

KISKIMINETAS RIVER BASIN

03042500 TWO LICK CREEK AT GRACETON, PA

LOCATION.--Lat 40°31'02", long 79°10'19", Indiana County, Hydrologic Unit 05010007, on right bank 0.8 mi upstream from highway bridge on road leading west from Graceton, 1.1 mi downstream from Tearing Run, 1.5 mi upstream from Cherry Run, and 8 mi northeast of Blairsville.

DRAINAGE AREA.--171 mi².

PERIOD OF RECORD.--September 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 981.63 ft above sea level.

REVISED RECORDS.--WDR PA-78-3: 1977 (M).

REMARKS.--Records good except those for estimated daily discharges, which are poor. Diurnal fluctuation caused by mine pumpage and by sewage-disposal plant above station. Flow regulated since December 1968 by Two Lick Creek Reservoir 10 mi upstream, capacity, 16,240 acre-ft and since July 1971 by Yellow Creek Lake (station 03042260) 11 mi upstream. Several measurements of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemetry at station.

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	87	101	259	e115	1070	163	188	144	129	388	43	77
2	82	92	217	e110	785	157	169	138	345	340	43	53
3	77	89	169	e100	563	151	139	131	441	160	43	55
4	73	79	158	e100	479	159	139	116	323	113	49	56
5	86	76	167	e100	403	164	140	109	254	124	51	55
6	277	73	172	e100	357	152	234	90	203	114	44	54
7	348	71	167	e100	340	146	393	79	171	100	42	53
8	109	70	167	101	306	155	379	76	154	103	42	58
9	111	73	137	96	353	167	453	79	128	91	49	59
10	168	139	129	114	761	166	588	73	109	81	78	63
11	177	241	134	118	594	165	591	73	102	76	56	59
12	136	234	340	114	521	167	523	96	92	68	53	59
13	90	193	321	111	470	362	413	96	88	61	51	60
14	83	203	375	109	471	578	343	92	77	57	50	71
15	81	197	354	117	842	585	379	72	66	53	51	47
16	103	188	302	130	942	572	1320	65	62	52	64	42
17	169	182	603	127	945	639	1070	63	62	55	100	47
18	1390	140	609	127	645	619	732	60	56	58	62	46
19	731	137	555	e140	549	579	623	60	54	52	70	46
20	474	139	493	e150	496	487	578	57	56	47	69	65
21	306	142	413	e150	429	462	557	114	68	43	59	63
22	254	136	338	e150	300	553	508	237	75	43	59	60
23	223	133	224	e150	277	433	398	310	169	44	61	59
24	202	130	e190	e145	255	389	370	140	134	43	59	92
25	174	131	e170	e145	269	331	297	147	85	46	59	91
26	143	147	e165	e140	235	288	249	145	61	49	57	56
27	132	143	e160	e145	201	267	208	137	57	48	71	60
28	181	151	e150	e135	173	241	203	165	58	44	94	63
29	124	163	e140	e130	---	230	179	111	52	44	73	61
30	114	236	e130	e250	---	246	150	100	106	44	60	59
31	107	---	e125	986	---	194	---	94	---	43	98	---
TOTAL	6812	4229	8033	4805	14031	9967	12513	3469	3837	2684	1860	1789
MEAN	220	141	259	155	501	322	417	112	128	86.6	60.0	59.6
MAX	1390	241	609	986	1070	639	1320	310	441	388	100	92
MIN	73	70	125	96	173	146	139	57	52	43	42	42
(†)	0	-13	-4.2	+28	-50	+25	+14	-6.6	+ .40	-15	-29	-28

† Change in contents, equivalent in cubic feet per second, in Yellow Creek Lake and Two Lick Creek Reservoir. Records of contents in Two Lick Creek Reservoir furnished by Midwest Generation.

e Estimated.

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03042500 TWO LICK CREEK AT GRACETON, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2001, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	151	262	362	349	436	521	424	310	217	178	109	131
MAX (WY)	1977	1998	1973	1996	1986	1994	1984	1978	1972	1977	1977	1996
MIN (WY)	1969	1992	1999	1983	1993	1969	1968	1986	1992	1968	1968	1968

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1968 - 2001

ANNUAL TOTAL	79849		74029			
ANNUAL MEAN	218	† +7.6	203	† -6.3	287	1994
HIGHEST ANNUAL MEAN					375	1969
LOWEST ANNUAL MEAN					178	1969
HIGHEST DAILY MEAN	1780	Mar 22	1390	Oct 18	21900	Jul 20 1977
LOWEST DAILY MEAN	49	Jul 27	42	Aug 7 ^a	11	Sep 30 1968
ANNUAL SEVEN-DAY MINIMUM	55	Jul 21	43	Jul 28	14	Sep 26 1968
MAXIMUM PEAK FLOW			2130	Oct 18	^b 32000	Jul 20 1977
MAXIMUM PEAK STAGE			6.16	Oct 18	^c 18.65	Jul 20 1977
INSTANTANEOUS LOW FLOW			38	Sep 16	11	Sep 30 1968
10 PERCENT EXCEEDS	478		489		599	
50 PERCENT EXCEEDS	138		134		175	
90 PERCENT EXCEEDS	70		54		57	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1967, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	94.7	129	252	373	452	615	491	333	130	105	93.8	63.1
MAX (WY)	1955	1960	1955	1952	1956	1963	1957	1966	1960	1956	1956	1962
MIN (WY)	1964	1954	1961	1956	1963	1957	1963	1955	1965	1962	1957	1952

SUMMARY STATISTICS WATER YEARS 1952 - 1967

ANNUAL MEAN	260	
HIGHEST ANNUAL MEAN	415	1956
LOWEST ANNUAL MEAN	185	1954
HIGHEST DAILY MEAN	6800	Oct 16 1954
LOWEST DAILY MEAN	8.7	Sep 14 1952
ANNUAL SEVEN-DAY MINIMUM	12	Sep 6 1957
MAXIMUM PEAK FLOW	^d 12900	Oct 16 1954
MAXIMUM PEAK STAGE	12.71	Oct 16 1954
INSTANTANEOUS LOW FLOW	2.0	Sep 14,15 1952
ANNUAL RUNOFF (CFSM)	1.52	
ANNUAL RUNOFF (INCHES)	20.67	
10 PERCENT EXCEEDS	644	
50 PERCENT EXCEEDS	120	
90 PERCENT EXCEEDS	21	

† Change in contents, equivalent in cubic feet per second, in Yellow Creek Lake and Two Lick Creek Reservoir. Records of contents in Two Lick Creek Reservoir furnished by Midwest Generation.

- a Also Aug. 8, Sept. 16.
- b From rating curve extended above 4,500 ft³/s on basis of slope-area measurement of peak flow and contracted-opening measurement at gage height 12.71 ft at site 1.6 mi upstream from gage, adjusted to gage site.
- c Backwater, from highwater mark.
- d From rating curve extended above 4,500 ft³/s on basis of contracted-opening measurement of peak flow at site 1.6 mi upstream from gage, adjusted to gage site.

