



2005 Water Year
KISKIMINETAS RIVER BASIN
03048500 Kiskiminetas River at Vandergrift, PA

Latitude: 40° 36' 16"

Longitude: 079° 33' 08"

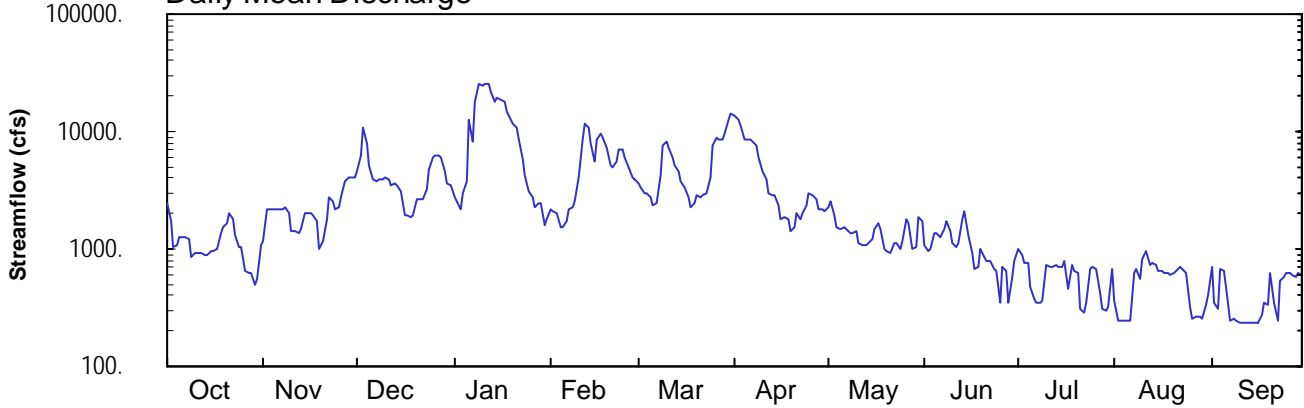
Hydrologic Unit Code: 05010008

Westmoreland County

Datum: 769.40 feet

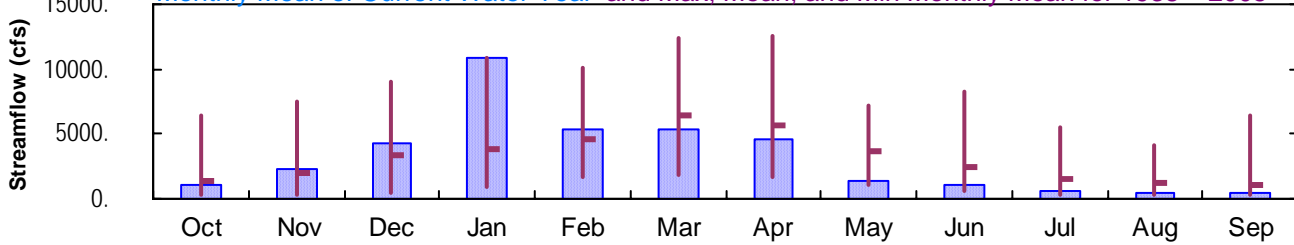
Drainage Area: 1825. mi²

Daily Mean Discharge

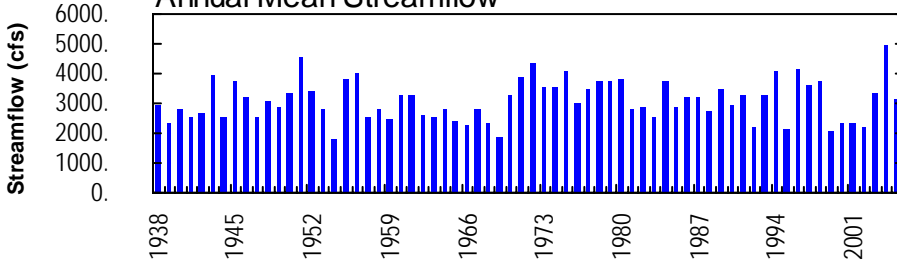


Monthly Statistics

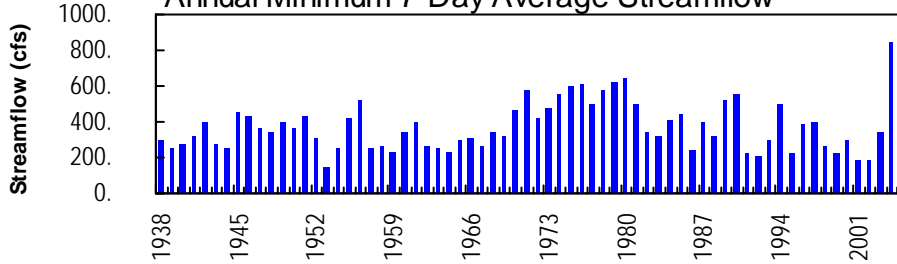
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1938 – 2005



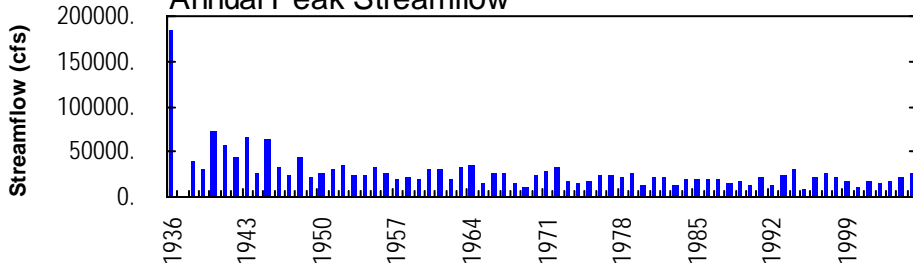
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



KISKIMINETAS RIVER BASIN

03048500 KISKIMINETAS RIVER AT VANDERGRIFT, PA

LOCATION.--Lat 40°36'16", long 79°33'08", Westmoreland County, Hydrologic Unit 05010008, on left bank 0.5 mi upstream from bridge on State Highway Alternate 66 at Vandergrift, and 2.2 mi upstream from Pine Run.

DRAINAGE AREA.--1,825 mi².

PERIOD OF RECORD.--August 1937 to current year. Monthly discharge only for some periods, published in WSP 1305. October 1920 to September 1932 (gage heights and discharge measurements only) in reports of Pennsylvania Department of Forests and Waters.

GAGE.--Water-stage recorder. Datum of gage is 769.40 ft above National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers benchmark). Oct. 1, 1920 to Sept. 30, 1930, nonrecording gage, Oct. 1, 1930 to Sept. 30, 1932, water-stage recorder, at site 0.6 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since June 1942 by Loyalhanna Lake, 20 mi upstream, since November 1951 by Conemaugh River Lake, 23 mi upstream, since July 1971 by Yellow Creek Lake (station 03042260), and by other reservoirs upstream of station; the 11 most effective of which have a combined capacity of 105,700 acre-ft. Figures of daily discharge do not include diversion from Beaver Run Reservoir to plants and communities downstream, nor into the Monongahela River Basin. Evaporation from operation of Homer City and Conemaugh generating stations, which began during 1969 and 1970, respectively, can amount to as much as 45 ft³/s. Several measurements of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 18, 1936 reached a stage of 41.64 ft, from floodmark at present site, discharge, about 185,000 ft³/s.

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	2430	1150	4490	2740	2170	3620	13500	2300	1090	983	367	695
2	1740	2170	6270	2510	2120	3410	12900	2500	979	886	244	345
3	1020	2210	10900	2220	2010	3010	11100	1920	998	773	242	309
4	1070	2210	7910	3030	1540	2960	8510	1550	1350	755	243	667
5	1260	2220	5220	3760	1520	2780	8480	1500	1390	470	243	660
6	1280	2190	3950	12500	1700	2340	8450	1510	1280	372	249	344
7	1290	2210	3820	8210	2190	2470	8260	1490	1460	355	618	250
8	1210	2270	3980	18100	2310	4290	7600	1390	1690	350	688	253
9	861	2050	3980	25200	2560	7530	6070	1390	1430	359	563	243
10	925	1450	4130	25000	4070	8340	4660	1400	1140	721	820	239
11	918	1420	3950	25100	8430	7460	3870	1110	1050	703	972	237
12	909	1350	3530	25600	11800	6030	2960	1070	1120	705	730	236
13	900	1480	3610	21900	10700	5060	2850	1080	1820	727	764	233
14	879	1980	3540	18300	7780	4540	2820	1140	2120	718	718	235
15	979	2050	3050	19400	5570	3720	2340	1240	1300	692	661	239
16	973	2030	1960	19000	8430	3360	1830	1500	929	777	641	239
17	1020	1970	1940	18200	9440	2760	1850	1640	666	465	634	272
18	1340	1750	1850	14700	8930	2300	1820	1490	696	730	615	348
19	1510	1020	1970	12400	7320	2470	1400	983	986	659	611	334
20	1660	1150	2690	11700	5070	2900	1530	944	845	620	637	623
21	1990	1830	2650	10800	4970	2790	2040	942	797	313	677	351
22	1820	2750	2650	8700	5680	2820	1810	1150	780	291	708	241
23	1300	2560	3230	5830	7060	2950	2060	1130	671	351	646	537
24	1060	2160	4850	4250	7090	4100	2350	1020	639	683	624	578
25	1040	2290	6010	3120	6040	7610	2980	1180	351	694	325	619
26	649	2780	6200	2750	4960	8950	2920	1820	704	667	257	629
27	627	3770	6260	2280	4090	8470	2640	1650	660	419	261	598
28	617	4060	6070	2440	3940	8600	2200	1010	350	311	266	584
29	500	4110	4620	2490	---	9650	2150	1050	570	296	256	619
30	561	4020	3660	1600	---	12500	2110	1890	795	324	333	594
31	1090	---	3480	1760	---	14200	---	1710	---	689	410	---
TOTAL	35428	66660	132420	335590	149490	163990	136060	43699	30656	17858	16023	12351
MEAN	1143	2222	4272	10830	5339	5290	4535	1410	1022	576	517	412
MAX	2430	4110	10900	25600	11800	14200	13500	2500	2120	983	972	695
MIN	500	1020	1850	1600	1520	2300	1400	942	350	291	242	233
CFSM	0.63	1.22	2.34	5.93	2.93	2.90	2.49	0.77	0.56	0.32	0.28	0.23
IN.	0.72	1.36	2.70	6.84	3.05	3.34	2.77	0.89	0.62	0.36	0.33	0.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2005, BY WATER YEAR (WY)

MEAN	1303	2006	3369	3830	4653	6444	5667	3691	2476	1497	1159	1108
MAX	6429	7570	9057	10830	10140	12400	12550	7245	8262	5469	4138	6408
(WY)	1955	1998	1973	2005	1956	1945	1993	1978	1972	1977	1958	2004
MIN	255	307	426	847	1724	1802	1727	1127	568	378	363	297
(WY)	1964	1954	1999	1956	1958	1969	1946	1941	1999	1965	1939	1939

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03048500 KISKIMINETAS RIVER AT VANDERGRIFT, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1938 - 2005	
ANNUAL TOTAL	1611975		1140225			
ANNUAL MEAN	4404		3124		3092	
HIGHEST ANNUAL MEAN					4902	2004
LOWEST ANNUAL MEAN					1777	1954
HIGHEST DAILY MEAN	22200	Jan 9	25600	Jan 12	60400	Mar 31 1940
LOWEST DAILY MEAN	500	Oct 29	233	Sep 13	60	Oct 15 1952
ANNUAL SEVEN-DAY MINIMUM	722	Oct 24	237	Sep 10	145	Nov 1 1952
MAXIMUM PEAK FLOW			26300	Jan 11	^a 71900	Mar 31 1940
MAXIMUM PEAK STAGE			15.72	Jan 11	25.70	Mar 31 1940
INSTANTANEOUS LOW FLOW					60	Oct 15 1952
ANNUAL RUNOFF (CFSM)	2.41		1.71		1.69	
ANNUAL RUNOFF (INCHES)	32.86		23.24		23.02	
10 PERCENT EXCEEDS	10400		8290		7160	
50 PERCENT EXCEEDS	2770		1660		1830	
90 PERCENT EXCEEDS	1070		351		490	

^a From rating curve extended above 61,000 ft³/s.

