

## 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 mi<sup>2</sup>.

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 Sep. 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 ft<sup>3</sup>/s, from rating curve extended above 1,750 ft<sup>3</sup>/s. Maximum discharge since construction of John W. Flannagan Dam in 1965, 4,540 ft<sup>3</sup>/s. Minimum gage height since construction of John W. Flannagan Dam, 0.91 ft, Sep. 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, 2,100 ft<sup>3</sup>/s, Mar 15, gage height, 5.89 ft; minimum daily, 18 ft<sup>3</sup>/s, Jan 9-14.

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	46	182	46	203	264	831	88	56	68	34	74	115		
2	47	273	201	203	264	1220	42	56	70	34	49	119		
3	255	187	380	287	264	1210	43	56	55	34	35	119		
4	261	187	429	832	264	1280	43	49	43	34	57	115		
5	56	187	426	531	242	1190	43	43	45	34	85	115		
6	57	484	424	188	208	978	43	44	44	52	96	115		
7	58	669	424	193	209	834	43	45	44	61	94	88		
8	58	666	424	109	209	454	43	45	45	72	102	34		
9	58	660	654	18	201	505	43	45	45	82	112	45		
10	259	658	933	18	120	627	43	46	45	83	108	56		
11	256	654	925	18	81	599	43	46	43	83	99	50		
12	46	650	457	18	163	486	43	46	43	68	106	50		
13	46	648	390	18	181	444	43	47	44	61	112	66		
14	74	647	493	18	179	444	43	48	52	70	89	75		
15	110	642	420	19	179	996	52	135	56	87	97	74		
16	111	378	262	19	84	963	49	168	56	87	113	74		
17	293	264	132	19	59	1260	45	148	56	87	113	74		
18	271	264	58	19	150	1130	45	148	56	87	113	74		
19	59	269	58	19	203	791	45	148	55	56	113	74		
20	60	289	58	19	203	640	45	230	54	67	113	74		
21	61	293	58	19	203	411	45	208	63	87	113	74		
22	61	293	58	19	203	298	45	131	67	80	113	74		
23	61	293	58	19	203	346	45	129	76	79	113	74		
24	368	293	58	19	203	282	45	131	90	84	113	74		
25	397	293	58	627	203	226	45	131	85	63	113	74		
26	100	293	58	849	203	184	46	131	79	36	102	74		
27	88	293	58	454	203	184	46	131	79	34	92	74		
28	89	293	54	329	203	184	46	131	52	59	92	60		
29	224	181	50	264	---	184	46	131	34	74	102	42		
30	234	46	94	264	---	184	48	103	34	74	111	37		
31	182	---	181	264	---	184	---	67	---	74	114	---		
TOTAL	4346	11429	8379	5895	5351	19549	1384	3073	1678	2017	3058	2263		
MEAN	140	381	270	190	191	631	46.1	99.1	55.9	65.1	98.6	75.4		
MAX	397	669	933	849	264	1280	88	230	90	87	114	119		
MIN	46	46	46	18	59	184	42	43	34	34	35	34		
(†)	-3489	-10965	-3872	+10562	+615	-448	+6100	+2803	-287	-796	-2581	-2072		
MEAN‡	27.6	15.5	145	531	213	616	249	190	46.4	39.4	15.4	6.37		
CFSM‡	.12	.07	.66	2.40	.96	2.79	1.13	.86	.21	.18	.07	.03		
IN. ‡	.14	.08	.76	2.77	1.00	3.21	1.26	.99	.23	.21	.08	.03		
CAL YR 1998	TOTAL	134214	MEAN	368	MAX	3950	MIN	45	MEAN‡	338	CFSM‡	1.53	IN. ‡	20.77
WTR YR 1999	TOTAL	68442	MEAN	187	MAX	1280	MIN	18	MEAN‡	175	CFSM‡	0.79	IN. ‡	10.75

† 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 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	238	310	336	440	498	538	291	353	183	110	104	95.7
MAX	927	679	1003	1171	1343	1181	1004	1074	756	320	245	405
(WY)	1990	1978	1992	1972	1994	1975	1977	1975	1989	1989	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 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1965 - 1999
ANNUAL TOTAL	134214	68422	
ANNUAL MEAN	368	187	291
HIGHEST ANNUAL MEAN			481 1975
LOWEST ANNUAL MEAN			120 1966
HIGHEST DAILY MEAN	3950	Apr 23	4410 Apr 9 1977
LOWEST DAILY MEAN	45	Sep 2	2.3 bJun 26 1965
ANNUAL SEVEN-DAY MINIMUM	48	Aug 28	2.5 Jun 25 1965
INSTANTANEOUS PEAK FLOW			2100 Mar 15 4540 Apr 8 1977
INSTANTANEOUS PEAK STAGE			5.89 Mar 15 Apr 8 1977
INSTANTANEOUS LOW FLOW			(c) 1.2 dFeb 16 1968
ANNUAL RUNOFF (CFSM)	1.66	.85	1.32
ANNUAL RUNOFF (INCHES)	22.59	11.52	17.87
10 PERCENT EXCEEDS	911	455	656
50 PERCENT EXCEEDS	224	88	142
90 PERCENT EXCEEDS	56	43	46

- a Also Jan 10-14, 1999.
- b Also Jun 27-29, 1965.
- c Not determined.
- d Also Aug 26, 1986.

