Water-Data Report 2010

03042000 BLACKLICK CREEK AT JOSEPHINE, PA

Allegheny Basin
Conemaugh Subbasin

LOCATION.--Lat 40°28′37″, long 79°11′13″ referenced to North American Datum of 1927, Indiana County, PA, Hydrologic Unit 05010007, on left bank on downstream side of Josephine bridge on Old Indiana Road, 0.5 mi upstream from Two Lick Creek, and 5 mi northeast of Blairsville.

DRAINAGE AREA.--193 mi^2, Revised.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1952 to current year.

REVISED RECORDS.--WSP 1385: 1952-54 (M). WDR PA-78-3: 1977 (M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 954.46 ft above North American Vertical Datum of 1988. Prior to October 1, 2009, gage located 0.4 miles upstream at datum 21.36 feet higher. Prior to Aug 25, 1953, non-recording gage at same site and datum. Satellite telemetry at station.

COOPERATION.--Station established and maintained by the U.S. Geological Survey in cooperation with the U.S. Army Corps of Engineers, Pittsburgh District and the Pennsylvania Department of Environmental Protection.

REMARKS.—Records fair, except those for estimated daily discharges, which are poor. Some regulation at low flow by mine pumpage above station. Several measurements of water temperature were made during the year. Prior to October 2009, station was located at lat 40°28′24″ long 79°11′01″.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,700 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 5	0330	Ice Jam	8.31
Jan 9	0900	Ice Jam	7.85
Jan 17	1730	Ice Jam	8.44
Jan 18	0030	Ice Jam	6.76
Jan 25	1415	5,470	8.13
Mar 12	2145	6,400	8.50
Mar 14	0500	*7,310	*8.83

Minimum discharge, 22 ft^3/s, Sept. 15, 16, gage height, 2.70 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	129	248	183	e270	e488	e256	519	218	190	86	85	37
2	95	216	168	e245	e457	e236	449	205	193	75	74	36
3	111	195	348	e245	e430	e232	394	284	166	74	65	35
4	106	177	375	e245	e383	e229	342	373	154	63	68	36
5	83	167	294	e245	e356	e225	301	260	227	59	89	30
6	68	162	264	e243	e341	e221	280	243	245	56	99	27
7	63	150	234	e245	e321	e225	261	220	204	54	82	26
8	56	140	219	e242	e318	e271	244	369	162	50	60	25
9	71	131	666	e243	e302	e364	300	402	337	60	48	24
10	202	123	937	e245	e290	e584	257	303	824	185	42	23
11	200	118	507	e248	e287	1,330	220	293	409	114	38	24
12	133	113	386	e251	e294	4,460	201	962	289	79	64	25
13	106	105	439	e279	e287	5,330	189	674	239	68	73	26
14	91	102	776	e299	e267	5,020	181	526	210	135	56	25
15	99	99	828	e308	e256	2,470	170	506	196	138	43	23
16	218	95	809	e344	e256	1,680	168	396	175	115	41	35
17	217	90	569	e1,500	e259	1,350	254	388	156	262	36	86
18	214	86	463	1,240	e252	1,090	227	699	139	156	44	66
19	198	96	419	847	e244	917	197	557	127	174	41	46
20	169	244	365	648	e240	799	181	444	212	190	41	38
21	151	192	318	513	e232	695	171	364	157	201	36	35
22	137	150	284	442	e232	634	163	359	136	172	75	38
23	128	134	e219	384	e244	645	153	452	143	120	105	50
24	348	135	e189	385	e248	747	146	339	144	104	86	38
25	450	149	e242	3,550	e248	576	159	286	134	299	71	32
26	282	142	574	e2,350	e236	806	259	246	111	429	59	32
27	230	136	661	1,400	e244	665	499	216	99	208	50	34
28	283	136	481	1,020	e256	608	352	194	101	144	44	46
29	365	129	390	e708	---	1,000	276	211	112	158	42	63
30	286	144	e305	e598	---	748	240	191	98	137	40	402
31	254	---	e284	e513	---	609	---	157	---	101	38	---
Total	5,543	4,304	13,196	20,295	8,268	35,022	7,753	11,337	6,089	4,266	1,835	1,463
Mean	179	143	426	655	295	1,130	258	366	203	138	59.2	48.8
Max	450	248	937	3,550	488	5,330	519	962	824	429	105	402
Min	56	86	168	242	232	221	146	157	98	50	36	23
Cfsm	0.93	0.74	2.21	3.39	1.53	5.85	1.34	1.89	1.05	0.71	0.31	0.25
In.	1.07	0.83	2.54	3.91	1.59	6.75	1.49	2.19	1.17	0.82	0.35	0.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	169	299	436	452	537	762	583	409	251	196	159	148
Max	812	1,113	1,056	1,109	1,202	1,615	1,086	1,009	1,376	1,114	587	595
(WY)	(1977)	(1998)	(2009)	(2005)	(1956)	(1967)	(1993)	(1978)	(1972)	(1977)	(2007)	(1996)
Min	30.8	33.5	68.4	135	124	219	236	84.8	65.6	43.5	37.1	28.7
(WY)	(1953)	(1954)	(1961)	(1956)	(1987)	(1969)	(1997)	(1986)	(1965)	(1965)	(1962)	(1998)

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SUMMARY STATISTICS

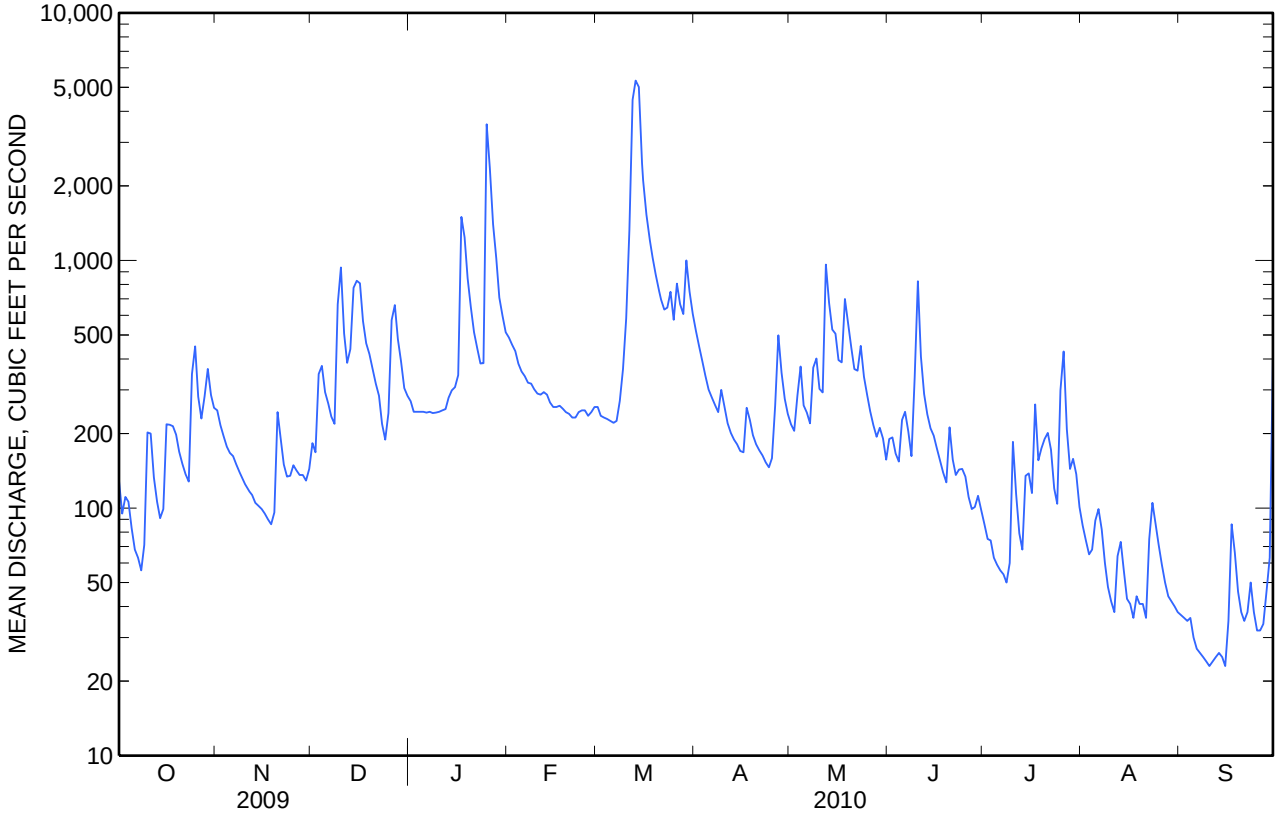
	Calendar Year 2009		Water Year 2010		Water Years 1953 - 2010	
Annual total	101,303		119,371			
Annual mean	278		327		366	
Highest annual mean					587	2004
Lowest annual mean					242	1954
Highest daily mean	2,530	Feb 12	5,330	Mar 13	22,800	Jul 20, 1977
Lowest daily mean	[a]25	Sep 21	23	Sep 10 [b]	[a]15	Oct 13, 1995
Annual seven-day minimum	[c]28	Sep 17	24	Sep 9	20	Sep 20, 2005
Maximum peak flow			7,310	Mar 14	[d]45,700	Jul 20, 1977
Maximum peak stage			8.83	Mar 14	[e]19.89	Jul 20, 1977
Instantaneous low flow			22	Sep 15[f]	15	Oct 13, 1995
Annual runoff (cfsm)	1.44		1.69		1.90	
Annual runoff (inches)	19.53		23.01		25.76	
10 percent exceeds	470		638		795	
50 percent exceeds	238		218		210	
90 percent exceeds	91		45		52	

[a] Estimated.

[b] Also Sep 15.

[c] Computed using estimated daily discharges.

[d] From rating curve extended above 16,000 ft³/s on basis of contracted-opening measurement at gage height 11.35 ft in gage well, 12.67 ft from outside floodmark and slope-area measurement at gage height 10.93 ft.

[e] From floodmark in gage well.

[f] Also Sep 16.