



2005 Water Year
KISKIMINETAS RIVER BASIN
03040000 Stonycreek River at Ferndale, PA

Latitude: 40° 17' 08"

Longitude: 078° 55' 15"

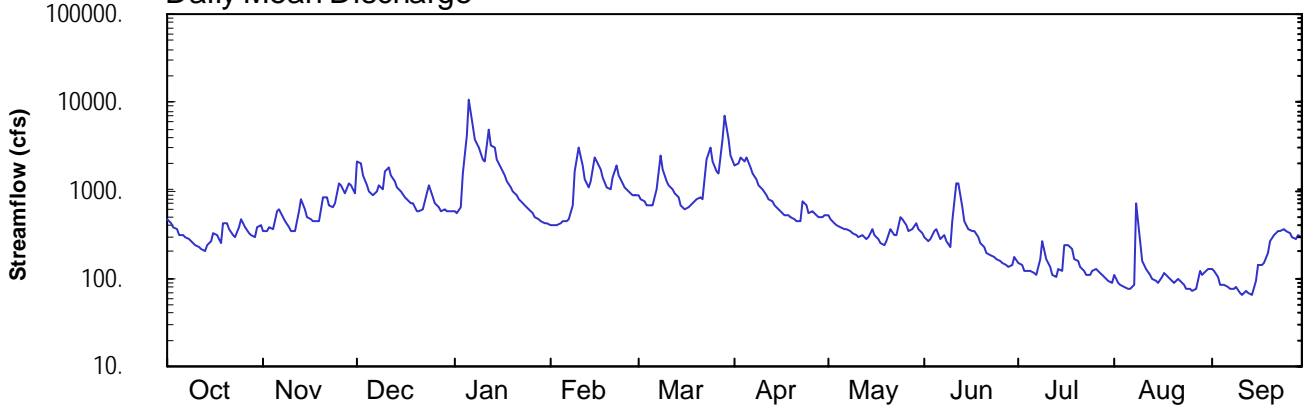
Hydrologic Unit Code: 05010007

Cambria County

Datum: 1184.06 feet

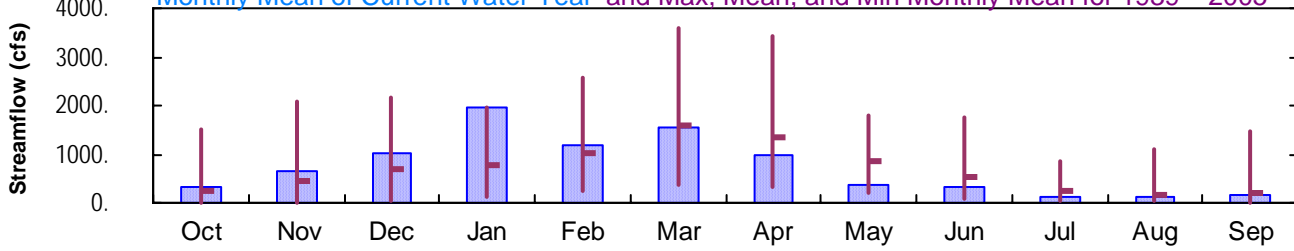
Drainage Area: 451. mi²

Daily Mean Discharge

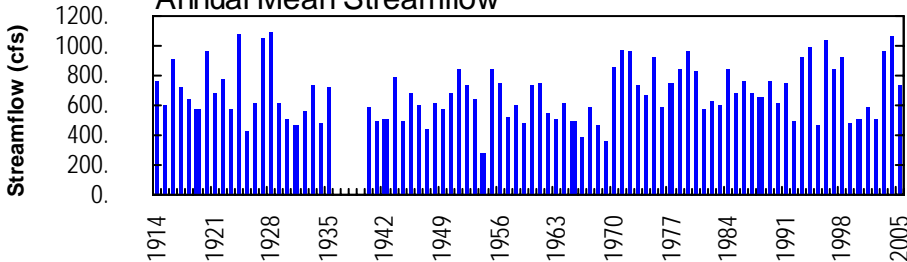


Monthly Statistics

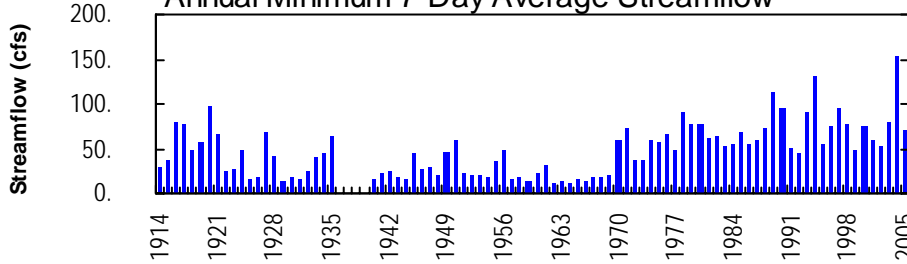
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1939 – 2005



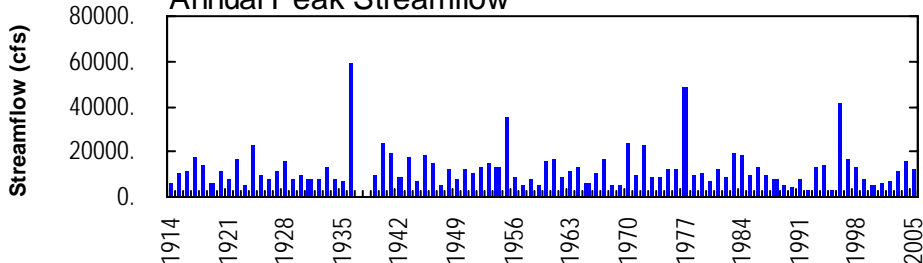
Annual Mean Streamflow



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 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	478	336	2100	577	e410	859	1910	524	292	150	111	131
2	426	337	2070	537	e400	794	2040	474	261	139	87	119
3	389	377	1460	648	e410	740	2300	434	286	123	85	103
4	356	361	1140	1560	e430	667	2070	403	346	120	80	86
5	311	583	964	4160	e440	672	2320	378	356	119	78	83
6	318	601	871	10600	e450	688	1850	360	277	114	77	80
7	298	504	961	5480	e460	1040	1550	354	304	112	87	75
8	281	438	1160	3750	688	2520	1360	346	260	163	700	78
9	259	382	1000	3090	1610	1750	1150	334	225	266	272	80
10	235	351	1630	2220	3100	1280	1000	305	436	167	154	68
11	221	339	1810	2140	1930	1120	896	291	1230	131	126	66
12	213	576	1510	4870	1360	1020	799	305	1230	111	112	73
13	207	788	1290	3190	1100	915	733	285	647	105	99	69
14	234	596	1110	3020	1250	824	668	288	457	125	93	65
15	262	502	959	2300	2410	692	615	356	372	123	90	93
16	325	472	844	1790	2160	603	565	312	338	234	106	140
17	305	454	790	1520	1730	645	533	274	340	234	114	142
18	246	448	710	1230	1370	690	510	253	288	219	106	146
19	430	453	697	e1100	1110	758	485	240	249	169	98	193
20	430	828	575	e990	1010	810	469	270	222	156	91	264
21	357	836	593	e890	1430	835	450	354	191	132	96	316
22	318	679	603	e780	1900	777	449	310	187	119	95	352
23	294	639	933	e730	1460	2190	740	311	173	112	82	351
24	384	708	1130	e660	1220	3040	688	502	165	108	76	358
25	461	1220	831	e600	1080	2090	562	471	155	121	75	350
26	379	1160	726	e560	976	1660	568	397	146	126	72	325
27	334	949	650	e500	880	1550	533	339	141	118	76	293
28	308	1230	577	e460	879	3800	494	364	134	108	122	282
29	293	1120	605	e440	---	7120	500	431	144	96	109	314
30	374	933	576	e430	---	3720	510	360	171	92	123	297
31	409	---	576	e420	---	2530	---	329	---	87	127	---
TOTAL	10135	19200	31451	61242	33653	48399	29317	10954	10023	4299	3819	5392
MEAN	327	640	1015	1976	1202	1561	977	353	334	139	123	180
MAX	478	1230	2100	10600	3100	7120	2320	524	1230	266	700	358
MIN	207	336	575	420	400	603	449	240	134	87	72	65
CFSM	0.72	1.42	2.25	4.38	2.66	3.46	2.17	0.78	0.74	0.31	0.27	0.40
IN.	0.84	1.58	2.59	5.05	2.78	3.99	2.42	0.90	0.83	0.35	0.32	0.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2005, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)	MEAN	MAX	(WY)	MIN	(WY)	MEAN	MAX	(WY)	MIN	(WY)
1939	248	1514	1977	13.6	1964	430	2099	1986	20.4	1954	678	2162	1973	48.4	1954
1940	783	1976	2005	137	1977	1023	2575	1986	137	1977	1612	3581	1994	262	1963
1941	1363	3426	1993	336	1946	839	1792	1978	77.4	1965	258	874	1977	28.4	1965
1942	517	1773	1972	77.4	1965	258	874	1977	28.4	1965	182	1098	1957	26.3	1957
1943	211	1449	1996	18.9	1943	211	1449	1996	18.9	1943	211	1449	1996	18.9	1943

e Estimated.

KISKIMINETAS RIVER BASIN

03040000 STONYCREEK RIVER AT FERNDALE, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1939 - 2005	
ANNUAL TOTAL	357568		267884			
ANNUAL MEAN	977		734		679	
HIGHEST ANNUAL MEAN					1072	2004
LOWEST ANNUAL MEAN					280	1954
HIGHEST DAILY MEAN	11600	Sep 18	10600	Jan 6	15900	Jun 23 1972
LOWEST DAILY MEAN	119	Sep 6	65	Sep 14	11	Sep 26 1959
ANNUAL SEVEN-DAY MINIMUM	152	Sep 1	71	Sep 8	12	Oct 5 1963
MAXIMUM PEAK FLOW			12400	Jan 6	ab 59000	Mar 18 1936
MAXIMUM PEAK STAGE			10.58	Jan 6	c 30.26	Mar 18 1936
INSTANTANEOUS LOW FLOW			39	Sep 14,15	d 5.0	Sep 8 1929
ANNUAL RUNOFF (CFSM)	2.17		1.63		1.51	
ANNUAL RUNOFF (INCHES)	29.49		22.10		20.45	
10 PERCENT EXCEEDS	1860		1690		1610	
50 PERCENT EXCEEDS	583		430		340	
90 PERCENT EXCEEDS	212		106		62	

a From rating curve extended above 13,000 ft³/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.

