

MONONGAHELA RIVER BASIN

03072000 DUNKARD CREEK AT SHANNOPIN, PA

LOCATION.--Lat 39°45'33", long 79°58'15", Greene County, Hydrologic Unit 05020005, on left bank 1,300 ft upstream from highway bridge at mine buildings at Shannopin, 1.2 mi north of Dunkard, 3.5 mi upstream from mouth, and 4 mi southwest of Greensboro.

DRAINAGE AREA.--229 mi².

PERIOD OF RECORD.--October 1940 to current year. Prior to December 1940 monthly discharge only, published in WSP 1305.

REVISED RECORDS.--WSP 1505: 1955.

GAGE.--Water-stage recorder. Datum of gage is 806.25 ft above sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some regulation at low flow by mine pumpage above station. Several measurements of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 4,000 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Mar. 7	0200	*3,650	*8.17	(No peaks above base discharge.)			

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	5.2	5.7	9.8	e5.0	117	445	109	183	57	14	5.0	4.1
2	4.8	5.5	10	e5.0	154	538	107	153	56	16	8.6	3.3
3	5.0	4.9	9.1	e5.0	242	586	103	131	86	18	7.6	2.5
4	8.0	5.0	8.2	e15	242	1320	100	116	89	16	5.7	2.1
5	10	7.4	8.0	e60	239	965	112	105	64	16	4.9	2.3
6	11	7.2	8.1	e50	216	1560	101	97	51	15	4.0	3.2
7	11	5.9	8.0	e40	298	2660	91	88	43	11	3.1	3.8
8	14	5.5	10	e30	1290	1200	83	89	38	8.6	5.2	2.9
9	16	5.4	12	e130	968	791	322	87	33	6.5	11	2.5
10	14	7.4	12	e300	605	616	1890	77	29	6.9	7.3	2.3
11	16	8.2	17	e210	423	443	1440	66	26	6.9	4.6	2.1
12	17	8.0	14	e170	328	379	1590	59	24	5.4	3.4	2.1
13	9.6	7.6	14	e250	278	382	843	55	20	4.3	3.0	2.1
14	7.9	7.5	11	922	210	376	562	56	18	4.0	2.3	2.6
15	5.9	8.3	10	2360	176	384	418	58	18	4.4	2.3	2.1
16	5.1	9.2	8.6	1230	163	520	404	52	18	5.3	2.3	2.4
17	4.5	9.4	8.0	847	156	1010	348	44	21	4.3	2.1	2.3
18	4.2	9.4	8.0	833	144	2320	306	43	20	3.6	2.1	1.9
19	4.2	9.2	7.7	1450	128	1690	366	500	17	3.1	2.1	1.7
20	3.4	9.5	7.5	826	111	906	649	355	16	2.7	2.0	1.7
21	2.3	9.6	6.9	668	96	636	954	153	14	2.5	2.1	2.3
22	2.9	8.9	9.2	735	83	518	1070	106	13	2.3	2.2	2.0
23	3.3	9.1	15	643	72	385	1040	166	11	2.1	1.9	1.8
24	3.3	9.4	37	913	71	311	1490	314	11	1.9	2.5	1.8
25	3.3	9.0	23	920	71	262	876	664	10	1.8	3.4	2.2
26	3.2	10	e12	599	72	212	626	363	9.9	1.7	2.9	1.6
27	3.8	10	e9.0	426	70	180	469	209	9.2	1.7	4.0	1.3
28	5.7	9.3	e7.8	326	114	158	356	137	8.6	1.7	9.1	1.6
29	6.1	8.7	e7.0	248	---	141	277	101	12	4.1	6.5	2.1
30	6.0	8.3	e6.0	182	---	123	221	80	16	5.3	4.6	4.6
31	5.9	---	e5.6	139	---	113	---	67	---	4.6	5.1	---
TOTAL	222.6	238.5	339.5	15537.0	7137	22130	17323	4774	858.7	201.7	132.9	71.3
MEAN	7.18	7.95	11.0	501	255	714	577	154	28.6	6.51	4.29	2.38
MAX	17	10	37	2360	1290	2660	1890	664	89	18	11	4.6
MIN	2.3	4.9	5.6	5.0	70	113	83	43	8.6	1.7	1.9	1.3
CFSM	.03	.03	.05	2.19	1.11	3.12	2.52	.67	.12	.03	.02	.01
IN.	.04	.04	.06	2.52	1.16	3.59	2.81	.78	.14	.03	.02	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1999, BY WATER YEAR (WY)

MEAN	70.7	162	333	433	505	629	464	325	179	88.0	77.3	73.1
MAX	381	1149	1071	1050	1100	1475	1033	903	877	461	890	573
(WY)	1955	1986	1991	1994	1956	1994	1948	1968	1981	1996	1980	1975
MIN	1.73	2.44	7.46	26.5	63.5	112	80.9	57.4	10.2	4.62	2.45	2.38
(WY)	1952	1954	1954	1967	1954	1987	1971	1986	1966	1962	1962	1999

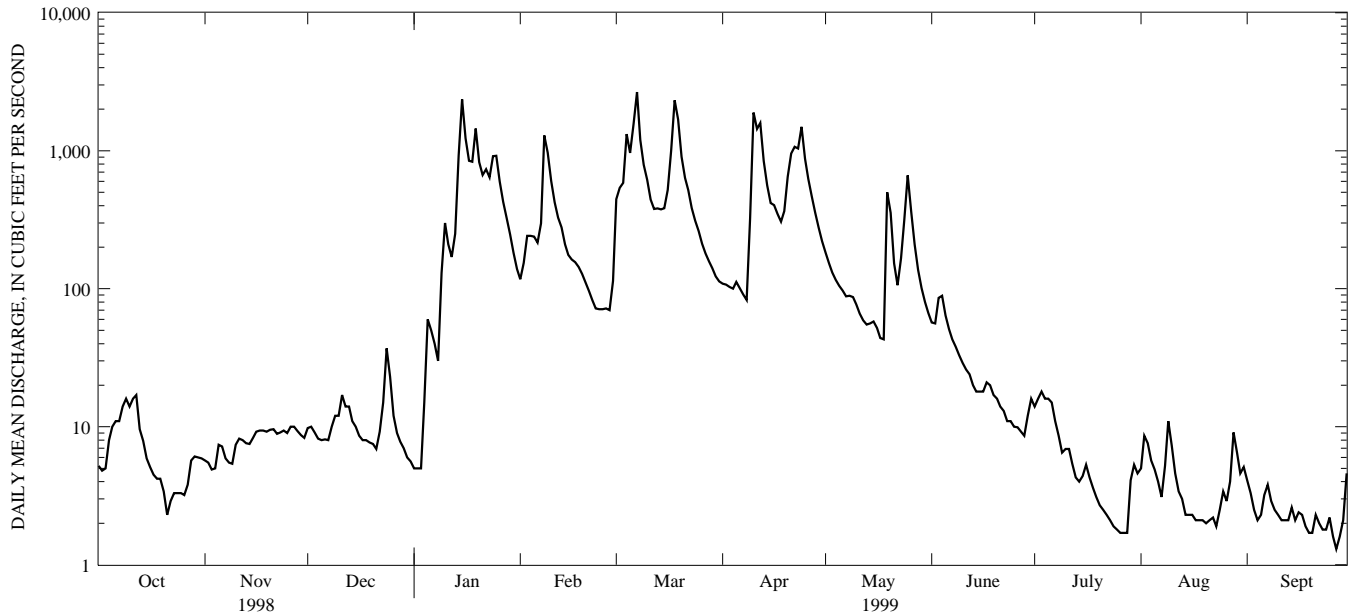
e Estimated.

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03072000 DUNKARD CREEK AT SHANNOPIN, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1941 - 1999	
ANNUAL TOTAL	92279.9		68966.2		278	
ANNUAL MEAN	253		189		462	
HIGHEST ANNUAL MEAN					1994	
LOWEST ANNUAL MEAN					104	
HIGHEST DAILY MEAN	e2700	Jan 8	2660	Mar 7	11200	Mar 5 1963
LOWEST DAILY MEAN	1.9	Sep 18,19	1.3	Sep 27	.50	Aug 27 1944
ANNUAL SEVEN-DAY MINIMUM	3.0	Sep 15	1.8	Sep 22	.73	Aug 25 1944
INSTANTANEOUS PEAK FLOW			3650	Mar 7	a17600	Aug 18 1980
INSTANTANEOUS PEAK STAGE			8.17	Mar 7	14.27	Aug 18 1980
INSTANTANEOUS LOW FLOW			b1.3	Jul 28	.40	Aug 28 1944
ANNUAL RUNOFF (CFSM)	1.10		.83		1.21	
ANNUAL RUNOFF (INCHES)	14.99		11.20		16.49	
10 PERCENT EXCEEDS	780		630		685	
50 PERCENT EXCEEDS	54		14		97	
90 PERCENT EXCEEDS	5.9		2.3		7.9	

- a From rating curve extended above 16,000 ft³/s.
- b Also Sept. 26-29.
- e Estimated.



1-YEAR HYDROGRAPH
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999