



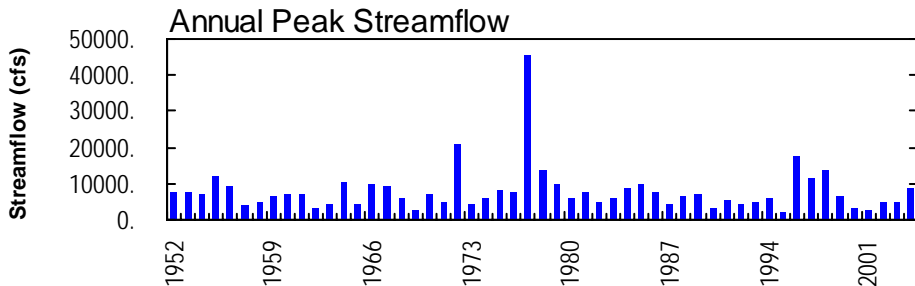
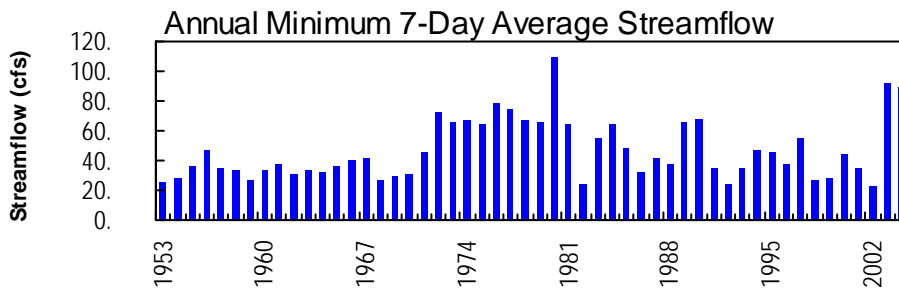
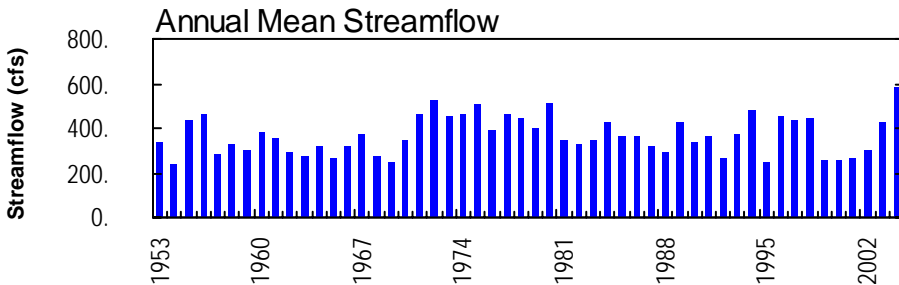
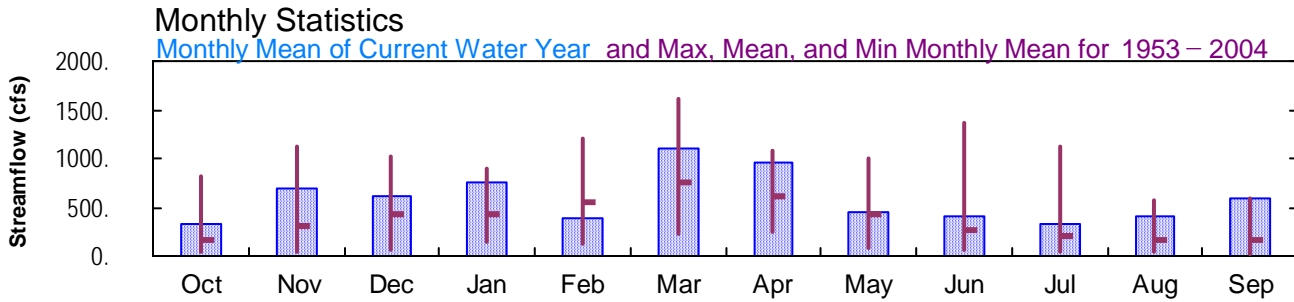
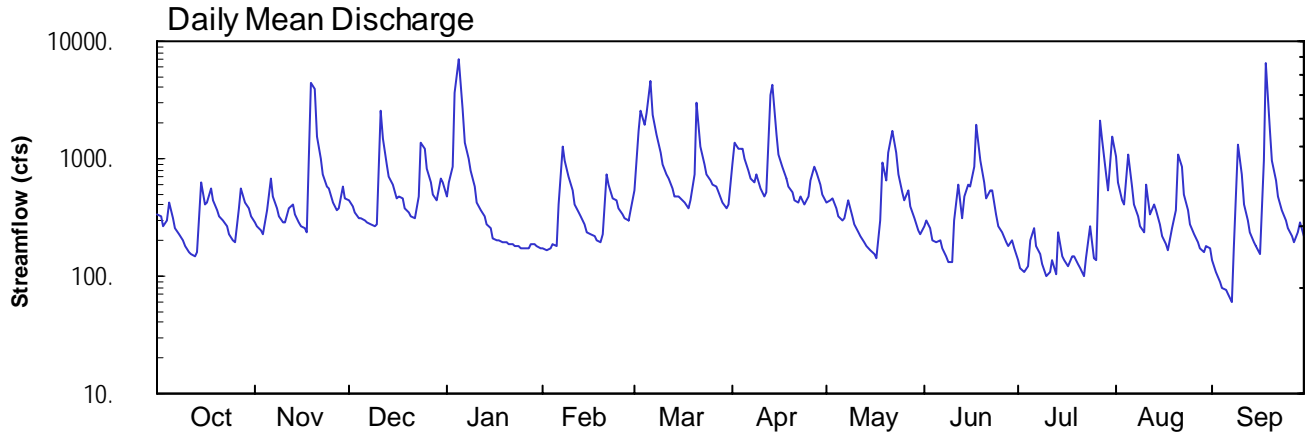
# 2004 Water Year KISKIMINETAS RIVER BASIN

## 03042000 Blacklick Creek at Josephine, PA

Latitude: 40° 28 ' 24"  
Indiana County

Longitude: 079° 11 ' 01"  
Datum: 975.82 feet

Hydrologic Unit Code: 05010007  
Drainage Area: 192. mi<sup>2</sup>



**KISKIMINETAS RIVER BASIN**

**03042000 BLACKLICK CREEK AT JOSEPHINE, PA**

**LOCATION**--Lat 40°28'24", long 79°11'01", Indiana County, Hydrologic Unit 05010007, on right bank on upstream side of old concrete dam at Josephine, 0.9 mi upstream from Two Lick Creek, and 5 mi northeast of Blairsville.

**DRAINAGE AREA**--192 mi<sup>2</sup>.

**PERIOD OF RECORD**--January 1952 to current year.

**REVISED RECORDS**--WSP 1385: 1952-54 (M). WDR PA-78-3: 1977 (M).

**GAGE**--Water-stage recorder and crest-stage gage. Datum of gage is 975.82 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 25, 1953, nonrecording gage at same site and datum.

**REMARKS**--Records good except those for estimated daily discharges, which are poor. Some regulation at low flow by mine pumpage above station. Several measurements of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemetry at station.

**PEAK DISCHARGES FOR CURRENT YEAR**--Peak discharges greater than a base discharge of 2,700 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
Nov. 19	2000	*9,560	*8.93	Mar. 21	0400	4,260	6.59
Dec. 11	1200	3,440	6.16	Apr. 13	2300	8,380	8.49
Jan. 5	0800	9,140	8.78	June 18	0330	2,780	5.78
Mar. 3	0100	3,720	6.31	July 27	1930	4,000	6.45
Mar. 6	1100	5,650	7.31	Sept. 18	0545	8,900	8.69

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	341	286	435	476	e170	526	902	426	261	136	1040	137
2	318	263	388	635	e165	1720	1350	443	297	e115	638	e110
3	262	243	343	861	e170	2570	1190	463	260	e110	443	e90
4	299	224	314	3570	e190	1940	1220	372	200	e120	408	e80
5	430	358	304	7140	e180	2410	998	326	193	204	1060	e75
6	309	683	299	2640	403	4570	804	303	201	250	580	e70
7	254	473	289	1370	1270	2330	682	313	172	181	405	e60
8	224	384	280	1000	948	1620	625	432	146	156	323	e175
9	202	326	270	794	695	1130	744	325	130	127	261	1340
10	180	291	281	572	525	897	553	272	130	e100	236	742
11	162	285	2550	e420	414	745	476	238	301	e110	604	402
12	153	381	1450	e360	350	667	515	214	599	134	340	293
13	149	405	893	e320	316	551	3550	194	308	e105	414	232
14	158	336	692	e280	e275	477	4270	177	470	238	361	193
15	634	285	591	e260	e240	483	1620	164	600	148	272	177
16	412	260	458	e210	e230	447	1080	152	583	135	221	151
17	419	253	475	e205	e220	418	e860	141	840	123	189	964
18	559	234	452	e200	e200	382	e680	296	1940	148	169	6600
19	443	4440	380	e195	e195	436	e570	932	953	150	260	1750
20	364	3870	346	e195	e225	741	e520	643	636	125	364	953
21	322	1510	319	e190	739	2960	e440	1130	454	e115	1100	648
22	298	993	316	e190	597	1280	e430	1730	543	e100	867	467
23	269	723	474	e180	460	895	e475	1110	533	e140	497	365
24	231	586	1370	e180	435	727	e410	721	339	262	359	300
25	206	555	1200	e175	374	646	e480	520	269	141	275	256
26	191	424	826	e170	333	603	e650	433	234	e135	223	219
27	380	361	624	e175	307	569	e860	526	198	2060	193	194
28	552	378	499	e190	302	511	770	388	179	1480	176	235
29	421	588	434	e185	363	422	599	309	201	718	158	289
30	378	460	668	e180	---	383	489	248	170	534	180	215
31	323	---	629	e170	---	403	---	226	---	1530	172	---
TOTAL	9843	20858	18849	23688	11291	34459	28812	14167	12340	10130	12788	17782
MEAN	318	695	608	764	389	1112	960	457	411	327	413	593
MAX	634	4440	2550	7140	1270	4570	4270	1730	1940	2060	1100	6600
MIN	149	224	270	170	165	382	410	141	130	100	158	60
CFSM	1.65	3.62	3.17	3.98	2.03	5.79	5.00	2.38	2.14	1.70	2.15	3.09
IN.	1.91	4.04	3.65	4.59	2.19	6.68	5.58	2.74	2.39	1.96	2.48	3.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2004, BY WATER YEAR (WY)

MEAN	172	304	423	429	546	763	606	420	261	203	158	154
MAX	812	1113	1025	905	1202	1615	1086	1009	1376	1114	581	595
(WY)	1977	1998	1973	1975	1956	1967	1993	1978	1972	1977	1958	1996
MIN	30.8	33.5	68.4	135	124	219	236	84.8	65.6	43.5	37.1	28.7
(WY)	1953	1954	1961	1956	1987	1969	1997	1986	1965	1965	1962	1998

e Estimated.

KISKIMINETAS RIVER BASIN

03042000 BLACKLICK CREEK AT JOSEPHINE, PA--Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1953 - 2004	
ANNUAL TOTAL	179737		215007			
ANNUAL MEAN	492		587		369	
HIGHEST ANNUAL MEAN					587	
LOWEST ANNUAL MEAN					242	
HIGHEST DAILY MEAN	4440	Nov 19	7140	Jan 5	22800	Jul 20 1977
LOWEST DAILY MEAN	93	Jul 4	e60	Sep 7	e15	Oct 13 1995
ANNUAL SEVEN-DAY MINIMUM	103	Jun 30	a89	Sep 1	23	Sep 9 2002
MAXIMUM PEAK FLOW			9560	Nov 19	b45700	Jul 20 1977
MAXIMUM PEAK STAGE			8.93	Nov 19	c19.89	Jul 20 1977
ANNUAL RUNOFF (CFSM)	2.56		3.06		1.92	
ANNUAL RUNOFF (INCHES)	34.82		41.66		26.11	
10 PERCENT EXCEEDS	1010		1130		800	
50 PERCENT EXCEEDS	360		364		211	
90 PERCENT EXCEEDS	144		157		53	

a Computed using estimated daily discharges.

b From rating curve extended above 16,000 ft<sup>3</sup>/s on basis of contracted-opening measurement at gage height 11.35 ft in gage well, 12.67 ft from outside floodmark and slope-area measurement at gage height 10.93 ft.

c From floodmark in gage well.

e Estimated.