2004 Water Year

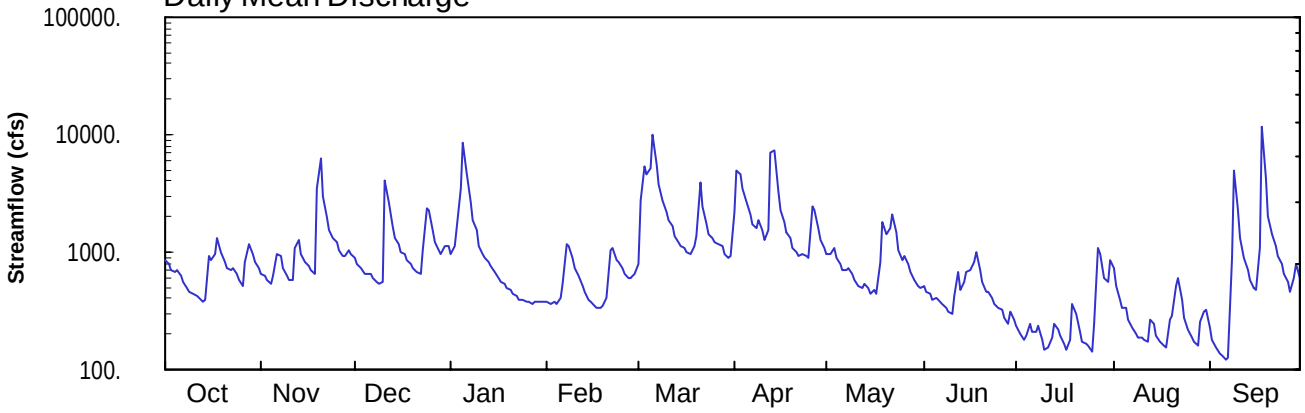
KISKIMINETAS RIVER BASIN

03040000 Stonycreek River at Ferndale, PA

Latitude: 40°17'08" Longitude: 078°55'15" Hydrologic Unit Code: 05010007

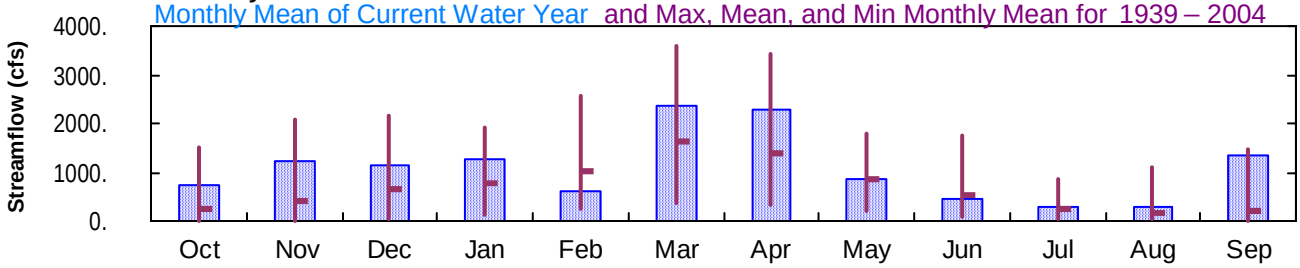
Cambria County Datum: 1184.06 feet Drainage Area: 451. mi²

Daily Mean Discharge

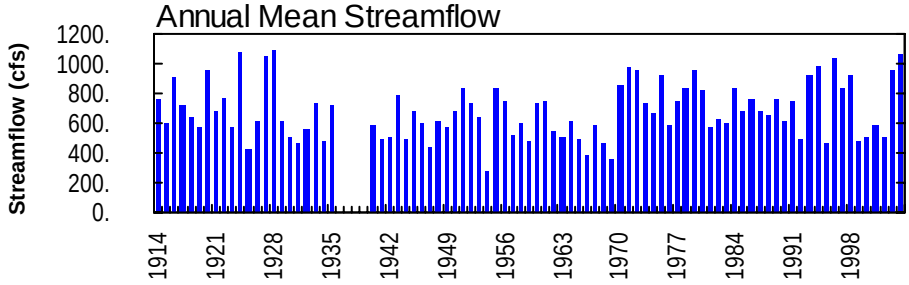


Monthly Statistics

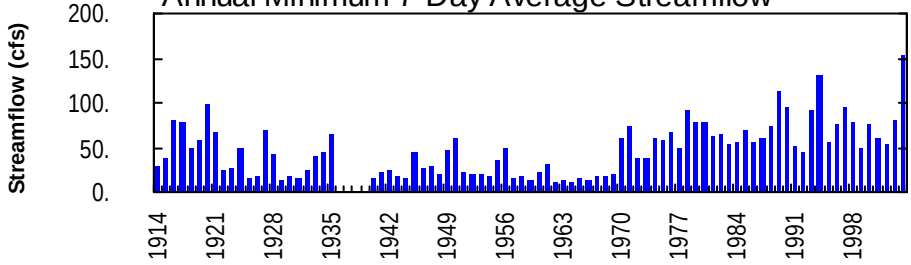
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1939 – 2004



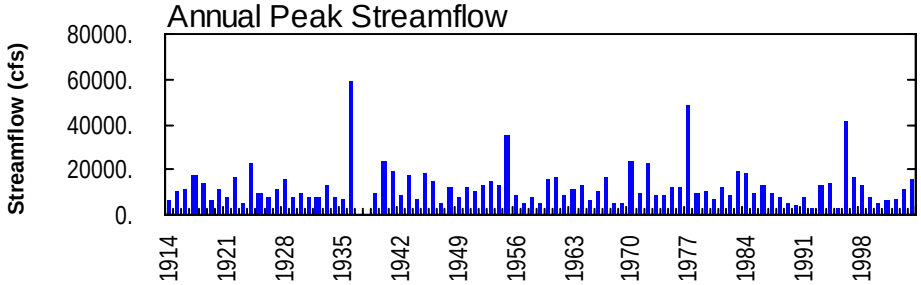
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



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 mi^2.

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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	872	661	892	979	e375	805	2170	980	523	238	718	224
2	801	620	802	1140	e365	2810	4940	949	451	200	521	176
3	700	576	719	1610	e370	5330	4530	1090	444	180	390	153
4	677	540	661	3490	e365	4570	3450	900	397	191	334	139
5	691	618	647	8680	e400	5150	2630	781	411	249	330	131
6	628	970	655	4840	e530	10100	2090	713	397	213	263	119
7	560	912	605	2640	1150	5600	1750	691	365	209	231	125
8	494	735	558	1890	1120	3750	1630	723	332	236	204	903
9	466	631	534	1510	881	2740	1850	644	305	182	188	4860
10	439	578	559	e1120	718	2190	1510	579	296	150	188	2370
11	418	576	4060	e980	622	1830	1280	525	431	151	177	1300
12	403	1070	2640	e900	e525	1650	1520	500	665	188	173	901
13	381	1250	1650	e830	e455	1370	7140	538	477	250	265	701
14	387	965	1340	e750	e395	1190	7250	501	566	218	242	578
15	937	810	1190	e680	e370	1140	3340	449	689	192	198	504
16	840	749	1010	e600	e355	1090	2290	473	696	168	174	476
17	947	707	962	e560	e335	1020	1790	434	812	147	159	1080
18	1330	647	872	e530	e340	944	1490	837	1010	181	153	11600
19	1000	3520	799	e495	e350	1110	e1300	1770	713	358	268	4180
20	822	6240	745	e475	e400	1360	e1100	1430	548	296	282	2030
21	732	2960	668	e440	1040	3870	1000	1600	458	211	510	1400
22	693	2010	660	e420	1060	2440	916	2090	461	173	606	1120
23	722	1530	1050	e395	857	1700	947	1460	413	164	386	940
24	650	1300	2390	e385	819	1410	936	1050	368	158	273	792
25	573	1210	2250	e380	730	1310	900	847	331	140	219	649
26	524	1040	1540	e370	648	1220	2420	932	320	248	188	555
27	827	938	1210	e365	612	1180	2230	780	271	1100	170	467
28	1170	913	1050	e380	600	1110	1610	672	243	977	158	600
29	962	1060	970	e375	660	978	1280	583	305	603	258	799
30	839	958	1150	e380	---	894	1090	514	265	548	310	607
31	725	---	1150	e370	---	943	---	492	---	848	321	---
TOTAL	22210	37294	35988	38959	17447	72804	68379	26527	13963	9367	8857	40479
MEAN	716	1243	1161	1257	602	2349	2279	856	465	302	286	1349
MAX	1330	6240	4060	8680	1150	10100	7250	2090	1010	1100	718	11600
MIN	381	540	534	365	335	805	900	434	243	140	153	119
CFSM	1.59	2.76	2.57	2.79	1.33	5.21	5.05	1.90	1.03	0.67	0.63	2.99
IN.	1.83	3.08	2.97	3.21	1.44	6.01	5.64	2.19	1.15	0.77	0.73	3.34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2004, BY WATER YEAR (WY)

MEAN	247	427	673	764	1020	1613	1369	846	520	260	183	212
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.

03040000 STONYCREEK RIVER AT FERNDALE, PA--Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1939 - 2004	
ANNUAL TOTAL	399213		392274			
ANNUAL MEAN	1094		1072		678	
HIGHEST ANNUAL MEAN					1072	2004
LOWEST ANNUAL MEAN					280	1954
HIGHEST DAILY MEAN	8140	Jun 4	11600	Sep 18	15900	Jun 23 1972
LOWEST DAILY MEAN	162	Aug 25	119	Sep 6	11	Sep 26 1959
ANNUAL SEVEN-DAY MINIMUM	192	Aug 19	152	Sep 1	12	Oct 5 1963
MAXIMUM PEAK FLOW			**a**15900	Sep 18	**ab**59000	Mar 18 1936
MAXIMUM PEAK STAGE			11.62	Sep 18	**c**30.26	Mar 18 1936
INSTANTANEOUS LOW FLOW			116	Sep 6-8	**d**5.0	Sep 8 1929
ANNUAL RUNOFF (CFSM)	2.43		2.38		1.50	
ANNUAL RUNOFF (INCHES)	32.93		32.36		20.43	
10 PERCENT EXCEEDS	2340		2180		1610	
50 PERCENT EXCEEDS	749		694		340	
90 PERCENT EXCEEDS	299		216		61	

a From rating curve extended above 13,000 ft^3/s on the basis of slope-area and contracted-opening measurement of peak flow.
b About.
c From highwater mark, site and datum then in use.
d Minimum observed.