



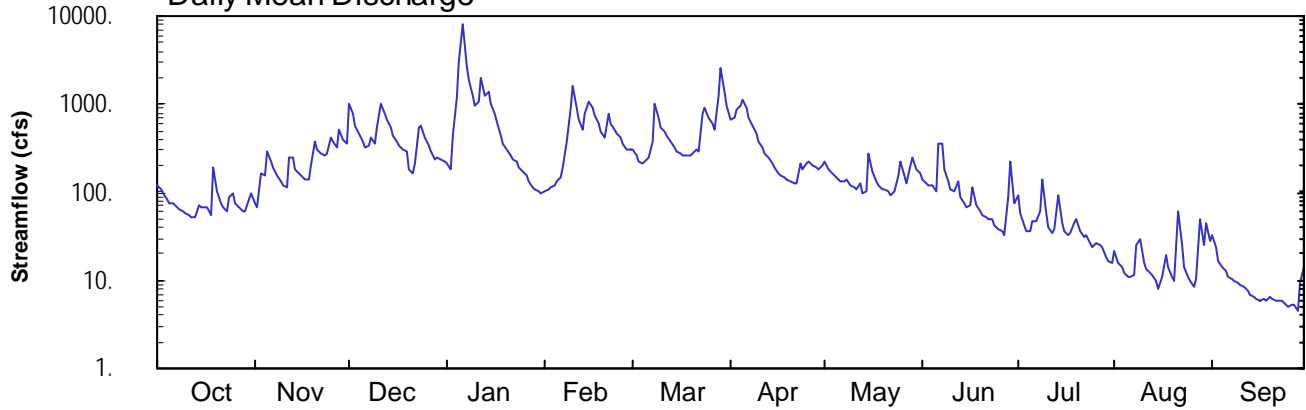
2005 Water Year
KISKIMINETAS RIVER BASIN
03045000 Loyalhanna Creek at Kingston, PA

Latitude: 40° 17 ' 33"
Westmoreland County

Longitude: 079° 20 ' 27"
Datum: 1013.16 feet

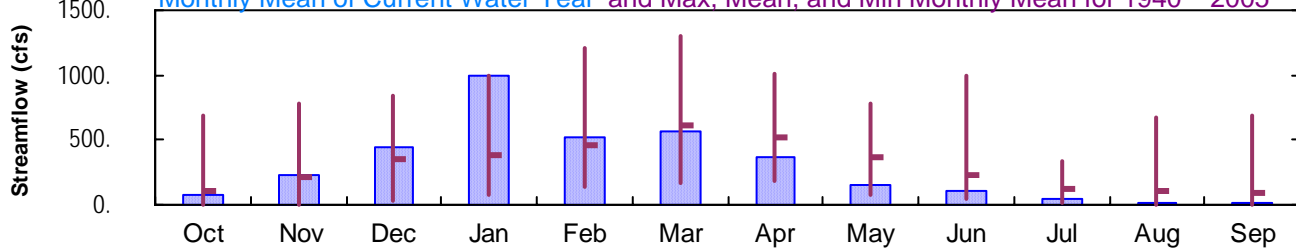
Hydrologic Unit Code: 05010008
Drainage Area: 172. mi²

Daily Mean Discharge

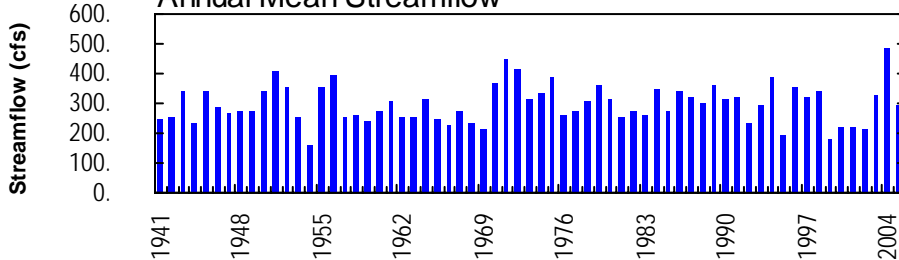


Monthly Statistics

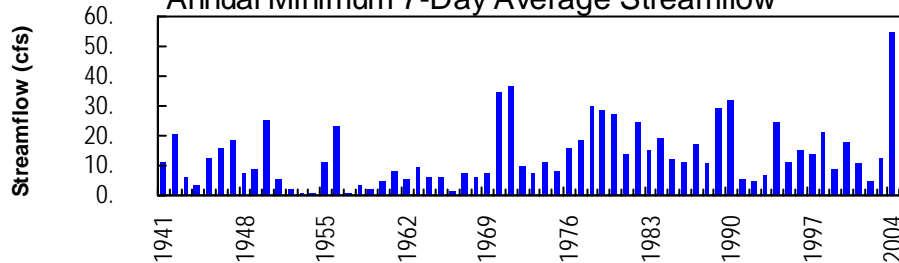
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1940 – 2005



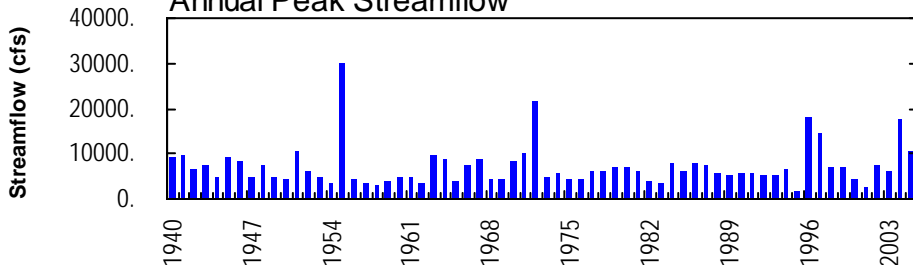
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



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 less than 10 ft³/s, which are fair, and 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)
Jan. 6	1500	*10,500	*11.25	Mar. 29	0300	3,650	7.51

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	122	74	1030	208	e105	305	678	219	141	93	21	33
2	106	69	774	182	e110	263	690	185	124	58	16	24
3	96	168	582	433	e115	226	879	170	120	43	14	e17
4	83	157	459	1200	e120	207	947	156	119	37	12	e14
5	74	296	375	3000	e135	219	1120	142	102	36	11	e13
6	76	225	320	8040	e150	246	895	135	352	47	11	e11
7	71	187	343	2760	e190	379	711	134	362	46	11	11
8	65	156	423	1900	e370	1010	574	137	181	62	25	9.8
9	60	132	350	1260	e890	696	460	120	130	137	30	9.3
10	57	119	555	938	1580	550	383	115	110	57	16	8.9
11	55	111	1030	1090	928	497	325	109	105	40	14	8.6
12	52	254	781	1960	676	452	280	125	130	34	12	7.7
13	51	253	668	1240	524	384	251	99	88	37	12	7.0
14	70	184	537	1410	763	329	218	102	74	91	9.9	6.5
15	68	161	441	1010	1060	295	192	280	69	45	8.2	6.1
16	69	150	377	785	906	275	167	170	72	35	11	5.8
17	66	140	340	627	757	262	153	134	111	33	19	6.1
18	55	139	301	e430	601	267	145	118	70	34	14	5.8
19	191	202	290	e360	485	267	137	107	60	45	11	6.4
20	102	368	e185	e310	420	280	130	107	55	49	10	6.3
21	76	313	e160	e260	768	310	129	105	52	35	62	5.9
22	67	270	e215	e240	613	287	126	93	50	30	25	5.7
23	60	268	552	e220	521	797	215	102	49	33	14	5.7
24	88	274	581	e190	460	913	182	154	43	27	11	5.3
25	96	408	e420	e170	413	722	215	228	39	24	9.6	4.9
26	74	375	e335	e155	363	593	219	157	35	26	8.6	5.4
27	67	328	e285	e130	313	522	203	129	33	25	11	5.3
28	61	504	e240	e115	308	1260	189	206	90	23	49	4.6
29	60	402	e245	e110	---	2580	186	251	222	18	25	9.2
30	83	351	240	e105	---	1360	204	185	75	16	44	e14
31	99	---	229	e100	---	942	---	162	---	16	28	---
TOTAL	2420	7038	13663	30938	14644	17695	11203	4636	3263	1332	575.3	283.3
MEAN	78.1	235	441	998	523	571	373	150	109	43.0	18.6	9.44
MAX	191	504	1030	8040	1580	2580	1120	280	362	137	62	33
MIN	51	69	160	100	105	207	126	93	33	16	8.2	4.6
(†)	+2.5	+2.4	+10	+6.2	+7.4	+6.2	+17	-7.3	+3.5	+6.5	+4.2	-.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	107	215	349	386	466	610	526	368	231	120	101	97.2
MAX	689	785	834	998	1210	1305	1007	779	997	344	667	683
(WY)	1955	1986	1973	2005	1986	1963	1940	1952	1972	1990	1979	2004
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.

KISKIMINETAS RIVER BASIN

03045000 LOYALHANNA CREEK AT KINGSTON, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	157331		107690.6			
ANNUAL MEAN	430	† +6.4	295	† +4.0	297	
HIGHEST ANNUAL MEAN					488	2004
LOWEST ANNUAL MEAN					160	1954
HIGHEST DAILY MEAN	9690	Sep 18	8040	Jan 6	14200	Jun 23 1972
LOWEST DAILY MEAN	42	Jul 17	4.6	Sep 28	0.20	Oct 23 1953
ANNUAL SEVEN-DAY MINIMUM	55	Jul 11	5.3	Sep 22	0.63	Oct 19 1953
MAXIMUM PEAK FLOW			a 10500	Jan 6	a 29700	Oct 15 1954
MAXIMUM PEAK STAGE			11.25	Jan 6	b 15.80	Oct 15 1954
INSTANTANEOUS LOW FLOW			4.0	Sep 28	0.10	Sep 4 1953
10 PERCENT EXCEEDS	850		736		696	
50 PERCENT EXCEEDS	246		137		159	
90 PERCENT EXCEEDS	68		12		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 From rating curve extended above 8,700 ft³/s on basis of slope-area measurement at gage height 13.37 ft.

b Present datum, from floodmarks.

