

KISKIMINETAS RIVER BASIN

03045000 LOYALHANNA CREEK AT KINGSTON, PA

LOCATION.--Lat 40°17'33", long 79°20'27", Westmoreland County, Hydrologic Unit 05010008, on right bank 60 ft downstream from bridge on State Highway 217 at Kingston, 100 ft downstream from Miller Run, 1.9 mi upstream from Ninemile Run, and 3 mi southeast of Latrobe.

DRAINAGE AREA.--172 mi².

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only October to December 1939, published in WSP 1305.

REVISED RECORDS.--WSP 1335: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,013.16 ft above sea level (U.S. Army Corps of Engineers bench mark). Prior to Oct. 1, 1969, at datum 1.00 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by Latrobe Reservoir, capacity, 3,670 acre-ft, and diversion works at Kingston. Figures of daily discharge do not include diversion from reservoir and at Kingston intake to borough of Latrobe. 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.--Maximum stage since at least 1918, 15.8 ft, present datum, Oct. 15, 1954. Flood of Mar. 17 or 18, 1936 reached a stage of about 15.5 ft, present datum, from information by local residents, discharge, about 21,000 ft³/s, from rating curve extended above 8,700 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 3,500 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Feb. 14	0830	*4,360	*7.84	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	15	134	e74	e53	427	209	194	253	73	71	39
2	22	51	114	e73	e52	386	202	352	204	64	59	37
3	17	390	103	98	e52	308	233	250	190	83	53	43
4	20	173	102	135	e51	268	1160	216	150	208	99	38
5	23	117	93	181	e50	233	1000	203	138	142	75	34
6	19	98	101	139	e49	203	685	191	294	94	812	29
7	17	84	96	133	e49	181	520	174	293	79	1820	26
8	15	72	83	121	e48	170	569	158	195	67	1060	25
9	15	66	77	122	e47	165	622	144	160	60	554	25
10	121	62	125	129	71	156	501	128	134	60	370	28
11	114	56	195	133	608	191	462	115	115	159	250	95
12	57	48	145	114	574	259	999	106	115	88	195	64
13	39	45	157	110	388	201	672	105	147	65	160	124
14	98	41	770	93	3140	180	547	106	130	62	133	65
15	74	37	728	79	1450	168	451	88	109	165	111	68
16	49	35	445	e76	876	176	371	80	100	125	97	98
17	39	31	315	63	650	480	424	75	89	91	82	109
18	32	27	246	73	731	352	404	68	125	75	90	76
19	29	25	205	e70	1740	306	333	187	168	70	105	64
20	28	30	181	e69	957	276	301	159	104	88	75	62
21	27	38	163	e67	648	1640	481	109	196	69	64	61
22	26	32	137	e66	502	1310	876	88	368	69	57	60
23	25	27	119	e66	430	825	886	117	167	58	54	51
24	28	26	97	e65	423	629	699	840	122	50	57	244
25	27	43	86	e64	463	521	558	359	104	49	54	132
26	22	728	e84	e63	417	421	448	226	114	44	47	251
27	21	631	e82	e62	369	352	359	205	109	40	48	177
28	20	310	e80	e60	662	320	299	449	120	63	68	127
29	18	227	e78	e57	465	335	254	773	92	92	52	106
30	18	177	e77	e55	---	272	215	455	88	55	45	91
31	16	---	e76	e53	---	231	---	327	---	65	41	---
TOTAL	1115	3742	5494	2763	16015	11942	15740	7047	4693	2572	6858	2449
MEAN	36.0	125	177	89.1	552	385	525	227	156	83.0	221	81.6
MAX	121	728	770	181	3140	1640	1160	840	368	208	1820	251
MIN	15	15	76	53	47	156	202	68	88	40	41	25
(†)	.46	6.7	10	6.0	20	14	16	8.7	6.1	.18	9.4	2.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2000, BY WATER YEAR (WY)

MEAN	106	212	351	379	472	610	528	371	227	118	100	88.6
MAX	689	785	834	850	1210	1305	1007	779	997	344	667	635
(WY)	1955	1986	1973	1952	1986	1963	1940	1952	1972	1990	1979	1971
MIN	2.76	5.09	29.4	79.0	137	175	178	115	38.3	7.76	7.04	4.20
(WY)	1954	1954	1999	1940	1978	1969	1997	1963	1999	1966	1957	1957

† Diversion from and change in contents in Latrobe Reservoir and diversion from Kingston intake, equivalent in cubic feet per second, furnished by Latrobe Municipal Authority.

e Estimated.

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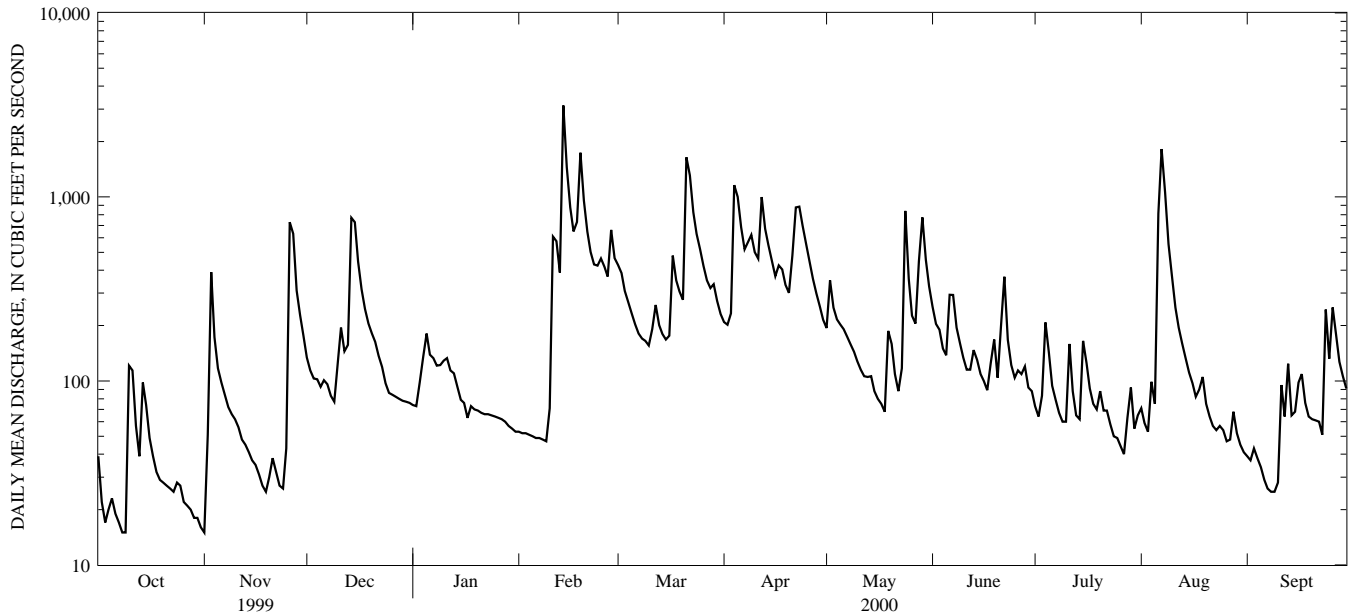
SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1940 - 2000	
ANNUAL TOTAL	74227.5		80430			
ANNUAL MEAN	203 † +6.7		220 † +11		296	
HIGHEST ANNUAL MEAN					447	
LOWEST ANNUAL MEAN					160	
HIGHEST DAILY MEAN	2780 Apr 10		3140 Feb 14		14200 Jun 23 1972	
LOWEST DAILY MEAN	8.0 Sep 5		15 Oct 8 ^a		.20 Oct 23 1953	
ANNUAL SEVEN-DAY MINIMUM	8.9 Aug 31		18 Oct 3		.63 Oct 19 1953	
INSTANTANEOUS PEAK FLOW			4360 Feb 14		^b 29700 Oct 15 1954	
INSTANTANEOUS PEAK STAGE			7.84 Feb 14		^c 15.80 Oct 15 1954	
INSTANTANEOUS LOW FLOW					.10 Sep 4 1953	
10 PERCENT EXCEEDS	551		549		698	
50 PERCENT EXCEEDS	76		109		158	
90 PERCENT EXCEEDS	13		35		21	

† Diversion from and change in contents in Latrobe Reservoir and diversion from Kingston intake, equivalent in cubic feet per second, furnished by Latrobe Municipal Authority.

^a Also Oct. 9, Nov. 1.

^b From rating curve extended above 8,700 ft³/s on basis of slope-area measurement at gage height 13.37 ft.

^c Present datum, from floodmarks.



1-YEAR HYDROGRAPH
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000