

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 sea level (Baltimore and Ohio Railroad bench mark).

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. 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)
Jan. 31	0430	*2,730	*6.72	Apr. 16	0900	2,690	6.67

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	42	174	e54	1260	115	186	131	52	264	32	54
2	42	37	155	e56	681	114	169	123	291	366	36	29
3	27	34	113	e53	458	100	150	108	610	144	34	26
4	35	33	86	e52	357	105	138	85	397	91	37	32
5	41	31	103	e51	320	135	119	75	267	73	37	31
6	620	30	72	e50	313	109	229	64	199	70	33	32
7	294	27	71	49	314	109	396	53	170	43	35	33
8	185	26	68	49	292	99	394	46	125	40	33	30
9	141	28	57	41	370	121	421	51	95	42	33	31
10	126	55	45	36	458	120	776	45	74	33	38	36
11	117	148	63	40	341	120	593	40	57	42	39	30
12	94	98	351	41	276	133	485	87	47	39	37	34
13	74	82	243	e44	248	550	386	73	36	34	32	32
14	62	76	341	e42	249	857	316	50	35	35	35	39
15	60	70	328	e40	641	658	335	41	31	33	35	41
16	63	60	322	e46	610	544	2250	54	50	37	36	35
17	76	56	874	e60	703	602	1640	57	102	34	39	32
18	580	48	642	e70	494	493	1000	55	41	32	40	28
19	319	41	436	e86	390	402	637	54	30	35	40	27
20	202	36	312	e105	342	342	510	55	31	31	59	23
21	147	36	234	e85	297	450	547	72	35	35	46	31
22	110	28	205	e70	225	1040	474	189	93	34	39	35
23	83	33	e100	e70	220	680	405	144	144	33	37	35
24	70	32	e110	e80	181	507	359	95	120	31	35	36
25	64	31	e93	e70	182	391	304	113	55	38	32	40
26	56	78	e82	e62	173	321	256	100	35	39	33	31
27	49	121	e78	e70	139	263	227	78	37	39	32	27
28	57	132	e75	e62	128	229	196	77	38	35	38	38
29	51	117	e70	e53	---	203	159	58	34	37	40	31
30	39	191	e65	e400	---	227	136	53	45	34	32	35
31	34	---	e60	2320	---	213	---	41	---	33	36	---
TOTAL	3967	1857	6028	4407	10662	10352	14193	2367	3376	1906	1140	994
MEAN	128	61.9	194	142	381	334	473	76.4	113	61.5	36.8	33.1
MAX	620	191	874	2320	1260	1040	2250	189	610	366	59	54
MIN	27	26	45	36	128	99	119	40	30	31	32	23
CFSM	.67	.32	1.02	.74	1.99	1.75	2.48	.40	.59	.32	.19	.17
IN.	.77	.36	1.17	.86	2.08	2.02	2.76	.46	.66	.37	.22	.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2001, BY WATER YEAR (WY)

MEAN	123	222	355	379	492	588	470	302	196	132	96.1	88.9
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	1.20	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

e Estimated.

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1938 - 2001	
ANNUAL TOTAL	66640		61249			
ANNUAL MEAN	182		168		286	
HIGHEST ANNUAL MEAN					511	1956
LOWEST ANNUAL MEAN					148	1992
HIGHEST DAILY MEAN	2420	Feb 14	2320	Jan 31	9800	Jun 23 1972
LOWEST DAILY MEAN	e 20	Feb 1	23	Sep 20	a 1.0	Oct 22 1966
ANNUAL SEVEN-DAY MINIMUM	b 26	Feb 3	30	Nov 3	4.1	Sep 19 1939
MAXIMUM PEAK FLOW			2730	Jan 31	c 13200	Jun 23 1972
MAXIMUM PEAK STAGE			6.72	Jan 31	15.93	Jun 23 1972
INSTANTANEOUS LOW FLOW			13	Nov 22	4.6	Nov 1 1968
ANNUAL RUNOFF (CFSM)	.95		.88		1.50	
ANNUAL RUNOFF (INCHES)	12.98		11.93		20.33	
10 PERCENT EXCEEDS	426		411		686	
50 PERCENT EXCEEDS	81		70		126	
90 PERCENT EXCEEDS	33		32		24	

- a** Result of upstream pumping.
- b** Computed using estimated daily discharges.
- c** From rating curve extended above 12,800 ft³/s.
- e** Estimated.

