

02197348 PEN BRANCH AT ROAD A-13.2 AT SAVANNAH RIVER SITE, SC

LOCATION.--Lat 33°09'34'', long 81°41'08'', Barnwell County, Hydrologic Unit 03060106, on right downstream side of bridge on SRS Road A-13.2, 700 ft downstream from Seaboard Coastline Railroad bridge, 600 ft west of intersection of SRS Roads A-17 and A-17.1, at Savannah River Site.

DRAINAGE AREA.--21.2 mi<sup>2</sup>.

PERIOD OF RECORD.--November 1976 to January 1983, May 1983 to current year.

GAGE.--Data collection platform. Elevation of gage from November 1976 to October 1, 1990 was 100 ft; from October 1, 1990 to October 26, 1997 datum was 99 ft; from October 26, 1997 to present datum is 98 ft (from topographic map).

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Savannah River Site operations.

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	12	11	12	12	21	13	14	8.8	6.6	9.6	10	7.4
2	11	15	12	12	19	13	13	8.5	6.5	7.7	21	7.9
3	11	13	12	12	18	13	13	8.6	6.4	7.2	14	10
4	15	11	13	14	17	18	13	8.3	6.6	7.0	11	9.8
5	20	12	12	16	16	16	12	8.2	7.1	6.8	9.9	11
6	14	11	13	15	16	14	12	8.0	7.0	6.6	8.7	10
7	12	11	13	14	16	13	12	7.9	6.5	6.9	8.1	11
8	11	11	12	13	15	13	12	7.7	6.3	7.5	7.7	9.7
9	11	11	12	13	15	13	12	7.6	6.3	6.9	7.6	8.6
10	10	11	12	37	15	12	12	7.6	6.3	6.6	8.0	8.0
11	11	12	12	25	15	13	11	7.6	6.2	6.9	7.9	7.7
12	14	12	12	17	15	18	11	7.4	6.2	6.5	8.0	7.5
13	34	12	12	15	15	15	11	7.3	6.2	6.4	7.4	8.0
14	17	12	15	14	22	13	12	7.2	6.1	6.4	7.1	7.6
15	14	11	13	14	19	13	23	6.9	6.1	6.4	7.0	7.4
16	12	11	12	14	16	18	16	6.9	6.4	6.3	6.9	7.1
17	12	11	12	13	15	25	13	7.0	6.5	6.3	6.8	6.8
18	12	11	12	14	15	17	11	7.1	7.1	7.1	6.7	8.1
19	11	12	17	14	15	14	10	6.9	11	5.9	14	10
20	11	12	16	16	14	114	10	6.8	8.5	5.8	9.8	9.0
21	11	11	15	15	14	39	9.5	6.8	8.5	5.8	7.4	11
22	11	12	15	13	13	22	9.0	7.2	8.2	6.0	7.2	15
23	10	12	14	22	13	19	9.0	6.9	15	29	7.1	285
24	10	12	13	63	14	17	9.2	6.8	8.7	62	6.9	34
25	10	12	12	52	13	16	9.7	6.7	7.3	13	17	18
26	11	20	12	24	13	15	9.6	7.1	6.8	10	12	20
27	11	18	12	19	14	15	9.7	8.7	6.8	8.6	8.4	15
28	11	14	12	18	16	15	10	7.4	6.8	8.1	8.0	12
29	10	12	12	21	14	14	9.8	6.7	10	7.9	7.5	11
30	10	12	12	39	---	15	9.5	6.6	17	7.6	9.0	10
31	10	---	12	31	---	16	---	6.5	---	7.3	7.9	---
TOTAL	390	368	397	631	453	601	348.0	229.7	231.0	302.1	286.0	603.6
MEAN	12.6	12.3	12.8	20.4	15.6	19.4	11.6	7.41	7.70	9.75	9.23	20.1
MAX	34	20	17	63	22	114	23	8.8	17	62	21	285
MIN	10	11	12	12	13	12	9.0	6.5	6.1	5.8	6.7	6.8
CFSM	.59	.58	.60	.96	.74	.91	.55	.35	.36	.46	.44	.95
IN.	.68	.65	.70	1.11	.79	1.05	.61	.40	.41	.53	.50	1.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2000, BY WATER YEAR (WY)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	172	163	194	184	180	215	202	184	173	183	173	156	172	163	194	184	180	215	202	184	173	183	173	156
MAX	412	425	432	440	442	468	425	451	423	451	421	414	412	425	432	440	442	468	425	451	423	451	421	414
(WY)	1982	1992	1982	1980	1978	1980	1982	1978	1992	1992	1982	1982	1982	1982	1992	1982	1980	1978	1982	1982	1992	1992	1982	1982
MIN	12.6	12.3	12.8	20.4	15.6	18.4	11.6	7.41	7.70	9.75	9.23	20.1	12.6	12.3	12.8	20.4	15.6	18.4	11.6	7.41	7.70	9.75	9.23	20.1
(WY)	2000	2000	2000	2000	2000	1999	2000	2000	2000	2000	2000	1999	2000	2000	2000	2000	2000	1999	2000	2000	2000	1997	1999	2000

SAVANNAH RIVER BASIN

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 SUMMARY STATISTICS FOR 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1977 - 2000

ANNUAL TOTAL	5392.2		4840.4			
ANNUAL MEAN	14.8		13.2		162	
HIGHEST ANNUAL MEAN					383	1984
LOWEST ANNUAL MEAN					13.2	2000
HIGHEST DAILY MEAN	111	Jul 13	285	Sep 23	760	Aug 2 1991
LOWEST DAILY MEAN	6.5	Sep 14	5.8	a Jul 20	2.5	Sep 22 1997
ANNUAL SEVEN-DAY MINIMUM	7.0	Sep 3	6.2	Jul 16	3.0	Sep 17 1997
INSTANTANEOUS PEAK FLOW			492	Sep 23	Unknown	Aug 2 1991
INSTANTANEOUS PEAK STAGE			4.76	Sep 23	6.08	Aug 2 1991
ANNUAL RUNOFF (CFSM)	.70		.62		7.63	
ANNUAL RUNOFF (INCHES)	9.46		8.49		103.69	
10 PERCENT EXCEEDS	20		17		422	
50 PERCENT EXCEEDS	12		12		90	
90 PERCENT EXCEEDS	8.6		6.8		15	

a Also occurred Jul. 21.

