

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.--Records good except those for estimated daily discharges, which are poor. Flow regulated since November 1951 by Conemaugh River Lake, 23 mi upstream, since June 1942 by Loyalhanna Lake, 20 mi upstream, since July 1971 by Yellow Creek Lake (station 03042260), and by other reservoirs above 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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	518	210	780	e704	2970	2930	13000	4120	2000	1460	555	267
2	244	213	1380	e662	3150	2710	11200	3480	2130	1060	567	268
3	205	225	1400	e659	3410	2320	8400	3730	2420	1040	565	270
4	204	214	1040	e651	3160	2470	5640	7530	1910	984	518	275
5	202	213	879	e655	2350	2850	4930	7230	1530	697	310	270
6	206	508	556	e739	1520	2810	3940	7070	2220	692	301	261
7	511	562	550	1090	1510	2610	3780	6190	2950	688	513	255
8	530	558	554	950	1500	1990	2690	4660	3860	629	543	254
9	486	555	574	865	1480	1880	2160	4030	3660	591	543	254
10	226	541	622	668	1480	1780	2010	5320	5200	578	536	256
11	180	227	736	754	1940	1860	1910	8920	4800	551	524	257
12	181	177	608	1110	3210	1730	1910	9610	3440	597	528	255
13	190	172	622	2450	4240	1540	1720	8510	2450	604	533	255
14	185	178	625	2970	4160	1400	1660	6390	2520	582	307	218
15	191	188	629	2940	3880	879	2100	6410	4310	534	278	209
16	468	189	628	2570	3520	2130	2700	8940	5840	674	278	212
17	507	191	932	2020	2750	3030	4360	10400	6250	674	289	200
18	502	191	1690	1780	2350	4250	5410	11700	5420	563	277	200
19	500	193	3560	1310	1840	4350	6120	11300	4060	579	278	199
20	497	495	4210	1020	1830	5000	5310	11600	4270	557	289	197
21	503	524	3980	1030	1700	5680	3350	13700	2980	546	283	237
22	236	522	3530	1050	686	7660	2840	13200	1070	542	292	266
23	198	520	2770	1180	655	9190	3750	12700	1000	553	310	263
24	264	504	2420	1270	647	8970	3730	10400	928	480	347	263
25	225	287	1930	1780	811	8840	3510	5580	940	323	543	264
26	571	271	1780	3510	1660	9910	2870	3940	922	319	550	282
27	604	922	1310	4040	2190	6210	2630	3140	1260	357	568	706
28	593	1530	e1120	3550	2920	6280	2360	2870	1260	380	567	874
29	588	1550	e949	2830	---	11200	3270	2750	1680	495	563	1730
30	575	863	e861	2700	---	14800	4860	2650	1670	492	515	1660
31	252	---	e777	2440	---	14000	---	2390	---	334	297	---
TOTAL	11342	13493	44002	51947	63519	153259	124120	220460	84950	19155	13367	11377
MEAN	366	450	1419	1676	2269	4944	4137	7112	2832	618	431	379
MAX	604	1550	4210	4040	4240	14800	13000	13700	6250	1460	568	1730
MIN	180	172	550	651	647	879	1660	2390	922	319	277	197
CFSM	0.20	0.25	0.78	0.92	1.24	2.71	2.27	3.90	1.55	0.34	0.24	0.21
IN.	0.23	0.28	0.90	1.06	1.29	3.12	2.53	4.49	1.73	0.39	0.27	0.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2002, BY WATER YEAR (WY)

MEAN	1290	1951	3332	3668	4691	6413	5663	3727	2448	1496	1129	1007
MAX	6429	7570	9057	8454	10140	12400	12550	7245	8262	5469	4138	4629
(WY)	1955	1998	1973	1991	1956	1945	1993	1978	1972	1977	1958	1996
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.

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1938 - 2002	
ANNUAL TOTAL	752985		810991			
ANNUAL MEAN	2063		2222		3059	
HIGHEST ANNUAL MEAN					4518	1951
LOWEST ANNUAL MEAN					1777	1954
HIGHEST DAILY MEAN	15500	Apr 18,19	14800	Mar 30	60400	Mar 31 1940
LOWEST DAILY MEAN	172	Nov 13	172	Nov 13	60	Oct 15 1952
ANNUAL SEVEN-DAY MINIMUM	184	Nov 12	184	Nov 12	145	Nov 1 1952
MAXIMUM PEAK FLOW			15000	Mar 29	^a 71900	Mar 31 1940
MAXIMUM PEAK STAGE			11.82	Mar 29	25.70	Mar 31 1940
INSTANTANEOUS LOW FLOW					60	Oct 15 1952
ANNUAL RUNOFF (CFSM)	1.13		1.22		1.68	
ANNUAL RUNOFF (INCHES)	15.35		16.53		22.77	
10 PERCENT EXCEEDS	6430		5600		7100	
50 PERCENT EXCEEDS	950		1020		1800	
90 PERCENT EXCEEDS	212		249		485	

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

