

KISKIMINETAS RIVER BASIN

03040000 STONYCREEK RIVER AT FERNDALE, PA

LOCATION.--Lat 40°17'08", long 78°55'15", Cambria County, Hydrologic unit 05010007, on right bank 50 ft upstream from highway bridge at Ferndale, 0.4 mi downstream from Bens Creek, 1.2 mi upstream from Johnstown city limits, and 5.2 mi upstream from confluence with Little Conemaugh River.

DRAINAGE AREA.--451 mi².

PERIOD OF RECORD.--October 1913 to March 1936, October 1938 to current year. Monthly discharge only for some periods, published in WSP 1305. Monthly figures adjusted for storage and diversion for October 1918 to September 1921, published in WSP 503, 523, have been found in error and should not be used. Published as "at Johnstown" 1914-36, and as "Stony Creek at Ferndale" 1938-79. Gage-height records collected in this vicinity since 1885 are contained in reports of U.S. Weather Bureau.

REVISED RECORDS.--WSP 743: Drainage area. WSP 1305: 1915, 1918, 1923-26. WSP 1435: 1920-21, 1932, 1941 (M), 1943 (M), 1945-46 (M). WDR PA-78-3: 1977 (M). See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 1,184.06 ft above sea level. Prior to Mar. 19, 1936, nonrecording gage at site 3.5 mi downstream at different datum. Dec. 8, 1938 to Jan. 30, 1940, nonrecording gage at site 50 ft downstream at present datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Regulation by mine pumpage and reservoirs and diversion above station; the four largest reservoirs have a combined capacity of 42,360 acre-ft. Figures of daily discharge do not include diversion from Stonycreek River and Quemahoning Creek Reservoir to plants of Bethlehem Steel Co., and from Mill Creek, Dalton Run, and North Fork Bens Creek Reservoirs for water supply of city of Johnstown. Several measurements of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	79	76	e60	876	e300	1280	682	176	131	105	49
2	112	73	66	e55	1040	e380	1250	611	197	137	115	46
3	106	69	65	e62	1110	e470	1110	555	245	134	77	46
4	133	66	69	e72	1020	1240	1080	517	209	112	64	45
5	119	74	72	e88	990	941	1860	481	188	98	59	46
6	92	73	70	e78	905	862	1500	454	176	89	56	76
7	85	72	67	e80	906	896	1270	434	161	85	53	240
8	258	70	76	e84	1420	768	1070	469	151	80	68	125
9	247	68	89	e90	1310	748	3280	449	149	77	87	82
10	199	91	85	e105	1110	688	6120	383	134	93	72	72
11	163	103	79	e150	947	606	3840	348	118	92	62	65
12	126	89	75	e250	861	562	4770	315	116	83	58	60
13	111	79	72	e260	780	513	3260	294	117	84	59	58
14	101	74	66	e250	681	510	2260	305	116	77	87	61
15	97	77	64	e500	619	541	1720	289	116	77	67	58
16	93	75	61	e430	e600	517	1780	259	115	75	67	77
17	90	71	70	e400	e540	714	1510	234	141	108	61	109
18	85	71	73	e480	e470	2530	1360	225	175	122	55	88
19	87	69	75	e490	e430	3110	1240	236	144	78	54	70
20	77	76	74	e430	e400	2050	2270	236	122	72	57	69
21	74	74	85	e370	e340	2500	2130	218	111	69	60	107
22	81	69	146	e360	e310	3600	2730	218	108	93	55	171
23	78	68	e100	e800	e280	2300	2540	396	103	74	54	170
24	77	69	e80	e3900	e270	1840	2790	426	101	124	50	167
25	76	70	e66	e3300	e250	1790	1990	503	99	88	55	165
26	73	74	e62	2030	e260	1500	1550	385	97	71	106	164
27	72	72	e62	1430	e240	1400	1270	292	99	63	95	162
28	76	67	e63	1710	e240	1420	1070	242	107	67	72	164
29	74	69	e62	1810	---	1470	907	217	142	180	60	169
30	77	67	e62	1340	---	1470	777	201	147	120	57	461
31	77	---	e66	1040	---	1330	---	182	---	90	52	---
TOTAL	3339	2218	2298	22504	19205	39566	61584	11056	4180	2943	2099	3442
MEAN	108	73.9	74.1	726	686	1276	2053	357	139	94.9	67.7	115
MAX	258	103	146	3900	1420	3600	6120	682	245	180	115	461
MIN	72	66	61	55	240	300	777	182	97	63	50	45
CFSM	.24	.16	.16	1.61	1.52	2.83	4.55	.79	.31	.21	.15	.25
IN.	.28	.18	.19	1.86	1.58	3.26	5.08	.91	.34	.24	.17	.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1999, BY WATER YEAR (WY)

MEAN	243	421	681	774	1037	1616	1357	830	499	263	178	188
MAX	1514	2099	2162	1929	2575	3581	3426	1792	1773	874	1098	1449
(WY)	1977	1986	1973	1952	1986	1994	1993	1978	1972	1977	1979	1996
MIN	13.6	20.4	48.4	137	262	367	336	186	77.4	28.4	26.3	18.9
(WY)	1964	1954	1954	1977	1963	1990	1946	1941	1965	1965	1957	1943

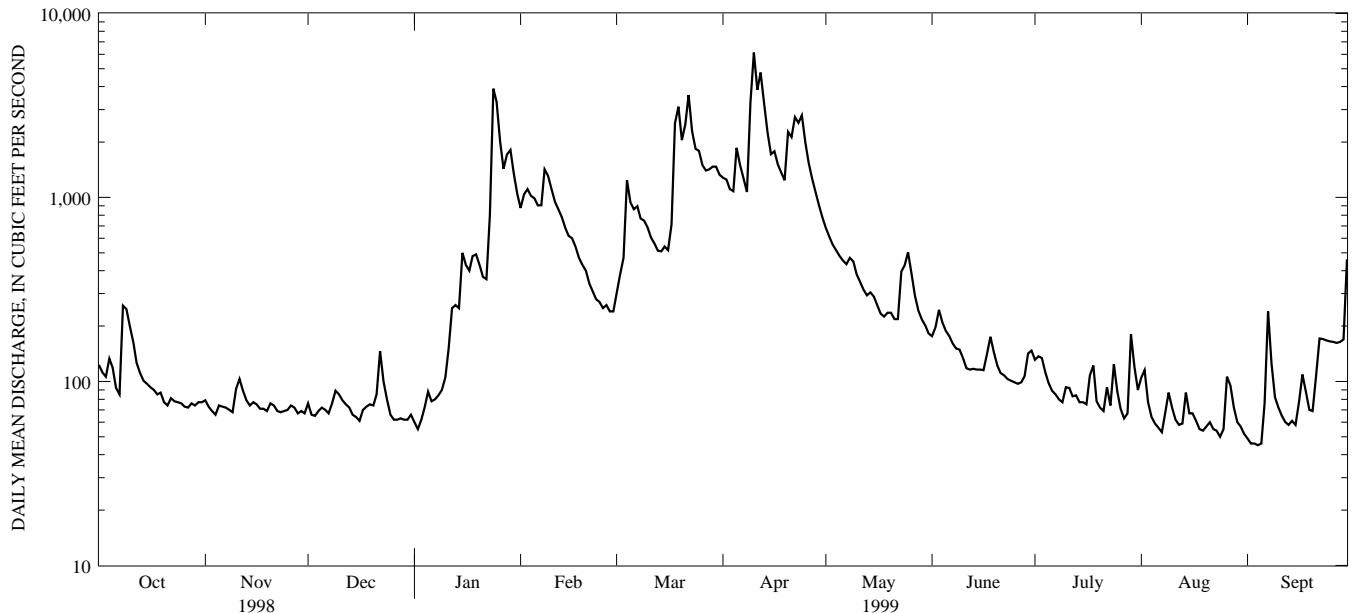
e Estimated.

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03040000 STONYCREEK RIVER AT FERNDALE, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1939 - 1999	
ANNUAL TOTAL	258364		174434			
ANNUAL MEAN	708		478		674	
HIGHEST ANNUAL MEAN					1044	1996
LOWEST ANNUAL MEAN					280	1954
HIGHEST DAILY MEAN	4750	Apr 10	6120	Apr 10	15900	Jun 23 1972
LOWEST DAILY MEAN	61	Dec 16	45	Sep 4	11	Sep 26 1959
ANNUAL SEVEN-DAY MINIMUM	a63	Dec 25	49	Aug 30	12	Oct 5 1963
INSTANTANEOUS PEAK FLOW			7650	Apr 9	b59000	Mar 18 1936
INSTANTANEOUS PEAK STAGE			8.71	Apr 9	c30.26	Mar 18 1936
INSTANTANEOUS LOW FLOW			41	Sep 2,3	d5.0	Sep 8 1929
ANNUAL RUNOFF (CFSM)	1.57		1.06		1.49	
ANNUAL RUNOFF (INCHES)	21.31		14.39		20.31	
10 PERCENT EXCEEDS	1810		1420		1610	
50 PERCENT EXCEEDS	299		120		330	
90 PERCENT EXCEEDS	73		63		58	

- a Computed using estimated daily discharges.
- b From rating curve extended above 13,000 ft³/s on the basis of slope-area and contracted-opening measurement of peak flow.
- c From highwater mark, site and datum then in use.
- d Minimum observed.



1-YEAR HYDROGRAPH
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999