

CROOKED CREEK BASIN

03038000 CROOKED CREEK AT IDAHO, PA

LOCATION.--Lat 40°39'17", long 79°20'56", Armstrong County, 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 Shelocla.

DRAINAGE AREA.--191 mi².

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).

REMARKS.--No estimated daily discharges. Records good. Flow regulated to some extent since March 1968 by Keystone Lake 7 mi upstream, usable capacity, 22,010 acre-ft. Evaporation from operation of steam-electric plant 0.4 mi upstream, which began during July 1967, can amount to as much as 30 ft³/s. 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.--Flood of March 1936 reached a stage of 18.6 ft, from floodmark, discharge, about 19,000 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 2,500 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Mar. 27	0330	*3,640	*7.85	June 6	2330	2,660	6.63
May 14	0230	2,700	6.68				

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	27	127	53	673	108	395	274	390	24	33	27
2	30	23	75	44	531	119	331	602	230	28	31	30
3	34	26	48	36	393	330	299	527	162	37	34	25
4	38	39	34	38	316	346	257	376	122	27	35	38
5	46	35	24	34	231	269	225	306	108	23	40	49
6	33	27	20	35	199	251	209	242	979	27	94	37
7	31	23	20	40	169	217	180	213	1770	27	42	36
8	31	23	17	36	153	182	166	206	675	22	29	34
9	35	25	42	34	131	158	157	398	416	27	25	32
10	35	24	36	63	132	152	152	817	293	50	29	34
11	25	24	23	186	594	124	126	450	222	31	26	29
12	23	19	33	258	463	119	111	376	169	22	25	36
13	20	19	33	227	361	113	122	1320	140	24	29	32
14	24	17	50	170	273	105	185	2360	177	24	24	29
15	28	19	81	155	239	94	339	1400	261	20	25	28
16	33	23	64	136	213	486	1340	784	235	23	24	37
17	25	26	663	120	190	402	644	549	170	22	28	39
18	19	25	1850	108	149	366	411	1680	126	26	29	32
19	23	23	648	92	130	310	313	1210	94	30	26	37
20	17	24	365	85	128	686	259	744	68	30	28	35
21	21	24	242	87	205	1090	224	522	52	30	27	31
22	22	24	171	92	196	650	223	405	41	26	28	31
23	26	20	140	99	173	470	180	322	32	28	34	32
24	82	18	205	218	152	370	146	267	27	31	46	35
25	43	49	161	352	145	327	137	227	50	28	58	29
26	36	113	128	265	149	1370	131	196	37	25	37	31
27	29	45	112	218	149	2730	117	160	32	37	29	90
28	23	46	100	183	126	1050	182	163	61	39	27	142
29	21	137	86	163	---	624	300	306	49	23	27	45
30	27	105	53	277	---	548	246	190	32	37	28	36
31	28	---	60	589	---	422	---	191	---	42	27	---
TOTAL	938	1072	5711	4493	6963	14588	8107	17783	7220	890	1024	1178
MEAN	30.3	35.7	184	145	249	471	270	574	241	28.7	33.0	39.3
MAX	82	137	1850	589	673	2730	1340	2360	1770	50	94	142
MIN	17	17	17	34	126	94	111	160	27	20	24	25
CFSM	0.16	0.19	0.96	0.76	1.30	2.46	1.41	3.00	1.26	0.15	0.17	0.21
IN.	0.18	0.21	1.11	0.88	1.36	2.84	1.58	3.46	1.41	0.17	0.20	0.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2002, BY WATER YEAR (WY)

MEAN	122	219	352	376	488	586	467	306	196	130	95.1	88.1
MAX	839	820	827	1000	1260	1340	1052	746	1072	987	549	497
(WY)	1955	1986	1991	1952	1956	1994	1940	1989	1972	1956	1984	1945
MIN	7.15	23.8	33.5	59.7	120	83.9	85.1	38.0	25.3	13.9	11.3	6.07
(WY)	1953	1954	1961	1977	1980	1969	1946	1941	1949	1962	1942	1952

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1938 - 2002	
ANNUAL TOTAL	57118		69967			
ANNUAL MEAN	156		192		284	
HIGHEST ANNUAL MEAN					511	1956
LOWEST ANNUAL MEAN					148	1992
HIGHEST DAILY MEAN	2320	Jan 31	2730	Mar 27	9800	Jun 23 1972
LOWEST DAILY MEAN	17	Oct 20 ^a	17	Oct 20 ^a	b 1.0	Oct 22 1966
ANNUAL SEVEN-DAY MINIMUM	21	Nov 10	21	Nov 10	4.1	Sep 19 1939
MAXIMUM PEAK FLOW			3640	Mar 27	c 13200	Jun 23 1972
MAXIMUM PEAK STAGE			7.85	Mar 27	15.93	Jun 23 1972
INSTANTANEOUS LOW FLOW			11	Oct 20	4.6	Nov 1 1968
ANNUAL RUNOFF (CFSM)	0.82		1.00		1.49	
ANNUAL RUNOFF (INCHES)	11.12		13.63		20.23	
10 PERCENT EXCEEDS	401		433		684	
50 PERCENT EXCEEDS	50		75		125	
90 PERCENT EXCEEDS	26		24		24	

- a** Also Nov. 14, Dec. 8.
- b** Result of upstream pumping.
- c** From rating curve extended above 12,800 ft³/s.

