



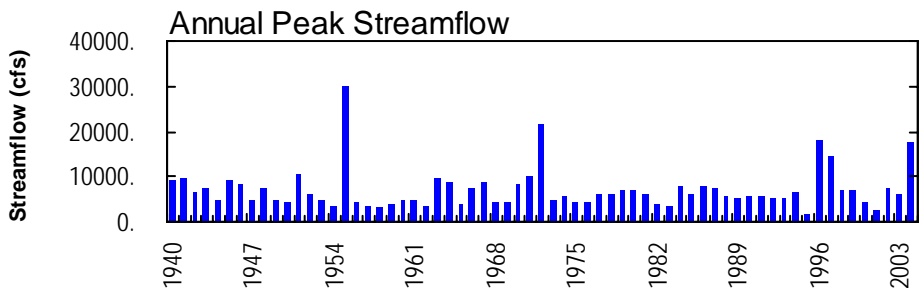
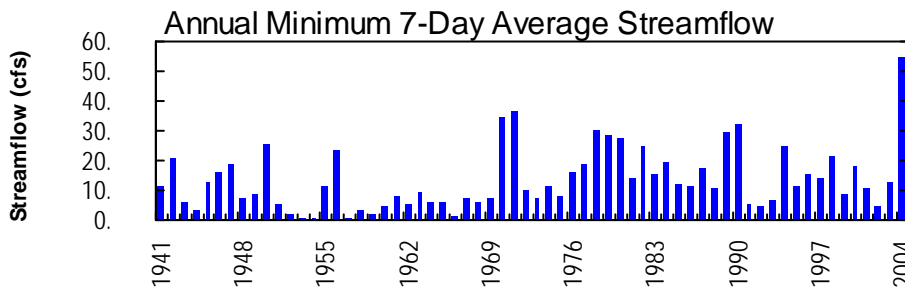
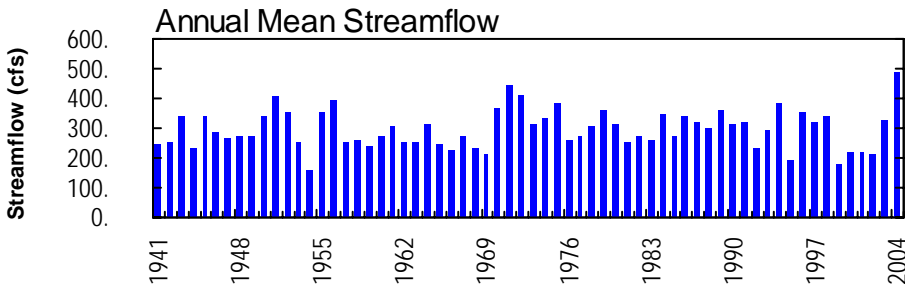
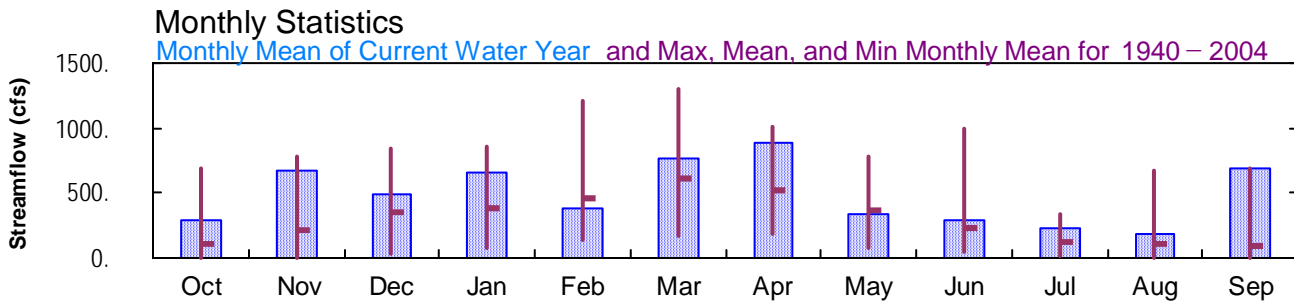
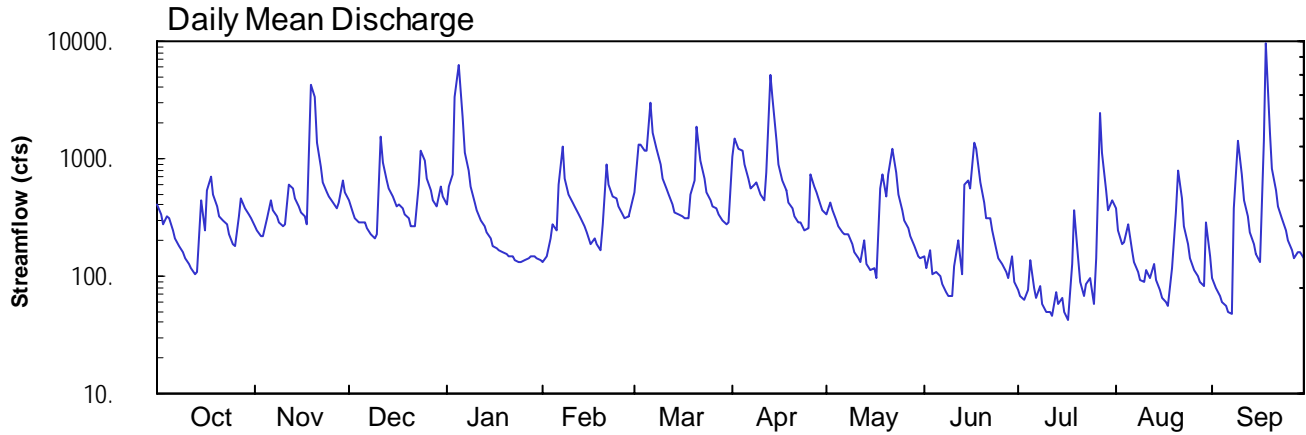
2004 Water Year  
KISKIMINETAS RIVER BASIN

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. mi<sup>2</sup>



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

**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 ft<sup>3</sup>/s, from rating curve extended above 8,700 ft<sup>3</sup>/s.

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

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
Nov. 19	2000	9,860	10.56	Apr. 13	2000	11,000	11.00
Jan. 5	1200	8,830	10.15	July 27	1545	5,880	8.74
Mar. 6	0800	3,980	7.58	Sept. 18	0430	*17,600	*13.17

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	406	e270	e440	413	e130	511	1060	333	145	76	377	96
2	337	e250	353	579	e150	1310	1450	430	117	68	246	78
3	275	e220	313	736	e210	1320	1220	360	164	64	186	68
4	318	221	286	3360	e280	1180	1150	295	106	77	195	61
5	316	314	282	6310	e250	1160	887	269	108	134	278	55
6	245	438	284	2230	e600	2970	684	238	99	79	166	50
7	209	366	251	1140	1250	1680	566	223	84	64	133	47
8	182	319	224	777	673	1220	595	225	74	83	110	371
9	158	283	207	588	489	888	618	185	68	58	93	1410
10	141	261	229	428	430	683	490	161	68	49	90	722
11	125	274	1550	366	385	553	436	141	119	49	111	442
12	115	612	942	e300	332	494	748	131	202	47	95	318
13	105	550	654	e270	316	403	5220	199	103	74	126	238
14	106	452	547	e240	e270	355	3400	128	612	57	94	187
15	443	392	468	e210	e240	331	1400	111	644	66	76	156
16	247	348	385	e180	e190	322	901	117	565	50	66	131
17	541	318	408	e175	e210	304	653	98	1380	42	60	1440
18	717	275	378	e165	e185	309	537	554	1200	129	55	9690
19	491	4320	335	e160	e165	488	432	738	637	363	118	1640
20	386	3390	305	e155	e280	655	380	485	428	147	345	834
21	328	1370	267	e150	890	1840	328	745	315	89	802	539
22	301	872	270	e145	592	973	291	1210	309	67	466	395
23	274	627	591	e135	468	670	285	757	242	84	267	307
24	223	522	1190	e130	462	523	247	505	175	98	189	246
25	189	471	949	e130	390	444	258	369	143	59	142	203
26	e180	e420	679	e135	340	385	739	304	128	144	114	169
27	e320	e380	526	e140	310	377	590	251	107	2430	100	142
28	e460	e430	439	e150	320	341	506	222	98	1110	87	159
29	e380	e640	390	e145	375	296	414	182	150	539	81	162
30	e340	e510	578	e140	---	278	358	146	90	363	283	140
31	e310	---	474	e135	---	282	---	141	---	437	147	---
TOTAL	9168	20115	15194	20317	11182	23545	26843	10253	8680	7196	5698	20496
MEAN	296	670	490	655	386	760	895	331	289	232	184	683
MAX	717	4320	1550	6310	1250	2970	5220	1210	1380	2430	802	9690
MIN	105	220	207	130	130	278	247	98	68	42	55	47
(†)	5.6	8.1	5.6	6.2	7.1	6.9	6.6	2.9	7.5	7.0	3.1	15

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)**

MEAN	107	214	347	377	465	611	528	371	233	122	102	98.6
MAX	689	785	834	850	1210	1305	1007	779	997	344	667	683
(WY)	1955	1986	1973	1952	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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	150027	† 7.4	178687	† 6.8		
ANNUAL MEAN	411		488		297	
HIGHEST ANNUAL MEAN					488	2004
LOWEST ANNUAL MEAN					160	1954
HIGHEST DAILY MEAN	4320	Nov 19	9690	Sep 18	14200	Jun 23 1972
LOWEST DAILY MEAN	50	Jan 31 <sup>a</sup>	42	Jul 17	0.20	Oct 23 1953
ANNUAL SEVEN-DAY MINIMUM	b55	Jan 27	55	Jul 11	0.63	Oct 19 1953
MAXIMUM PEAK FLOW			c17600	Sep 18	c29700	Oct 15 1954
MAXIMUM PEAK STAGE			13.17	Sep 18	d15.80	Oct 15 1954
INSTANTANEOUS LOW FLOW			40	Jul 17	0.10	Sep 4 1953
10 PERCENT EXCEEDS	800		944		695	
50 PERCENT EXCEEDS	309		304		159	
90 PERCENT EXCEEDS	88		90		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.

<sup>a</sup> Also Feb. 1.

<sup>b</sup> Computed using estimated daily discharges.

<sup>c</sup> From rating curve extended above 8,700 ft<sup>3</sup>/s on basis of slope-area measurement at gage height 13.37 ft.

<sup>d</sup> Present datum, from floodmarks.