

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	226	221	594	e270	1740	624	1100	509	319	257	89	76
2	208	212	527	e260	1270	586	1080	478	962	340	83	75
3	192	209	432	e260	989	560	998	451	936	262	89	66
4	177	195	386	e260	838	555	984	422	754	215	251	63
5	222	187	421	e270	749	583	964	389	568	227	165	63
6	253	178	343	e260	710	522	1020	366	536	370	121	60
7	220	172	349	e250	673	487	2040	346	725	312	97	58
8	185	174	349	e240	647	450	2100	328	708	349	85	61
9	166	184	324	e235	1050	458	3850	349	546	338	79	64
10	186	412	285	e220	3250	439	3810	330	437	261	93	60
11	192	637	304	e245	2470	414	2740	341	383	207	104	59
12	166	498	408	e225	1570	435	2400	418	345	178	96	56
13	155	410	348	e220	1250	1770	1820	463	319	160	99	56
14	147	364	422	e220	1330	3740	1450	473	301	145	97	65
15	140	322	430	e220	3120	2350	1360	461	292	130	92	64
16	134	282	409	e225	3380	1890	5050	458	267	126	86	60
17	189	279	1390	e240	3320	2830	3490	453	264	125	84	56
18	1720	252	1400	e235	2160	2560	2480	228	232	140	71	56
19	1310	234	1020	e260	1580	1840	1920	239	205	139	67	56
20	776	227	773	e320	1350	1490	1570	222	189	128	79	78
21	568	229	641	e300	1240	1580	1380	230	338	111	86	96
22	469	207	e450	e300	1000	1980	1220	294	332	102	78	82
23	401	178	e340	e260	914	1660	1090	501	717	101	77	68
24	352	186	e300	e260	815	1630	975	352	602	95	82	103
25	330	182	e290	e260	792	1520	858	385	387	97	75	181
26	312	371	e280	e250	886	1250	772	737	292	110	72	133
27	287	776	e280	e250	759	1050	710	517	247	114	79	89
28	292	733	e280	e240	682	931	650	498	228	91	80	74
29	290	607	e280	e230	---	893	584	411	209	83	99	69
30	258	652	e275	e700	---	1190	540	358	213	85	83	67
31	235	---	e270	2320	---	1230	---	313	---	91	76	---
TOTAL	10758	9770	14600	10305	40534	39497	51005	12320	12853	5489	2914	2214
MEAN	347	326	471	332	1448	1274	1700	397	428	177	94.0	73.8
MAX	1720	776	1400	2320	3380	3740	5050	737	962	370	251	181
MIN	134	172	270	220	647	414	540	222	189	83	67	56
CFSM	.77	.72	1.04	.74	3.21	2.83	3.77	.88	.95	.39	.21	.16
IN.	.89	.81	1.20	.85	3.34	3.26	4.21	1.02	1.06	.45	.24	.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2001, BY WATER YEAR (WY)

	242	416	672	757	1041	1598	1363	820	501	260	180	187
MEAN	242	416	672	757	1041	1598	1363	820	501	260	180	187
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1939 - 2001	
ANNUAL TOTAL	200014		212259			
ANNUAL MEAN	546		582		670	
HIGHEST ANNUAL MEAN					1044	1996
LOWEST ANNUAL MEAN					280	1954
HIGHEST DAILY MEAN	4080	Apr 22	5050	Apr 16	15900	Jun 23 1972
LOWEST DAILY MEAN	98	Sep 9	56	Sep 12 ^a	11	Sep 26 1959
ANNUAL SEVEN-DAY MINIMUM	b 121	Feb 4	59	Sep 12	12	Oct 5 1963
MAXIMUM PEAK FLOW			6200	Apr 16	cd 59000	Mar 18 1936
MAXIMUM PEAK STAGE			8.00	Apr 16	f 30.26	Mar 18 1936
INSTANTANEOUS LOW FLOW			52	Sep 13 ^g	h 5.0	Sep 8 1929
ANNUAL RUNOFF (CFSM)	1.21		1.29		1.49	
ANNUAL RUNOFF (INCHES)	16.50		17.51		20.18	
10 PERCENT EXCEEDS	1280		1470		1600	
50 PERCENT EXCEEDS	338		304		328	
90 PERCENT EXCEEDS	146		82		59	

- a** Also Sept. 13, 17-19.
- b** Computed using estimated daily discharges.
- c** About.
- d** From rating curve extended above 13,000 ft³/s on the basis of slope-area and contracted-opening measurement of peak flow.
- f** From highwater mark, site and datum then in use.
- g** Also Sept. 18, 19.
- h** Minimum observed.

