

BIG SANDY RIVER BASIN

03208500 RUSSELL FORK AT HAYSI, VA

LOCATION.--Lat 37°12'25", long 82°17'45", Dickenson County, Hydrologic Unit 05070202, on right bank 180 ft downstream from bridge on State Highway 63, at Haysi, and 700 ft downstream from McClure River.

DRAINAGE AREA.--286 mi².

PERIOD OF RECORD.--July 1926 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 1003: 1926-43. WSP 1385: 1928(M), 1929, 1933(M), 1935(M), 1937-38(M).

GAGE.--Water-stage recorder. Datum of gage is 1,237.61 ft above sea level. Prior to Dec. 21, 1939, nonrecording gage at highway bridge 180 ft upstream at same datum.

REMARKS.--Records good except those for period with ice effect Jan. 5-7, and period of no gage-height record, May 18-21, which are fair. U.S. Army Corps of Engineers satellite precipitation and gage-height telemeter at station. Maximum discharge, 59,000 ft³/s, from rating curve extended above 32,000 ft³/s on basis of slope-area measurement of peak flow. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 24	1130	*3,900	*6.36	No peak greater than base discharge.			

Minimum discharge, 7.5 ft³/s, Sep 25, gage height, 1.81 ft.

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	54	27	25	99	258	1580	199	376	108	120	62	11
2	40	27	23	94	256	882	193	324	106	82	84	11
3	35	28	23	784	253	1210	178	280	100	72	63	10
4	34	29	29	532	236	1880	170	247	89	64	43	11
5	34	31	33	e140	208	1130	161	222	83	51	36	11
6	32	28	38	e105	193	1090	152	248	77	45	30	16
7	30	26	41	e110	200	879	144	234	72	40	26	25
8	52	25	366	122	193	635	140	211	68	39	24	21
9	60	26	504	740	175	590	148	188	63	35	28	14
10	45	25	162	849	167	713	143	165	60	40	29	16
11	36	42	90	446	156	756	434	149	56	208	24	25
12	33	54	70	284	170	645	708	137	59	99	20	17
13	32	41	505	201	216	529	475	138	52	78	19	13
14	30	34	542	188	195	529	370	242	54	61	22	12
15	29	29	218	1460	197	1160	357	188	53	50	19	11
16	28	28	124	986	205	1340	366	153	51	47	19	11
17	27	27	100	575	249	1540	316	134	49	39	18	10
18	25	25	83	1010	274	1110	285	e124	48	38	18	9.8
19	27	24	69	1250	306	754	261	e940	42	51	16	9.0
20	28	25	65	723	315	566	253	e500	39	44	21	8.6
21	26	26	58	473	283	505	232	e300	37	38	28	10
22	26	25	68	338	254	422	212	255	35	35	24	10
23	26	24	86	332	233	356	193	221	34	32	19	9.4
24	26	24	111	2560	227	335	190	417	34	47	17	9.7
25	25	23	105	1380	225	306	174	375	42	91	24	8.2
26	26	30	95	689	232	277	181	280	44	66	28	8.3
27	26	30	88	473	232	256	229	219	43	45	24	11
28	26	30	86	368	1570	237	519	176	89	41	19	28
29	29	28	95	299	---	221	586	149	87	43	16	36
30	31	25	119	247	---	202	455	134	226	65	14	63
31	29	---	112	216	---	190	---	120	---	84	12	---
TOTAL	1007	866	4133	18073	7678	22825	8424	7846	2000	1890	846	466.0
MEAN	32.5	28.9	133	583	274	736	281	253	66.7	61.0	27.3	15.5
MAX	60	54	542	2560	1570	1880	708	940	226	208	84	63
MIN	25	23	23	94	156	190	140	120	34	32	12	8.2
CFSM	.11	.10	.47	2.04	.96	2.57	.98	.88	.23	.21	.10	.05
IN.	.13	.11	.54	2.35	1.00	2.97	1.10	1.02	.26	.25	.11	.06

03208500 RUSSELL FORK AT HAYSI, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	87.6	164	331	519	650	776	584	420	186	148	119	63.3
MAX	838	961	1326	2083	1797	2331	1994	1429	738	566	561	608
(WY)	1990	1978	1927	1937	1939	1955	1977	1958	1998	1938	1966	1989
MIN	.98	2.46	11.1	19.6	57.7	168	64.0	63.4	21.6	3.03	8.81	2.07
(WY)	1954	1954	1954	1940	1941	1988	1942	1941	1966	1930	1953	1943

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1926 - 1999
ANNUAL TOTAL	179846	76054.0	
ANNUAL MEAN	493	208	336
HIGHEST ANNUAL MEAN			568
LOWEST ANNUAL MEAN			100
HIGHEST DAILY MEAN	11700	Apr 17	30600
LOWEST DAILY MEAN	23	aNov 25	.20
ANNUAL SEVEN-DAY MINIMUM	24	Nov 19	.56
INSTANTANEOUS PEAK FLOW			59000
INSTANTANEOUS PEAK STAGE			28.24
INSTANTANEOUS LOW FLOW			b.20
ANNUAL RUNOFF (CFSM)	1.72	.73	1.18
ANNUAL RUNOFF (INCHES)	23.39	9.89	15.97
10 PERCENT EXCEEDS	1170	530	740
50 PERCENT EXCEEDS	184	83	131
90 PERCENT EXCEEDS	28	20	15

- a Also Dec 2, 3, 1998.
- b Observed.
- c Also Jun 28, 1936.
- e Estimated.

