

SAVANNAH RIVER BASIN

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 mi².

PERIOD OF RECORD.--November 1976 to January 1983, May 1983 to September 2002 (discontinued).

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 above NGVD of 1929 (from topographic map).

REMARKS.--Records fair. Flow regulated by Savannah River Site operations.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	7.4	9.2	8.2	9.4	9.8	11	6.9	5.1	6.3	5.9	11
2	6.8	7.4	8.8	9.1	8.8	17	10	6.9	4.8	5.3	5.6	11
3	6.3	7.8	8.6	13	8.9	23	9.9	6.5	4.6	13	5.0	7.7
4	6.1	7.6	9.0	11	11	15	9.4	7.2	4.7	8.2	4.7	6.5
5	6.2	7.3	9.1	11	8.6	12	9.1	7.2	4.6	5.7	4.8	6.0
6	6.4	7.6	8.9	14	12	11	8.7	6.7	4.5	5.3	4.8	5.8
7	6.5	7.9	8.8	14	65	11	8.6	6.4	4.7	5.2	4.6	5.6
8	6.2	7.5	8.8	11	23	10	8.6	6.2	4.7	5.2	4.4	5.4
9	6.0	7.5	9.0	10	14	10	8.6	6.2	4.4	6.5	4.4	5.2
10	6.2	7.6	8.8	9.2	12	11	25	6.0	4.4	5.1	4.4	5.1
11	6.4	7.6	9.7	9.6	11	18	17	5.6	4.3	7.2	4.4	5.1
12	6.4	7.4	9.2	12	11	12	14	5.5	4.3	9.5	4.5	5.0
13	6.4	7.5	9.3	23	10	28	18	6.0	4.3	11	4.5	4.9
14	7.3	7.5	9.3	15	10	16	13	8.8	4.1	20	4.6	5.6
15	8.4	7.9	8.9	12	10	12	10	6.8	5.0	7.7	4.8	9.6
16	7.5	7.9	8.7	9.9	10	11	9.2	5.7	4.7	6.2	4.7	9.2
17	6.7	7.6	8.7	10	8.8	11	8.6	5.6	4.2	5.6	5.6	6.4
18	6.6	7.6	9.8	9.8	9.2	12	8.3	6.5	5.3	5.3	6.6	6.8
19	6.6	7.9	9.3	9.9	9.2	11	9.1	7.3	6.7	5.1	9.7	9.2
20	6.8	8.0	8.8	12	9.6	10	8.9	6.1	5.1	4.9	8.1	8.0
21	6.8	8.0	8.6	12	10	14	7.8	5.7	4.5	4.9	5.8	7.5
22	6.8	8.0	8.8	11	9.6	14	7.3	5.7	4.9	7.1	5.8	6.9
23	6.9	8.5	8.7	12	9.4	11	7.2	5.4	5.5	7.3	5.2	6.4
24	7.1	12	8.6	14	8.8	11	7.5	5.3	5.7	6.7	5.0	6.4
25	6.9	11	8.4	11	9.0	e10	7.4	5.2	10	6.0	6.1	6.4
26	6.4	11	8.4	10	8.6	e11	6.9	5.1	9.2	5.7	7.5	9.3
27	6.5	9.5	8.6	8.9	9.8	12	6.8	5.0	6.1	5.3	7.2	10
28	6.7	8.9	8.8	9.8	7.9	11	7.1	5.0	5.3	5.1	14	7.8
29	7.0	8.7	8.9	9.8	---	10	6.6	4.9	5.1	4.9	8.2	6.8
30	7.2	8.8	9.1	9.8	---	11	6.5	5.0	5.2	4.7	9.7	6.6
31	7.3	---	8.8	9.6	---	12	---	5.0	---	4.6	7.8	---
TOTAL	207.8	246.9	276.4	351.6	344.6	397.8	296.1	187.4	156.0	210.6	188.4	213.2
MEAN	6.70	8.23	8.92	11.3	12.3	12.8	9.87	6.05	5.20	6.79	6.08	7.11
MAX	8.4	12	9.8	23	65	28	25	8.8	10	20	14	11
MIN	6.0	7.3	8.4	8.2	7.9	9.8	6.5	4.9	4.1	4.6	4.4	4.9
CFSM	0.32	0.39	0.42	0.53	0.58	0.61	0.47	0.29	0.25	0.32	0.29	0.34
IN.	0.36	0.43	0.49	0.62	0.60	0.70	0.52	0.33	0.27	0.37	0.33	0.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2002, BY WATER YEAR (WY)

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1977 - 2002
ANNUAL TOTAL	4639.6	3076.8	
ANNUAL MEAN	12.7	8.43	
HIGHEST ANNUAL MEAN			147
LOWEST ANNUAL MEAN			383
HIGHEST DAILY MEAN	150	Mar 4	8.43
LOWEST DAILY MEAN	6.0	Oct 9	2002
ANNUAL SEVEN-DAY MINIMUM	6.2	Oct 4	2.5
MAXIMUM PEAK FLOW		65 Feb 7	Sep 22 1997
MAXIMUM PEAK STAGE		4.1 Jun 14	3.0
ANNUAL RUNOFF (CFSM)	0.60	4.4 Jun 8	Sep 17 1997
ANNUAL RUNOFF (INCHES)	8.14	82 a Feb 7	Unknown Aug 2 1991
10 PERCENT EXCEEDS	19	2.08 a Feb 7	6.08 Aug 2 1991
50 PERCENT EXCEEDS	9.1	0.40	6.95
90 PERCENT EXCEEDS	6.7	5.40	94.48
		12	412
		7.7	54
		4.9	9.8

a Also occurred Mar. 11.

e Estimated

