

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)
Apr. 12	0300	*3,130	*7.75	(No peaks above base discharge.)			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	27	56	e36	1510	148	221	106	130	49	76	48
2	34	26	73	e34	817	137	220	99	148	85	56	62
3	30	25	65	e32	552	130	195	92	185	87	45	47
4	26	25	54	e30	397	124	175	85	162	59	41	36
5	25	25	46	e29	324	264	158	82	130	58	70	29
6	23	24	43	e31	272	496	219	77	123	81	79	24
7	22	23	40	e34	230	434	915	68	470	66	50	20
8	21	23	39	e33	196	350	667	62	557	750	38	17
9	18	23	36	e30	180	333	503	61	319	838	30	14
10	17	31	33	e29	192	320	826	61	200	359	28	13
11	18	36	31	e28	191	286	1660	55	139	407	37	13
12	15	46	37	e27	151	248	2190	50	106	284	99	12
13	13	44	34	e27	139	316	1020	50	88	141	260	12
14	12	42	132	e26	138	625	624	51	81	99	158	12
15	12	38	376	e25	354	544	478	45	68	78	82	12
16	13	35	217	e30	812	504	494	45	97	65	57	11
17	16	34	354	e42	1300	1140	425	48	488	55	44	11
18	64	31	461	e58	896	957	357	60	195	58	37	11
19	122	29	266	e77	574	653	299	546	107	77	34	9.9
20	75	28	167	e98	434	501	257	263	79	69	29	11
21	53	26	122	e140	340	673	287	140	100	50	28	13
22	41	25	118	e190	265	1220	375	494	109	42	33	13
23	35	24	75	e180	225	788	347	987	274	34	32	13
24	33	23	86	e170	192	580	299	502	325	30	33	18
25	32	24	66	e160	188	496	247	382	162	44	32	42
26	32	26	56	e150	189	396	201	628	104	158	33	60
27	32	29	52	e140	166	323	175	465	78	148	39	46
28	32	32	e46	e130	156	269	157	362	65	98	44	32
29	30	35	e43	e130	---	234	132	285	56	77	60	25
30	33	41	e40	818	---	244	116	220	47	162	80	20
31	31	---	e38	2500	---	252	---	162	---	130	53	---
TOTAL	998	900	3302	5464	11380	13985	14239	6633	5192	4738	1817	706.9
MEAN	32.2	30.0	107	176	406	451	475	214	173	153	58.6	23.6
MAX	122	46	461	2500	1510	1220	2190	987	557	838	260	62
MIN	12	23	31	25	138	124	116	45	47	30	28	9.9
CFSM	.14	.13	.47	.77	1.77	1.97	2.07	.93	.76	.67	.26	.10
IN.	.16	.15	.54	.89	1.85	2.27	2.31	1.08	.84	.77	.30	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2001, BY WATER YEAR (WY)

MEAN	69.1	159	327	423	511	622	467	321	178	89.5	77.5	71.7
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.

MONONGAHELA RIVER BASIN

03072000 DUNKARD CREEK AT SHANNOPIN, PA--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1941 - 2001	
ANNUAL TOTAL	82307		69354.9			
ANNUAL MEAN	225		190		276	
HIGHEST ANNUAL MEAN					462	1994
LOWEST ANNUAL MEAN					104	1954
HIGHEST DAILY MEAN	9040	Feb 19	2500	Jan 31	11200	Mar 5 1963
LOWEST DAILY MEAN	12	Oct 14,15	9.9	Sep 19	.50	Aug 27 1944
ANNUAL SEVEN-DAY MINIMUM	14	Oct 11	11	Sep 14	.73	Aug 25 1944
MAXIMUM PEAK FLOW			3130	Apr 12	a17600	Aug 18 1980
MAXIMUM PEAK STAGE			7.75	Apr 12	14.27	Aug 18 1980
INSTANTANEOUS LOW FLOW			9.5	Sep 19,20	.40	Aug 28 1944
ANNUAL RUNOFF (CFSM)	.98		.83		1.20	
ANNUAL RUNOFF (INCHES)	13.37		11.27		16.36	
10 PERCENT EXCEEDS	498		496		678	
50 PERCENT EXCEEDS	70		76		96	
90 PERCENT EXCEEDS	23		24		8.0	

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

