

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 mi².

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 National Geodetic Vertical Datum of 1929. 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.--No estimated daily discharges. Records fair. 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 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Feb. 23	0600	*2,250	*7.60	June 3	2030	1,960	7.02
May 9	1430	1,420	5.94	June 7	1030	1,570	6.24
May 10	1300	1,310	5.73				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	29	50	375	51	143	88	62	256	35	167	118
2	16	27	45	348	55	194	100	48	163	34	72	321
3	18	25	42	346	58	187	95	45	594	33	68	169
4	21	26	35	273	440	180	93	123	695	36	71	129
5	17	26	39	198	231	270	131	108	380	55	59	104
6	16	45	40	167	147	414	103	95	236	37	59	88
7	16	44	35	137	126	284	180	90	669	36	69	75
8	16	39	36	134	100	243	210	272	340	223	87	66
9	16	33	34	158	87	263	166	607	241	185	246	60
10	16	32	33	152	83	213	140	740	178	117	207	54
11	29	76	49	125	76	172	140	459	144	150	107	51
12	27	47	75	104	68	149	128	274	122	111	118	47
13	20	43	140	94	59	154	109	240	116	97	104	46
14	19	36	379	85	58	182	99	175	112	75	71	44
15	18	33	236	76	59	159	91	146	101	67	61	58
16	60	36	163	65	48	155	84	138	84	76	55	59
17	45	169	114	69	48	158	79	112	97	56	51	45
18	30	123	94	60	58	145	72	109	111	67	47	43
19	26	93	83	59	58	125	67	91	85	69	42	288
20	25	84	189	58	71	111	63	87	80	49	39	141
21	22	68	168	54	85	105	69	123	80	44	37	103
22	21	63	123	50	495	96	63	94	74	52	35	94
23	20	64	98	47	1420	87	59	108	63	68	40	150
24	19	53	81	45	446	79	55	137	59	70	32	100
25	18	49	156	44	257	74	53	107	53	61	30	103
26	23	47	121	44	194	81	54	99	50	45	30	94
27	20	56	93	42	161	74	50	87	46	40	183	87
28	18	49	80	41	145	66	47	87	43	38	109	108
29	33	46	74	49	---	74	53	75	38	36	60	88
30	47	52	68	48	---	88	48	68	36	34	111	76
31	33	---	80	45	---	82	---	119	---	73	85	---
TOTAL	742	1613	3053	3592	5184	4807	2789	5125	5346	2169	2552	3009
MEAN	23.9	53.8	98.5	116	185	155	93.0	165	178	70.0	82.3	100
MAX	60	169	379	375	1420	414	210	740	695	223	246	321
MIN	16	25	33	41	48	66	47	45	36	33	30	43
CFSM	0.32	0.73	1.34	1.57	2.51	2.10	1.26	2.24	2.42	0.95	1.12	1.36
IN.	0.37	0.81	1.54	1.81	2.62	2.43	1.41	2.59	2.70	1.09	1.29	1.52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2003, BY WATER YEAR (WY)

MEAN	48.2	68.0	111	130	158	191	160	126	81.7	55.3	49.3	48.0
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

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03074500 REDSTONE CREEK AT WALTERSBURG, PA--Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1943 - 2003	
ANNUAL TOTAL	31810		39981			
ANNUAL MEAN	87.2		110		102	
HIGHEST ANNUAL MEAN					166	1994
LOWEST ANNUAL MEAN					44.2	1954
HIGHEST DAILY MEAN	1160	May 18	1420	Feb 23	6620	Jun 23 1972
LOWEST DAILY MEAN	14	Sep 1-8	16	Oct 2,6-10	4.8	Sep 22 1991
ANNUAL SEVEN-DAY MINIMUM	14	Sep 1	17	Oct 4	5.3	Sep 28 1991
MAXIMUM PEAK FLOW			2250	Feb 23	a 8660	Jun 23 1972
MAXIMUM PEAK STAGE			7.60	Feb 23	b 14.83	Jun 23 1972
INSTANTANEOUS LOW FLOW			14	Oct 1-3,6-10	4.2	Aug 2 1962
ANNUAL RUNOFF (CFSM)	1.18		1.49		1.38	
ANNUAL RUNOFF (INCHES)	16.06		20.18		18.81	
10 PERCENT EXCEEDS	181		211		209	
50 PERCENT EXCEEDS	54		75		61	
90 PERCENT EXCEEDS	17		33		21	

a From rating curve extended above 8,200 ft³/s.
b From peak-stage indicator.

