

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)
Feb. 14	1300	9,370	11.12	Feb. 19	1100	*12,100	*12.27

**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	5.0	3.7	64	45	e22	190	250	128	134	91	204	22
2	5.8	6.9	50	45	e23	189	224	193	104	69	243	21
3	4.0	26	42	47	e22	163	231	249	90	60	142	24
4	7.0	102	39	63	e23	146	1560	194	73	103	428	40
5	14	64	36	160	e25	131	1920	172	65	127	243	38
6	7.9	43	34	173	e24	117	936	192	285	82	464	27
7	5.5	31	32	131	e26	107	585	152	342	61	352	22
8	6.8	23	32	112	e28	99	493	125	183	50	192	19
9	9.7	18	29	97	e32	94	690	108	124	43	122	16
10	18	14	34	93	e36	89	547	97	97	40	99	14
11	20	12	163	88	368	88	432	84	82	836	88	15
12	31	10	167	83	1070	158	618	76	76	408	68	24
13	33	10	120	76	623	215	585	86	68	166	58	26
14	24	9.3	1030	74	5820	177	470	140	58	101	50	23
15	16	7.9	1850	64	2290	156	388	95	58	95	43	22
16	12	7.4	605	59	957	153	328	72	67	110	37	21
17	15	6.7	325	59	592	1030	717	62	66	87	33	18
18	18	6.0	206	52	1320	893	2370	57	63	71	33	17
19	14	5.6	144	53	9040	511	1210	104	83	62	48	14
20	11	5.3	115	51	1810	377	728	262	87	135	53	14
21	8.5	5.4	109	44	904	999	596	155	66	177	40	16
22	7.1	5.3	96	e40	578	1260	546	109	83	100	33	15
23	7.4	5.3	83	e38	421	721	461	95	90	72	29	14
24	6.5	5.2	73	e33	336	511	384	764	64	57	34	19
25	7.5	6.6	e52	e29	275	399	325	732	50	48	47	28
26	6.4	755	e54	e26	230	325	269	336	47	42	46	156
27	6.7	1030	e50	e23	204	268	227	198	268	37	38	206
28	6.1	315	e48	e20	224	262	202	171	863	33	33	98
29	4.9	139	e45	e18	203	323	177	340	272	30	29	63
30	4.1	87	e45	e16	---	380	149	274	141	30	26	48
31	3.7	---	e44	e18	---	304	---	186	---	139	24	---
TOTAL	346.6	2765.6	5816	1930	27526	10835	18618	6008	4149	3562	3379	1100
MEAN	11.2	92.2	188	62.3	949	350	621	194	138	115	109	36.7
MAX	33	1030	1850	173	9040	1260	2370	764	863	836	464	206
MIN	3.7	3.7	29	16	22	88	149	57	47	30	24	14
CFSM	.05	.40	.82	.27	4.14	1.53	2.71	.85	.60	.50	.48	.16
IN.	.06	.45	.94	.31	4.47	1.76	3.02	.98	.67	.58	.55	.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2000, BY WATER YEAR (WY)

MEAN	69.7	161	331	427	512	625	467	323	178	88.4	77.8	72.5
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.

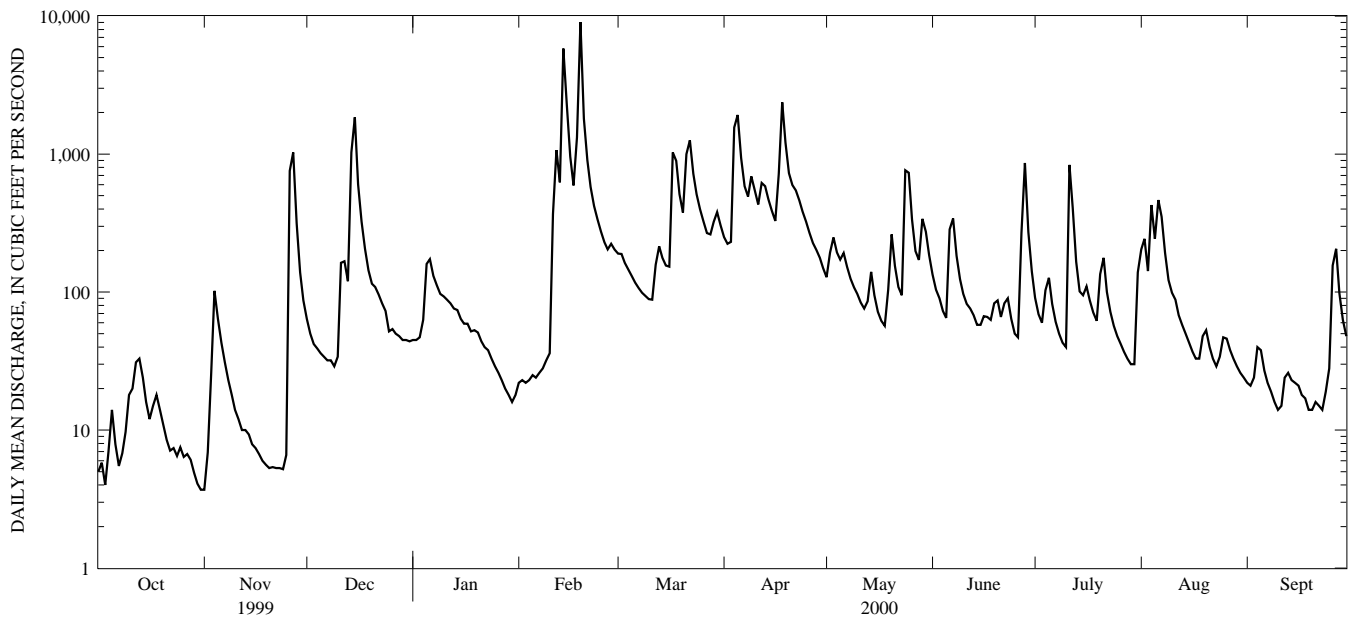
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03072000 DUNKARD CREEK AT SHANNOPIN, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1941 - 2000	
ANNUAL TOTAL	77093.8		86035.2			
ANNUAL MEAN	211		235		277	
HIGHEST ANNUAL MEAN					462	1994
LOWEST ANNUAL MEAN					104	1954
HIGHEST DAILY MEAN	2660	Mar 7	9040	Feb 19	11200	Mar 5 1963
LOWEST DAILY MEAN	1.3	Sep 27	3.7	Oct 31 ^a	.50	Aug 27 1944
ANNUAL SEVEN-DAY MINIMUM	1.8	Sep 22	5.1	Oct 26	.73	Aug 25 1944
INSTANTANEOUS PEAK FLOW			12100	Feb 19	^b 17600	Aug 18 1980
INSTANTANEOUS PEAK STAGE			12.27	Feb 19	14.27	Aug 18 1980
INSTANTANEOUS LOW FLOW			2.7	Oct 31	.40	Aug 28 1944
ANNUAL RUNOFF (CFSM)	.92		1.03		1.21	
ANNUAL RUNOFF (INCHES)	12.52		13.98		16.44	
10 PERCENT EXCEEDS	666		580		682	
50 PERCENT EXCEEDS	43		75		96	
90 PERCENT EXCEEDS	2.3		12		7.9	

^a Also Nov. 1.

^b From rating curve extended above 16,000 ft³/s.



1-YEAR HYDROGRAPH
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000