

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 National Geodetic Vertical Datum of 1929. 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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	56	189	e136	569	345	1460	1590	930	215	76	66
2	60	59	147	e129	483	355	1240	1560	655	190	73	65
3	56	81	121	e117	426	713	1050	1540	524	176	72	66
4	61	92	113	e117	400	746	945	1200	475	160	69	62
5	58	80	101	e110	351	546	852	990	451	151	104	60
6	61	66	100	e117	355	533	792	872	996	134	171	58
7	60	62	99	e129	338	473	733	854	1600	129	152	57
8	57	61	117	e156	346	432	682	1160	997	125	102	55
9	59	60	167	180	329	407	663	4750	748	131	85	51
10	59	59	155	223	360	407	690	3590	612	148	75	52
11	59	59	131	629	1330	312	612	2180	499	137	71	51
12	62	55	113	804	1110	311	540	1750	445	117	65	53
13	64	59	116	569	840	313	546	2140	477	107	67	53
14	78	53	133	410	646	311	712	2640	749	110	65	53
15	144	56	181	369	562	298	1500	2190	832	115	69	55
16	116	56	160	321	517	338	1270	1720	713	112	71	58
17	97	56	183	297	497	399	964	1440	550	101	72	57
18	86	58	578	273	440	911	813	4950	457	100	66	58
19	79	57	470	232	405	1200	730	3440	393	106	69	94
20	75	64	360	236	419	3100	690	2340	338	95	89	117
21	70	65	303	234	561	3910	710	1820	304	93	81	82
22	70	61	266	217	597	2230	1220	1510	277	86	73	87
23	64	59	252	213	502	1540	1140	1300	257	89	83	132
24	74	59	264	752	442	1250	905	1130	237	98	113	109
25	74	244	237	1420	407	1050	817	1020	218	92	160	81
26	63	285	190	967	406	2450	724	912	209	100	102	94
27	65	167	e187	698	434	4040	636	795	232	124	80	584
28	67	171	e177	573	386	2370	2240	748	441	110	75	641
29	64	204	e163	504	---	1720	2670	831	334	94	76	297
30	61	198	e151	481	---	1420	1860	842	258	83	71	184
31	58	---	e146	586	---	1220	---	930	---	79	68	---
TOTAL	2184	2762	6070	12199	14458	35650	30406	54734	16208	3707	2665	3532
MEAN	70.5	92.1	196	394	516	1150	1014	1766	540	120	86.0	118
MAX	144	285	578	1420	1330	4040	2670	4950	1600	215	171	641
MIN	56	53	99	110	329	298	540	748	209	79	65	51
CFSM	0.16	0.20	0.43	0.87	1.14	2.55	2.25	3.91	1.20	0.27	0.19	0.26
IN.	0.18	0.23	0.50	1.01	1.19	2.94	2.51	4.51	1.34	0.31	0.22	0.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2002, BY WATER YEAR (WY)

	240	411	665	752	1033	1591	1357	835	502	258	178	186
MEAN	240	411	665	752	1033	1591	1357	835	502	258	178	186
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.

KISKIMINETAS RIVER BASIN

03040000 STONYCREEK RIVER AT FERNDALE, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1939 - 2002	
ANNUAL TOTAL	188147		184575			
ANNUAL MEAN	515		506		667	
HIGHEST ANNUAL MEAN					1044	1996
LOWEST ANNUAL MEAN					280	1954
HIGHEST DAILY MEAN	5050	Apr 16	4950	May 18	15900	Jun 23 1972
LOWEST DAILY MEAN	53	Nov 14	51	Sep 9,11	11	Sep 26 1959
ANNUAL SEVEN-DAY MINIMUM	56	Nov 12	53	Sep 8	12	Oct 5 1963
MAXIMUM PEAK FLOW			6750	May 18	ab 59000	Mar 18 1936
MAXIMUM PEAK STAGE			8.28	May 18	c 30.26	Mar 18 1936
INSTANTANEOUS LOW FLOW			49	Sep 9-11	d 5.0	Sep 8 1929
ANNUAL RUNOFF (CFSM)	1.14		1.12		1.48	
ANNUAL RUNOFF (INCHES)	15.52		15.22		20.10	
10 PERCENT EXCEEDS	1410		1260		1590	
50 PERCENT EXCEEDS	235		217		327	
90 PERCENT EXCEEDS	61		60		60	

- a About.
- 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.

