

## MONONGAHELA RIVER BASIN

## 03074500 REDSTONE CREEK AT WALTERSBURG, PA

**LOCATION.**--Lat 39°58'48", long 79°45'52", Fayette County, Hydrologic Unit 05020005, on right bank, 15 ft upstream from highway bridge at Waltersburg, 400 ft upstream from Bolden Run, and 0.9 mi upstream from Allen Run.

**DRAINAGE AREA.**--73.7 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1942 to current year. Monthly discharge only for October 1942, published in WSP 1305.

**REVISED RECORDS.**--WSP 1435: 1943-45 (M), 1946, 1947 (M), 1948 (P), 1949-50 (M), 1951 (P), 1952 (M).

**GAGE.**--Water-stage recorder. Datum of gage is 882.28 ft above sea level. Prior to Nov. 15, 1973, nonrecording gage 15 ft downstream and Nov. 15, 1973 to Sept. 30, 1997, at present site at datum 1.00 ft. higher.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Some regulation at low flow by mine pumpage into stream 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 1,000 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)
Feb. 14	0600	2,500	8.10	Aug. 6	1630	1,340	5.79
Feb. 19	0300	*2,670	*8.44				

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	24	19	56	e40	e24	124	105	77	62	45	55	22
2	20	126	51	e40	e24	112	109	152	56	39	44	21
3	18	137	49	e40	e25	101	117	95	52	90	57	62
4	44	54	48	e50	e25	94	656	85	46	75	52	33
5	31	40	45	55	e24	87	442	78	48	49	37	36
6	23	34	52	45	e24	79	291	73	285	42	486	e26
7	21	31	46	43	e24	73	224	67	193	36	211	e25
8	20	29	42	40	e24	70	295	63	119	33	114	23
9	19	27	40	41	e23	70	267	59	87	30	78	23
10	85	26	90	42	e23	68	213	56	69	49	63	26
11	43	25	76	40	e100	96	187	52	58	71	55	39
12	29	24	62	37	179	137	307	49	88	37	51	37
13	25	24	90	37	241	99	221	55	63	32	44	29
14	44	23	421	34	1650	91	191	50	55	39	40	24
15	27	23	242	31	475	85	165	43	69	77	36	26
16	24	23	151	34	271	116	145	40	53	55	33	26
17	22	23	114	30	186	313	212	40	51	47	30	24
18	21	23	94	30	603	192	231	40	62	37	36	23
19	21	22	80	32	1420	159	181	e100	50	40	34	22
20	21	31	71	34	444	144	153	190	42	41	28	22
21	21	27	66	29	272	423	168	81	46	33	26	28
22	21	24	60	e25	202	305	196	70	59	43	26	23
23	20	23	56	e26	166	223	175	106	39	30	28	22
24	22	23	53	e25	137	184	159	102	35	28	28	34
25	21	43	48	e24	120	159	143	74	34	27	26	49
26	20	369	e45	e23	106	137	127	59	42	25	24	84
27	19	187	e45	e22	113	131	113	60	167	24	32	41
28	19	102	e44	e22	162	128	102	120	113	24	31	32
29	20	75	e43	e22	120	154	93	136	64	23	25	29
30	19	64	e42	e23	---	122	82	91	52	24	24	27
31	19	---	e41	e23	---	112	---	73	---	41	22	---
TOTAL	803	1701	2463	1039	7207	4388	6070	2436	2259	1286	1876	938
MEAN	25.9	56.7	79.5	33.5	249	142	202	78.6	75.3	41.5	60.5	31.3
MAX	85	369	421	55	1650	423	656	190	285	90	486	84
MIN	18	19	40	22	23	68	82	40	34	23	22	21
CFSM	.35	.77	1.08	.45	3.37	1.92	2.75	1.07	1.02	.56	.82	.42
IN.	.41	.86	1.24	.52	3.64	2.21	3.06	1.23	1.14	.65	.95	.47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2000, BY WATER YEAR (WY)

MEAN	49.3	69.5	113	133	159	193	163	125	79.9	55.5	49.6	47.9
MAX	225	459	308	284	376	470	310	274	413	187	172	161
(WY)	1980	1986	1973	1994	1986	1994	1948	1996	1972	1990	1980	1987
MIN	11.2	19.0	14.2	23.1	33.0	45.5	49.2	27.3	15.4	9.59	12.4	8.92
(WY)	1964	1967	1961	1967	1954	1969	1971	1963	1962	1962	1962	1991

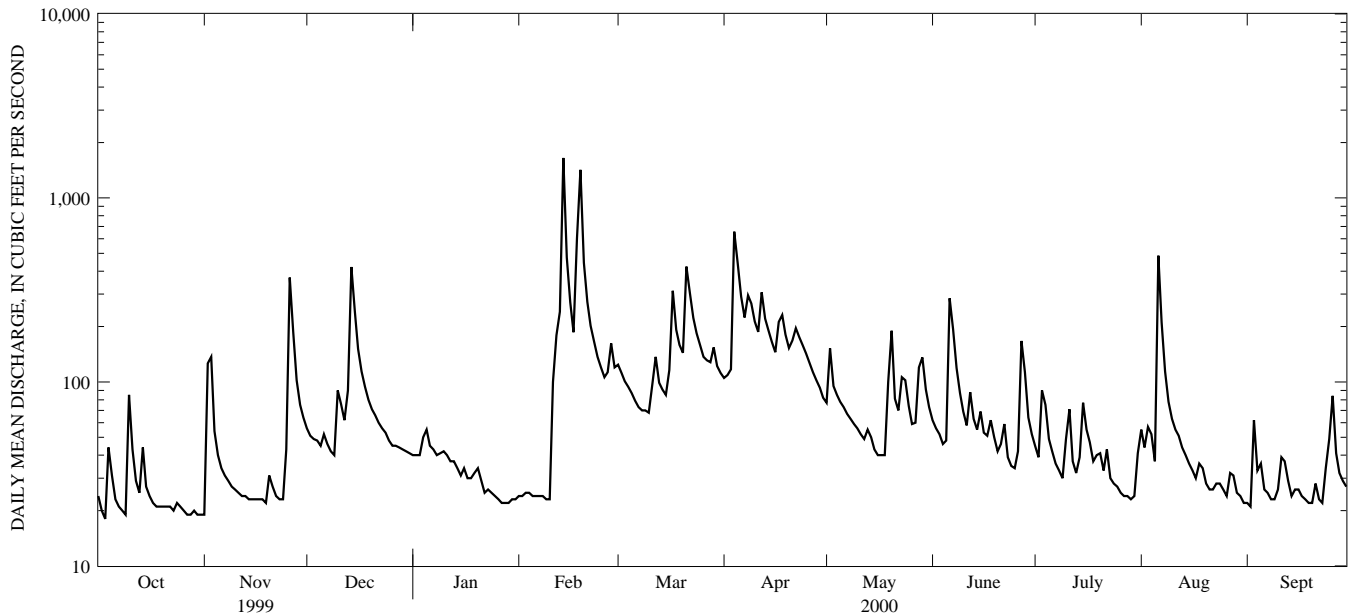
e Estimated.

MONONGAHELA RIVER BASIN

03074500 REDSTONE CREEK AT WALTERSBURG, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1943 - 2000	
ANNUAL TOTAL	30990		32466		103	
ANNUAL MEAN	84.9		88.7		166	
HIGHEST ANNUAL MEAN					1994	
LOWEST ANNUAL MEAN					44.2 1954	
HIGHEST DAILY MEAN	888	Apr 10	1650	Feb 14	6620	Jun 23 1972
LOWEST DAILY MEAN	14	Sep 2-4	18	Oct 3	4.8	Sep 22 1991
ANNUAL SEVEN-DAY MINIMUM	15	Aug 29	19	Oct 26	5.3	Sep 28 1991
INSTANTANEOUS PEAK FLOW			2670	Feb 19	<b>a</b> 8660	Jun 23 1972
INSTANTANEOUS PEAK STAGE			8.44	Feb 19	<b>b</b> 14.83	Jun 23 1972
INSTANTANEOUS LOW FLOW			16	Oct 3	<b>c</b> 4.2	Aug 2 1962
ANNUAL RUNOFF (CFSM)	1.15		1.20		1.40	
ANNUAL RUNOFF (INCHES)	15.64		16.39		18.96	
10 PERCENT EXCEEDS	207		187		210	
50 PERCENT EXCEEDS	44		46		62	
90 PERCENT EXCEEDS	18		23		21	

- a** From rating curve extended above 8,200 ft<sup>3</sup>/s.
- b** From peak-stage indicator.
- c** Minimum observed.



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