03038000 CROOKED CREEK AT IDAHO, PA

Allegheny Basin
Middle Allegheny-Redbank Subbasin

LOCATION.--Lat 40°39′17″, long 79°20′56″ referenced to North American Datum of 1927, Armstrong County, PA, Hydrologic Unit 05010006, on right bank at downstream end of old bridge abutment at Idaho, 0.4 mi downstream from Keystone Generation Station, 1.5 mi downstream from Plum Creek, 1.8 mi upstream of bridge on SR 210, and 2.4 mi west of Shelocta.

DRAINAGE AREA.--191 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1937 to current year. Monthly discharge only for some periods published in WSP 1305.

REVISED RECORDS.--WSP 1385: 1938, 1945.

GAGE.--Water-stage recorder and concrete weir control. Datum of gage is 961.04 ft above National Geodetic Vertical Datum of 1929 (Baltimore and Ohio Railroad bench mark). Satellite 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, Pittsburgh District, the Pennsylvania Department of Environmental Protection, and the U.S. Geological Survey through the Cooperative Water Program.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated to some extent since March 1968 by Keystone Lake 7 mi upstream, usable capacity, 22,010 acre-ft. Consumptive water use as a result of evaporation from operation of steam-electric plant 0.4 mi upstream, which began during July 1967, can amount to as much as 30 ft^3/s. Several measurements of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar 1936 reached a stage of 18.6 ft, from floodmark, discharge, about 19,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 30	0845	*4,280	*8.65
Dec 18	0315	2,680	6.64
Dec 21	0615	2,860	6.87
Jan 31	0815	3,480	7.65
Jun 29	0715	3,140	7.23
Jul 2	0730	3,710	7.94

Minimum discharge, 26 ft^3/s, Oct. 17, May 25, gage height, 2.44 ft.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 03038000, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/03038000.2013.pdf

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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	80	1,580	42	229	1,400	632	296	102	45	489	60	96
2	71	1,010	49	212	737	490	238	82	53	3,000	55	85
3	81	602	55	167	540	393	195	74	44	1,640	73	77
4	56	409	51	186	410	324	158	69	49	759	80	67
5	64	301	99	162	344	268	149	57	46	532	51	57
6	54	229	93	163	293	271	123	53	59	338	47	50
7	48	184	187	160	234	278	111	52	111	239	55	50
8	40	150	1,320	146	251	276	105	59	64	169	249	51
9	35	124	774	148	275	238	96	51	61	122	509	52
10	33	117	847	180	210	223	90	45	89	259	614	64
11	36	101	1,410	423	368	209	783	116	122	886	253	55
12	33	92	768	1,390	451	374	1,210	117	67	371	139	68
13	36	127	487	1,340	356	369	1,140	73	1,390	245	634	74
14	36	99	353	1,030	339	331	686	56	564	162	391	64
15	38	82	278	676	305	295	474	51	247	110	215	53
16	38	76	237	566	264	309	371	47	157	86	149	50
17	37	66	431	488	222	325	560	42	124	71	117	48
18	43	61	2,050	378	161	285	379	39	80	66	88	48
19	90	59	945	319	236	357	328	46	71	71	85	52
20	64	61	742	316	234	366	303	52	58	65	80	51
21	47	56	2,350	260	171	326	234	43	55	69	57	162
22	44	55	1,270	e180	150	290	189	51	53	150	84	350
23	40	50	766	e160	156	254	162	52	56	561	78	125
24	38	46	553	e170	151	212	159	57	54	182	65	85
25	34	47	452	e130	127	224	174	38	56	112	57	75
26	31	43	385	e150	157	254	131	35	554	82	53	65
27	42	50	375	e130	670	334	112	39	739	87	46	59
28	41	46	297	e220	714	336	112	57	1,110	281	564	57
29	427	49	289	1,040	---	330	127	53	2,390	139	575	56
30	3,970	42	260	983	---	304	131	50	1,030	89	215	50
31	1,790	---	228	3,000	---	293	---	47	---	67	127	---
Total	7,517	6,014	18,443	15,102	9,926	9,770	9,326	1,805	9,598	11,499	5,865	2,296
Mean	242	200	595	487	354	315	311	58.2	320	371	189	76.5
Max	3,970	1,580	2,350	3,000	1,400	632	1,210	117	2,390	3,000	634	350
Min	31	42	42	130	127	209	90	35	44	65	46	48
Cfsm	1.27	1.05	3.11	2.55	1.86	1.65	1.63	0.30	1.68	1.94	0.99	0.40
In.	1.46	1.17	3.59	2.94	1.93	1.90	1.82	0.35	1.87	2.24	1.14	0.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	127	224	363	393	472	588	454	296	195	133	103	107
Max	839	820	827	1,180	1,260	1,340	1,052	746	1,072	987	549	1,081
(WY)	(1955)	(1986)	(1991)	(2005)	(1956)	(1994)	(1940)	(1989)	(1972)	(1956)	(1984)	(2004)
Min	7.15	23.8	33.5	49.9	120	83.9	85.1	38.0	25.3	13.9	11.3	6.07
(WY)	(1953)	(1954)	(1961)	(2011)	(1980)	(1969)	(1946)	(1941)	(1949)	(1962)	(1942)	(1952)

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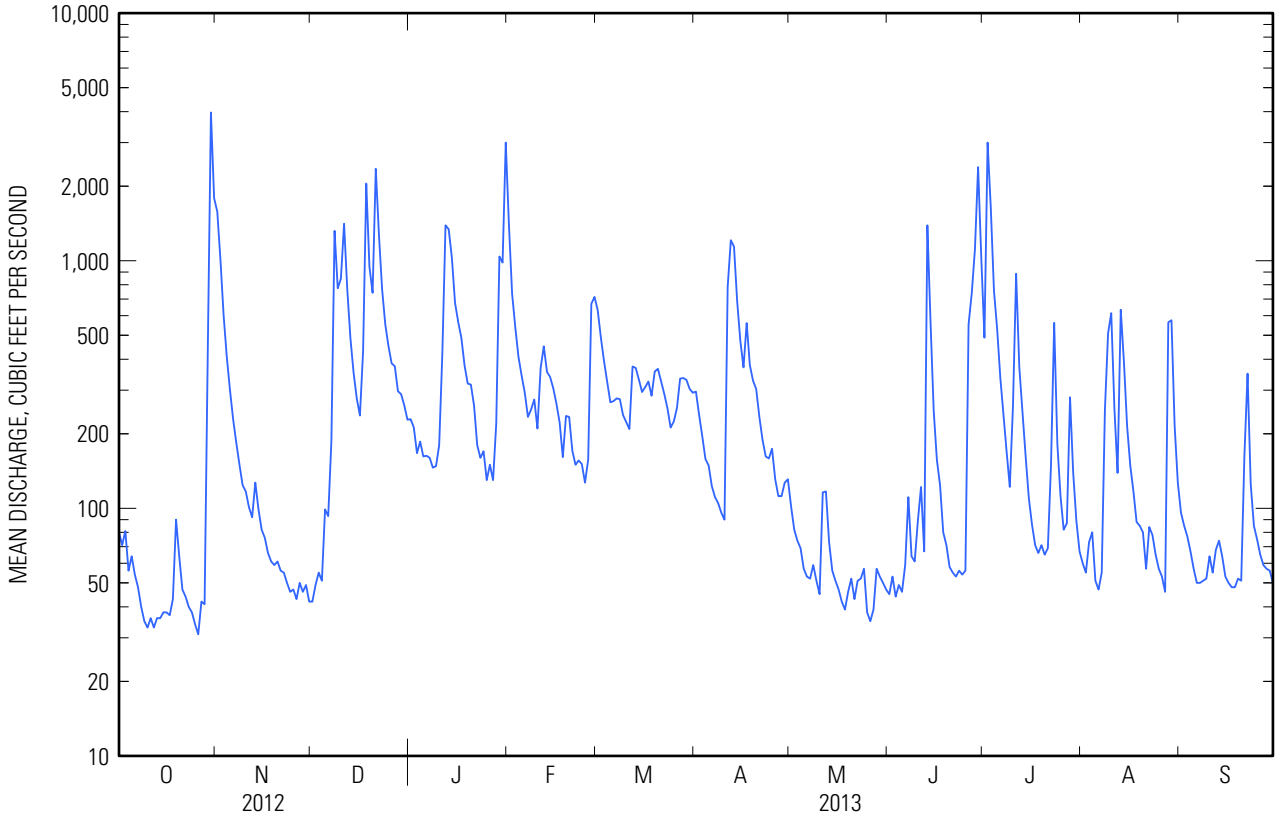
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1938 - 2013	
Annual total	106,104		107,161			
Annual mean	290		294		287	
Highest annual mean					519	2004
Lowest annual mean					148	1992
Highest daily mean	3,970	Oct 30	3,970	Oct 30	17,900	Sep 18, 2004
Lowest daily mean	31	Oct 26	31	Oct 26	[a]1.0	Oct 22, 1966
Annual seven-day minimum	35	Oct 9	35	Oct 9	4.1	Sep 19, 1939
Maximum peak flow			4,280	Oct 30	[b]26,400	Sep 18, 2004
Maximum peak stage			8.65	Oct 30	19.29	Sep 18, 2004
Instantaneous low flow			26	Oct 17[c]	2.4	Oct 8, 1939
Annual runoff (cfsm)	1.52		1.54		1.50	
Annual runoff (inches)	20.67		20.87		20.42	
10 percent exceeds	682		697		680	
50 percent exceeds	120		139		128	
90 percent exceeds	41		47		26	

[a] Minimum unaffected by pumping. Minimum affected by pumping, 2.8 ft³/s, Oct 8, 1939.
[b] From rating curve extended above 18,700 ft³/s based on straight-line extension.
[c] Also May 25.