Water-Data Report 2013

01468500 SCHUYLKILL RIVER AT LANDINGVILLE, PA

Lower Delaware Basin
Schuylkill Subbasin

LOCATION.--Lat 40°37′45″, long 76°07′30″ referenced to North American Datum of 1927, Schuylkill County, PA, Hydrologic Unit 02040203, on left bank 10 ft upstream from highway bridge on SR 2011 at Landingville, 0.1 mi upstream from Mahannon Creek, and 5.0 mi downstream from West Branch Schuylkill River.

DRAINAGE AREA.--133 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1947 to April 1953, October 1963 to September 1965, August 1973 to current year.

REVISED RECORDS.--WDR PA-75-1: 1973(P), 1974(P).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 470.64 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 27, 1947, nonrecording gage 10 ft downstream at same datum. Satellite and landline telemetry at station.

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

REMARKS.--Records good except those above 1,000 ft^3/s, which are fair, and those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1972 reached a stage of 17.36 ft, discharge, about 14,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 30	1330	1,690	6.83
Dec 21	0900	*2,040	*7.58
Jan 31	0500	1,480	6.37
Mar 12	1430	1,490	6.39
Jul 1	1900	1,670	6.79

Minimum discharge, 73 ft^3/s, Sept. 17, 19, gage height, 2.89 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	122	864	141	279	737	249	265	201	185	911	148	102
2	188	673	139	260	593	240	230	184	173	912	136	108
3	178	562	137	241	528	234	216	178	167	657	153	94
4	175	482	140	227	464	225	211	174	157	543	138	88
5	164	430	128	216	418	222	203	168	147	460	120	88
6	140	380	126	210	377	220	196	165	157	396	117	90
7	129	346	137	203	343	207	195	159	221	360	118	90
8	123	318	147	193	321	199	186	416	215	333	184	87
9	115	291	139	183	313	193	179	459	167	314	469	89
10	119	275	194	173	283	180	171	378	190	295	285	91
11	111	258	216	191	293	176	196	447	364	274	226	89
12	103	242	181	236	280	735	248	387	216	248	270	105
13	103	435	178	235	269	707	213	352	307	313	295	120
14	103	312	187	260	256	558	187	335	272	244	230	86
15	139	279	182	267	246	481	181	324	216	213	202	84
16	121	261	181	298	257	444	173	307	204	193	180	85
17	107	246	179	292	230	399	177	276	190	179	166	77
18	106	234	240	283	215	364	167	257	179	165	159	76
19	490	226	197	276	215	409	202	248	174	162	150	76
20	343	219	187	274	209	393	307	242	162	154	141	81
21	260	215	1,360	263	190	357	221	230	155	148	134	103
22	224	206	892	240	186	337	217	218	142	170	133	164
23	209	198	653	e230	190	314	217	214	140	248	130	88
24	194	182	546	227	191	303	219	374	136	152	116	82
25	178	177	488	218	181	309	240	260	131	138	112	81
26	170	170	439	215	177	296	211	238	135	129	110	81
27	174	177	421	205	298	278	202	227	223	142	109	79
28	195	169	367	207	275	260	197	241	414	205	151	78
29	701	156	348	213	---	248	218	234	389	227	115	78
30	1,600	145	319	294	---	241	234	211	435	135	106	78
31	1,240	---	294	1,090	---	246	---	199	---	130	102	---
Total	8,324	9,128	9,483	8,199	8,535	10,024	6,279	8,303	6,363	9,150	5,205	2,718
Mean	269	304	306	264	305	323	209	268	212	295	168	90.6
Max	1,600	864	1,360	1,090	737	735	307	459	435	912	469	164
Min	103	145	126	173	177	176	167	159	131	129	102	76
Cfsm	2.02	2.29	2.30	1.99	2.29	2.43	1.57	2.01	1.59	2.22	1.26	0.68
In.	2.33	2.55	2.65	2.29	2.39	2.80	1.76	2.32	1.78	2.56	1.46	0.76

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF DAILY RECORD, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	193	268	360	332	309	439	414	342	254	174	147	176
Max	760	571	918	887	620	929	1,079	811	1,002	471	455	998
(WY)	(1977)	(2007)	(1997)	(1979)	(1981)	(1977)	(1993)	(1989)	(2003)	(1984)	(2004)	(2011)
Min	28.5	52.5	59.7	41.2	113	138	127	127	77.1	54.2	51.4	55.6
(WY)	(1964)	(1965)	(1999)	(1981)	(2002)	(2006)	(2012)	(1965)	(1965)	(1965)	(2002)	(1964)

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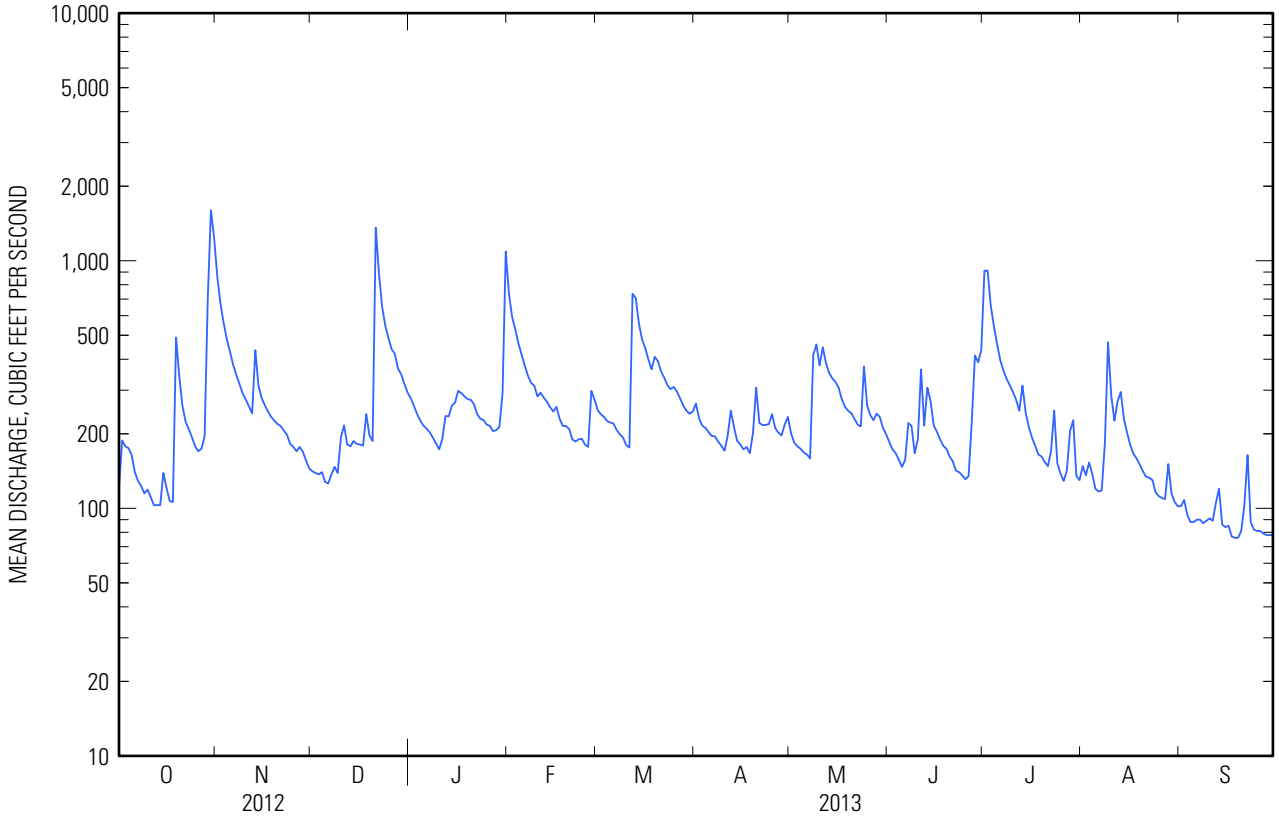
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		For Period of Daily Record	
Annual total	91,857		91,711			
Annual mean	251		251		282	
Highest annual mean					441	1952
Lowest annual mean					122	1965
Highest daily mean	1,600	Oct 30	1,600	Oct 30	9,650	Jun 28, 2006
Lowest daily mean	79	Sep 1	76	Sep 18[a]	21	Nov 4, 1963
Annual seven-day minimum	88	Aug 27	80	Sep 24	23	Oct 25, 1963
Maximum peak flow			2,040	Dec 21	[b]13,300	Jun 28, 2006
Maximum peak stage			7.58	Dec 21	[c]17.20	Jun 28, 2006
Instantaneous low flow			73	Sep 17[a]	19	Oct 30, 1963
Annual runoff (cfsm)	1.89		1.89		2.12	
Annual runoff (inches)	25.69		25.65		28.82	
10 percent exceeds	480		419		555	
50 percent exceeds	178		211		199	
90 percent exceeds	106		110		78	

[a] Also Sep 19.
[b] From rating curve extended above 7,600 ft³/s, on the basis of flow-over-dam indirect measurement of peak flow at gage height 17.20 ft.
[c] Highwater mark in gage.