



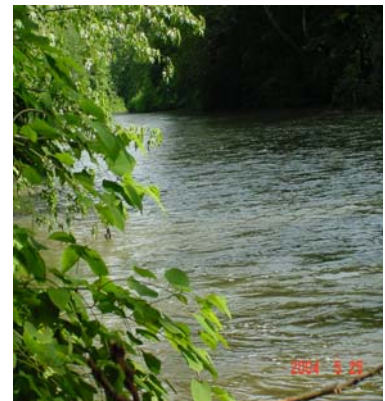
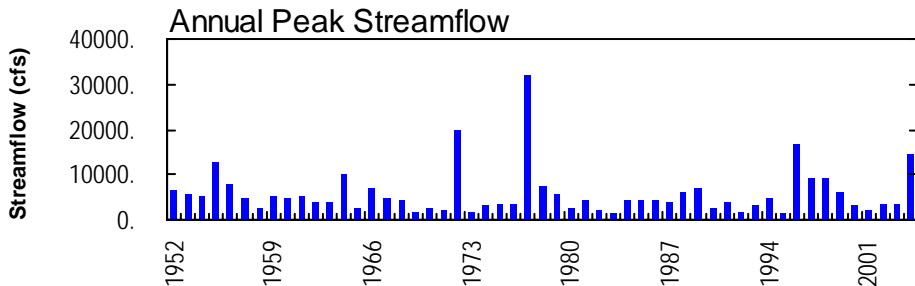
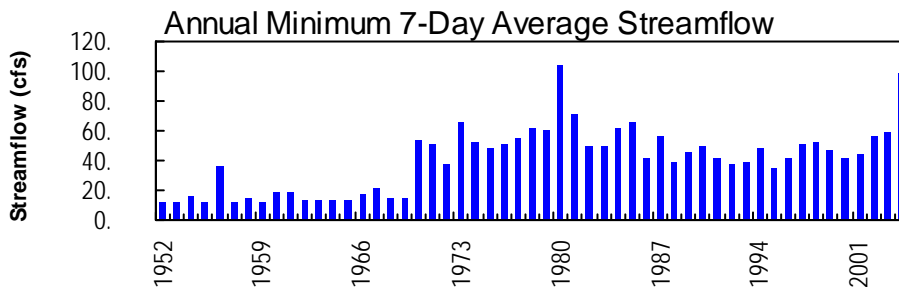
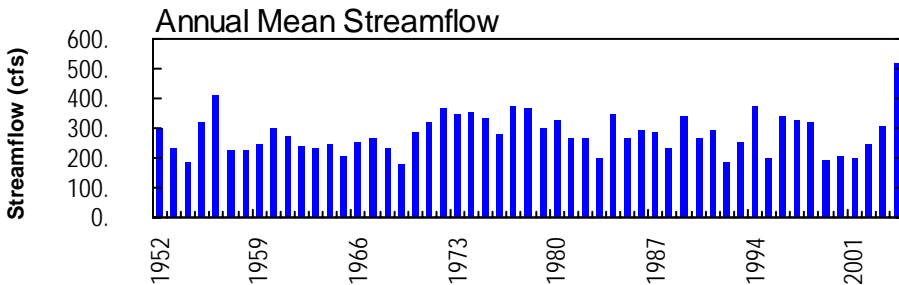
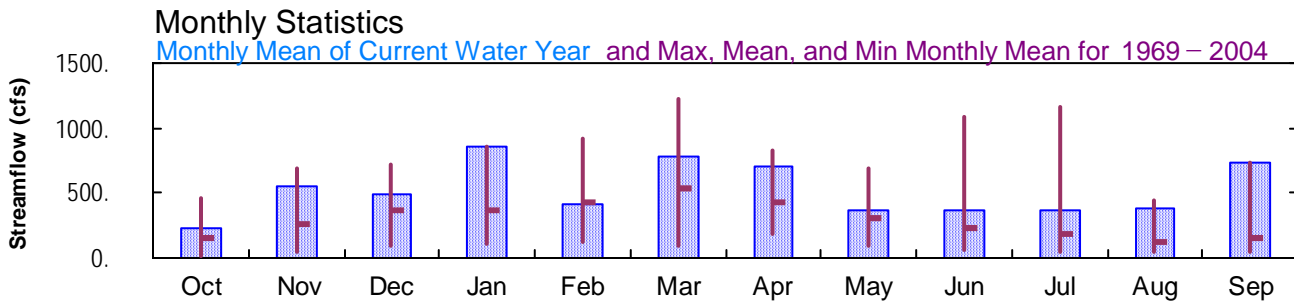
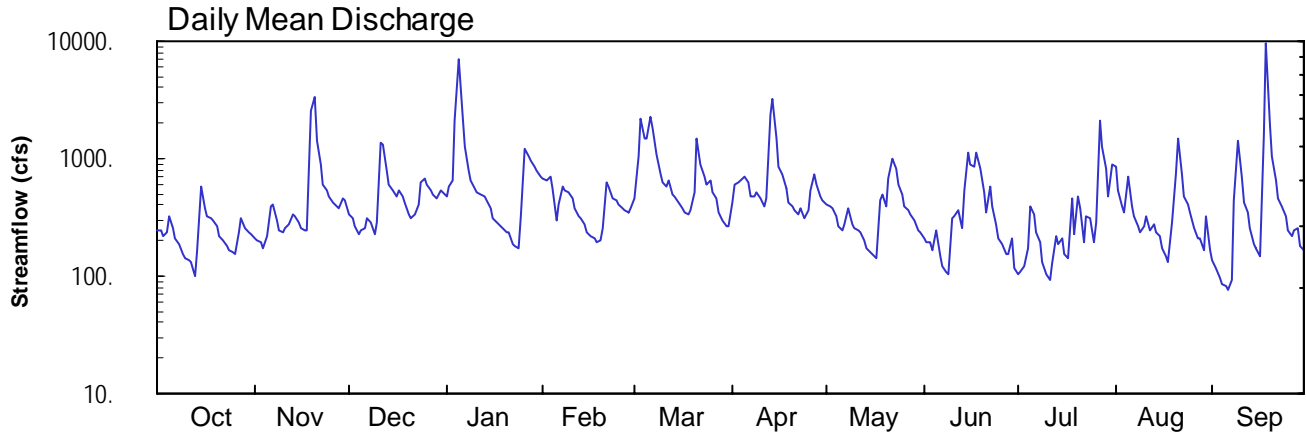
2004 Water Year  
KISKIMINETAS RIVER BASIN

03042500 Two Lick Creek at Graceton, PA

Latitude: 40° 31' 02"  
Indiana County

Longitude: 079° 10' 19"  
Datum: 981.63 feet

Hydrologic Unit Code: 05010007  
Drainage Area: 171. mi<sup>2</sup>



**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 mi<sup>2</sup>.

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

**GAGE.**--Water-stage recorder. Datum of gage is 981.63 ft above National Geodetic Vertical Datum of 1929.

**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 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	248	210	329	476	686	466	417	409	210	103	865	139
2	e250	201	306	588	646	1060	608	398	197	107	540	118
3	e220	195	262	641	711	2170	620	372	192	120	398	95
4	e240	175	229	2120	560	1470	685	322	167	175	347	87
5	e320	218	242	6910	294	1460	698	261	243	393	710	81
6	e260	397	258	2380	415	2300	624	242	148	331	392	78
7	e210	401	305	1280	572	1780	477	274	120	232	317	92
8	e190	297	292	788	543	1070	478	375	110	191	261	434
9	152	247	225	658	507	741	514	281	103	132	238	1420
10	143	236	287	556	453	633	450	258	313	102	269	696
11	136	260	1370	508	372	584	398	248	328	93	318	429
12	129	281	1300	490	321	646	465	236	367	128	241	350
13	100	333	794	469	309	498	2340	201	258	216	271	252
14	161	318	603	445	273	471	3270	170	538	185	234	189
15	580	283	532	380	233	431	1500	157	1120	210	219	170
16	379	252	484	311	217	384	846	150	884	152	175	150
17	317	250	529	290	212	346	729	144	867	142	146	1620
18	315	243	482	273	196	337	563	433	1120	462	133	9610
19	294	2500	425	252	202	362	431	501	818	224	285	1970
20	261	3370	335	240	252	517	389	393	509	472	743	1050
21	221	1410	313	232	629	1510	362	687	352	382	1450	655
22	199	899	336	185	568	887	332	986	587	191	730	461
23	183	600	409	179	449	706	374	835	396	317	473	387
24	168	534	627	175	435	607	307	610	273	306	413	319
25	158	485	679	324	402	643	368	488	207	193	344	243
26	156	422	610	1230	378	511	540	394	184	283	251	220
27	236	393	537	1060	365	460	722	368	155	2110	207	243
28	315	383	487	969	353	350	594	339	153	1260	214	259
29	256	454	456	870	382	298	473	299	208	820	164	181
30	233	437	536	781	---	266	434	246	116	477	317	164
31	224	---	506	712	---	263	---	239	---	889	165	---
TOTAL	7254	16684	15085	26772	11935	24227	21008	11316	11243	11398	11830	22162
MEAN	234	556	487	864	412	782	700	365	375	368	382	739
MAX	580	3370	1370	6910	711	2300	3270	986	1120	2110	1450	9610
MIN	100	175	225	175	196	263	307	144	103	93	133	78
(†)	-1.0	-15	+11	-26	+8.8	+4.8	+22	-8.3	+ .30	+22	-23	-1.1

† 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.

**KISKIMINETAS RIVER BASIN**

**03042500 TWO LICK CREEK AT GRACETON, PA--Continued**

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2004, BY WATER YEAR (WY) (SINCE REGULATION)**

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	148	261	360	362	428	531	434	314	232	188	127	155
MAX (WY)	466	689	722	864	925	1230	832	695	1091	1161	450	739
MIN (WY)	1977	1998	1973	2004	1986	1994	1984	2002	1972	1977	2003	2004
MIN (WY)	21.0	53.2	87.0	106	116	93.9	179	86.2	53.6	52.1	48.9	41.9
(WY)	1969	1992	1999	1983	1993	1969	1997	1986	1992	1993	1988	1995

**SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1969 - 2004**

ANNUAL TOTAL		134947		190914								
ANNUAL MEAN		370	† +1.6	522	† -.54				294			
HIGHEST ANNUAL MEAN									522			2004
LOWEST ANNUAL MEAN									178			1969
HIGHEST DAILY MEAN				3370	Nov 20		9610	Sep 18	21900	Jul 20		1977
LOWEST DAILY MEAN				64	Jul 4		78	Sep 6	12	Oct 1		1968
ANNUAL SEVEN-DAY MINIMUM				76	Jun 29		99	Sep 1	15	Oct 12		1968
MAXIMUM PEAK FLOW							a14600	Sep 18	a32000	Jul 20		1977
MAXIMUM PEAK STAGE							14.04	Sep 18	b18.65	Jul 20		1977
INSTANTANEOUS LOW FLOW							70	Aug 26	12	Oct 1		1968
10 PERCENT EXCEEDS				680			888		610			
50 PERCENT EXCEEDS				281			350		181			
90 PERCENT EXCEEDS				114			160		59			

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1968, BY WATER YEAR (WY) (PRIOR TO REGULATION)**

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	101	139	256	367	444	604	472	346	130	100	90.6	61.1
MAX (WY)	628	305	635	811	1093	1097	786	634	271	644	377	199
MIN (WY)	1955	1960	1955	1952	1956	1963	1957	1966	1960	1956	1956	1962
MIN (WY)	14.2	23.6	50.1	118	176	234	167	99.7	42.3	25.2	16.9	15.9
(WY)	1964	1954	1961	1956	1963	1957	1968	1955	1965	1962	1957	1952

**SUMMARY STATISTICS WATER YEARS 1952 - 1968**

ANNUAL MEAN		259										
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		c12900			Oct 16	1954						
MAXIMUM PEAK STAGE		12.71			Oct 16	1954						
INSTANTANEOUS LOW FLOW		11			Sep 30	1968						
ANNUAL RUNOFF (CFSM)		1.52										
ANNUAL RUNOFF (INCHES)		20.67										
10 PERCENT EXCEEDS		640										
50 PERCENT EXCEEDS		118										
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 From rating curve extended above 7,800 ft<sup>3</sup>/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 From highwater mark.

c From rating curve extended above 4,500 ft<sup>3</sup>/s on basis of contracted-opening measurement of peak flow at site 1.6 mi upstream from gage, adjusted to gage site.