

KISKIMINETAS RIVER BASIN

03042280 YELLOW CREEK NEAR HOMER CITY, PA

LOCATION.--Lat 40°34'21", long 79°06'13", Indiana County, Hydrologic Unit 05010007, on left bank 0.3 mi upstream from Central Indiana County Water Authority dam, 0.4 mi upstream from Ferrier Run, which has been diverted, and 3.5 mi northeast of Homer City.

DRAINAGE AREA.--57.4 mi², excludes that of Ferrier Run.

PERIOD OF RECORD.--October 1967 to current year.

REVISED RECORDS.--WDR PA-76-3: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,140 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated since July 1971 by Yellow Creek Lake (station 03042260) 4.2 mi upstream. Several measurements of water temperature were made during the year. Satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	34	e38	332	e18	133	81	26	89	26	172	282
2	7.4	33	e36	875	e17	127	88	25	95	23	193	283
3	7.4	31	e34	609	e17	125	92	23	104	20	183	363
4	7.4	28	e32	423	e52	114	93	22	193	18	182	353
5	7.6	26	e28	305	92	125	169	22	254	18	164	273
6	7.4	47	e26	232	93	177	229	25	233	24	147	204
7	7.4	60	e24	198	92	185	232	28	213	40	129	164
8	7.4	64	e22	166	92	178	221	33	208	45	110	136
9	7.4	62	e20	150	89	269	201	40	189	47	104	111
10	7.4	57	e20	148	75	306	180	109	163	54	352	91
11	7.4	53	e18	138	73	247	216	155	140	158	285	75
12	7.4	53	e20	120	73	210	279	153	125	154	212	62
13	7.4	53	e32	108	73	247	244	153	129	131	166	52
14	7.4	52	90	e85	69	358	202	144	119	106	133	47
15	7.4	46	125	e70	49	341	172	129	103	84	107	44
16	8.2	43	141	e55	42	327	148	122	89	74	90	46
17	8.3	72	140	e47	42	325	131	114	76	63	77	42
18	8.0	99	125	e42	42	294	109	101	79	54	64	36
19	7.7	104	111	e35	39	246	94	93	80	59	53	41
20	8.4	110	292	e30	33	214	81	84	76	57	45	49
21	8.6	104	432	e24	30	232	72	111	73	50	38	48
22	8.6	96	347	e23	49	219	65	122	73	116	33	46
23	8.6	89	272	e21	220	192	59	119	68	220	28	82
24	8.6	79	212	e20	326	169	52	115	60	235	24	88
25	8.7	68	183	e20	272	148	47	111	52	240	21	86
26	16	59	157	e20	210	132	42	106	45	190	44	88
27	19	54	131	e20	178	119	39	105	39	154	92	86
28	20	47	111	e20	151	105	35	96	34	147	101	106
29	22	40	98	e20	---	93	32	87	31	127	88	116
30	31	38	87	e20	---	88	29	78	28	104	231	109
31	35	---	94	e20	---	85	---	73	---	85	369	---
TOTAL	337.9	1801	3498	4396	2608	6130	3734	2724	3260	2923	4037	3609
MEAN	10.9	60.0	113	142	93.1	198	124	87.9	109	94.3	130	120
MAX	35	110	432	875	326	358	279	155	254	240	369	363
MIN	7.4	26	18	20	17	85	29	22	28	18	21	36
CFSM	0.19	1.05	1.97	2.47	1.62	3.44	2.17	1.53	1.89	1.64	2.27	2.10
IN.	0.22	1.17	2.27	2.85	1.69	3.97	2.42	1.77	2.11	1.89	2.62	2.34

e Estimated.

KISKIMINETAS RIVER BASIN

03042280 YELLOW CREEK NEAR HOMER CITY, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2003, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	51.9	93.2	133	122	160	202	157	118	77.9	60.5	31.7	38.8
MAX (WY)	186	303	254	314	374	447	246	358	324	443	130	163
	1978	1998	1973	1996	1981	1994	1987	1978	1972	1977	2003	1996
MIN (WY)	6.10	6.85	21.1	32.1	44.4	70.8	68.8	28.5	12.2	5.95	5.46	8.02
	1992	1999	1999	2000	1993	1990	1997	2001	1999	1971	1971	2002

SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1971 - 2003

ANNUAL TOTAL	37486.4			39057.9			104			1978		
ANNUAL MEAN	103			107			64.2			1999		
HIGHEST ANNUAL MEAN							145					
LOWEST ANNUAL MEAN							64.2			1999		
HIGHEST DAILY MEAN	1230			Jun 15			875			Jan 2		
LOWEST DAILY MEAN	6.9			Sep 24,25			7.4			Oct 1-4,6-15		
ANNUAL SEVEN-DAY MINIMUM	7.2			Sep 20			7.4			Oct 6		
MAXIMUM PEAK FLOW							940			Jan 2		
MAXIMUM PEAK STAGE							4.48			Jan 2		
ANNUAL RUNOFF (CFSM)	1.79						1.86					
ANNUAL RUNOFF (INCHES)	24.29						25.31			24.50		
10 PERCENT EXCEEDS	285						232			234		
50 PERCENT EXCEEDS	56						85			59		
90 PERCENT EXCEEDS	8.0						20			11		

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1970, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	24.6	72.0	119	113	146	136	160	148	51.0	39.6	39.9	26.9
MAX (WY)	51.8	105	142	148	210	199	243	212	74.7	75.4	63.0	66.6
	1968	1968	1969	1969	1970	1970	1970	1968	1970	1969	1969	1970
MIN (WY)	7.87	43.9	102	90.8	112	46.4	62.7	103	25.5	7.11	13.0	5.34
	1969	1970	1968	1970	1969	1969	1968	1969	1969	1968	1968	1969

SUMMARY STATISTICS WATER YEARS 1968 - 1970

ANNUAL MEAN	89.4											
HIGHEST ANNUAL MEAN	104						1970					
LOWEST ANNUAL MEAN	80.7						1969					
HIGHEST DAILY MEAN	1100			Jan 31			1968					
LOWEST DAILY MEAN	3.0			Jul 31			1968					
ANNUAL SEVEN-DAY MINIMUM	3.3			Sep 18			1969					
MAXIMUM PEAK FLOW	b1300			Jan 30			1968					
MAXIMUM PEAK STAGE	c7.83			Jan 29			1970					
INSTANTANEOUS LOW FLOW	1.4			Jul 19			1969					
ANNUAL RUNOFF (CFSM)	1.56											
ANNUAL RUNOFF (INCHES)	21.16											
10 PERCENT EXCEEDS	213											
50 PERCENT EXCEEDS	50											
90 PERCENT EXCEEDS	8.0											

- a From rating curve extended above 4,100 ft³/s on basis of computation of peak flow over dam, gage height 7.46 ft.
- b About.
- c Backwater from ice.

