

ROANOKE RIVER BASIN

02058400 PIGG RIVER NEAR SANDY LEVEL, VA

LOCATION.--Lat 36°56'45", long 79°31'30", Pittsylvania County, Hydrologic Unit 03010101, on left bank 300 ft downstream from Harpen Creek, 0.5 mi upstream from bridge on State Highway 40, and 1.1 mi south of Sandy Level.

DRAINAGE AREA.--350 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1963 to current year.

REVISED RECORDS.--WSP 2104: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 617.00 ft above sea level (U.S. Army Corps of Engineers bench mark). Prior to Nov. 18, 1963, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. American Electric Power gage-height transmitter at station, recorder at Roanoke. Maximum discharge, 65,600 ft<sup>3</sup>/s, from rating curve extended above 25,500 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow. Minimum gage height, 1.95 ft, Aug. 29, 30, 1981. 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 4,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Sep 30	0915	*5,420	*10.32	No other peak greater than base discharge.			
Minimum discharge, 44 ft <sup>3</sup> /s, Aug 19-20, gage height, 2.04 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	88	134	141	175	233	244	254	228	117	97	101	71
2	87	130	140	169	615	218	362	199	113	107	90	69
3	84	131	139	317	604	208	289	184	113	109	82	65
4	98	144	139	482	401	257	253	179	110	97	75	64
5	115	154	140	326	324	245	231	176	106	91	72	347
6	126	147	142	283	282	223	215	174	105	77	69	1110
7	140	136	143	276	264	215	209	173	103	75	66	658
8	174	134	147	238	270	197	200	287	100	162	64	280
9	258	137	243	236	243	198	196	209	97	105	63	190
10	181	142	260	302	225	213	194	175	92	97	64	197
11	142	178	183	282	216	212	502	159	87	109	63	211
12	134	254	158	243	215	200	786	150	88	102	58	151
13	131	181	511	233	222	189	399	158	90	176	55	128
14	131	153	604	244	204	216	312	228	91	209	53	120
15	128	149	299	313	193	732	282	451	92	174	52	122
16	126	145	218	366	192	819	297	268	96	134	60	310
17	125	142	189	290	195	459	267	205	113	114	57	267
18	125	140	172	344	369	357	236	182	125	113	51	171
19	125	139	162	461	470	303	225	186	114	98	46	141
20	124	140	161	343	348	269	221	184	105	90	49	135
21	122	142	159	279	289	312	213	158	116	104	62	139
22	121	140	158	247	250	400	209	148	122	830	73	181
23	117	139	155	245	229	322	201	149	118	352	67	149
24	118	140	217	1190	226	286	193	144	109	174	61	129
25	124	141	299	995	222	274	186	135	101	130	169	122
26	128	146	239	469	219	250	184	133	103	110	337	118
27	128	149	216	354	210	231	194	132	108	98	258	123
28	128	143	218	304	218	220	214	128	111	91	150	884
29	129	140	212	268	---	215	232	124	107	129	107	1310
30	128	142	199	243	---	209	251	121	104	168	89	3980
31	130	---	184	224	---	201	---	119	---	122	77	---
TOTAL	4015	4432	6547	10741	7948	8894	8007	5646	3156	4644	2740	11942
MEAN	130	148	211	346	284	287	267	182	105	150	88.4	398
MAX	258	254	604	1190	615	819	786	451	125	830	337	3980
MIN	84	130	139	169	192	189	184	119	87	75	46	64
CFSM	.37	.42	.60	.99	.81	.82	.76	.52	.30	.43	.25	1.14
IN.	.43	.47	.70	1.14	.84	.95	.85	.60	.34	.49	.29	1.27

02058400 PIGG RIVER NEAR SANDY LEVEL, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	298	313	357	487	510	599	541	405	337	261	242	309
MAX	1220	995	836	1054	1086	1578	2265	989	1200	814	867	1864
(WY)	1991	1986	1974	1978	1998	1993	1987	1978	1972	1972	1985	1987
MIN	110	103	143	160	228	203	202	165	105	85.4	49.3	70.0
(WY)	1982	1982	1966	1981	1968	1981	1985	1981	1999	1967	1981	1968

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1963 - 1999
ANNUAL TOTAL	152822	78712	
ANNUAL MEAN	419	216	389
HIGHEST ANNUAL MEAN			709
LOWEST ANNUAL MEAN			155
HIGHEST DAILY MEAN	9520	Jan 28	34900
LOWEST DAILY MEAN	82	aSep 16	25
ANNUAL SEVEN-DAY MINIMUM	86	Sep 11	29
INSTANTANEOUS PEAK FLOW			65600
INSTANTANEOUS PEAK STAGE			b31.12
INSTANTANEOUS LOW FLOW			24
ANNUAL RUNOFF (CFSM)	1.20	.62	1.11
ANNUAL RUNOFF (INCHES)	16.24	8.37	15.10
10 PERCENT EXCEEDS	685	330	600
50 PERCENT EXCEEDS	256	169	258
90 PERCENT EXCEEDS	118	90	124

- a Also Sep 17, 1998.
- b From floodmarks.
- c Also Aug 20, 1999.
- d Also Aug 30, 1981.

