

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	122	198	129	75	438	168	199	208	94	208	71
2	53	177	191	137	e86	435	219	323	196	78	93	114
3	57	231	186	124	e100	407	213	203	198	91	133	99
4	97	184	182	136	e80	372	1200	166	197	95	227	108
5	64	150	177	194	68	337	1300	138	157	80	130	105
6	57	91	155	181	64	287	772	147	252	74	287	76
7	54	54	138	141	e63	230	615	142	164	66	685	61
8	56	53	133	137	e62	176	588	137	139	62	280	57
9	59	57	131	139	e60	180	518	133	125	58	213	55
10	87	57	166	151	e59	166	459	123	107	63	173	75
11	72	55	231	e180	e64	204	394	102	91	68	135	118
12	60	49	178	e175	e70	224	454	99	103	59	107	95
13	56	49	197	e170	194	187	436	99	159	57	94	125
14	86	49	506	86	631	179	334	94	170	78	88	93
15	66	49	732	91	698	171	298	84	121	140	84	97
16	61	48	422	78	813	179	233	78	103	252	78	97
17	61	47	351	66	530	422	297	70	92	101	74	88
18	57	46	333	e70	411	459	301	67	95	82	69	81
19	86	37	287	e74	775	337	275	191	113	77	65	74
20	99	45	289	e78	512	298	297	195	84	73	61	71
21	167	41	264	e82	366	1560	419	103	210	64	59	92
22	194	38	220	e87	346	1780	716	81	508	59	56	72
23	193	41	182	e93	343	1120	643	146	138	55	66	70
24	192	44	135	96	371	796	585	1020	110	54	111	152
25	188	59	129	87	448	514	490	523	100	52	72	133
26	186	792	134	84	489	400	404	364	118	50	72	150
27	200	350	107	e94	491	417	335	299	123	49	84	123
28	217	212	78	e96	517	354	232	436	116	89	82	119
29	188	198	78	e99	501	296	204	677	108	76	74	130
30	135	210	87	e105	---	198	240	340	117	61	71	113
31	135	---	119	89	---	186	---	255	---	63	70	---
TOTAL	3343	3635	6716	3549	9287	13309	13639	7034	4522	2420	4101	2914
MEAN	108	121	217	114	320	429	455	227	151	78.1	132	97.1
MAX	217	792	732	194	813	1780	1300	1020	508	252	685	152
MIN	53	37	78	66	59	166	168	67	84	49	56	55
(†)	-76	-70	+123	-2.4	+107	+14	-1.5	-2.6	-0.5	-0.5	-2.9	+4.6

† 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 Edison Mission.

e Estimated.

KISKIMINETAS RIVER BASIN

03042500 TWO LICK CREEK AT GRACETON, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2000, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	149	266	365	355	434	527	424	316	219	181	111	133
MAX	466	689	722	745	925	1230	832	658	1091	1161	310	475
(WY)	1977	1998	1973	1996	1986	1994	1984	1978	1972	1977	1977	1996
MIN	21.0	53.2	87.0	106	116	93.9	167	86.2	53.6	30.2	40.0	29.8
(WY)	1969	1992	1999	1983	1993	1969	1968	1986	1992	1968	1968	1968

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1968 - 2000	
ANNUAL TOTAL	78325		74469			
ANNUAL MEAN	215	† +1.1	203	† +7.4	289	
HIGHEST ANNUAL MEAN					375	1994
LOWEST ANNUAL MEAN					178	1969
HIGHEST DAILY MEAN	e4000	Jan 24	1780	Mar 22	21900	Jul 20 1977
LOWEST DAILY MEAN	34	Jul 27	37	Nov 19	11	Sep 30 1968
ANNUAL SEVEN-DAY MINIMUM	42	Nov 18	42	Nov 18	14	Sep 26 1968
INSTANTANEOUS PEAK FLOW			2930	Mar 21	a32000	Jul 20 1977
INSTANTANEOUS PEAK STAGE			7.01	Mar 21	b18.65	Jul 20 1977
INSTANTANEOUS LOW FLOW			37	Nov 19	11	Sep 30 1968
10 PERCENT EXCEEDS	458		450		603	
50 PERCENT EXCEEDS	107		130		178	
90 PERCENT EXCEEDS	50		59		58	

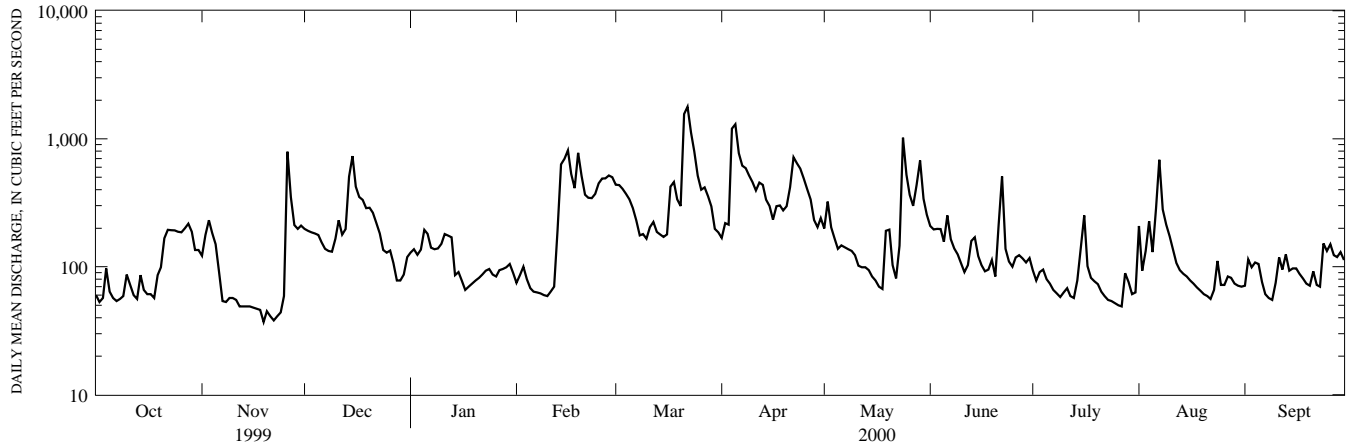
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1967, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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	628	305	635	811	1093	1097	786	634	271	644	377	199
(WY)	1955	1960	1955	1952	1956	1963	1957	1966	1960	1956	1956	1962
MIN	14.2	23.6	50.1	118	176	234	236	99.7	42.3	25.2	16.9	15.9
(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
LOWEST DAILY MEAN	8.7 Oct 16 1954
ANNUAL SEVEN-DAY MINIMUM	12 Sep 6 1957
INSTANTANEOUS PEAK FLOW	c12900 Oct 16 1954
INSTANTANEOUS 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 Edison Mission.
- a 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.
- b Backwater, from highwater mark.
- c 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.
- e Estimated.



1-YEAR HYDROGRAPH
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000