

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 National Geodetic Vertical Datum of 1929 (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)
Mar. 20	1900	5,080	8.29	May 18	0900	4,860	8.16
Mar. 26	2100	*7,420	*9.53				

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	17	17	125	e69	287	147	552	534	285	83	18	8.2
2	16	17	87	e62	244	141	441	535	188	71	16	7.4
3	15	35	69	59	214	360	400	450	154	66	14	7.0
4	14	51	60	e57	206	286	342	366	138	58	13	6.7
5	14	32	54	e55	175	232	293	311	125	62	17	6.3
6	14	26	53	e55	160	217	262	267	530	49	51	6.1
7	14	22	53	e56	154	201	227	271	599	42	28	5.9
8	16	20	57	e64	141	182	210	294	351	38	18	5.7
9	14	20	113	e62	121	164	200	1640	258	44	15	5.6
10	14	19	82	e103	132	151	190	855	207	74	13	5.1
11	14	18	71	e352	678	126	161	586	174	45	11	5.0
12	14	17	65	e253	442	122	144	532	152	34	11	4.8
13	14	17	68	e208	339	117	147	1280	296	30	11	4.6
14	14	14	77	e204	263	112	169	1740	372	31	9.9	4.6
15	28	13	103	e199	230	106	442	1010	427	32	9.5	4.9
16	31	13	82	180	208	279	364	697	366	27	9.0	9.9
17	24	13	151	160	197	266	294	555	239	24	9.8	8.8
18	25	12	792	138	166	529	256	2960	179	27	9.8	7.4
19	22	12	432	123	148	460	230	1510	136	30	9.7	7.9
20	18	23	296	119	162	2440	236	950	106	27	31	18
21	17	35	218	113	326	1950	260	679	89	23	22	11
22	16	25	173	111	273	1010	338	537	78	20	13	8.6
23	15	20	154	112	227	679	280	439	70	24	12	7.7
24	39	17	175	421	202	530	242	364	63	37	48	6.9
25	42	157	138	601	189	436	237	341	59	21	52	6.7
26	29	144	117	420	192	2830	212	292	54	24	25	8.0
27	25	84	106	323	194	2470	189	234	190	117	17	144
28	22	94	e85	261	169	1080	762	196	441	72	14	148
29	20	125	e70	220	---	736	706	184	201	35	11	45
30	19	110	66	243	---	601	572	279	108	25	11	27
31	18	---	e67	331	---	494	---	214	---	22	9.1	---
TOTAL	614	1222	4259	5734	6439	19454	9358	21102	6635	1314	558.8	552.8
MEAN	19.8	40.7	137	185	230	628	312	681	221	42.4	18.0	18.4
MAX	42	157	792	601	678	2830	762	2960	599	117	52	148
MIN	14	12	53	55	121	106	144	184	54	20	9.0	4.6
(†)	+.02	+4.0	+8.0	+8.0	+20	+3.4	+4.0	+5.4	+10	+.80	+4.40	-1.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2002, BY WATER YEAR (WY)

MEAN	105	208	346	373	469	608	526	371	226	117	97.6	86.4
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	83.4	38.3	7.76	7.04	4.20
(WY)	1954	1954	1999	1940	1978	1969	1997	2001	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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1940 - 2002	
ANNUAL TOTAL	69533		77242.6			
ANNUAL MEAN	191 † +7.6		212 † +5.5		293	
HIGHEST ANNUAL MEAN					447 1971	
LOWEST ANNUAL MEAN					160 1954	
HIGHEST DAILY MEAN	2020	Apr 16	2960	May 18	14200	Jun 23 1972
LOWEST DAILY MEAN	10	Sep 12 ^a	4.6	Sep 13,14	0.20	Oct 23 1953
ANNUAL SEVEN-DAY MINIMUM	11	Sep 12	4.9	Sep 9	0.63	Oct 19 1953
MAXIMUM PEAK FLOW			7420	Mar 26	^b 29700	Oct 15 1954
MAXIMUM PEAK STAGE			9.53	Mar 26	^c 15.80	Oct 15 1954
INSTANTANEOUS LOW FLOW			4.6	Sep 12-15	0.10	Sep 4 1953
10 PERCENT EXCEEDS	518		508		691	
50 PERCENT EXCEEDS	82		106		155	
90 PERCENT EXCEEDS	15		11		20	

† 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 Sept. 13, 18, 19.

^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.

