

021973005 TINKER CREEK AT ROAD 8-11 AT SAVANNAH RIVER SITE, SC

LOCATION.--Lat 33°22'14'', long 81°31'39'', Barnwell County, Hydrologic Unit 03060106, on upstream side of bridge on SRS Road 8-11, 1.5 mi downstream from US Highway 278, and approximately 5.0 mi southwest of Williston.

DRAINAGE AREA.--16.3 mi².

PERIOD OF RECORD.--October 1992 to September 1996, December 1998 to September 2000.

GAGE.--Data collection platform. Elevation of gage is 220 ft above sea level (from topographic map).

REMARKS.--Records fair except for those after Oct. 12, 1999, which are poor. Flow regulated by Savannah River Site operations.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	18	41	19	21	31	12	17	11	9.4
2	---	---	---	20	42	18	21	20	12	15	11	9.6
3	---	---	---	35	28	19	20	15	13	14	10	10
4	---	---	---	25	26	19	16	14	12	13	9.5	10
5	---	---	---	21	22	19	15	14	11	17	9.7	9.8
6	---	---	---	19	21	18	15	19	11	24	9.6	9.7
7	---	---	---	19	20	19	15	20	11	29	9.8	15
8	---	---	---	19	19	19	23	16	11	17	9.9	10
9	---	---	---	19	18	26	25	14	11	13	9.7	10
10	---	---	---	19	19	24	17	13	11	13	10	11
11	---	---	19	18	19	21	15	12	12	17	10	10
12	---	---	19	18	18	21	14	11	15	34	9.9	9.8
13	---	---	20	18	18	21	14	13	13	43	9.8	9.6
14	---	---	21	19	18	32	15	15	15	27	9.7	9.7
15	---	---	22	35	18	30	17	14	33	24	9.9	12
16	---	---	26	28	19	24	22	13	35	25	11	14
17	---	---	23	24	19	22	16	11	41	20	12	12
18	---	---	20	29	20	21	13	11	23	17	12	12
19	---	---	20	26	21	20	13	16	16	15	10	12
20	---	---	21	22	19	21	12	14	19	14	12	19
21	---	---	19	22	19	23	12	13	14	13	12	28
22	---	---	19	21	18	23	12	15	13	14	12	20
23	---	---	18	30	18	21	11	18	13	13	12	14
24	---	---	19	52	17	20	12	19	13	13	13	12
25	---	---	28	32	18	23	13	15	14	13	19	12
26	---	---	29	26	19	28	14	13	15	14	16	13
27	---	---	24	23	19	25	13	14	18	12	12	17
28	---	---	21	22	19	21	18	12	21	12	12	28
29	---	---	20	22	---	18	19	12	19	11	15	26
30	---	---	19	22	---	18	24	13	18	11	14	18
31	---	---	18	24	---	18	---	12	---	11	10	---
TOTAL	---	---	445	747	592	671	487	462	495	545	353.5	412.6
MEAN	---	---	21.2	24.1	21.1	21.6	16.2	14.9	16.5	17.6	11.4	13.8
MAX	---	---	29	52	42	32	25	31	41	43	19	28
MIN	---	---	18	18	17	18	11	11	11	11	9.5	9.4
CFSM	---	---	1.30	1.48	1.30	1.33	1.00	.91	1.01	1.08	.70	.84

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1999, BY WATER YEAR (WY)

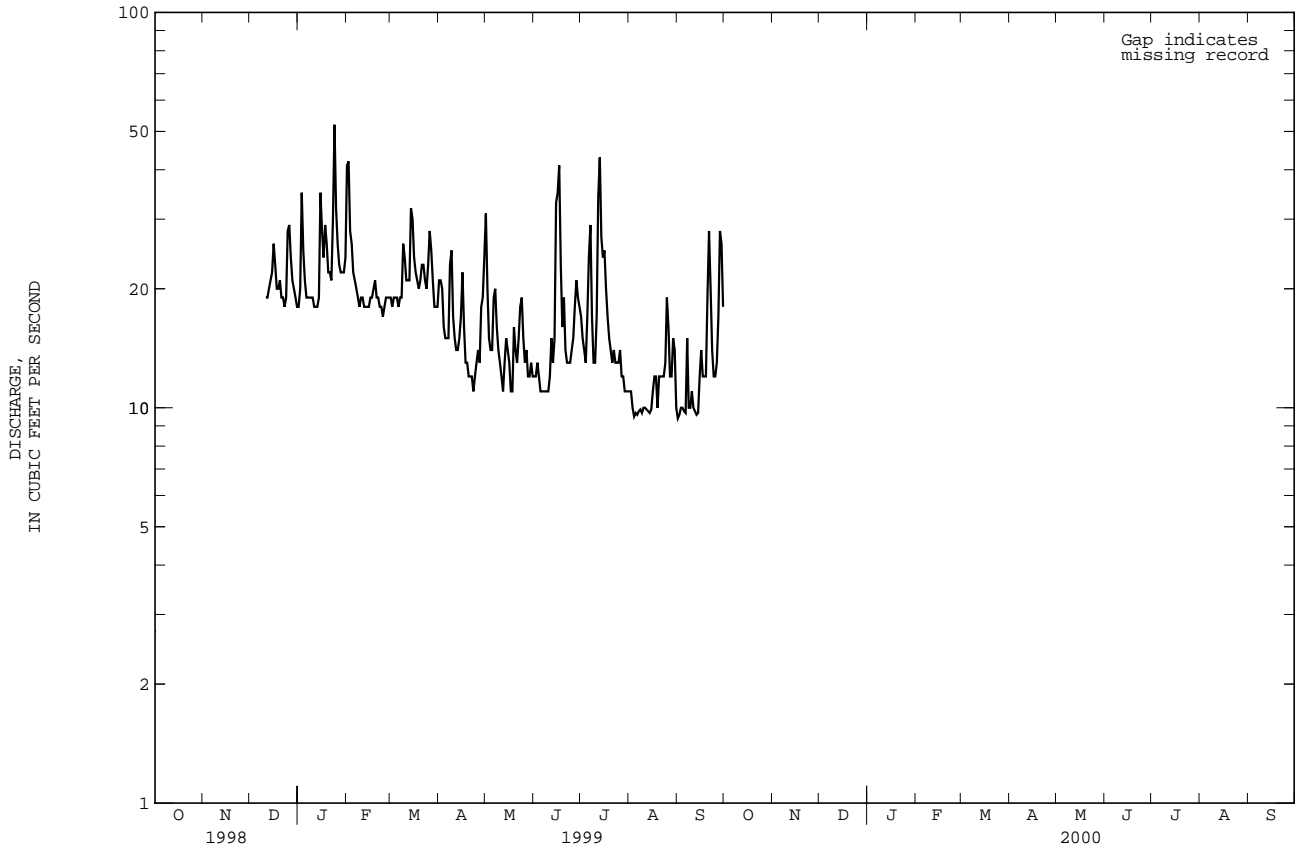
	1993	1994	1995	1996	1997	1998	1999
MEAN	26.1	25.9	26.6	30.5	30.1	30.8	25.1
MAX	28.9	28.6	29.5	43.4	40.2	44.6	38.4
(WY)	1993	1993	1993	1993	1993	1993	1993
MIN	24.2	24.2	24.5	24.1	21.1	21.6	16.2
(WY)	1996	1996	1996	1999	1999	1999	1999

SAVANNAH RIVER BASIN

021973005 TINKER CREEK AT ROAD 8-11 AT SAVANNAH RIVER SITE, SC--Continued

SUMMARY STATISTICS	FOR 1999 WATER YEAR		WATER YEARS 1993 - 1999	
ANNUAL MEAN			26.6	
HIGHEST ANNUAL MEAN			32.6	1993
LOWEST ANNUAL MEAN			21.8	1996
HIGHEST DAILY MEAN	52	Jan 24	107	Jan 8 1993
LOWEST DAILY MEAN	9.4	Sep 1	9.4	Sep 1 1999
ANNUAL SEVEN-DAY MINIMUM	9.7	Aug 3	9.7	Aug 3 1999
INSTANTANEOUS PEAK FLOW	67	a Jul 12	Unknown	Oct 31 1993
INSTANTANEOUS PEAK STAGE	1.67	a Jul 12	b 2.97	Oct 31 1993
ANNUAL RUNOFF (CFSM)			1.63	
10 PERCENT EXCEEDS	26		36	
50 PERCENT EXCEEDS	18		24	
90 PERCENT EXCEEDS	11		16	

a Also occurred Jul. 13.
 b Caused by backwater from beaver dam.



021973005 TINKER CREEK AT ROAD 8-11 AT SAVANNAH RIVER SITE, SC--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	12	14	18	23	15	16	15	11	11	26	10
2	13	16	14	18	20	16	17	18	12	12	77	11
3	12	14	14	18	19	15	16	17	15	14	54	15
4	17	12	14	21	17	18	16	21	18	11	43	18
5	20	11	14	24	17	19	15	17	18	13	33	21
6	17	11	16	21	17	18	14	15	18	12	28	21
7	14	11	18	22	17	17	14	13	17	e12	26	20
8	12	11	17	20	17	16	15	12	16	13	23	18
9	16	12	15	19	16	17	15	10	15	11	22	17
10	21	12	15	39	16	17	13	11	15	12	21	15
11	22	16	16	36	16	20	12	11	15	11	20	15
12	16	18	16	23	17	27	11	8.8	14	11	22	15
13	24	15	16	20	17	22	11	8.5	13	11	22	14
14	19	14	19	18	28	20	14	8.8	12	11	22	14
15	15	13	19	17	24	20	28	8.6	12	11	22	15
16	14	13	17	16	19	25	22	7.6	11	10	21	15
17	15	13	17	20	17	31	14	7.0	11	10	20	17
18	14	12	17	18	16	25	12	7.3	14	10	19	23
19	14	12	22	18	16	22	12	10	31	10	22	28
20	15	12	23	22	15	53	11	11	28	10	24	21
21	14	13	22	20	14	34	11	10	21	11	16	15
22	14	13	21	17	14	20	10	11	19	15	16	12
23	13	13	20	27	14	17	9.9	10	22	30	15	90
24	11	12	19	49	14	16	11	10	17	33	15	48
25	12	13	18	44	14	15	12	7.9	13	24	13	31
26	11	23	18	27	14	14	12	11	13	20	9.4	63
27	12	23	18	22	15	14	12	11	16	16	11	35
28	11	16	17	20	18	15	15	11	13	25	9.7	22
29	11	15	16	24	16	14	14	12	14	22	7.8	17
30	11	14	17	33	---	16	14	13	15	15	8.0	18
31	11	---	18	30	---	16	---	12	---	12	10	---
TOTAL	455	415	537	741	497	624	418.9	356.5	479	449	697.9	694
MEAN	14.7	13.8	17.3	23.9	17.1	20.1	14.0	11.5	16.0	14.5	22.5	23.1
MAX	24	23	23	49	28	53	28	21	31	33	77	90
MIN	11	11	14	16	14	14	9.9	7.0	11	10	7.8	10
CFSM	.90	.85	1.06	1.47	1.05	1.23	.86	.71	.98	.89	1.38	1.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2000, BY WATER YEAR (WY)

MEAN	23.8	23.5	24.7	29.4	27.9	29.0	23.2	18.9	21.4	21.4	20.9	21.7
MAX	28.9	28.6	29.5	43.4	40.2	44.6	38.4	29.8	31.2	29.6	29.4	26.4
(WY)	1995	1993	1993	1993	1993	1993	1993	1993	1993	1993	1995	1995
MIN	14.7	13.8	17.3	23.9	17.1	20.1	14.0	11.5	16.0	14.5	11.4	13.8
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	1999	1999

SAVANNAH RIVER BASIN

021973005 TINKER CREEK AT ROAD 8-11 AT SAVANNAH RIVER SITE, SC--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1993 - 2000	
ANNUAL TOTAL	6172.1		6364.3			
ANNUAL MEAN	16.9		17.4		24.8	
HIGHEST ANNUAL MEAN					32.6	
LOWEST ANNUAL MEAN					17.4	
HIGHEST DAILY MEAN	52	Jan 24	90	Sep 23	107	Jan 8 1993
LOWEST DAILY MEAN	9.4	Sep 1	7.0	May 17	7.0	May 17 2000
ANNUAL SEVEN-DAY MINIMUM	9.7	Aug 3	8.1	May 12	8.1	May 12 2000
INSTANTANEOUS PEAK FLOW			138	Sep 23	Unknown	Oct 31 1993
INSTANTANEOUS PEAK STAGE			a 2.75	Jun 19	a 2.97	Oct 31 1993
ANNUAL RUNOFF (CFSM)	1.04		1.07		1.52	
10 PERCENT EXCEEDS	24		24		35	
50 PERCENT EXCEEDS	15		16		23	
90 PERCENT EXCEEDS	11		11		14	

a Caused by backwater from beaver dam.

e Estimated

