Water-Data Report 2012

03045000 LOYALHANNA CREEK AT KINGSTON, PA

Allegheny Basin
Kiskiminetas Subbasin

LOCATION.--Lat 40°17′33″, long 79°20′27″ referenced to North American Datum of 1927, Westmoreland County, PA, 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^2.

SURFACE-WATER RECORDS

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. Satellite telemetry at station.

COOPERATION.-- Station established and maintained by the U.S. Geological Survey. Funding for the operation of this station is provided by the U.S. Army Corps of Engineers, Pittsburgh District, the Pennsylvania Department of Environmental Protection, and the U.S. Geological Survey through the Cooperative Water Program.

REMARKS.--Records good except those less than 10 ft^3/s, which are fair. 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. Records of diversion and change in contents furnished by Latrobe Municipal Authority are available in office files. Several measurements of water temperature were made during the year.

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^3/s, from rating curve extended above 8,700 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,500 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 23	0445	*4,050	*7.81
Feb 29	1445	3,610	7.49

Minimum discharge, 14 ft^3/s, July 13, gage height, 1.31 ft.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 03045000, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/03045000.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	219	567	308	447	457	1,260	349	277	382	30	87	168
2	1,610	476	266	409	387	786	336	297	630	24	59	327
3	2,170	411	234	345	319	797	287	322	283	21	48	88
4	1,600	350	215	292	292	564	265	258	214	99	42	57
5	1,030	289	202	282	292	475	238	238	161	80	57	214
6	664	248	233	260	266	386	213	228	136	39	289	94
7	470	219	809	258	238	362	189	195	108	29	83	76
8	354	201	855	224	224	450	174	469	101	25	57	164
9	279	183	582	202	217	1,250	166	1,300	85	22	63	183
10	233	176	482	193	198	733	168	759	73	20	452	105
11	203	160	385	222	198	577	151	509	65	17	164	74
12	189	143	332	656	169	480	144	385	126	16	97	59
13	171	131	293	668	174	459	127	312	139	15	73	50
14	519	126	269	508	170	371	117	327	78	15	59	44
15	399	719	274	424	198	316	161	365	64	18	54	39
16	261	830	252	365	302	294	132	273	55	23	46	36
17	446	838	220	831	492	258	112	213	49	29	40	33
18	342	556	212	759	392	231	103	179	79	124	41	174
19	297	439	200	558	338	225	99	155	74	125	35	180
20	335	372	248	469	298	207	96	135	52	143	33	89
21	267	577	490	467	264	187	96	120	43	130	30	66
22	234	743	694	377	280	173	111	118	39	81	28	55
23	210	2,950	1,030	688	252	164	324	119	36	47	24	49
24	196	1,550	779	835	261	828	617	102	33	40	22	52
25	192	974	610	594	243	685	649	89	33	44	20	46
26	192	690	488	726	213	502	669	80	31	56	18	108
27	779	550	830	2,020	214	403	558	246	27	581	18	785
28	991	479	1,130	1,360	205	407	438	1,080	26	254	34	711
29	812	425	735	899	1,340	356	365	269	24	202	27	335
30	846	377	591	654	---	295	298	267	41	100	19	365
31	696	---	521	516	---	456	---	155	---	85	17	---
Total	17,206	16,749	14,769	17,508	8,893	14,937	7,752	9,841	3,287	2,534	2,136	4,826
Mean	555	558	476	565	307	482	258	317	110	81.7	68.9	161
Max	2,170	2,950	1,130	2,020	1,340	1,260	669	1,300	630	581	452	785
Min	171	126	200	193	169	164	96	80	24	15	17	33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	111	219	360	391	459	614	513	368	224	118	101	101
Max	689	785	929	998	1,210	1,305	1,007	779	997	344	667	683
(WY)	(1955)	(1986)	(2009)	(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)

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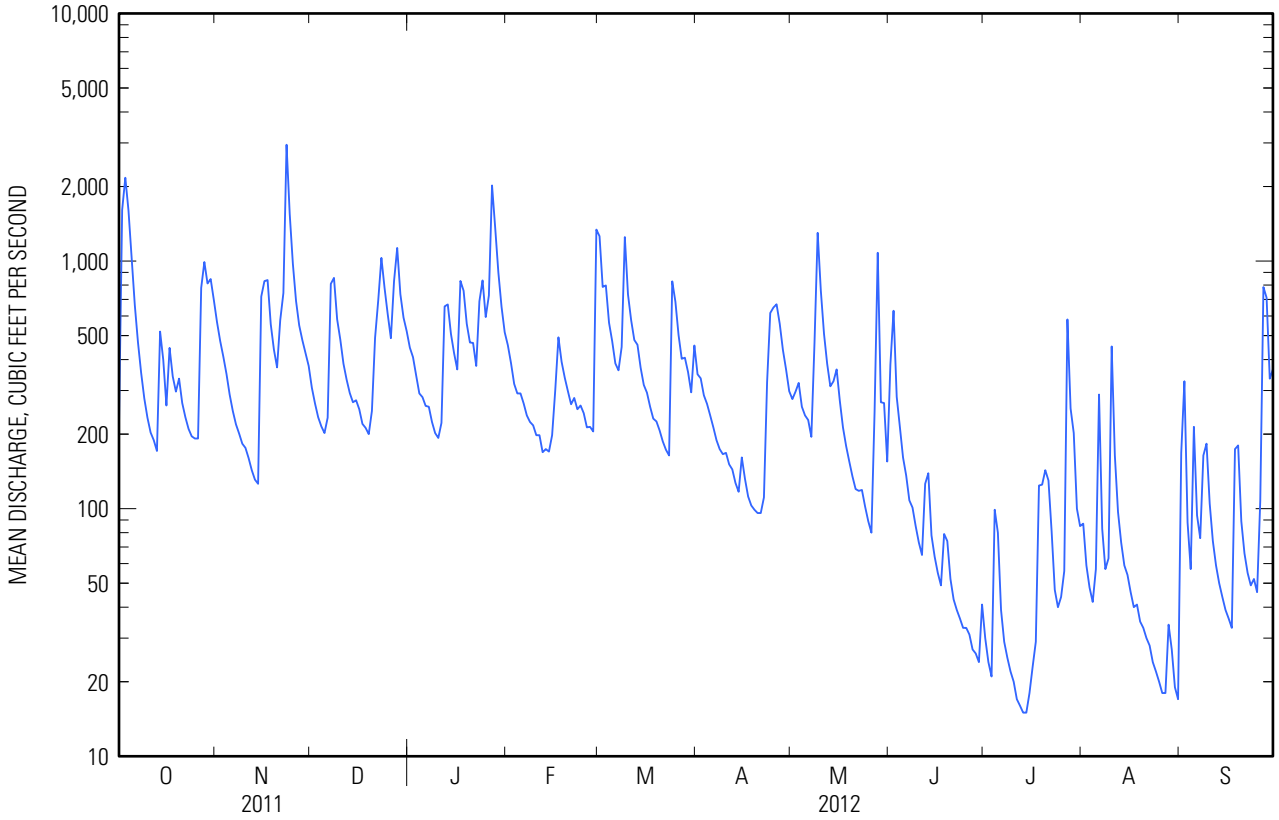
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1940 - 2012	
Annual total	158,817		120,438			
Annual mean	435		329		297	
Highest annual mean					488	2004
Lowest annual mean					160	1954
Highest daily mean	3,750	Sep 7	2,950	Nov 23	14,200	Jun 23, 1972
Lowest daily mean	17	Jul 17[a]	15	Jul 13[b]	0.20	Oct 23, 1953
Annual seven-day minimum	24	Jul 12	18	Jul 9	0.63	Oct 19, 1953
Maximum peak flow			4,050	Nov 23	[c]29,700	Oct 15, 1954
Maximum peak stage			7.81	Nov 23	[d]15.80	Oct 15, 1954
Instantaneous low flow			14	Jul 13	0.10	Sep 4, 1953
10 percent exceeds	955		737		696	
50 percent exceeds	276		233		160	
90 percent exceeds	51		38		21	

[a] Also Jul 18.
[b] Also Jul 14.
[c] From rating curve extended above 17,500 ft³/s on basis of slope-area measurement, at gage height 15.80 ft.
[d] Present datum, from outside floodmarks.