

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.--Records fair except for estimated daily discharges, 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	15	12	15	15	59	16	18	25	9.1	19	9.5	7.3
2	13	12	15	15	58	16	18	16	8.9	16	9.3	7.3
3	13	12	15	32	27	17	16	13	9.3	13	9.3	7.2
4	38	12	15	19	23	16	15	11	13	12	9.0	7.1
5	26	12	15	16	22	16	14	13	9.5	11	8.8	6.9
6	16	12	15	15	21	16	14	16	9.0	11	8.8	6.8
7	18	12	15	15	20	16	14	17	8.8	18	8.8	6.8
8	21	12	15	16	20	15	14	13	8.6	14	8.8	6.9
9	16	12	15	16	19	18	13	11	8.5	12	8.6	7.2
10	14	12	15	16	20	18	13	11	8.4	11	8.6	8.6
11	13	12	14	15	20	17	13	10	9.6	17	8.5	7.2
12	12	13	14	16	19	16	12	10	9.8	70	8.4	6.8
13	12	12	15	15	17	16	11	11	8.8	111	8.4	6.6
14	12	13	15	15	17	33	12	14	8.7	36	9.2	6.5
15	13	14	15	33	17	24	13	11	9.5	24	9.2	7.4
16	12	16	17	20	17	19	13	10	27	21	10	9.0
17	12	18	15	17	17	17	12	9.9	e20	20	10	6.9
18	12	16	15	33	19	17	11	9.7	e10	17	8.9	6.7
19	12	15	15	24	18	16	11	9.8	e11	15	8.6	6.9
20	12	15	15	18	17	16	12	9.1	e9.9	14	60	8.0
21	12	15	15	18	17	17	11	8.8	e10	13	17	14
22	12	15	15	18	17	17	11	8.9	e10	12	11	8.9
23	12	15	15	47	17	16	10	9.3	e9.8	13	8.8	7.5
24	12	15	15	106	17	16	10	8.9	e10	12	9.0	7.1
25	12	15	21	36	17	19	10	8.5	e9.9	11	11	7.4
26	12	15	25	25	17	37	11	9.4	e11	10	9.0	7.6
27	12	15	19	22	17	24	11	9.9	e12	10	8.1	12
28	12	15	17	21	17	19	11	9.3	e15	10	8.2	23
29	12	15	16	20	---	17	12	9.3	23	9.9	8.6	20
30	12	14	15	20	---	16	19	9.2	62	10	8.0	13
31	12	---	15	21	---	16	---	9.1	---	9.7	7.4	---
TOTAL	444	413	488	735	603	569	385	351.1	390.1	602.6	336.8	264.6
MEAN	14.3	13.8	15.7	23.7	21.5	18.4	12.8	11.3	13.0	19.4	10.9	8.82
MAX	38	18	25	106	59	37	19	25	62	111	60	23
MIN	12	12	14	15	17	15	10	8.5	8.4	9.7	7.4	6.5
IN.	.78	.72	.86	1.29	1.06	1.00	.68	.62	.68	1.06	.59	.46

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1999, BY WATER YEAR (WY)

MEAN	180	170	203	192	188	224	210	193	182	191	181	162
MAX	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
MIN	14.3	13.8	15.7	23.7	21.5	18.4	12.8	10.6	13.0	15.6	9.10	8.82
(WY)	1999	1999	1999	1999	1999	1999	1999	1997	1999	1998	1997	1999

## SAVANNAH RIVER BASIN

SUMMARY STATISTICS	02197348 PEN BRANCH AT ROAD A-13.2 AT SAVANNAH RIVER SITE, SC--Continued	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1977 - 1999
ANNUAL TOTAL	10588		5582.2	
ANNUAL MEAN	29.0		15.3	
HIGHEST ANNUAL MEAN				170
LOWEST ANNUAL MEAN				383
HIGHEST DAILY MEAN	209	Apr 18	111	15.3
LOWEST DAILY MEAN	11	Jun 28	6.5	1999
ANNUAL SEVEN-DAY MINIMUM	11	Jul 1	7.0	Sep 14
INSTANTANEOUS PEAK FLOW			192	2.5
INSTANTANEOUS PEAK STAGE			3.23	Sep 3
ANNUAL RUNOFF (INCHES)	18.58		Jul 13	3.0
10 PERCENT EXCEEDS	61		9.80	Sep 17 1997
50 PERCENT EXCEEDS	16		21	Aug 2 1991
90 PERCENT EXCEEDS	12		14	105
			8.6	Aug 2 1991
				6.08
				Unknown Aug 2 1991
				22

e Estimated

