

MONONGAHELA RIVER BASIN

03078000 CASSELMAN RIVER AT GRANTSVILLE, MD

LOCATION.--Lat 39°42'08", long 79°08'12", 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 sea level.

REMARKS.--Records good except those for estimated daily discharges (ice effect, missing record), which are poor. 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)
Feb. 10	0845	1,060	3.35	Mar. 13	2030	1,080	3.39
Feb. 15	1130	1,010	3.27	June 7	0900	*2,030	*4.76

Minimum discharge, 6.0 ft³/s, Sept. 18-20, 24.

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	30	13	91	e38	282	116	194	59	87	38	24	33
2	25	13	80	e37	196	105	191	57	224	77	18	23
3	21	13	74	e35	166	99	163	53	129	38	16	16
4	19	13	e70	e37	169	100	144	48	100	39	18	16
5	18	12	e64	e38	121	103	128	57	82	171	24	27
6	18	12	e60	e38	112	89	211	48	314	202	16	17
7	16	12	e56	e38	104	88	296	40	1340	75	12	13
8	15	12	e52	e38	116	93	226	37	520	169	10	11
9	15	18	e49	e37	263	87	194	38	287	110	9.8	10
10	18	82	e47	e36	800	80	304	34	197	138	9.1	9.2
11	16	82	e45	e36	385	79	432	31	148	154	10	9.2
12	14	53	e43	e35	250	112	378	30	120	72	316	8.8
13	12	41	e43	e35	216	691	260	31	160	52	190	7.9
14	12	38	e45	e37	302	645	204	26	219	42	69	8.0
15	11	35	e60	e39	902	367	197	23	114	36	41	8.2
16	11	32	e120	e41	613	342	312	23	107	30	30	7.4
17	14	32	439	e42	553	425	283	24	98	25	31	6.7
18	80	28	251	e42	330	327	243	39	71	31	27	6.4
19	49	26	e220	e65	257	259	232	174	57	35	27	6.2
20	31	e25	e180	e90	218	215	200	65	49	25	21	7.8
21	24	e24	e140	e70	207	362	169	56	49	19	18	8.9
22	20	e24	e110	e60	151	422	150	128	47	16	16	7.4
23	18	e23	e85	e55	e148	300	132	213	275	14	28	6.4
24	17	e23	e70	e50	135	266	119	113	126	12	26	8.9
25	17	e23	e60	e48	151	227	105	306	71	19	19	29
26	17	138	e55	e45	205	188	93	359	53	69	15	20
27	16	204	e50	e43	140	156	85	191	73	45	21	11
28	17	138	e47	e41	127	143	78	152	51	22	24	9.4
29	16	100	e45	e39	---	135	69	117	36	46	37	8.0
30	14	110	e42	585	---	306	64	96	31	69	25	7.4
31	14	---	e40	565	---	242	---	80	---	37	18	---
TOTAL	635	1399	2833	2435	7619	7169	5856	2748	5235	1927	1165.9	368.2
MEAN	20.5	46.6	91.4	78.5	272	231	195	88.6	174	62.2	37.6	12.3
MAX	80	204	439	585	902	691	432	359	1340	202	316	33
MIN	11	12	40	35	104	79	64	23	31	12	9.1	6.2
CFSM	.33	.75	1.46	1.26	4.35	3.70	3.12	1.42	2.79	.99	.60	.20
IN.	.38	.83	1.69	1.45	4.53	4.27	3.49	1.64	3.12	1.15	.69	.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2001, BY WATER YEAR (WY)

MEAN	45.3	87.2	146	161	199	262	211	135	75.1	49.1	38.6	33.8
MAX	288	449	341	376	414	582	468	312	200	175	202	290
(WY)	1955	1986	1973	1996	1956	1963	1970	1996	1951	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

e Estimated.

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1947 - 2001	
ANNUAL TOTAL	34734.1		39390.1			
ANNUAL MEAN	94.9		108		120	
HIGHEST ANNUAL MEAN					203	
LOWEST ANNUAL MEAN					64.2	
HIGHEST DAILY MEAN	2250	Feb 19	1340	Jun 7	e3600	Jan 19 1996
LOWEST DAILY MEAN	8.7	Jul 9	6.2	Sep 19	a.00	Aug 31 1962
ANNUAL SEVEN-DAY MINIMUM	11	Sep 18	7.1	Sep 17	.89	Aug 27 1962
MAXIMUM PEAK FLOW			2030		b8400	
MAXIMUM PEAK STAGE			4.76		10.70	
INSTANTANEOUS LOW FLOW			6.0		a.00	
ANNUAL RUNOFF (CFSM)	1.52		1.73		1.92	
ANNUAL RUNOFF (INCHES)	20.67		23.44		26.05	
10 PERCENT EXCEEDS	205		264		280	
50 PERCENT EXCEEDS	52		50		66	
90 PERCENT EXCEEDS	14		13		8.3	

- 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 Sept. 18-20, 24.
- d Aug. 31, Sept. 1, 1962.
- e Estimated.

