

BIG SANDY RIVER BASIN

03209000 POUND RIVER BELOW FLANNAGAN DAM, NEAR HAYSI, VA

LOCATION.--Lat 37°14'13", long 82°20'36", Dickenson County, Hydrologic Unit 05070202, on right bank 1,100 ft upstream from Blacklog Branch, 1,700 ft downstream from John W. Flannagan Dam, 1.4 mi upstream from mouth, and 3.4 mi northwest of Haysi.

DRAINAGE AREA.--221 mi².

PERIOD OF RECORD.--July 1926 to current year. Monthly discharge only for some periods, published in WSP 1305. Prior to October 1963, published as Pound River near Haysi.

REVISED RECORDS.--WSP 953: 1940-41. WSP 1003: 1942, 1943(P). WSP 1275: 1927-30, 1931(M), 1932-39.

GAGE.--Water-stage recorder. Datum of gage is 1,200.00 ft above sea level (U.S. Army Corps of Engineers bench mark). Prior to Dec. 20, 1939, nonrecording gage at site 3.8 mi upstream at different datum. Dec. 20, 1939, to Sept. 30, 1963, water-stage recorder at site 4.6 mi upstream at datum 79.91 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since March 1965 by John W. Flannagan Reservoir (station 03208990) 1,700 ft upstream and since August 1966 by North Fork of Pound Lake (station 03208680) 33 mi upstream. Statistics of monthly mean data and summary statistics for water years 1926-1964 (unregulated flow) are available in previous data books, water years 1991-1998. U.S. Army Corps of Engineers satellite precipitation and gage-height telemeter at station. Maximum discharge, about 30,000 ft³/s, from rating curve extended above 1,750 ft³/s. Maximum discharge since construction of John W. Flannagan Dam in 1965, 4,540 ft³/s. Minimum gage height since construction of John W. Flannagan Dam, 0.91 ft, Sept. 26, 1996, when gates in Flannagan Dam were closed for inspection. 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.--Maximum discharge, 2,290 ft³/s, Apr. 4, gage height, 6.10 ft; minimum daily, 8.5 ft³/s, Dec. 15.

**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	32	46	109	115	136	104	9.4	230	65	48	111	58
2	243	46	42	115	158	104	9.4	239	58	48	113	58
3	239	46	42	115	140	104	10	248	46	50	467	58
4	50	47	64	89	117	104	801	171	47	50	282	60
5	58	48	82	72	117	104	857	171	47	534	217	60
6	49	49	67	72	117	83	372	171	46	889	81	127
7	53	48	51	72	117	70	46	171	46	235	81	58
8	53	46	53	72	117	70	49	171	46	197	81	50
9	263	45	72	72	117	70	50	171	47	139	215	50
10	247	45	95	49	181	72	50	142	48	45	466	50
11	29	45	100	41	221	77	50	111	49	37	404	49
12	43	46	100	42	221	231	50	94	50	250	130	53
13	51	48	50	43	221	633	50	85	61	351	94	53
14	50	47	8.9	43	1300	406	50	85	67	895	56	57
15	50	45	8.5	43	1690	244	50	67	66	497	57	72
16	252	41	8.7	43	952	169	50	50	65	111	58	74
17	250	42	8.7	43	526	322	50	50	67	54	58	63
18	50	40	8.7	84	290	450	50	50	60	118	59	49
19	50	53	8.7	154	251	307	160	50	61	151	60	76
20	50	66	24	156	251	308	254	50	57	97	61	96
21	50	65	53	123	251	1120	232	50	58	60	62	80
22	50	65	53	98	539	986	221	97	52	39	64	39
23	335	65	53	98	344	513	221	72	48	39	65	50
24	362	65	53	69	158	438	221	129	48	225	215	50
25	51	65	53	51	177	200	516	158	49	217	177	50
26	46	65	53	51	177	200	1090	158	48	78	36	50
27	46	63	97	51	177	108	600	98	49	42	36	50
28	46	61	119	83	177	41	526	65	147	53	294	50
29	46	405	115	104	136	102	203	65	279	297	163	50
30	47	440	115	104	---	195	319	65	124	209	50	50
31	46	---	115	104	---	93	---	65	---	111	58	---
TOTAL	3287	2298	1882.2	2471	9376	8028	7216.8	3599	2001	6166	4371	1790
MEAN	106	76.6	60.7	79.7	323	259	241	116	66.7	199	141	59.7
MAX	362	440	119	156	1690	1120	1090	248	279	895	467	127
MIN	29	40	8.5	41	117	41	9.4	50	46	37	36	39
([†])	-2657	-70	-35	+555	+101	+615	+7169	+166	-40	+95	-136	-297
MEAN‡	20.3	74.3	59.6	97.6	327	279	480	121	65.4	202	137	49.8
CFSM‡	.09	.34	.27	.44	1.48	1.26	2.17	.55	.30	.91	.62	.23
IN.‡	.11	.38	.31	.51	1.60	1.46	2.42	.63	.33	1.05	.71	.25

CAL YR 1999 MEAN‡ 172 CFSM‡ .78 IN.‡ 10.57
WTR YR 2000 MEAN‡ 158 CFSM‡ .71 IN.‡ 9.73

† Total change in contents, equivalent in cubic feet per second, per month, in North Fork of Pound Lake and John W. Flannagan Reservoir; provided by U.S. Army Corps of Engineers.

‡ Adjusted for monthly change in contents.

03209000 POUND RIVER BELOW FLANNAGAN DAM, NEAR HAYSI, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	235	303	328	430	493	530	290	347	180	113	105	94.7
MAX	927	679	1003	1171	1343	1181	1004	1074	756	320	245	405
(WY)	1990	1978	1992	1972	1994	1975	1977	1975	1989	1994	1994	1982
MIN	48.9	24.8	16.1	31.8	92.3	110	46.1	47.4	9.66	5.49	7.13	32.5
(WY)	1989	1966	1966	1966	1992	1988	1995	1982	1966	1965	1965	1967

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1965 - 2000
ANNUAL TOTAL	51735.2	52486.0	
ANNUAL MEAN	142	143	287
HIGHEST ANNUAL MEAN			481
LOWEST ANNUAL MEAN			120
HIGHEST DAILY MEAN	1280	Mar 4	4410
LOWEST DAILY MEAN	8.5	Dec 15	2.3
ANNUAL SEVEN-DAY MINIMUM	11	Dec 14	aJun 26 1965
INSTANTANEOUS PEAK FLOW		1690 Feb 15	2.5
INSTANTANEOUS PEAK STAGE		2290 Apr 4	Jun 25 1965
INSTANTANEOUS LOW FLOW		6.10 Apr 4	8.20
ANNUAL RUNOFF (CFSM)	.64	(b) Sep 22	Apr 8 1977
ANNUAL RUNOFF (INCHES)	8.71	.65	(b) Sep 22 2000
10 PERCENT EXCEEDS	264	8.83	1.30
50 PERCENT EXCEEDS	68	300	17.62
90 PERCENT EXCEEDS	37	67	647
		45	139
			46

a Also June 27-29, 1965.

b Practically no flow, due to regulation.

