



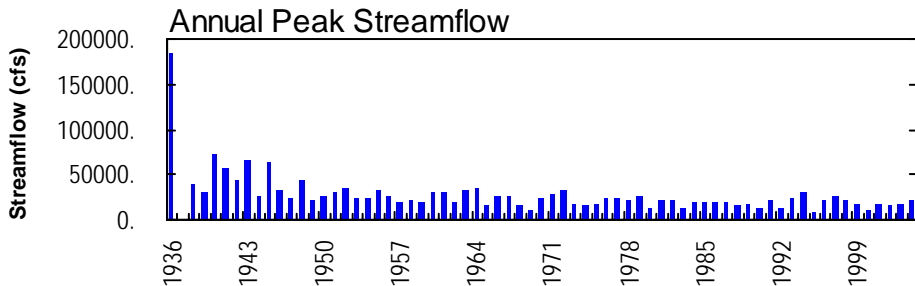
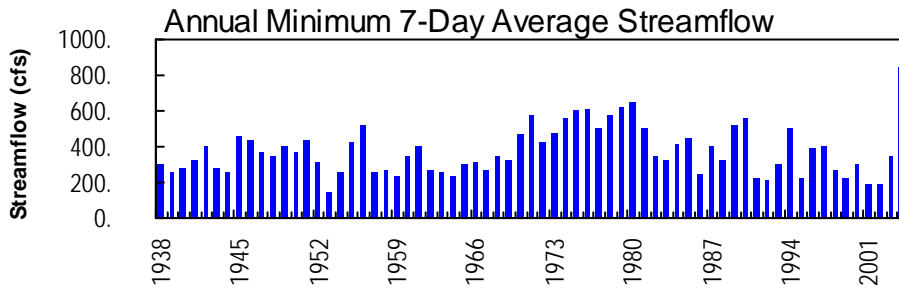
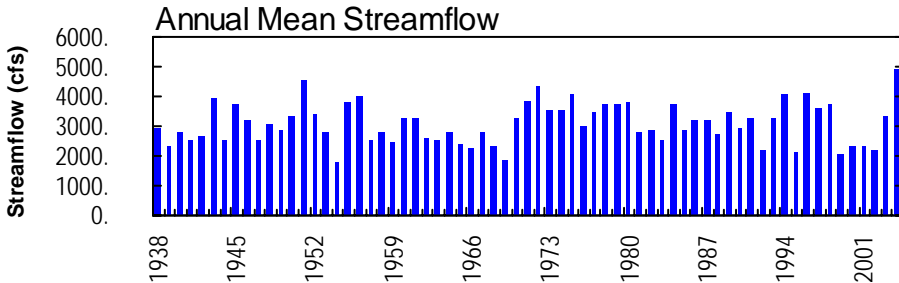
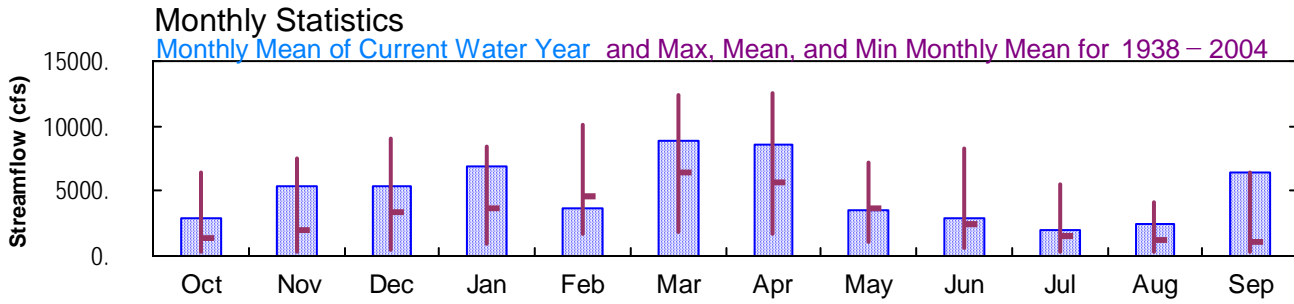
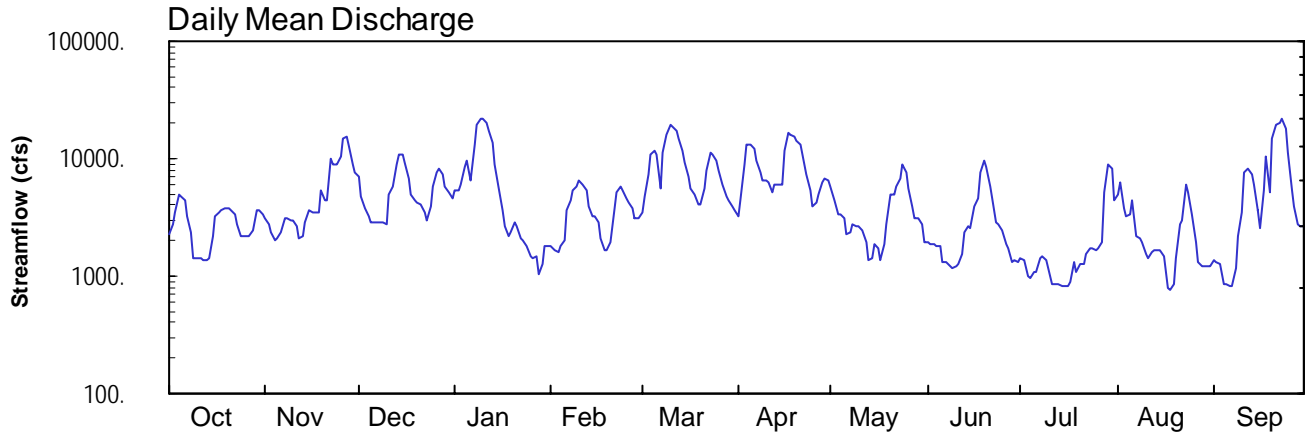
2004 Water Year  
KISKIMINETAS RIVER BASIN

03048500 Kiskiminetas River at Vandergrift, PA

Latitude: 40° 36' 16"  
Westmoreland County

Longitude: 079° 33' 08"  
Datum: 769.40 feet

Hydrologic Unit Code: 05010008  
Drainage Area: 1825. mi<sup>2</sup>



**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 mi<sup>2</sup>.

**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.**--Records good except those for estimated daily discharges, which are poor. 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 ft<sup>3</sup>/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 ft<sup>3</sup>/s.

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	2230	3110	7080	5370	1780	3480	3250	5830	1910	1430	5020	1360
2	2800	2710	4780	5340	1680	4840	4400	4400	1840	1340	6330	1340
3	3490	2400	3740	5930	1620	7240	8880	3380	1840	986	3790	1260
4	4930	1990	3180	8460	1820	10900	12900	3420	1830	974	3290	851
5	4860	2100	2870	9580	2040	11800	13300	3140	1770	1070	3390	845
6	4420	2360	2830	6640	3670	10800	12100	2280	1290	1080	4330	837
7	3280	3090	2890	13400	4330	5610	9730	2370	1330	1430	2170	820
8	2360	3040	2880	19100	5330	11000	7720	2710	1210	1460	2110	1160
9	1440	2940	2820	22200	5680	16200	6570	2670	1190	1380	1950	2150
10	1400	2990	2760	21600	6620	19300	6420	2600	1190	1190	1540	3490
11	1390	2700	5030	20000	6000	18500	6170	2490	1280	842	1400	7640
12	1390	2110	5880	17000	5290	17000	5230	1920	1520	845	1570	8140
13	1380	2160	8930	13700	3990	15000	6020	1370	2330	867	1660	7370
14	1440	2810	10600	8980	3280	11800	6080	1450	2680	812	1660	5950
15	2190	3590	11000	5590	3220	9070	5940	1890	2510	828	1650	3640
16	3220	3550	9110	3580	2850	7110	11600	1710	3890	807	1480	2550
17	3550	3490	6830	2650	2110	5670	16500	1350	4590	885	799	5370
18	3640	3420	4920	2150	1660	4930	16200	1870	7680	1290	747	10200
19	3800	5350	4330	2370	1660	4080	15600	2800	9700	1090	852	5100
20	3750	4460	4280	2860	1930	4060	14500	4870	8460	1270	1420	14600
21	3580	4480	4060	2690	3700	5540	13300	5010	5750	1250	2720	19200
22	3370	10100	3520	2130	5230	7950	11000	5730	4650	1540	3030	20400
23	2810	8970	3040	2010	5770	11500	7320	6670	2920	1750	6050	21800
24	2160	8740	3910	1820	5440	10800	5380	8960	2760	1720	5220	17800
25	2170	10300	5720	1450	4590	9680	3850	7620	2490	1690	3400	11000
26	2150	14500	7650	1440	4170	7900	4290	5650	1870	1750	1940	5420
27	2190	15400	8270	1460	3710	6080	4910	3960	1720	1920	1330	3860
28	2420	12800	7290	1030	3080	4850	6280	3050	1340	5170	1210	2790
29	3660	9000	5880	1260	3110	4360	6890	3150	1340	8960	1190	2670
30	3630	7750	5230	1790	---	3940	6490	2740	1340	8170	1200	2630
31	3360	---	4660	1780	---	3610	---	1910	---	4430	1220	---
TOTAL	88460	162410	165970	215360	105360	274600	258820	108970	86220	60226	75668	192243
MEAN	2854	5414	5354	6947	3633	8858	8627	3515	2874	1943	2441	6408
MAX	4930	15400	11000	22200	6620	19300	16500	8960	9700	8960	6330	21800
MIN	1380	1990	2760	1030	1620	3480	3250	1350	1190	807	747	820
CFSM	1.56	2.97	2.93	3.81	1.99	4.85	4.73	1.93	1.57	1.06	1.34	3.51
IN.	1.80	3.31	3.38	4.39	2.15	5.60	5.28	2.22	1.76	1.23	1.54	3.92

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2004, BY WATER YEAR (WY)**

MEAN	1305	2002	3356	3726	4643	6461	5683	3725	2498	1511	1169	1119
MAX	6429	7570	9057	8454	10140	12400	12550	7245	8262	5469	4138	6408
(WY)	1955	1998	1973	1991	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

e Estimated.

KISKIMINETAS RIVER BASIN

03048500 KISKIMINETAS RIVER AT VANDERGRIFT, PA--Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1938 - 2004	
ANNUAL TOTAL	1473885		1794307			
ANNUAL MEAN	4038		4902		3091	
HIGHEST ANNUAL MEAN					4902	
LOWEST ANNUAL MEAN					1777	
HIGHEST DAILY MEAN	15400	Nov 27	22200	Jan 9	60400	Mar 31 1940
LOWEST DAILY MEAN	620	Apr 30	747	Aug 18	60	Oct 15 1952
ANNUAL SEVEN-DAY MINIMUM	783	Aug 21	841	Jul 11	145	Nov 1 1952
MAXIMUM PEAK FLOW			22600	Sep 22	a71900	Mar 31 1940
MAXIMUM PEAK STAGE			14.47	Sep 22	25.70	Mar 31 1940
INSTANTANEOUS LOW FLOW					60	Oct 15 1952
ANNUAL RUNOFF (CFSM)	2.21		2.69		1.69	
ANNUAL RUNOFF (INCHES)	30.04		36.57		23.01	
10 PERCENT EXCEEDS	8340		10900		7140	
50 PERCENT EXCEEDS	3370		3480		1830	
90 PERCENT EXCEEDS	1210		1320		492	

a From rating curve extended above 61,000 ft<sup>3</sup>/s.