11-03	1.27 1.59 2.50 2.74 1.55
01616300 Opequon Creek[a]	Potomac River	Lat 39°15'53", long 78°01'58", NAD83, Clarke-Frederick Counties, at State Highway 667 ford, at Virginia-West Virginia line, 1.9 mi north- east of Brucetown, and 23.6 mi upstream from mouth.	141	2002	1-22-03 4-22-03 6-10-03	91.9 226 241
01620826 Mossy Creek [b]	North River	Lat 38°20'29", long 79°05'01", NAD83, Augusta County, at bridge on State Highway 731, 0.2 mi southeast of Mt. Solon.	-	1941, 1950-54, 2002	10-24-02 3-10-03 7-14-03	.000 4.41 3.45
01620837 Big Spring [a]	Mossy Creek	Lat 38°20'29", long 79°05'07", NAD83, Augusta County, at bridge on State Highway 731, at Mt. Solon, and 0.2 mi upstream from mouth.	-	2002	10-24-02 3-10-03 7-14-03	8.96 18.6 16.3
01620842 Mossy Creek [a]	North River	Lat 38°21'07", long 79°02'56", NAD83, Augusta County, at bridge on State Highway 613, 2.0 mi east of Mt. Solon.	-	2002	10-24-02 3-10-03 7-14-03	8.96 18.6 16.3
01620850 Mossy Creek [a]	North River	Lat 38°23'13", long 79°00'51", NAD83, Rockingham County, at State Highway 727, 0.35 mi up- stream from mouth, and 1.5 mi southeast of Spring Creek.	-	2002	10-24-02 3-10-03 7-14-03	22.5 48.5 39.3
01621320 Long Glade Creek [a]	North River	Lat 38°17'43", long 78°02'43", NAD83, Augusta County, at culvert on State Highway 613, 2.4 mi southeast of Moscow.	-	2002	11-22-02 3-10-03 4-23-03 7-14-03 9-8-03	2.01 8.37 4.14 4.62 .293

a Provided by the Virginia Department of Environmental Quality - Water Division.

b Provided by both the U.S. Geological Survey and Virginia Department of Environmental Quality - Water Division.

Discharge measurements made at special study and miscellaneous sites during water year 2003--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
POTOMAC RIVER BASIN--Continued						
01621340 Long Glade Creek [a]	North River	Lat 38°22'38", long 78°58'58", NAD83, Rockingham County, at bridge on State Highway 42, 0.9 mi upstream from mouth, at Bridgewater.	-	2002	11-22-02	8.13
					3-10-03	28.3
					4-23-03	16.6
					7-14-03	15.4
					9-8-03	3.39
01624155 Moffett Creek [a]	Middle River	Lat 38°15'43", long 79°06'04", NAD83, Augusta County, at bridge on State Highway 835, 0.15 mi upstream from Elk Run, and 2.4 mi south of Parnassus.	-	2002	3-7-03	38.7
					4-23-03	12.5
					7-15-03	6.85
					9-8-03	2.62
01624175 Elk Run [a]	Moffett Creek	Lat 38°15'45", long 79°06'21", NAD83, Augusta County, at bridge on State Highway 835, 0.2 mi upstream from mouth, and 2.3 mi south of Parnassus.	-	2002	3-7-03	10.7
					4-23-03	5.76
					7-15-03	5.44
					9-8-03	2.72
01624550 Lewis Creek [a]	Middle River	Lat 38°10'58", long 78°58'32", NAD83, Augusta County, at bridge on State Highway 612, 0.6 mi upstream from mouth, and 2.2 mi southeast of Verona.	-	2002	10-1-02	5.78
					3-7-03	36.1
					4-16-03	33.6
					7-15-03	38.2
01624960 Polecat Draft [a]	Middle River	Lat 38°13'42", long 78°53'01", NAD83, Augusta County, at bridge on State Highway 608, 0.1 mi upstream from mouth, and 1.2 mi northeast of Piedmont.	-	2002	11-22-02	.154
					3-7-03	4.12
					4-16-03	4.09
					7-15-03	3.16
					9-8-03	1.41
01628585 Cub Run [a]	South Fork Shenandoah River	Lat 38°23'17", long 78°48'17", NAD83, Rockingham County, at bridge on U.S. Highway 33, at Penn Laird.	-	2002	10-1-02	.759
					10-24-02	1.24
					11-22-02	9.17
					2-3-03	3.75
					4-16-03	24.0
01628630 Cub Run [a]	South Fork Shenandoah River	Lat 38°20'21", long 78°43'25", NAD83, Rockingham County, at bridge on State Highway 650, at mouth, at Rocky Bar, and 2.0 mi southwest of Island Ford.	26.8	2002	7-34-03	6.50
					11-22-02	21.2
					2-3-03	4.03
					4-16-03	39.2
01629070 Quail Run [a]	Boone Run	Lat 38°24'27", long 78°40'42", NAD83, Rockingham County, at bridge on State Highway 602, 2.9 mi west of Elkton, and 3.0 mi upstream from mouth.	-	1975, 2002	4-16-03	7.00
01629935 Little Hawksbill Creek [a]	Hawksbill Creek	Lat 38°34'09", long 78°28'12", NAD83, Page County, at bridge on State Highway 626, 800 ft upstream from Beaver Run, and 1.6 mi east of Stanley.	-	2002	10-22-02	.776
					1-21-03	3.74
					4-15-03	10.1
01629945 Chub Run	Hawksbill Creek	Lat 38°34'31", long 78°27'31", NAD83, Page County, at culvert on State Highway 689, 2.2 mi east of Stanley, and 3.1 mi upstream from mouth.	3.16	1994, 1998-99	9-19-03 9-23-03	71.5
0162994750 Hawksbill Creek [a]	South Fork Shenandoah River	Lat 38°37'40", long 78°28'06", NAD83, Page County, at bridge on State Highway 629, 2.6 mi south of Luray.	-	2002	10-22-02	.749
					1-21-03	10.0
					4-15-03	60.6

a Provided by the Virginia Department of Environmental Quality - Water Division.

Discharge measurements made at special study and miscellaneous sites during water year 2003--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
POTOMAC RIVER BASIN--Continued						
01629980	Hawksbill Creek	Lat 38°38'55", long 78°27'13", NAD83, Page County, 0.3 mi downstream from State Highway 642, 0.8 mi upstream from mouth, and 1.2 mi southeast of Luray.	-	2002	10-22-02 1-21-03 4-15-03	8.17 16.3 50.3
01630540	South Fork Shenandoah River	Lat 38°42'29", long 78°27'23", NAD83, Page County, at bridge on State Highway 648, 0.96 mi upstream of mouth, and 3.0 mi north of Luray.	68.9	1963, 1969, 1978-79, 1982, 2002	10-22-02 1-21-03 4-15-03	18.2 43.0 181
01630544	Hawksbill Pass Run [a]	Lat 38°42'30", long 78°27'22", NAD83, Page County, near bridge on State Highway 648, at mouth, at Springfield, and 3.1 mi north of Luray.		1963, 2002	10-22-02 1-21-03 4-15-03	7.88 14.5 55.0
01632825	Mountain Run [a]	Lat 38°29'37", long 78°42'09", NAD83, Rockingham County, at Fridley Gapin George Washington National Forest, 0.02 mi upstream from mouth, and 4.8 mi southeast of Lacey Spring.		-	6-30-03 7-24-03 8-20-03 9-30-03	2.76 1.45 1.38 5.11
01632833	Smith Mountain Run [a]	Lat 38°29'58", long 78°44'22", NAD83, Rockingham County, at bridge on State Highway 620, 0.93 mi upstream from mouth, and 3.3 mi southeast of Lacey Spring.		-	6-30-03 7-24-03 8-20-03 9-30-03	5.65 3.61 2.48 9.26
016633730	North Fork Toms Brook [a]	Lat 38°56'42", long 78°26'31", NAD83, Shenandoah County, at bridge on U.S. Highway 11, at Toms Brook.	9.35	1952-54, 1969, 1994-99	4-17-03	
01633731	North Fork Toms Brook [a]	Lat 38°56'36", long 78°26'12", NAD83, Shenandoah County, at bridge on State Highway 653, 2.22 mi upstream from mouth, and at Toms Brook.		-	4-17-03 5-29-03 6-30-03 7-24-03 8-20-03 9-30-03	15.9 9.06 7.78 4.29 3.37 8.62
01633735	North Fork Toms Brook [a]	Lat 38°55'43", long 78°25'36", NAD83, Shenandoah County, 100 ft upstream from Jordan Run, 0.7 mi from mouth, and 1.4 mi southeast of Toms Brook.		-	4-17-03 5-29-03 6-30-03 7-24-03 8-20-03 9-30-03	20.6 12.4 9.68 5.81 4.95 10.6
01633744	Toms Jordan Run [a]	Lat 38°55'43", long 78°25'52", NAD83, Shenandoah County, at bridge on State Highway 645, 0.29 mi upstream from mouth, and 1.3 mi south of Toms Brook.		-	4-17-03 5-29-03 6-30-06 7-24-03 8-20-03 9-30-03	5.06 2.85 3.03 1.76 1.13 2.36
01633745	North Fork Toms Brook [a]	Lat 38°55'35", long 78°25'29", NAD83, Shenandoah County, at bridge on State Highway 747, 0.2 mi downstream from Jordan Run, 0.54 mi upstream from mouth, and 1.6 mi southeast of Toms Brook.	16.2	1969	4-17-03 5-29-03 6-30-03 7-24-03 8-20-03 9-30-03	29.8 18.8 13.4 8.40 6.20 13.9
01635005	Cedar Creek Fawcett Run	Lat 39°04'58", long 78°19'21", NAD83, Frederick County, below Marlboro Spring at Marlboro.	7.24	2001-02	10- 3-02 11- 6-02 12-18-02 3-26-03 6- 3-03	1.51 2.70 6.52 14.8 7.97

a Provided by the Virginia Department of Environmental Quality - Water Division.

Discharge measurements made at special study and miscellaneous sites during water year 2003--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
POTOMAC RIVER BASIN--Continued						
01635008 Fawcett Run	Cedar Creek	Lat 39°04'44", long 78°19'36", NAD83, Frederick County, above mouth at Marlboro.	7.38	2001-02	10- 3-02 11- 6-02 12-18-02 3-26-03 6- 3-03	1.54 2.64 6.94 14.1 8.47
01635070 Vaucluse Spring	Meadow Brook	Lat 39°03'45", long 78°15'37", NAD83, Frederick County, near Middletown.	-	2001-02	10- 4-02 11- 6-02 12-18-02 3-26-03 6- 5-03 8- 12-03	1.39 2.27 3.17 5.52 4.96 4.67
01643715 Cromwells Run [a]	Goose Creek	Lat 38°58'20", long 77°47'26", NAD83, Fauquier County, at culvert on U.S. Highway 50, 0.4 mi upstream from Rocky Creek, and 3.0 mi west of Middleburg.	-	2002	11-20-02 4-22-03 6-10-03	23.1 35.5 38.3
01643720 Rocky Creek [a]	Cromwells Run	Lat 38°58'25", long 77°47'42", NAD83, Fauquier County, at culvert on U.S. Highway 50, 0.4 mi upstream from mouth, and 3.0 mi west of Middleburg.	-	2002	11-20-02 4-22-03 6-10-03	2.72 2.33 3.15
01643988 Little River [a]	Goose Creek	Lat 39°00'25", long 77°36'52", NAD83, Loudoun County, at bridge on U.S. Highway 15, 1.55 mi upstream from mouth, and 1.6 mi south of Oatlands.	47.7	1942, 1963, 1968-69, 1979-80, 2002	11-20-02	68.9
01644110 Sycolin Creek [a]	Goose Creek	Lat 39°04'20", long 77°31'08", NAD83, Loudoun County, at proposed Goose Creek Industrial Park WWTP discharge, 0.2 mi up- stream from mouth, and 3.8 mi southeast of Leesburg.	17.3	1993-97, 1999, 2002	11-20-02	19.0
01655925 Licking Run [a]	Cedar Run	Lat 38°37'15", long 77°39'29", NAD83, Fauquier County, at bridge on State Highway 616, 1.0 mi south of Calverton, and 1.4 mi upstream from mouth.	-	2002	10-3-02 12-3-02 2-13-03 4-2-03 6-12-03 7-7-03	.040 3.49 8.10 36.2 47.5 8.03
RAPPAHANNOCK RIVER BASIN						
01661995 Carter Run [a]	Rappahannock River	Lat 38°41'57", long 77°54'25", NAD83, Fauquier County, at bridge on State Highway 688, 0.25 mi upstream from mouth, and 4.2 mi north of Jeffersonton.	-	1951-54, 2002	10-3-02 12-3-02 2-13-03 4-2-03 6-12-03 7-7-03	.040 3.49 8.10 36.2 47.5 8.03
01662065 Great Run [a]	Rappahannock River	Lat 38°38'34", long 77°51'34", NAD83, Fauquier County, at bridge on State Highway 687, 1.7 mi upstream from mouth, and 1.7 mi south of Turnbull.	-	1963, 2002	12-4-02 4-2-03 6-12-03 7-7-03	8.58 40.9 32.5 15.6
01663750 Muddy Run [a]	Hazel River	Lat 38°32'34", long 78°02'34", NAD83, Culpeper County, at bridge on State Highway 729, 0.75 mi upstream from Apperson Creek, and 2.4 mi northeast of Norman.	-	2002	12-4-02 4-2-03 7-7-03	1.79 9.12 11.5

a Provided by the Virginia Department of Environmental Quality - Water Division.

Discharge measurements made at special study and miscellaneous sites during water year 2003--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
RAPPAHANNOCK RIVER BASIN--Continued						
01663830 Muddy Run [a]	Hazel River	Lat 38°33'43", long 77°55'29", NAD83, Culpeper County, at bridge on State Highway 625, 0.9 mi upstream from mouth, and 3.1 mi southeast of Rixeyville.	-	2002	12-4-02	6.73
					4-2-03	41.2
					7-7-03	43.6
01665220 Deep Run [a]	Rappahannock River	Lat 38°27'06", long 77°37'42", NAD83, Fauquier-Stafford County, at bridge on State Highway 615, 0.5 mi upstream from Alcott Run, and 1.5 mi east of Goldvein.	15.4	1963, 1981-84, 2002	10-3-02	.013
					12-3-02	2.17
					2-13-03	6.25
					4-2-03	23.6
					6-12-03	14.8
01665228 Deep Run [a]	Rappahannock River	Lat 38°25'49", long 77°37'46", NAD83, Fauquier-Stafford County, at bridge on U.S. Highway 17, 1.7 mi upstream from mouth, and 1.9 mi southeast of Goldvein.	-	2002	10-3-02	.010
					12-3-02	3.19
					2-13-03	14.6
					4-2-03	44.5
					6-12-03	23.5
0166828230 Occupacia Creek [a]	Rappahannock River	Lat 38°02'39", long 77°00'20", NAD83, Essex County, at bridge on U.S. Highway 17, at Occupacia, 1.0 mi south of Chance, and 10.47 mi upstream of mouth	-		8-6-03	23.2
					9-10-03	9.77
01668700 Mount Landing Creek [a]	Rappahannock River	Lat 37°57'44", long 76°56'10", NAD83, Essex County, at bridge on State Highway 716, 1.7 mi north of Mount Landing, and 4.5 mi upstream from mouth.	-	2002	12-4-02	3.82
					2-6-03	13.7
					8-6-03	22.9
					9-10-03	5.24
YORK RIVER BASIN						
01673010 Mechumps Creek [a]	Pamunkey River	Lat 37°45'31", long 77°21'52", NAD83, Hanover County, at culvert on U.S. Highway 301, 0.3 mi south of Hanover.	-	1976, 1983-84, 2002	10-16-02	39.1
					10-23-02	1.28
					1-13-03	8.54
					3-12-03	16.5
					4-24-03	19.7
					5-19-03	40.7
01673600 Mata-dequin Creek [a]	Pamunkey River	Lat 37°37'03", long 77°08'16", NAD83, Hanover County, at bridge on State Highway 606, 1.3 mi upstream from mouth, and 3.2 mi northwest of Tunstall.	29.1	1980-83, 1991, 2002	10-16-02	19.6
					10-23-02	8.01
					11-26-02	16.0
01674160 Polecat Creek [a]	Mattaponi River	Lat 37°58'09", long 77°32'19", NAD83, Caroline County, 150 ft downstream from culvert on State Highway 601, 0.7 mi northeast of Cedar Fork, and 2.1 mi west of Golansville.	1.15	1994-02	10-1-02	.000
					12-10-02	.212
					2-12-03	1.20
					4-9-03	15.5
					6-10-03	1.39
					8-12-03	.215
01674172 Polecat Creek [a]	Mattaponi River	Lat 37°58'13", long 77°29'12", NAD83, Caroline County, 150 ft upstream from bridge on State Highway 652, 0.5 mi upstream from Stevens Mill Run, and 1.1 mi southeast of Golansville.	10.8	1994-02	10-1-02	.000
					12-10-02	4.2
					2-12-03	9.79
					4-9-03	174
					6-10-03	11.6
					8-12-03	3.14
01674174 Stevens Mill Run [a]	Polecat Creek	Lat 37°59'20", long 77°29'49", NAD83, Caroline County, 100 ft downstream from bridge on State Highway 601, 0.6 mi north of Golansville, 0.8 mi downstream from Lake Caroline, and 1.6 mi upstream from mouth.	9.50	1994-02	10-1-02	.330
					12-10-02	2.49
					2-12-03	6.02
					4-9-03	73.8
					6-10-03	18.3
					8-12-03	3.90

Discharge measurements made at special study and miscellaneous sites during water year 2003--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
YORK RIVER BASIN--Continued						
01674180 Polecat Creek [a]	Mattaponi River	Lat 37°57'20", long 77°22'07", NAD83, Caroline County, 200 ft upstream from bridge on State Highway 601, 0.25 mi southeast of Penola, and 2.2 mi upstream from mouth.	48.3	1994-02	10-1-02 12-10-02 2-12-03 4-9-03 6-10-03 8-12-03	.000 18.6 31.3 235 106 34.3
JAMES RIVER BASIN						
02019480 Looney Creek [a]	James River	Lat 37°30'58", long 79°42'33", NAD83, Botetourt County, at bridge on State Highway 625, 500 ft upstream from Long Run, 0.4 mi upstream from mouth, and 1.8 mi west of Buchanan.	-	2002	2-11-03 3-4-03 4-21-03 6-27-03 7-28-03	19.4 116 76.6 93.1 47.0
02019485 Long Run [a]	Looney Creek	Lat 37°31'02", long 79°42'34", NAD83, Botetourt County, at bridge on State Highway 625, 400 ft upstream from mouth, and 1.8 mi west of Buchanan.	-	2002	3-4-03	3.41
02024760 Reed Creek [a]	James River	Lat 37°30'10", long 79°24'06", NAD83, at bridge on State High- way 637, 0.3 mi upstream from Meadow Creek, 3.0 mi southwest of Big Island, and 4.9 mi up- stream from mouth.	7.46	1981-84, 2002	1-15-03 3-4-03 4-21-03 6-27-03 7-28-03	8.13 20.1 16.4 15.6 6.07
02024765 Meadow Creek [a]	Reed Creek	Lat 37°30'13", long 79°24'09", NAD83, Bedford County, at bridge on State Highway 637, 0.3 mi up- stream from mouth, and 3.0 mi southwest of Big Island.	-	2002	1-15-03 3-4-03 4-21-03 6-27-03 7-28-03	6.29 14.2 13.1 14.6 5.66
0203668775 Tuckahoe Creek [a]	James River	Lat 37°34'09", long 77°38'10", NAD83, Goochland-Henrico County line, 0.2 mi upstream from mouth, and 2.2 mi south of Tuckahoe Village.	-	2002	10-16-02 10-23-02 11-26-02 1-13-03 3-12-03 4-24-03	119 15.6 28.6 28.0 49.4 35.6
02037800 Falling Creek	James River	Lat 37°27'16", long 77°35'19", NAD83, Chesterfield County, at bridge on State Highway 653, upstream from Horners Run, and 4 mi southeast of Midlothian.	18.1	1953, 1973, 1975	9-19-03	904
02038731 Fourmile Creek [a]	James River	Lat 37°25'58", long 77°19'32", NAD83, Henrico County, at bridge on State Highway 5, 0.9 mi down- stream from Deerlick Branch, 3.6 upstream from mouth, and 4.4 mi southeast of Richmond Heights.	-	-	10-23-02 11-26-02 4-24-03 5-19-03 6-17-03 8-21-03	1.42 4.27 5.20 13.2 4.28 3.16
0203873175 Fourmile Creek [a]	James River	Lat 37°25'21", long 77°18'31", NAD83, Henrico County, at bridge on Kingsland Road, 200 ft down- stream from Griggs Pond, and 5.0 mi southeast of Richmond Heights.	-	2002	10-23-02 11-26-02 4-24-03 5-19-03 6-17-03 8-21-03	2.65 6.21 7.07 19.1 4.96 3.42
02038880 Vaughans Creek [b]	Appomattox River	Lat 37°21'09", long 78°35'56", NAD83, Appomattox County, at bridge on State Highway 626, 3.3 mi northeast of Hixburg, and 3.9 mi upstream from mouth.	23.2	1980-81‡	12-17-02 3-17-03 4-29-03 6-23-03 7-21-03 9-9-03	18.0 23.3 13.9 20.7 14.5 12.5

‡ Operated as a continuous-record gaging station.

a Provided by the Virginia Department of Environmental Quality - Water Division.

b Provided by both the U.S. Geological Survey and Virginia Department of Environmental Quality - Water Division.

Discharge measurements made at special study and miscellaneous sites during water year 2003--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
JAMES RIVER BASIN--Continued						
02038892 Horsepen Creek [a]	Appomattox River	Lat 37°20'39", long 78°29'27", NAD83, Buckingham County, at bridge on State Highway 683, 0.4 mi upstream from mouth, and 3.3 mi south of Sheppards.	-	-	12-17-02	4.31
					3-17-03	3.19
					4-29-03	3.09
					6-23-03	3.77
					7-21-03	2.09
9-9-03	1.72					
02038945 Spring Creek [a]	Buffalo Creek	Lat 37°13'08", long 78°35'25", NAD83, Prince Edward County, at bridge on State Highway 659, 1.0 mi upstream from Mud Creek, and 1.5 mi northeast of Darlington Heights.	-	-	12-17-02	16.7
					3-17-03	15.8
					4-29-03	10.2
					6-23-03	16.9
					7-21-03	9.78
9-9-03	10.4					
02038955 Mud Creek [a]	Spring Creek	Lat 37°13'48", long 78°35'52", NAD83, Prince Edward County, at bridge on State Highway 659, 1.5 mi upstream from mouth, and 2.0 mi north of Darlington Heights.	-	-	12-17-02	5.68
					3-17-03	6.56
					4-29-03	5.90
					6-23-03	7.59
					7-21-03	5.80
9-9-03	5.20					
02038970 Spring Creek [a]	Buffalo Creek	Lat 37°13'58", long 78°31'13", NAD83, Prince Edward County, at bridge on State Highway 700, 1.46 mi upstream from mouth, and 3.3 mi west of Hampden Sydney.	-	-	12-17-02	32.2
					3-17-03	31.3
					4-29-03	25.7
					6-23-03	34.6
					7-21-03	19.9
9-9-03	19.3					
02039525 Bush River [a]	Sandy River	Lat 37°08'50", long 78°24'23", NAD83, Prince Edward County, at bridge on State Highway 630, 500 ft downstream from Goodes Branch, and 6.0 mi south of Worsham.	-	1963	12-17-02	19.1
					3-17-03	11.4
					4-29-03	12.2
					6-23-03	15.8
					9-9-03	10.3
02039550 Bush River [a]	Sandy River	Lat 37°16'42", long 78°21'05", NAD83, Prince Edward County, at bridge on U.S. Highway 460, 2.8 mi upstream from mouth, and 3.1 mi west of Rice.	-	1944, 1952-54, 1963, 1990	1-9-03	41.0
					3-17-03	38.1
					4-30-03	31.5
					6-24-03	46.2
02039580 Tanyard Branch [a]	Briery Creek	Lat 37°14'27", long 78°25'13", NAD83, Prince Edward County, at culvert on State highway 646, at Farmville Lake spillway, and 2.0 mi east of Hampden Sydney.	-	-	12-17-02	1.86
					3-17-03	1.38
					4-29-03	.938
					6-23-03	1.70
					9-9-03	.574
02039600 Briery Creek [a]	Bush River	Lat 37°16'50", long 78°21'50", NAD83, Prince Edward County, at bridge on U.S. Highway 460, 1.0 mi upstream from mouth, and 4.1 mi west of Rice.	41.5	1951-54, 1963, 1981-85	1-9-03	66.7
					3-18-03	11.7
					4-30-03	21.1
					6-25-03	35.2
02039680 Little Sandy Creek [a]	Sandy River	Lat 37°12'31", long 78°19'13", NAD83, Prince Edward County, at bridge on State Highway 612, 2.4 mi upstream from mouth, and 3.6 mi southwest of Moran.	-	1963	1-9-03	4.24
					3-17-03	4.47
					4-29-03	4.12
					6-24-03	4.81
					9-11-03	2.10
02039760 Saylers Creek [a]	Appomattox River	Lat 37°19'36", long 78°15'32", NAD83, Prince Edward County, upstream from bridge on State Highway 619, upstream from Little Saylers Creek, 1.3 mi upstream from mouth, and 4.1 mi northeast of Rice.	-	-	1-9-03	6.88
					3-18-03	8.22
					4-30-03	8.11
					6-24-03	8.04
					9-10-03	3.94
02039780 Little Saylers Creek [a]	Saylers Creek	Lat 37°19'36", long 78°15'33", NAD83, Prince Edward County, 50 ft upstream from bridge on State Highway 619, 50 ft up- stream from mouth, and 4.1 mi northeast of Rice.	-	-	1-9-03	8.61
					3-18-03	10.1
					4-30-03	9.15
					6-24-03	10.4
					9-10-03	5.14

Discharge measurements made at special study and miscellaneous sites during water year 2003--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
JAMES RIVER BASIN--Continued						
02039781 Saylers Creek [a]	Appomattox River	Lat 37°19'37", long 78°15'34", NAD83, Prince Edward County, at bridge on State Highway 619, downstream from Little Saylers Creek, and 4.1 mi northeast of Rice.	-	1963	1-9-03	15.5
					3-18-03	18.4
					4-30-03	17.3
					6-24-03	18.4
					9-10-03	9.08
02039800 Angola Creek [a]	Appomattox River	Lat 37°22'18", long 78°17'48", NAD83, Cumberland County, at bridge on State Highway 664, 3.3 mi upstream from mouth, and 3.9 mi southwest of Angola.	6.74	1981-84	1-8-03	3.74
					3-18-03	3.77
					4-30-03	2.52
					6-24-03	4.06
02039817 Dawsons Creek [a]	Appomattox River	Lat 37°22'48", long 78°13'20", NAD83, Cumberland County, at culverts on State Highway 619, 0.44 mi upstream from mouth, and 1.8 mi southeast of Angola.	-	-	1-8-03	2.81
					3-18-03	3.22
					4-30-03	2.64
					6-24-03	4.02
					9-10-03	2.10
02039825 Sandy Creek [a]	Appomattox River	Lat 37°22'41", long 78°12'30", NAD83, Cumberland County, at bridge on State Highway 650, 2.08 mi upstream from mouth, and 2.3 mi southeast of Angola.	-	1963	1-8-03	7.83
					3-18-03	6.39
					4-30-03	3.24
					6-24-03	4.92
					9-10-03	2.05
02039850 Horsepen Creek [a]	Big Guinea Creek	Lat 37°25'03", long 78°16'48", NAD83, Cumberland County, at culverts on State Highway 660, 0.42 mi upstream from mouth, and 2.4 mi northwest of Angola.	-	-	3-18-03	2.28
					4-30-03	2.10
					6-24-03	2.39
					9-10-03	.786
02039865 Big Guinea Creek [a]	Appomattox River	Lat 37°26'33", long 78°12'25", NAD83, Cumberland County, at bridge on State highway 600, 0.4 mi downstream from Tear Wallet Creek, 1.4 mi upstream from mouth, and at Stony Point Mills.	-	1963	1-8-03	25.3
					3-18-03	23.8
					4-30-03	18.7
					6-24-03	21.7
					9-10-03	7.48
02040590 Nibbs Creek [a]	Flat Creek	Lat 37°22'03", long 77°59'32", NAD83, Amelia County, 150 ft upstream from Courthouse Branch, 0.2 mi downstream from bridge on State Highway 681, and 1.8 mi north of Amelia Courthouse.	17.8	1996-01	1-10-03	6.25
					3-19-03	7.46
					6-25-03	9.15
02040610 Nibbs Creek [a]	Flat Creek	Lat 37°23'54", long 77°57'18", NAD83, Amelia County, at bridge on State Highway 636, 1.5 mi up- stream from mouth, and 2.5 mi north- west of Winterham.	-	-	1-10-03	11.2
					3-19-03	12.2
					6-25-03	15.3
02040685 Flat Creek [a]	Appomattox River	Lat 37°23'59", long 77°54'27", NAD83, Amelia County, at bridge on State Highway 632, 0.15 mi downstream from Barkhouse Branch, and 0.7 mi north of Chula.	-	-	1-10-03	75.8
					3-19-03	87.1
					6-25-03	88.8
02040965 West Creek [a]	Deep Creek	Lat 37°15'21", long 77°58'54", NAD83, Amelia County, at bridge on State Highway 614, 0.6 mi north of Denaro, and 4.96 mi up- stream from mouth.	-	-	1-14-03	18.0
					3-19-03	25.0
					6-25-03	31.2
2041125 Long Branch [a]	Winticomack Creek	Lat 37°12'59", long 77°47'27", NAD83, Amelia County, at culvert on State Highway 600, 1.3 mi west of Ammon, and 1.9 mi up- stream from mouth.	-	2002	10-10-02	.000
					3-19-03	1.13
					6-11-03	2.48
					7-22-03	.393

a Provided by the Virginia Department of Environmental Quality - Water Division.

Discharge measurements made at special study and miscellaneous sites during water year 2003--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
JAMES RIVER BASIN--Continued						
002041130 Winticomack Creek [a]	Appomattox River	Lat 37°15'14", long 77°49'19", NAD83, Amelia County at bridge on State Highway 622, 1.2 mi upstream from mouth, and 4.6 mi east of Mannboro.	-	2002	10-10-02	.000
					1-14-03	6.92
					3-19-03	12.4
					6-11-03	24.9
					7-22-03	2.58
02041150 Winterpock Creek [b]	Lake Chesdin	Lat 37°21'39", long 77°42'55", NAD83, Chesterfield County, at State Highway 664, 1.2 mi north of Winterpock, and 4.1 mi upstream from Surline Branch.	3.77	1981-84, 2002	10-10-02	.000
					1-14-03	1.04
					3-19-03	1.57
					6-11-03	4.26
					7-22-03	.287
02041160 Winterpock Creek [a]	Lake Chesdin	Lat 37°19'51", long 77°43'39", NAD83, Chesterfield County, at State Highway 602, 1.1 mi south of Winterpock, and 3.2 mi upstream from mouth.	-	2002	10-10-02	.000
02041810 Swft Creek [a]	Appomattox River	Lat 37°27'19", long 77°42'11", NAD83, Chesterfield County, at bridge on State Highway 667 and 2.6 mi southeast of Hallsboro.	-	1987-88, 1991-93,	1-14-03	4.47
					3-19-03	6.78
02042272 Unnamed Tributary [a] (No. 13)	Chickahominy River	Lat 37°41'46", long 77°32'55", NAD83, Hanover County, at culvert on private road, 0.84 mi upstream from mouth, and 2.8 mi northwest of Glen Allen.	-	-	10-16-02	2.37
					11-26-03	1.44
					1-13-03	1.49
					3-12-03	1.16
					4-7-03	13.0
					4-24-03	1.12
					5-19-03	2.65
					6-17-03	1.94
8-21-03	.920					
02042455 White Oak Swamp [b]	Chickahominy River	Lat 37°28'06", long 77°12'31", NAD83, Henrico County, at bridge on State Highway 156, at Elko.	23.6	1984-85, 1987-89, 1991, 1995-98, 2002	10-23-02	4.38
					11-26-02	7.70
CHOWAN RIVER BASIN						
02044225 Big Hounds Creek [a]	Nottoway River	Lat 36°59'47", long 78°07'35", NAD83, Lunenburg County, at bridge on State Highway 653, 2.4 mi north of Kenbridge, and 3.73 mi upstream from mouth.	-	-	9-11-03	5.46
02044290 Little Nottoway River [a]	Nottoway River	Lat 37°03'48", long 78°03'01", NAD83, Nottoway County, at bridge on State Highway 626, 2.9 mi southwest of Blackstone, and 4.68 mi upstream from mouth.	-	-	9-11-03	20.3
02044405 Hurricane Branch [a]	Nottoway River	Lat 37°03'39", long 77°58'47", NAD83, Nottoway County, at bridge on State Highway 643 1.6 mi southeast of Blackstone.	5.61	2000-02	7-19-03	3.37
					9-9-03	1.52
02044410 Unnamed tributary [a]	Hurricane Branch	Lat 37°02'28", long 77°57'18", NAD83, Nottoway County, at Fort Picket sewage treatment plant, 1.0 mi upstream from mouth, and 3.5 mi southeast of Blackstone.	-	2000-02	7-9-03	2.60
					9-9-03	1.33
020445500 Beaver Pond Creek [a]	Nottoway River	Lat 36°59'08", long 77°48'01", NAD83, Dinwiddie County, at bridge on State Highway 612, 0.12 mi upstream from mouth, and 2.7 mi northwest of Rawlings.	-	-	9-11-03	3.56

a Provided by the Virginia Department of Environmental Quality - Water Division.

b Provided by both the U.S. Geological Survey and Virginia Department of Environmental Quality - Water Division.

Discharge measurements made at special study and miscellaneous sites during water year 2003--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
CHOWAN RIVER BASIN--Continued						
02051625 Roses Creek [a]	Great Creek	Lat 36°48'44", long 77°52'56", NAD83, Brunswick County, at bridge on State Highway 646, 3.5 mi south of Alberta, and 6.7 mi upstream from mouth.	-	2002	10-7-02	.113
					11-25-02	1.61
					3-11-03	5.43
					6-17-03	7.38
					8-19-03	2.53
02051715 Roses Creek [a]	Great Creek	Lat 36°44'57", long 77°50'15", NAD83, Brunswick County, at bridge on U.S. Highway 58, 0.4 mi upstream from mouth, and 0.7 mi southeast of Lawrenceville.	-	2002	10-7-02	.610
					11-25-02	9.25
					3-11-03	24.8
					6-17-03	37.3
					8-19-03	13.6
ROANOKE RIVER BASIN						
02054190 Wilson Creek [a]	North Fork Roanoke River	Lat 37°11'23", long 80°21'30", NAD83, Montgomery County, at bridge on State Highway 603 at Ellett, 400 ft downstream from Cedar Run, and 0.4 mi upstream from mouth.	-	2002	10-9-02	2.10
					11-7-02	7.90
					2-6-03	5.84
					3-26-03	16.6
					6-4-03	25.9
					8-15-03	9.71
02055370 Carvin Creek [a]	Tinker Creek	Lat 37°19'16", long 79°56'03", NAD83, Roanoke City, at culverts on State Highway 115, at Roanoke City - Roanoke County boundary, and 0.28 mi upstream from mouth.	-	-	2-11-03	6.80
					3-28-03	25.1
					4-25-03	19.0
					7-18-03	10.4
					8-28-03	6.45
02055515 Lick Run [a]	Tinker Creek	Lat 37°16'20", long 79°56'07", NAD83 Roanoke City, along Norfolk Avenue, 300 ft downstream from U.S. Highway 220, and 1.0 upstream from mouth.	5.00	1994-00, 2002	4-25-03	19.0
0205551610 Tinker Creek [a]	Roanoke River	Lat 37°16'43", long 79°57'15", NAD83, Roanoke City, at bridge on Wise Avenue, 0.2 mi upstream from Glade Creek, and 1.0 mi west of Vinton.	-	2002	2-11-03	29.2
					3-28-03	78.9
					7-18-03	78.7
					8-28-03	55.6
0205551810 Laymantown Creek [a]	Glade Creek	Lat 37°20'23", long 79°51'08", NAD83, Botetourt County, at bridge on U.S. Highway 460, 0.37 mi upstream from mouth, and 1.4 mi north of Bonsack.	-	-	2-11-03	2.06
					3-28-03	3.32
					4-25-03	3.97
					7-18-03	4.76
02055520 Glade Creek [a]	Tinker Creek	Lat 37°16'45", long 79°54'26", NAD83, Roanoke County, at bridge on Walnut Avenue, at Vinton, and 0.2 mi upstream from mouth.	32.9	1968, 2002	2-11-03	12.7
					3-28-03	24.7
					4-25-03	28.7
					7-18-03	25.9
					8-28-03	26.2
02063460 Falling River [a]	Roanoke River	Lat 37°15'45", long 78°54'01", NAD83, Appomattox County, at bridge on State Highway 650, 1.6 mi northeast of Spring Mills, and 25.34 mi upstream from mouth.	-	-	1-15-03	18.0
					4-3-03	36.7
					6-18-03	68.5
					7-14-03	31.8
					8-13-03	30.3
					9-16-03	81.4
02063770 South Fork Falling River [a]	Falling River	Lat 37°12'10", long 78°57'45", NAD83, Campbell County, at bridge on State Highway 648, 0.66 mi upstream from mouth, and 3.8 mi southwest of Spring Mills.	-	1953	1-15-03	22.6
					4-3-03	42.0
					6-18-03	79.9
					7-17-03	31.8
					8-13-03	26.6
					9-16-03	17.5

a Provided by the Virginia Department of Environmental Quality - Water Division.

Discharge measurements made at special study and miscellaneous sites during water year 2003--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
ROANOKE RIVER BASIN--Continued						
02065260 Turnip Creek [a]	Roanoke River	Lat 37°00'53", long 78°51'04", NAD83, Charlotte County, at bridge on State Highway 619, 2.3 mi southwest of Aspem, and 2.55 mi upstream from mouth.	-	-	8-18-03	12.1
					9-29-03	24.1
02066455 Ash Camp Creek [a]	Roanoke Creek	Lat 37°01'58", long 78°33'50", NAD83, Charlotte County, at culvert on State Highway 654, 1.1 mi southwest of Eureka, and 2.6 mi upstream from mouth.	-	1978, 2002	10-8-02	.172
					4-3-03	4.72
					7-16-03	2.38
02066520 Twittys Creek [a]	Roanoke Creek	Lat 36°59'23", long 78°36'12", NAD83, Charlotte County, at Drakes Branch sewage treat- ment plant discharge, at Drakes Branch, 0.25 mi downstream from bridge on State Highway 47.	22.7	1981,, 1995, 1997-98, 2002	4-3-03	16.4
					7-16-03	4.53
02066525 Twittys Creek [a]	Roanoke Creek	Lat 36°55'43", long 78°39'41", NAD83, Charlotte County, at bridge on State Highway 637, at Saxe, and 0.3 mi upstream from mouth.	-	2002	10-8-02	.030
					4-3-03	21.1
					7-16-03	7.21
					9-29-03	17.2
02067020 Buffalo Creek [a]	Roanoke River	Lat 36°48'04", long 78°38'33", NAD83, Charlotte County, at bridge on State Highway 608, 0.2 mi downstream from Bruce Spring Branch, 1.85 mi upstream from mouth, and 2.0 mi northwest of Red Oak.	-	-	8-18-03	2.72
					9-29-03	3.19
02067250 Difficult Creek [a]	John H. Kerr Reservoir	Lat 36°45'14", long 78°42'27", NAD83, Halifax County, at bridge on State Highway 716, 0.2 mi downstream from Wilmouth Branch, and 1.8 mi northeast of Dryburg.	-	2002	10-8-02	2.76
					2-12-03	52.3
02075350 Powells Creek	Dan River	Lat 36°34'51", long 79°11'19", NAD83, Halifax County, at culvert on U.S. Highway 58, 1.1 mi east of Halifax-Pittsylvania County line, and 8.8 mi southwest of Turbeville.	.28	1993, 1996, 1998-99	11-13-02	.66
					4-9-03	1.18
02075600 Birch Creek [b]	Dan River	Lat 36°42'12", long 79°13'02", NAD83, Pittsylvania County, at bridge on State Highway 729, 1.2 mi downstream from Gunther Branch, and 2.9 mi west of Birch.	19.8	1981-84, 2002	10-8-02	1.22
					2-12-03	16.2
					7-17-03	25.4
02075690 Unnamed Tributary [a] (No. 1)	Birch Creek	Lat 37°41'44", long 79°04'13", NAD83, Halifax County, at bridge on State Highway 683, 0.94 mi upstream from mouth, and 3.2 mi northeast of Elmo.	-	-	2-12-03	5.92
					3-11-03	5.62
					7-17-03	6.38
					8-18-03	4.23
02075700 Birch Creek [a]	Dan River	Lat 36°40'20", long 79°03'39", NAD83, Halifax County, at bridge on State Highway 659, 0.9 mi upstream from mouth, and 2.8 mi northwest of Paces.	-	2002	10-8-02	4.27
					2-12-03	54.5
					3-11-03	51.2
					7-17-03	77.0
					8-18-03	36.8

a Provided by the Virginia Department of Environmental Quality - Water Division.

b Provided by both the U.S. Geological Survey and Virginia Department of Environmental Quality - Water Division.

Discharge measurements made at special study and miscellaneous sites during water year 2003--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
ROANOKE RIVER BASIN--Continued						
02079666 Flat Creek [a]	Roanoke River	Lat 36°42'04", long 78°07'55", NAD83, Mecklenburg County, above new STP discharge, 0.3 mi upstream from State Highway 642, and 1.7 mi south of South Hill.	-	2002	10-7-02	.040
					11-25-02	.428
					2-12-03	.593
					3-31-03	2.56
					6-17-03	1.60
					6-26-03	.323
					7-16-03	.399
8-19-03	.519					
0207966605 Flat Creek [a]	Roanoke River	Lat 36°41'48", long 78°07'54", NAD83, Mecklenburg County, downstream side of STP dis- charge, at bridge on State Highway 642, and 2.0 mi south of South Hill.	-	1977, 2002	10-7-02	1.90
					11-25-02	1.82
					2-12-03	2.48
					3-31-03	4.86
					6-17-03	3.92
					6-26-03	2.13
					7-16-03	1.94
8-19-03	1.87					
0207966625 Flat Creek [a]	Roanoke River	Lat 36°37'56", long 78°10'16", NAD83, Mecklenburg County, at bridge on State highway 630, 2.0 mi southeast of Smiths Crossroads, and 2.3 mi upstream from mouth.	-	1977, 2002	10-7-02	.399
					11-25-02	7.25
					2-12-03	13.8
					3-31-03	61.3
					6-17-03	23.9
					6-26-03	9.72
					7-16-03	8.88
8-19-03	8.99					
0207966630 Parham Creek [a]	Flat Creek	Lat 36°38'50", long 78°08'52", NAD83, Mecklenburg County, at State Highway 629, 2.2 mi east of Smiths Crossroads.	-	2002	11-25-02	1.57
KANAWHA RIVER BASIN						
03171170 Crab Creek [a]	New River	Lat 37°09'26", long 80°28'14", NAD83, Montgomery County, at Town of Christiansburg old dis- charge, 200 ft upstream from culvert on State Highway 660, and 3.9 mi northwest of Christiansburg.	13.8	1995-00, 2002	10-9-02	3.34
					11-7-03	7.20
					3-26-03	14.0
					6-4-03	18.8
03171215 Stroubles Creek [a]	New River	Lat 37°11'58", long 80°27'00", NAD83, Montgomery County, at bridge on State Highway 657, 2.3 mi east of Prices Fork, and 6.69 mi upstream from mouth.	-	2002	10-9-02	2.08
					11-7-03	5.96
					2-6-03	3.58
					3-26-03	7.20
					6-4-03	17.6
					8-15-03	6.95
8-27-03	5.18					
03171220 Stroubles Creek [a]	New River	Lat 37°11'02", long 80°30'03", NAD83, Montgomery County, at bridge on State Highway 705, 0.35 mi upstream from Slate Branch, 2.41 mi upstream from mouth, and 5.0 mi northeast of Radford.	-	2002	10-9-02	1.51
					11-7-02	8.01
					2-6-03	5.49
					3-26-03	10.9
					6-4-03	33.5
					8-15-03	8.19
8-27-03	5.95					
03171225 Slate Branch [a]	Stroubles Creek	Lat 37°10'45", long 80°29'52", NAD83, Montgomery County, at bridge on State Highway 705, 0.5 mi upstream from mouth, and 6.0 mi northwest of Christiansburg.	-	2002	10-9-02	.806
					11-7-02	5.87
					2-6-03	4.02
					3-26-03	7.95
03171350 Back Creek [a]	New River	Lat 37°10'01", long 80°42'07", NAD83, Pulaski County, at bridge on State Highway 100, 1.2 mi downstream from Carper Branch, and 1.5 mi west of Highland.	-	2002	10-9-02	7.40
					11-6-02	35.0
					3-26-03	25.7
					6-4-03	29.6
					8-27-03	8.82

a Provided by the Virginia Department of Environmental Quality - Water Division.

Discharge measurements made at special study and miscellaneous sites during water year 2003--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
KANAWHA RIVER BASIN--Continued						
03171405 Back Creek [a]	New River	Lat 37°12'10", long 80°36'41", NAD83, Pulaski County, at bridge on State Highway 600, at Parrott, and 0.3 mi downstream from Neck Creek.	-	2002	10-9-02 11-6-03 3-26-03 6-4-03 8-27-03	9.48 57.8 48.5 56.0 18.7
03174680 Hunting Camp Creek [a]	Wolf Creek	Lat 37°09'25", long 81°08'54", NAD83, Bland County, at GIV Inc. discharge, 0.3 mi north of Bastian, and 1.1 mi upstream from mouth.	29.8	1995, 1997-00	8-27-03	4.57
03177710 Bluestone River [b]	New River	Lat 37°16'17", long 81°18'17", NAD83, Tazewell County, at bridge on State Highway 717, 0.3 mi upstream from Brush Fork, and 0.4 mi southeast of Falls Mills.	44.2	1981-95‡, 2002	11-6-02	77.8
TENNESSEE RIVER BASIN						
03474700 Hutton Creek [b]	Middle Fork Holston River	Lat 36°47'03", long 81°44'04", NAD83, Washington County, at bridge on U.S. Highway 11, 3.2 mi west of Chilhowie.	8.32	1969, 1972 1990, 1992, 2000, 2002	11-4-02 2-4-03 3-24-03 6-3-03 8-25-03	2.58 19.2 5.95 3.68 6.58
03474705 Unnamed tributary [a] (No. 2)	Hutton Creek	Lat 36°47'02", long 81°44'03", NAD83, Washington County, 200 ft downstream from bridge on U.S. Highway 11, on left bank, and 3.3 mi west of Chilhowie.	-	2002	11-4-02 2-4-03 3-24-03 6-3-03 8-25-03	1.78 3.78 4.69 2.32 4.20
03474720 Hutton Creek [b]	Middle Fork Holston River	Lat 36°46'22", long 81°43'48", NAD83, Washington County, at old Huff Airport road, 0.26 mi upstream from mouth, and 2.3 mi southwest of Chilhowie.	11.0	1987-89, 2000, 2002	11-4-02 3-24-03 6-3-03 8-25-03	5.76 14.1 8.82 13.9
03474800 Hall Creek [b]	Byers Creek	Lat 36°45'49", long 81°48'14", NAD83, Washington County, at bridge on U.S. Highway 11, 1.4 mi west of Old Glade Spring.	7.9	1969, 1972 1990, 1992, 2000, 2002	11-4-02 2-4-03 6-3-03 8-25-03	5.26 16.4 7.47 11.2
03474860 Tattle Branch [a]	Hall Creek	Lat 36°44'40", long 81°47'47", NAD83, Washington County, at bridge on State Highway 736, 600 ft upstream from mouth, and 2.0 mi south of Old Glade Spring.	-	2000, 2002	11-4-02 2-4-03 8-25-03	1.59 5.24 2.48
03474905 Byers Creek [a]	Middle Fork Holston River	Lat 36°44'16", long 81°47'50", NAD83, Washington County, at private bridge along State Highway 736, 0.2 mi upstream from mouth, and 2.5 mi southwest of Old Glade Spring.	-	2000, 2002	11-4-02 2-4-03 3-24-03 6-3-03 8-25-03	9.43 30.6 20.6 13.8 20.0
03475595 East Fork Cedar Creek [a]	Cedar Creek	Lat 36°44'58", long 81°51'25", NAD83, Washington County, at Meadowview Elementary School sewage treatment plant, 0.1 mi north of Cedarville.	-	1995, 1997-00, 2002	11-5-02	.636

‡ Operated as a continuous-record gaging station.

a Provided by the Virginia Department of Environmental Quality - Water Division.

b Provided by both the U.S. Geological Survey and Virginia Department of Environmental Quality - Water Division.

Discharge measurements made at special study and miscellaneous sites during water year 2003--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
TENNESSEE RIVER BASIN--Continued						
03475600 Cedar Creek	Middle Fork Holston River	Lat 36°44'50", long 81°51'19", NAD83, Washington County, at culvert on U.S. Highway 11, 1.2 mi south of Meadowview, and 2.5 mi upstream from mouth.	3.37	1969, 1990, 1992-94, 1998-99	9- 9-03	7.90
03475602 Cedar Creek [b]	Middle Fork Holston River	Lat 36°42'53", long 81°49'50", NAD83, Washington County, at bridge on State Highway 706, at mouth, and 2.6 mi south of Cedarville.	-	1987-89, 2000, 2002	11-4-02 2-4-03 3-24-03 6-3-03 8-25-03	3.05 12.0 9.46 5.64 10.5
03487800 Lick Creek	North Fork Holston River	Lat 36°57'44", long 81°28'20", NAD83, Smyth County, 270 ft up- stream from bridge on State Highway 42, 1.6 mi upstream from mouth, and 2.9 mi northeast of Chatham Hill.	25.5	1966-68, 1990, 1992, 1994, 1998-99	8- 6-03	9.69
03489800 Cove Creek	North Fork Holston River	Lat 36°39'13", long 82°21'16", NAD83, Scott County, at bridge on U.S. Highways 58 and 421, 1.5 mi northwest of Shelleys.	17.3	1951-69, 1971, 1973, 1992	8-18-03	16.7
03520375 Clinch River [a]	Tennessee River	Lat 37°07'44", long 81°32'59", NAD83, Town of Tazewell, at bridge on State Highway Alt. 16, 0.8 mi west of Tazewell.	-	1980, 2002	11-6-02 2-5-03 3-24-03 6-3-03	46.4 100 31.3 42.7
03521500 Clinch River [b]	Tennessee River	Lat 37°05'10", long 81°46'51", NAD83, Tazewell County, 1.0 mi southeast of Richlands, 1.6 mi downstream from Middle Creek, 2.2 mi upstream from Big Creek, and at mile 321.0.	137	1946-89‡, 2002	11-6-02 2-5-03 3-25-03 6-3-03	139 43.3 116 155
03522595 Lewis Creek [a]	Clinch River	Lat 37°00'28", long 81°58'12", NAD83, Russell County, at Honaker sewage treatment plant, 0.2 mi upstream from bridge on State Highway 653, and 0.7 mi south of Honaker.	20.8	1993-97, 2002	11-6-02 3-25-03	12.2 8.25
03523000 Big Cedar Creek	Clinch River	Lat 36°02'20", long 82°02'19", NAD83, Russell County, 200 ft upstream from bridge on U.S. Highway 19 (Business), 1.3 mi downstream from Little Burgess Creek, 1.9 mi up- stream from Little Cedar Creek, and 2.3 mi east of Lebanon.	51.5	1953-59, 1970-80, 1991-92, 1994	9- 9-03	41.9
03524300 Guest River [a]	Clinch River	Lat 36°58'35", long 82°37'16", NAD83, Wise County, at bridge on State Highway 625, 1.5 mi southwest of Stephens.	-	1978, 2002	11-5-02 2-5-03 3-25-03 6-2-03 8-26-03	4.44 30.0 7.58 14.5 4.82
0352430750 Sepulcher Creek [a]	Rocky Fork	Lat 36°58'58", long 82°36'52", NAD83, Wise County, at conflu- ence with Rocky Fork, just west of State Highway 625, and 1.0 mi southwest of Stephens.	-	2002	11-5-02 2-5-03 3-25-03 6-2-03 8-26-03	1.66 5.14 1.22 1.38 .593

‡ Operated as a continuous-record gaging station.

a Provided by the Virginia Department of Environmental Quality - Water Division.

b Provided by both the U.S. Geological Survey and Virginia Department of Environmental Quality - Water Division.

Discharge measurements made at special study and miscellaneous sites during water year 2003--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
TENNESSEE RIVER BASIN--Continued						
03524308 Rocky Fork [a]	Guest River	Lat 36°58'49", long 82°36'51", NAD83, Wise County, at bridge on State Highway 625, 1,000 ft downstream from Sepulcher Creek, and 1.1 mi southwest of Stephens.	-	2002	11-5-02	1.86
					2-5-03	28.5
					3-25-03	3.64
					6-2-03	7.51
					8-26-03	1.58
0352445 Toms Creek [b]	Guest River	Lat 36°56'33", long 82°28'09", NAD83, Wise County, at confluence with Little Toms Creek, 500 ft downstream from bridge on U.S. Highway 58 at Coeburn.	10.5	1952, 1955, 2002	11-5-02	4.26
					2-5-03	29.9
					3-25-03	11.7
					6-2-03	12.8
					8-26-03	4.08
03524449 Little Toms Creek [a]	Toms Creek	Lat 36°56'32", long 82°28'08", NAD83, Wise County, at confluence with Toms Creek, at Coeburn.	5.52	2002	11-5-02	1.90
					2-5-03	16.4
					3-25-03	2.49
					6-2-03	3.84
					8-26-03	.893
03524500 Guest River [b]	Clinch River	Lat 36°55'45", long 82°28'23", NAD83, Wise County, at bridge on State Highway 72, 1.0 mi southeast of Coeburn, and 6.5 mi upstream from mouth.	87.3	1949-59‡, 1979-81‡, 1991-92, 2002	11-5-02	36.7
					3-25-03	55.3
03524520 Crab Orchard Branch [a]	Guest River	Lat 36°54'52", long 82°26'06", NAD83, Wise County, 0.2 mi downstream from Boydton Road, 0.2 mi upstream from mouth, and 2.7 mi southeast of Coeburn.	-	2002	11-5-02	.668
					2-5-03	7.86
					3-25-03	.971
					6-2-03	1.49
					8-26-03	.232

‡ Operated as a continuous-record gaging station.

a Provided by the Virginia Department of Environmental Quality - Water Division.

b Provided by both the U.S. Geological Survey and Virginia Department of Environmental Quality - Water Division.

AND MISCELLANEOUS SITES

YORK RIVER BASIN

MISCELLANEOUS STATION ANALYSES

Date	Time	Sample type	Ammonia	Ammonia	Nitrite	Nitrite	Ortho-	Phos-
			+ org-N, water, fltrd, mg/L as N (00623)	water, fltrd, mg/L as N (00608)	+ nitrate water fltrd, mg/L as N (00631)	water, fltrd, mg/L as N (00613)	phos- phate, water, fltrd, mg/L as P (00671)	phorus, water, fltrd, mg/L (00666)
01674160 POLECAT CREEK AT CEDAR FORK, VA (LAT 37 58 09N LONG 077 32 20W)								
APR 2003								
03...	1550	Environmental	0.35	<0.015	0.166	<0.002	<0.007	E.004

Remark codes used in this table:

< -- Less than

E -- Estimated value

AND MISCELLANEOUS SITES

POQUOSON RIVER BASIN

MISCELLANEOUS STATION ANALYSES

Date	Time	Sample type	Depth at sample location, feet (81903)	Sampling depth, feet (00003)	Transparency Secchi disc, inches (00077)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unfltrd 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
01677850 HARWOOD MILL RESERVOIR ABOVE HWY 17 AT TABB, VA (LAT 37 08 16N LONG 076 27 40W)												
OCT 2002												
07...	0945	Environmental	18.5	1.0	43.0	762	5.0	60	7.4	604	21.8	24.4
07...	0950	Environmental	18.5	17.0	--	762	<1	<12	6.9	527	21.8	23.6
AUG 2003												
11...	1000	Environmental	18.5	18.0	--	760	<1	<0.8	6.9	223	--	17.5
11...	1001	Environmental	18.5	17.0	--	760	<1	<0.9	6.8	220	--	18.4
11...	1002	Environmental	18.5	16.0	--	760	<1	<0.9	6.8	218	--	19.5
11...	1003	Environmental	18.5	15.0	--	760	<1	<1	6.8	196	--	21.0
11...	1004	Environmental	18.5	14.0	--	760	<1	<1	6.8	164	--	23.8
11...	1005	Environmental	18.5	13.0	--	760	<1	<2	6.8	157	--	23.5
11...	1006	Environmental	18.5	12.0	--	760	<1	<5	6.7	158	--	24.1
11...	1007	Environmental	18.5	10.0	--	760	<1	<8	6.7	128	--	24.7
11...	1008	Environmental	18.5	8.0	--	760	2.9	32	6.9	109	--	25.1
11...	1009	Environmental	18.5	6.0	--	760	5.7	69	7.0	112	--	25.6
11...	1010	Environmental	18.5	4.0	--	760	5.7	70	7.0	112	--	25.6
11...	1011	Environmental	18.5	2.0	--	760	5.7	70	7.1	112	--	25.6
11...	1012	Environmental	18.5	1.0	33.0	760	6.0	74	7.3	112	--	25.7

MISCELLANEOUS STATION ANALYSES

Date	Residue total at 105 deg. C, suspended, mg/L (00530)	Residue volatile, suspended, mg/L (00535)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Particulate nitrogen, susp, water, fltrd, mg/L (49570)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd total, mg/L (00688)
01677850 HARWOOD MILL RESERVOIR ABOVE HWY 17 AT TABB, VA (LAT 37 08 16N LONG 076 27 40W)													
OCT 2002													
07...	--	--	0.47	0.64	0.142	E.015	0.004	<0.007	0.21	0.005	0.023	1.3	<0.1
07...	--	--	1.4	1.7	1.13	<0.022	<0.002	<0.007	0.23	0.007	0.039	1.1	<0.1
AUG 2003													
11...	--	--	1.8	2.0	1.29d	<0.022	0.005	0.047	--	0.057	0.076	--	--
11...	--	--	1.5	1.7	1.07d	<0.022	0.003	0.027	--	0.037	0.052	--	--
11...	--	--	1.4	1.5	0.940d	<0.022	E.002n	0.014	--	0.024	0.041	--	--
11...	<10	<10	1.1	1.2	0.662d	<0.022	<0.002	E.004n	--	0.014	0.028	--	--
11...	--	--	0.94	1.1	0.539d	<0.022	<0.002	<0.007	--	0.016	0.030	--	--
11...	<10	<10	0.81	0.90	0.372d	<0.022	<0.002	E.005n	--	0.016	0.037	--	--
11...	--	--	0.62	0.78	0.208	<0.022	<0.002	E.005n	--	0.017	0.049	--	--
11...	--	--	0.52	0.65	0.117	E.016n	0.006	E.004n	--	0.015	0.041	--	--
11...	--	--	0.52	0.61	0.088	0.027	0.004	0.009	--	0.020	0.046	--	--
11...	--	--	0.41	0.55	E.011n	<0.022	E.002n	<0.007	--	0.016	0.043	--	--
11...	--	--	0.42	0.53+c	<0.015	<0.022	<0.002	<0.007	--	0.011	0.041+c	--	--
11...	--	--	0.40	0.53	<0.015	<0.022	<0.002	<0.007	--	0.014	0.046	--	--
11...	<10	10	0.40	0.56	<0.015	<0.022	<0.002	<0.007	--	0.015	0.043	--	--

AND MISCELLANEOUS SITES—Continued

MISCELLANEOUS STATION ANALYSES

Date	Organic carbon, suspnd total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Pheo-phytin a, phyto-plank-ton, ug/L (62360)	Chloro-phyll a phyto-plank-ton, fluoro, ug/L (70953)	Copper, water, fltrd, ug/L (01040)	Copper, unfltrd recover-able, ug/L (01042)	Iron, water, fltrd, ug/L (01046)	Iron, unfltrd recover-able, ug/L (01045)	Deu-terium/Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)
01677850 HARWOOD MILL RESERVOIR ABOVE HWY 17 AT TABB, VA (LAT 37 08 16N LONG 076 27 40W)										
OCT 2002										
07...	1.3	6.3	8.4	6.1	13.1	18.5	E7	120	-10.50	-0.80
07...	1.1	7.0	11.6	7.5	2.5	31.0	108	170	-11.50	-0.95
AUG 2003										
11...	--	--	--	23.1	--	--	--	--	--	--
11...	--	--	--	35.2	--	--	--	--	--	--
11...	--	--	--	37.8	--	--	--	--	--	--
11...	--	--	--	33.9	--	--	--	--	--	--
11...	--	--	--	21.5	--	--	--	--	--	--
11...	--	--	--	15.7	--	--	--	--	--	--
11...	--	--	--	9.1	--	--	--	--	--	--
11...	--	--	--	6.0	--	--	--	--	--	--
11...	--	--	--	7.1	--	--	--	--	--	--
11...	--	--	--	10.3	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	11.6	--	--	--	--	--	--
11...	--	--	--	10.5	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

Value qualifier codes used in this table:

+ -- Improper preservation

c -- See laboratory comment

d -- Diluted sample; method hi range exceeded

n -- Below the NDV

AND MISCELLANEOUS SITES##

JAMES RIVER BASIN

MISCELLANEOUS STATION ANALYSES

Date	Time	Sample type	Depth at sample location, feet (81903)	Sam-pling depth, feet (00003)	Trans-parency Secchi disc, inches (00077)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	pH, water, unfltrd std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, air, deg C (00020)	Temper-ature, water, deg C (00010)
0204279210 LEE HALL RESERVOIR ABOVE I-64 NEAR LEE HALL, VA (LAT 37 10 58N LONG 076 32 52W)												
OCT 2002	08...	Environmental	9.0	1.0	27.5	767	7.7	90	8.2	328	22.2	23.7
	08...	Environmental	9.0	8.0	--	767	7.3	86	8.1	329	22.2	23.5
0204279220 CURTIS RUN AT RT 168 AT LEE HALL, VA (LAT 37 11 50N LONG 076 34 05W)												
OCT 2002	07...	Environmental	2.0	1.0	--	762	7.4	89	7.3	1,200	--	24.7
	07...	Replicate	2.0	1.0	--	--	--	--	--	--	--	--
0204279230 LEE HALL RESERVOIR AB RT 105 NR LEE HALL, VA (LAT 37 10 32N LONG 076 33 47W)												
OCT 2002	08...	Environmental	12.0	1.0	38.0	771	7.5	88	7.5	569	23.5	23.9
	08...	Environmental	12.0	11.0	--	771	6.5	76	7.3	575	23.5	23.6
0204279240 LEE HALL RESERVIOR AT WTP NEAR LEE HALL, VA (LAT 37 10 13N LONG 076 33 23W)												
OCT 2002	08...	Environmental	12.0	1.0	48.0	770	7.7	90	8.0	551	22.1	23.9
	08...	Environmental	12.0	11.0	--	770	<1	<12	7.0	548	22.1	23.8
AUG 2003	12...	Environmental	12.0	1.0	27.0	765	6.2	78	7.0	151	--	26.7
	12...	Environmental	12.0	3.0	--	765	5.4	74	7.0	150	--	26.5
	12...	Environmental	12.0	5.0	--	765	4.0	48	7.0	140	--	26.7
	12...	Environmental	12.0	7.0	--	765	3.3	41	7.0	139	--	26.0
	12...	Environmental	12.0	9.0	--	765	2.5	30	6.9	146	--	25.8
	12...	Environmental	12.0	11.0	--	765	1.4	17	6.8	144	--	25.1

MISCELLANEOUS STATION ANALYSES

Date	Residue total at 105 deg. C, suspended, mg/L (00530)	Residue volatile, suspended, mg/L (00535)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Partic-ulate nitro-gen, susp, water, mg/L (49570)	Phos-phorus, water, fltrd, mg/L (00666)	Phos-phorus, water, unfltrd, mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor-ganic carbon, suspnd sedimnt total, mg/L (00688)
0204279210 LEE HALL RESERVOIR ABOVE I-64 NEAR LEE HALL, VA (LAT 37 10 58N LONG 076 32 52W)													
OCT 2002	08...	--	0.39	0.86	<0.015	<0.022	<0.002	<0.007	0.45	0.008	0.056	3.0	<0.1
	08...	--	0.41	0.87	<0.015	<0.022	<0.002	<0.007	0.43	0.008	0.056	2.7	<0.1
0204279220 CURTIS RUN AT RT 168 AT LEE HALL, VA (LAT 37 11 50N LONG 076 34 05W)													
OCT 2002	07...	--	0.32	0.47	0.017	0.037	E.002	<0.007	0.13	0.006	0.027	0.9	<0.1
	07...	--	0.33	0.49	0.017	0.037	E.002	<0.007	0.11	0.006	0.027	1.3	<0.1
0204279230 LEE HALL RESERVOIR AB RT 105 NR LEE HALL, VA (LAT 37 10 32N LONG 076 33 47W)													
OCT 2002	08...	--	0.39	0.61	0.048	E.019	0.003	<0.007	0.14	0.005	0.031	0.7	<0.1
	08...	--	0.44	0.62	0.070	E.018	0.003	<0.007	0.23	0.005	0.038	1.6	<0.1
0204279240 LEE HALL RESERVIOR AT WTP NEAR LEE HALL, VA (LAT 37 10 13N LONG 076 33 23W)													
OCT 2002	08...	--	0.35	0.56	0.062	E.021	0.003	<0.007	0.21	E.003	0.024	1.3	<0.1
	08...	--	0.35	0.61	0.063	E.021	0.003	<0.007	0.21	E.004	0.028	1.2	<0.1
AUG 2003	12...	<10	0.44	0.69	0.059	0.031	E.002n	<0.007	--	0.006	0.034	--	--
	12...	--	0.46	0.68	0.079	0.033	E.002n	<0.007	--	0.006	0.035	--	--
	12...	--	0.53	0.68	0.081	E.020n	0.003	<0.007	--	0.011	0.043	--	--
	12...	--	0.57	0.69	0.099	E.017n	0.003	<0.007	--	0.011	0.046	--	--
	12...	--	0.64	0.80	0.189	E.017n	E.002n	<0.007	--	0.011	0.050	--	--
	12...	<10	0.69	0.90	0.231	E.015n	E.002n	<0.007	--	0.010	0.050	--	--

AND MISCELLANEOUS SITES—Continued

MISCELLANEOUS STATION ANALYSES

Date	Organic carbon, suspd total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Chloro-phyll a phyto-plank-ton, fluoro, ug/L (70953)	Copper, water, fltrd, ug/L (01040)	Copper, unfltrd recover-able, ug/L (01042)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd recover-able, ug/L (01045)	Deu-terium/Protium ratio, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)
0204279210 LEE HALL RESERVOIR ABOVE I-64 NEAR LEE HALL, VA (LAT 37 10 58N LONG 076 32 52W)									
OCT 2002									
08...	3.0	7.2	29.8	7.6	25.6	E9	240	-2.30	0.39
08...	2.7	7.0	30.7	7.6	25.4	11	220	-3.10	0.46
0204279220 CURTIS RUN AT RT 168 AT LEE HALL, VA (LAT 37 11 50N LONG 076 34 05W)									
OCT 2002									
07...	0.9	6.1	--	0.4	<0.6	E10	200	-9.90	-0.97
07...	1.3	6.1	--	0.4	<0.6	E8	180	-10.70	-1.04
0204279230 LEE HALL RESERVOIR AB RT 105 NR LEE HALL, VA (LAT 37 10 32N LONG 076 33 47W)									
OCT 2002									
08...	0.7	6.9	9.5	7.2	13.3	E9	270	-9.00	-0.54
08...	1.6	6.9	10.7	6.5	20.5	15	390	-7.60	-0.66
0204279240 LEE HALL RESERVIOR AT WTP NEAR LEE HALL, VA (LAT 37 10 13N LONG 076 33 23W)									
OCT 2002									
08...	1.3	6.7	10.5	7.6	12.1	E5	180	-7.20	-0.51
08...	1.2	6.3	<0.5	7.1	12.8	<10	200	-7.50	-0.52
AUG 2003									
12...	--	--	9.1	--	--	--	--	--	--
12...	--	--	9.3	--	--	--	--	--	--
12...	--	--	10.7	--	--	--	--	--	--
12...	--	--	9.7	--	--	--	--	--	--
12...	--	--	9.8	--	--	--	--	--	--
12...	--	--	9.8	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

Value qualifier codes used in this table:

n -- Below the NDV

	Page	Page
A		
Access to USGS Water Data.....	19	
Accotink Creek near Annandale.....	174	
Aden, Goslin Run near.....	194	
Afton, Stockton Creek near.....	531	
Alexandria, Cameron Run at.....	172	
Alexandria, Fourmile Run at.....	170	
Allen Creek near Boydton.....	464	
Allisonia, New River at.....	476	
Altavista, Roanoke River at.....	416	
Amelia, Flat Creek near.....	532	
Amherst, Buffalo River tributary near.....	530	
Andersonville, Holiday Creek near.....	352	
Annandale, Accotink Creek near.....	174	
Appomattox River at Farmville.....	356	
Appomattox River at Matoaca.....	362	
Appomattox River at Mattoax.....	358	
Aquia Creek near Garrisonville.....	216	
Ashland, South Anna River near.....	246	
B		
Back Creek (James River Basin) at Sunrise.....	274	
Back Creek (James River Basin) near Mountain Grove.....	278	
Back Creek (James River Basin) near Sunrise.....	272	
Back Creek (Roanoke River Basin) near Dundee.....	404	
Bacova, Jackson River near.....	268	
Bailey Branch tributary at Spring Grove.....	532	
Bane, Walker Creek at.....	486	
Banister River at Halifax.....	456	
Baptist Run at Route 637 near Yorktown.....	370	
Bartlick, Russell Fork at.....	534	
Bassett, Smith River at.....	442	
Battle Run near Laurel Mills.....	220	
Bearskin Creek near Chatham.....	533	
Beaver Creek at Bristol.....	514	
Beaverdam Creek at Route 734 near Mountville.....	144	
Beaverdam Run near Garrisonville.....	218	
Bent Creek, James River at.....	322	
Berryville, Dry Marsh Run near.....	54	
Berryville, Opequon Creek near.....	52	
Beulahville, Mattaponi River near.....	262	
Big Cedar Creek near Lebanon.....	536	
Big Otter River near Evington.....	418	
Big Rock, Levisa Fork at.....	492	
Big Sandy River Basin, crest-stage partial-record stations.....	534-535	
Big Stone Gap, Powell River at.....	524	
Blacks Creek near Mt. Airy.....	533	
Blackwater River near Dendron.....	382	
Blackwater River near Franklin.....	384	
Blackwater River near Rocky Mount.....	406	
Blackwater River tributary near Holland.....	532	
Bowling Green, Mattaponi River near.....	260	
Boydton, Allen Creek near.....	464	
Boydton, John H. Kerr Reservoir near.....	460	
Bristol, Beaver Creek at.....	514	
Broad Run near Leesburg.....	148	
Broadway, Linville Creek at.....	104	
Brookneal, Roanoke River at.....	420	
Brumley Creek at Brumley Gap.....	535	
Brumley Gap, Brumley Creek at.....	535	
Buchanan, James River at.....	308	
Buchanan, Renick Run near.....	530	
Buckton, Passage Creek near.....	116	
Buena Vista, Maury River near.....	316	
Buena Vista, Pedlar River at Forest Road near.....	318	
Buffalo Creek near Hampden Sydney.....	354	
Buffalo River tributary near Amherst.....	530	
Buggs Island, Roanoke River at.....	462	
Bullpasture River at Williamsville.....	296	
Burketown, North River near.....	78	
Bush Mill Stream near Heathsville.....	528	
C		
Calfpasture River above Mill Creek, at Goshen.....	310	
Cameron Run at Alexandria.....	172	
Cartersville, James River at.....	340	
Catawba Creek near Catawba.....	306	
Catawba, Catawba Creek near.....	306	
Catlett, Cedar Run near.....	192	
Catoctin Creek at Taylorstown.....	134	
Cedar Creek above Highway 11 near Middletown.....	114	
Cedar Creek near Meadowview.....	535	
Cedar Creek near Winchester.....	112	
Cedar Run near Catlett.....	192	
Champlain, Farmers Hall Creek near.....	529	
Charlottesville, Moores Creek near.....	531	
Chatham Hill, Lick Creek near.....	535	
Chatham, Bearskin Creek near.....	533	
Chesterfield, Falling Creek near.....	531	
Chestnut Creek at Galax.....	470	
Chickahominy River near Providence Forge.....	368	
Chilhowie, South Fork Holston River at Riverside, near.....	506	
Chowan River Basin, crest-stage partial-record stations.....	532	
Chub Run near Stanley.....	528	
Claytor Reservoir near Radford.....	478	
Cleveland, Clinch River at.....	518	
Clifton Forge, Cowpasture River near.....	298	
Clinch River above Tazewell, TN.....	522	
Clinch River at Cleveland.....	518	
Clinch River at Richlands.....	536	
Clinch River at Speers Ferry.....	520	
Clintwood, Cranes Nest River near.....	498	
Coeburn, Guest River at.....	536	
Cohoke Mill Creek near Lester Manor.....	256	
Contrary Creek near Mineral.....	529	
Cootes Store, North Fork Shenandoah River at.....	96	
Copper Creek near Gate City.....	537	
Council, Russell Fork at.....	534	
Cove Creek near Shelleys.....	536	
Covington, Dunlap Creek near.....	290	
Covington, Jackson River at Filtration Plant, at.....	288	
Covington, Jackson river below Dunlap Creek, at.....	292	
Covington, Potts Creek near.....	294	
Cowpasture River near Clifton Forge.....	298	
Cowpasture River near Head Waters.....	530	
Craig Creek at Parr.....	304	
Craig Creek tributary near New Castle.....	530	
Cranes Nest River near Clintwood.....	498	
Crest-stage partial-record stations.....	528-537	

Page	Page		
Crooked Run (Potomac River Basin), near Mt. Jackson.....	528	Figure 4. Map of Virginia showing location of surface- water-discharge and surface-water-quality data- collection stations.....	42-43
Cub Creek at Phenix.....	424	Figure 5. Map of Virginia showing location of surface-water-partial-record stations.....	44-45
Culpeper, Pony Mountain Branch near.....	529	Fine Creek at Fine Creek Mills.....	346
Culpeper, Rapidan River near.....	230	Fine Creek Mills, Fine Creek at.....	346
D			
Daleville, Tinker Creek near.....	400	Flat Creek (James River Basin), near Amelia.....	532
Damascus, South Fork Holston River near.....	508	Fourmile Run at Alexandria.....	170
Dan River at Paces.....	452	Franciso, NC, Dan River near.....	430
Dan River at Sewage Treatment Plant, near Danville.....	450	Franklin, Blackwater River near.....	384
Dan River at South Boston.....	454	Fredericksburg, Rappahannock River near.....	232
Dan River near Francisco, NC.....	430	Front Royal, Manassas Run at Rt 645 near.....	118
Danville, Dan River at Sewage Treatment Plant, near.....	450	Front Royal, South Fork Shenandoah River at.....	94
Danville, Sandy River near.....	448	G	
Dawn, Reedy Creek near.....	529	Galax, Chestnut Creek at.....	470
Deep Creek near Mannboro.....	360	Galax, New River near.....	468
Definition of Terms.....	20-37	Garrisonville, Aquia Creek near.....	216
Dendron, Blackwater River near.....	382	Garrisonville, Beaverdam Run near.....	218
Denniston, Hycor River near.....	458	Garrisonville, Middle Branch Chopawamsic Creek near.....	212
Difficult Run near Great Falls.....	150	Garrisonville, South Branch Chopawamsic Creek near.....	214
Dinwiddie, Stony Creek near.....	378	Gate City, Copper Creek near.....	537
Discharge measurements made at miscellaneous sites.....	538-552	Gate City, North Fork Holston River near.....	536
Discontinued surface-water-discharge or stage-only stations.....	xii-xvii	Georges Fork, Pound River near.....	534
Discontinued surface-water-quality stations.....	xviii-xxii	Glen Echo, Gooney Run near.....	90
Doswell, Little River near.....	244	Glen Lyn, New River at.....	490
Doswell, North Anna River at Hart Corner near.....	242	Glenvar, Roanoke River at.....	396
Downstream Order System.....	6	Gooney Run near Glen Echo.....	90
Dragon Swamp at Mascot.....	240	Goose Creek near Huddleston.....	414
Dry Marsh Run near Berryville.....	54	Goose Creek near Leesburg.....	146
Dublin, Thorne Springs Branch near.....	533	Goose Creek near Middleburg.....	140
Dugspur, Mira Fork tributary near.....	533	Goshen, Calfpasture River above Mill Creek, at.....	310
Dundee, Back Creek near.....	404	Goslin Run near Aden.....	194
Dunlap Creek near Covington.....	290	Grahams Forge, Reed Creek at.....	474
E			
Earlsville, North Fork Rivanna River near.....	336	Graysontown, Little River at.....	480
Eden, Smith river at.....	446	Great Falls, Difficult Run near.....	150
Emporia, Meherrin River at.....	390	Great Wicomico River Basin, crest-stage partial-record stations.....	528
Evington, Big Otter River near.....	418	Greenfield, Rockfish River near.....	328
F			
Falling Creek near Chesterfield.....	531	Groseclose, Middle Fork Holston River at.....	535
Falling Creek near Midlothian.....	531	Grottoes, Middle River near.....	80
Falling River near Naruna.....	422	Guest River at Coeburn.....	536
Falling Spring, Jackson River at.....	530	H	
Falls Creek tributary near Victoria.....	532	Halifax, Banister River at.....	456
Farmers Hall Creek near Champlain.....	529	Hampden Sydney, Buffalo Creek near.....	354
Farmville, Appomattox River at.....	356	Hanover, Pamunkey River near.....	248
Figure 1. Annual mean discharge at stream- gaging stations.....	4	Hardware River below Briery Creek, near Scottsville.....	332
Figure 2. Monthly and annual mean discharges during 2003 water year and median of monthly and annual mean discharges for 1971-2002 water years at four representative stream-gaging stations.....	5	Harriston, South River at.....	84
Figure 3. System for numbering selected miscellaneous sites.....	7	Hayfield, Hogue Creek near.....	48
		Haysi, John W. Flannagan Reservoir near.....	500
		Haysi, Pound River below Flannagan Dam near.....	502
		Haysi, Russell Fork at.....	494
		Hazel River at Rixeyville.....	222
		Head Waters, Cowpasture River near.....	530
		Heathsville, Bush Mill Stream near.....	528
		Hogue Creek near Hayfield.....	48
		Holcomb Rock, James River at.....	320

INDEX

	Page		Page
Holiday Creek near Andersonville.....	352	Leesburg, Limestone Branch near.....	138
Holiday Creek near Toga.....	532	Leesville Lake near Leesville.....	412
Holland, Blackwater River tributary near.....	532	Leesville, Leesville Lake near.....	412
Hot Springs, Jackson River below		Lester Manor, Cohoke Mill Creek near.....	256
Gathright Dam near.....	284	Levisa Fork at Big Rock.....	492
Hot Springs, Lake Moomaw near.....	282	Levisa Fork at Pikeville, KY.....	504
Huddleston, Goose Creek near.....	414	Lexington, Kerrs Creek near.....	314
Hycy River near Denniston.....	458	Lick Creek near Chatham Hill.....	535
Hydrologic Conditions, Summary of.....	3	Lick Run, James River at.....	300
		Limestone Branch near Leesburg.....	138
		Lincoln, North Fork Goose Creek at	
I		Route 729 near.....	142
Independent Hill, North Branch Chopawamsic		Linville Creek at Broadway.....	104
Creek near.....	206	Little Back Creek near Sunrise.....	276
Independent Hill, South Fork Quantico		Little River at Graysontown.....	480
Creek near.....	200	Little River near Doswell.....	244
Introduction.....	1	Little River Reservoir near Radford.....	482
Ivanhoe, New River at.....	472	Locust Dale, Robinson River near.....	228
		Louisa, Waldrop Creek near.....	529
		Lovettsville, Piney Run near.....	128
J		Lovingston, Tye River near.....	324
Jackson River at Falling Spring.....	530	Lunenburg, North Meherrin River near.....	386
Jackson River at Filtration Plant,		Luray, South Fork Shenandoah River near.....	88
at Covington.....	288	Lynnwood, South Fork Shenandoah River near.....	86
Jackson River below Dunlap Creek,			
at Covington.....	292	M	
Jackson River below Gathright Dam,		Manassas Run at Rt 645 near Front Royal.....	118
near Hot Springs.....	284	Mannboro, Deep Creek near.....	360
Jackson River near Bacova.....	268	Map of Virginia showing location of:	
James River and Kanawha Canal near Richmond.....	348	Surface-water-discharge and surface-	
James River at Bent Creek.....	322	water-quality data collection stations.....	42-43
James River at Buchanan.....	308	Surface-water partial-record stations.....	44-45
James River at Cartersville.....	340	Martinsville, Smith River at.....	444
James River at Holcomb Rock.....	320	Mascot, Dragon Swamp at.....	240
James River at Lick Run.....	300	Matoaca, Appomattox River at.....	362
James River at Scottsville.....	330	Mattaponi River near Beulahville.....	262
James River Basin, crest-stage		Mattaponi River near Bowling Green.....	260
partial-record stations.....	530-532	Mattoax, Appomattox River at.....	358
James River near Richmond.....	350	Maury River at Rockbridge Baths.....	312
Jefferson, South Fork New River near.....	466	Maury River near Buena Vista.....	316
John H. Kerr Reservoir near Boydton.....	460	Meadowview, Cedar Creek near.....	535
John W. Flannagan Reservoir near Haysi.....	500	Meadowview, Middle Fork Holston River near.....	512
Johns Creek at New Castle.....	302	Mechums River near White Hall.....	334
Jonesville, Powell River near.....	526	Meherrin River at Emporia.....	390
Jordans Branch at Richmond.....	532	Meherrin River near Lawrenceville.....	388
		Middle Branch Chopawamsic Creek	
K		near Garrisonville.....	212
Ka, Stony Creek at.....	537	Middle Fork Holston River at Groseclose.....	535
Kanawha River Basin, crest-stage		Middle Fork Holston River at Seven Mile Ford.....	510
partial-record stations.....	533	Middle Fork Holston River near Meadowview.....	512
Kelsa, Knox Creek at.....	535	Middle River near Grottoes.....	80
Kerrs Creek near Lexington.....	314	Middleburg, Goose Creek near.....	140
Kibler, Talbott and Townes Reservoirs near.....	428	Middletown, Cedar Creek above Highway 11 near.....	114
Knox Creek at Kelsa.....	535	Midlothian, Falling Creek near.....	531
		Millville, WV, Shenandoah River at.....	126
L		Millwood, Spout Run at Route 621 near.....	122
Lafayette, Roanoke River at.....	394	Mineral, Contrary Creek near.....	529
Lahore, Pamunkey Creek at.....	529	Mira Fork tributary near Dugspur.....	533
Lake Moomaw near Hot Springs.....	282	Miscellaneous sites, discharge measurements	
Latitude-Longitude System.....	7	made at.....	538-552
Laurel Mills, Battle Run near.....	220	Miscellaneous sites, Water-quality data	
Lawrenceville, Meherrin River near.....	388	collected at.....	553-557
Lebanon, Big Cedar Creek near.....	536	Moores Creek near Charlottesville.....	531
Leesburg, Broad Run near.....	148	Mount Clinton, Muddy Creek at.....	60
Leesburg, Goose Creek near.....	146		

Page	Page		
Mount Jackson, North Fork Shenandoah River at	108	Philpott, Philpott Lake near	438
Mountain Grove, Back Creek near	278	Philpott, Smith River near	440
Mountville, Baverdam Creek at Route 734 near	144	Pigg River near Sandy Level	410
Mt. Airy, Blacks Creek near	533	Pikeville, KY, Levisa Fork near	504
Mt. Jackson, Crooked Run near	528	Piney River at Piney River	326
Muddy Creek at Mount Clinton	60	Piney River, Piney River at	326
Muddy Run near Stanardsville	531	Piney Run near Lovettsville	128
N		Piscataway Creek near Tappahannock	238
Narrows, Wolf Creek near	488	Po River near Spotsylvania	258
Naruna, Falling River near	422	Point of Rocks, MD, Potomac River at	136
Nettleridge, South Mayo River near	432	Pony Mountain Branch near Culpeper	529
New Castle, Craig Creek tributary near	530	Potomac River at Chain Bridge, at Washington, DC	160
New Castle, Johns Creek at	302	Potomac River at Point of Rocks, MD	136
New Market, Smith Creek near	106	Potomac River Basin, crest-stage partial-record stations	528
New River at Allisonia	476	Potomac River near Washington, DC	152
New River at Glen Lyn	490	Potts Creek near Covington	294
New River at Ivanhoe	472	Pound River above Indian Creek, at Pound	534
New River at Radford	484	Pound River below Flannagan Dam, near Haysi	502
New River near Galax	468	Pound River near Georges Fork	534
Niagara, Roanoke River at	402	Pound, North Fork of Pound Lake at	496
North Anna River at Hart Corner, near Doswell	242	Pound, Pound River above Indian Creek, at	534
North Branch Chopawamsic Creek near Independent Hill	206	Pound, North Fork Pound River at	534
North Fork Catoctin Creek at Route 681 near Waterford	132	Powell River at Big Stone Gap	524
North Fork Goose Creek at Route 729 near Lincoln	142	Powell River near Jonesville	526
North Fork Holston River near Gate City	536	Powells Creek near Turbeville	533
North Fork Holston River near Saltville	516	Providence Forge, Chickahominy River near	368
North Fork of Pound Lake at Pound	496	Publications on Techniques of Water-Resources Investigations	38-41
North Fork Pound River at Pound	534	Pughs Run near Woodstock	528
North Fork Powell River at Pennington Gap	537	R	
North Fork Rivanna River near Earlysville	336	Radford, Claytor Reservoir near	478
North Fork Shenandoah River at Cootes Store	96	Radford, Little River Reservoir near	482
North Fork Shenandoah River at Mount Jackson	108	Radford, New River at	484
North Fork Shenandoah River near Strasburg	110	Randolph, Roanoke River at	426
North Mayo River near Spencer	434	Rapidan River near Culpeper	230
North Meherrin River near Lunenburg	386	Rapidan River near Ruckersville	226
North River near Burkettown	78	Rappahannock River at Remington	224
North River near Stokesville	58	Rappahannock River Basin, crest-stage partial-record stations	529
Nottoway River near Rawlings	374	Rappahannock River near Fredericksburg	232
Nottoway River near Sebrell	380	Rawlings, Nottoway River near	374
Nottoway River near Stony Creek	376	Records, Explanation of Stage and Water Discharge	9-13
O		Explanation of Surface-Water Quality	14-18
Opequon Creek near Berryville	52	Reed Creek at Grahams Forge	474
Opequon Creek near Stephens City	50	Reedy Creek near Dawn	529
P		Remington, Rappahannock River at	224
Paces, Dan River at	452	Renick Run near Buchanan	530
Palmyra, Rivanna River at	338	Richlands, Clinch River at	536
Pamunkey Creek at Lahore	529	Richmond, James River and Kanawha Canal near	348
Pamunkey River near Hanover	248	Richmond, James River near	350
Parr, Craig Creek at	304	Richmond, Jordans Branch at	532
Partial-record, crest-stage stations	528-537	Rivanna River at Palmyra	338
Passage Creek near Buckton	116	Rixeyville, Hazel River at	222
Pedlar River at Forest Road near Buena Vista	318	Roanoke River at Altavista	416
Penhook, Smith Mountain Lake near	408	Roanoke River at Brookneal	420
Pennington Gap, North Fork Powell River at	537	Roanoke River at Buggs Island	462
Phenix, Cub Creek at	424	Roanoke River at Glenvar	396
Philpott Lake near Philpott	438	Roanoke River at Lafayette	394
		Roanoke River at Niagara	402
		Roanoke River at Randolph	426

	Page		Page
Roanoke River at Roanoke	398	Stony Creek near Dinwiddie	378
Roanoke River Basin, crest-stage partial-record stations	533	Stony Creek, Nottoway River near.....	376
Roanoke, Roanoke River at	398	Strasburg, North Fork Shenandoah River near	110
Robinson River near Locust Dale	228	Studley, Totopotomoy Creek near.....	254
Rockbridge Baths, Maury River at	312	Summary of Hydrologic Conditions	3
Rockfish River near Greenfield	328	Sunrise, Back Creek at	274
Rocky Mount, Blackwater River near	406	Sunrise, Back Creek near	272
Ruckersville, Rapidan River near	226	Sunrise, Little Back Creek near.....	276
Russell Fork at Bartlick	534	Surface-water stations, list of	vi-xi
Russell Fork at Council.....	534		
Russell Fork at Haysi.....	494	T	
S		Talbott and Townes Reservoirs near Kibler.....	428
Saltville, North Fork Holston River near.....	516	Tappahannock, Piscataway Creek near	238
Sandy Level, Pigg River near	410	Taylorstown, Catoctin Creek at.....	134
Sandy River near Danville	448	Tazewell, TN, Clinch River above	522
Scottsville, Hardware River below		Tennessee River Basin, crest-stage partial-record stations.....	535-537
Briery Creek, near	332	Thorne Springs Branch near Dublin.....	533
Scottsville, James River at	330	Tinker Creek near Daleville	400
Sebrell, Nottoway River near.....	380	Toga, Holiday Creek near	532
Seven Mile Ford, Middle Fork Holston River at	510	Totopotomoy Creek near Studley.....	254
Shawsville, South Fork Roanoke River near	392	Turbeville, Powells Creek near	533
Shelleys, Cove Creek near	536	Tye River near Lovingson.....	324
Shenandoah River at Millville, WV.....	126	V	
Smith Creek near New Market	106	Victoria, Falls Creek tributary near	532
Smith Mountain Lake near Penhook.....	408		
Smith River at Bassett.....	442	W	
Smith River at Eden, NC	446	Waldrop Creek near Louisa.....	529
Smith River at Martinsville.....	444	Walker Creek at Bane.....	486
Smith River at Smith River Church		Washington, DC, Potomac River at	
near Woolwine	436	Chain Bridge at	160
Smith River near Philpott	440	Washington DC, Potomac River near	152
South Anna River near Ashland	246	Waterford, North Fork Catoctin Creek at	
South Boston, Dan River at	454	Route 681 near	132
South Branch Chopawamsic Creek near		Waterford, South Fork Catoctin Creek at Route 698	130
Garrisonville	214	Water-quality data collected at	
South Fork Catoctin Creek at Route 698 near Waterford.....	130	miscellaneous sites	553-557
South Fork Holston River at Riverside,		Waynesboro, South River near.....	82
near Chilhowie	506	White Hall, Mechums River near.....	334
South Fork Holston River near Damascus.....	508	Williamsville, Bullpasture River at	296
South Fork New River near Jefferson, NC	466	Winchester, Cedar Creek near.....	112
South Fork Quantico Creek near		Wolf Creek near Narrows.....	488
Independent Hill	200	Woodstock, Pughs Run near	528
South Fork Roanoke River near Shawsville	392	Woolwine, Smith River at Smith River	
South Fork Shenandoah River at Front Royal	94	Church near	436
South Fork Shenandoah River near Luray.....	88	Y	
South Fork Shenandoah River near Lynnwood	86	York River Basin, crest-stage	
South Mayo River near Nettleridge	432	partial-record stations.....	529
South River at Harriston	84	Yorktown, Baptist Creek at Route 637 near.....	370
South River near Waynesboro	82		
Special Networks and Programs	8		
Speers Ferry, Clinch River at.....	520		
Spencer, North Mayo River near	434		
Spotsylvania, Po River near	258		
Spout Run at Route 621 near Millwood	122		
Spring Grove, Bailey Branch tributary at	532		
Stanardsville, Muddy Run near.....	531		
Stanley, Chub Run near	528		
Station Identification Numbers.....	6		
Stephens City, Opequon Creek near	50		
Stockton Creek near Afton.....	531		
Stokesville, North River near.....	58		
Stony Creek (Tennessee River Basin) at Ka.....	537		

Conversion Factors

Multiply	By	To obtain
Length		
inch (in.)	2.54×10^1	millimeter (mm)
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter (m)
mile (mi)	1.609×10^0	kilometer (km)
Area		
acre	4.047×10^3	square meter (m ²)
	4.047×10^{-1}	square hectometer (hm ²)
	4.047×10^{-3}	square kilometer (km ²)
square mile (mi ²)	2.590×10^0	square kilometer (km ²)
Volume		
gallon (gal)	3.785×10^0	liter (L)
	3.785×10^{-3}	cubic meter (m ³)
	3.785×10^0	cubic decimeter (dm ³)
million gallons (Mgal)	3.785×10^3	cubic meter (m ³)
	3.785×10^{-3}	cubic hectometer (hm ³)
cubic foot (ft ³)	2.832×10^{-2}	cubic meter (m ³)
	2.832×10^1	cubic decimeter (dm ³)
cubic-foot-per-second-per-day [(ft ³ /s/d)]	2.447×10^3	cubic meter (m ³)
	2.447×10^{-3}	cubic hectometer (hm ³)
acre-foot (acre-ft)	1.223×10^3	cubic meter (m ³)
	1.223×10^{-3}	cubic hectometer (hm ³)
	1.223×10^{-6}	cubic kilometer (km ³)
Flow rate		
cubic foot per second (ft ³ /s)	2.832×10^1	liter (L/s)
	2.832×10^{-2}	cubic meter per second (m ³ /s)
	2.832×10^1	cubic decimeter per second (dm ³ /s)
gallon per minute (gal/min)	6.309×10^{-2}	liter per second (L/s)
	6.309×10^{-5}	cubic meter per second (m ³ /s)
	6.309×10^{-2}	cubic decimeter per second (dm ³ /s)
million gallons per day (Mgal/d)	4.381×10^{-2}	cubic meter per second
	4.381×10^1	cubic decimeter per second (dm ³ /s)
Mass		
ton, short (2,000 lb)	9.072×10^{-1}	megagram (Mg) or metric ton

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

$$^{\circ}\text{F} = (1.8 \times ^{\circ}\text{C}) + 32$$