

MONONGAHELA RIVER BASIN

03078000 CASSELMAN RIVER AT GRANTSVILLE, MD

LOCATION.--Lat 39°42'07.9", long 79°08'11.0", Garrett County, Hydrologic Unit 05020006, on left bank at downstream side of highway bridge, 0.3 mi upstream from Slaubaugh Run, 0.7 mi downstream from U.S. Highway 40, and 1.0 mi northeast of Grantsville.

DRAINAGE AREA.--62.5 mi².

PERIOD OF RECORD.--July 1947 to current year.

REVISED RECORDS.--WSP 1143: 1948.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 2,088.97 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges (ice effect), which are fair. U.S. Army Corps of Engineers satellite data collection platform at station. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than 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)
Jan 1	1945	1,510	4.09	May 10	1500	1,310	3.79
Mar 13	2300	1,150	3.54	May 31	2300	1,120	3.46
Mar 16	2300	1,150	3.54	Jun 3	2145	1,240	3.65
Mar 17	2245	1,150	3.54	Jun 7	1430	1,170	3.53
Mar 20	1930	1,060	3.40	Aug 28	0015	1,340	3.81
May 9	1645	1,060	3.40	Sep 19	0745	*3,670	*6.64

Minimum discharge, 6.4 ft³/s, Oct. 8-10.

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	11	145	e87	886	e51	e180	200	62	904	43	22	70
2	9.0	137	e80	867	e51	e180	301	51	400	39	21	200
3	8.2	92	73	450	e80	e180	189	45	637	37	28	136
4	7.9	76	e72	313	e300	e200	152	58	753	32	50	117
5	7.8	91	e74	239	e250	e300	388	130	412	33	27	111
6	7.4	394	e76	201	e210	e880	276	146	285	117	20	78
7	7.0	239	e71	173	e170	e780	452	99	747	119	20	60
8	6.6	150	e67	163	e140	e600	395	311	531	190	22	50
9	6.5	113	e64	175	e120	e840	475	694	338	185	24	45
10	7.9	98	e61	181	e100	e640	406	990	246	173	23	42
11	56	116	e60	140	e86	e420	456	619	191	277	38	36
12	78	214	e62	123	e74	e400	393	416	168	143	79	30
13	35	246	90	110	e64	e660	280	748	314	160	34	33
14	22	145	168	112	e55	860	221	389	239	95	23	40
15	18	112	103	106	e50	693	181	300	245	87	18	38
16	170	100	e86	e98	e48	864	154	281	184	70	16	52
17	120	261	e82	e90	e50	989	138	232	257	58	23	32
18	62	218	e79	e82	e53	981	120	224	338	49	17	88
19	42	187	78	e76	e56	854	111	191	212	48	15	2,110
20	41	222	561	e70	e59	803	102	152	298	40	13	623
21	37	159	367	e66	e120	722	107	154	294	33	12	317
22	28	137	237	e63	e280	570	105	134	224	30	11	256
23	24	119	225	e59	e660	408	90	120	162	30	10	468
24	20	108	163	e56	e450	314	76	163	127	31	9.8	243
25	21	117	147	e52	e300	258	70	125	103	26	9.1	198
26	78	108	127	e50	e200	225	71	138	89	21	8.8	183
27	61	99	e115	e49	e190	189	66	114	77	19	245	321
28	43	86	e100	e48	e180	153	56	149	68	19	505	524
29	152	81	95	e50	---	141	53	134	57	37	90	264
30	279	89	84	e54	---	142	52	107	49	23	94	189
31	147	---	163	e52	---	134	---	382	---	18	75	---
TOTAL	1,613.3	4,459	3,917	5,254	4,447	15,560	6,136	7,858	8,949	2,282	1,602.7	6,954
MEAN	52.0	149	126	169	159	502	205	253	298	73.6	51.7	232
MAX	279	394	561	886	660	989	475	990	904	277	505	2,110
MIN	6.5	76	60	48	48	134	52	45	49	18	8.8	30
CFSM	0.83	2.38	2.02	2.71	2.54	8.03	3.27	4.06	4.77	1.18	0.83	3.71
IN.	0.96	2.65	2.33	3.13	2.65	9.26	3.65	4.68	5.33	1.36	0.95	4.14

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2003, BY WATER YEAR (WY)

	44.8	87.1	144	161	196	265	211	139	78.9	49.1	38.4	36.9
MEAN	44.8	87.1	144	161	196	265	211	139	78.9	49.1	38.4	36.9
MAX	288	449	341	376	414	582	468	312	298	175	202	290
(WY)	(1955)	(1986)	(1973)	(1996)	(1956)	(1963)	(1970)	(1996)	(2003)	(1996)	(1956)	(1996)
MIN	1.65	3.38	13.8	26.4	60.3	57.0	77.1	40.1	10.0	4.30	2.87	1.58
(WY)	(1954)	(1954)	(1999)	(1977)	(1964)	(1990)	(1968)	(1976)	(1965)	(1965)	(1991)	(1991)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1947 - 2003	
ANNUAL TOTAL	40,897.9		69,032.0			
ANNUAL MEAN	112		189		121	
HIGHEST ANNUAL MEAN					203 1996	
LOWEST ANNUAL MEAN					64.2 1954	
HIGHEST DAILY MEAN	992	Mar 20	2,110	Sep 19	(e)3,600	Jan 19, 1996
LOWEST DAILY MEAN	3.5	Sep 13	6.5	Oct 9	(a)0.00	Aug 31, 1962
ANNUAL SEVEN-DAY MINIMUM	3.8	Sep 9	7.3	Oct 4	0.89	Aug 27, 1962
MAXIMUM PEAK FLOW			3,670	Sep 19	(b)8,400	Oct 15, 1954
MAXIMUM PEAK STAGE			6.64	Sep 19	10.70	Oct 15, 1954
INSTANTANEOUS LOW FLOW			6.4	(c)	(a)0.00	(d)
ANNUAL RUNOFF (CFSM)	1.79		3.03		1.93	
ANNUAL RUNOFF (INCHES)	24.34		41.09		26.21	
10 PERCENT EXCEEDS	250		451		281	
50 PERCENT EXCEEDS	80		112		67	
90 PERCENT EXCEEDS	7.1		23		8.2	

a Result of regulation from unknown source.

b From rating curve extended above 1,600 ft³/s on basis of contracted-opening measurement at gage height of 8.13 ft.

c Oct. 8-10.

d Aug. 31, Sept. 1, 1962.

e Estimated.

