



2005 Water Year  
KINZUA CREEK BASIN  
03011800 Kinzua Creek near Guffey, PA

Latitude: 41° 45 ' 59"

Longitude: 078° 43 ' 08"

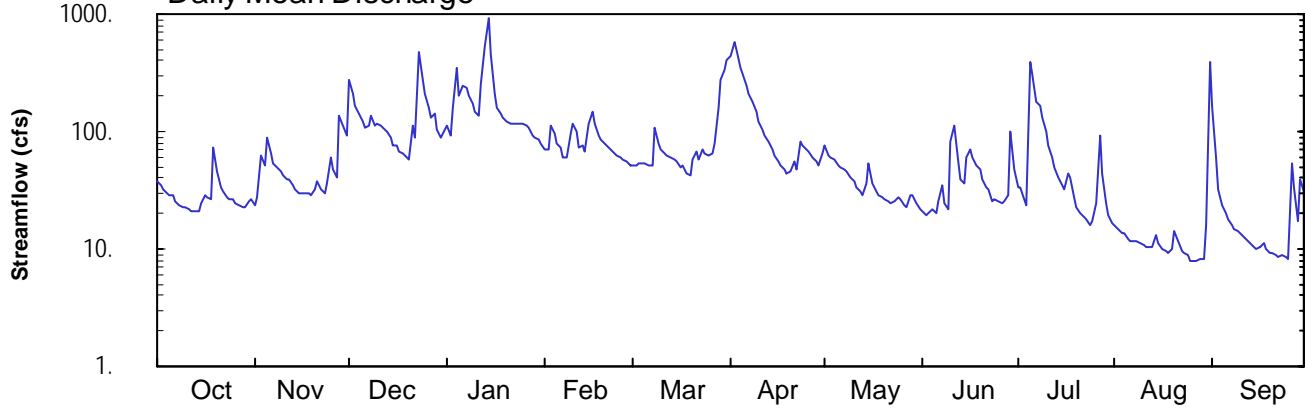
Hydrologic Unit Code: 05010001

Mckean County

Datum: 1540.00 feet

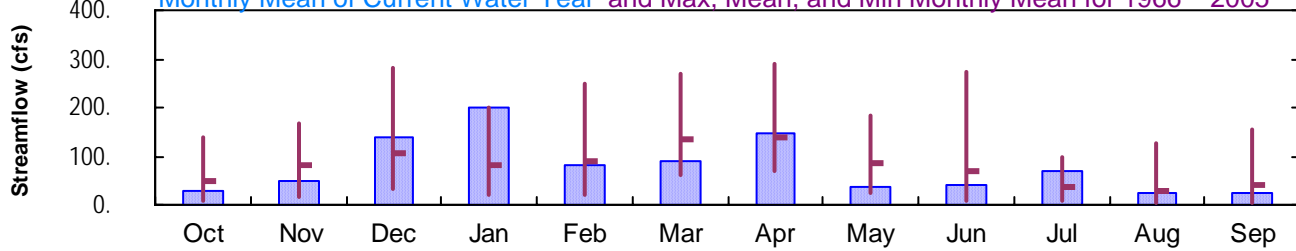
Drainage Area: 38.8 mi<sup>2</sup>

### Daily Mean Discharge

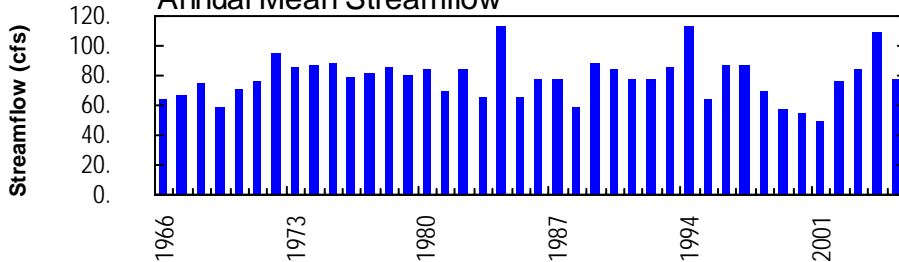


### Monthly Statistics

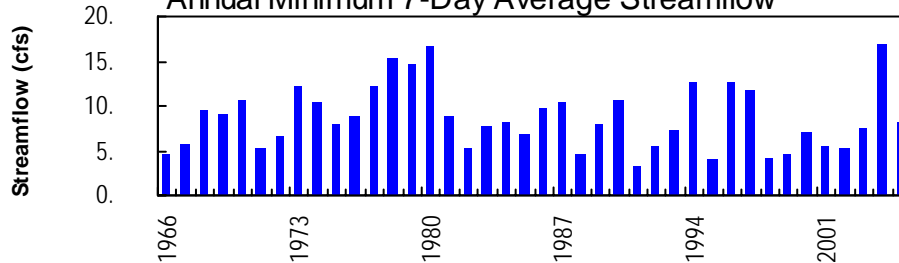
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1966 – 2005



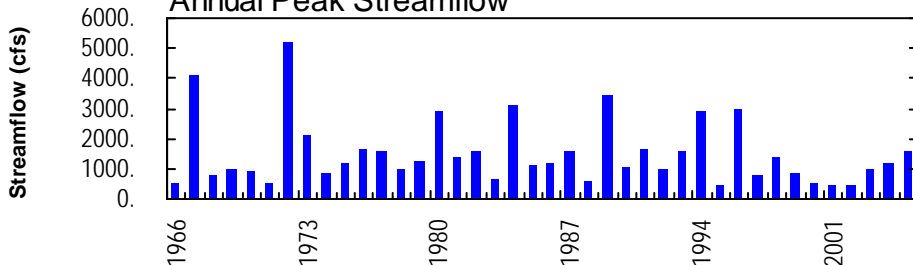
### Annual Mean Streamflow



### Annual Minimum 7-Day Average Streamflow



### Annual Peak Streamflow



## KINZUA CREEK BASIN

## 03011800 KINZUA CREEK NEAR GUFFEY, PA

**LOCATION.**--Lat 41°45'59", long 78°43'08", McKean County, Hydrologic Unit 05010001, in Allegheny National Forest, on right bank 130 ft upstream from bridge on U.S. Highway 219, 0.2 mi upstream from Wintergreen Run, 1.0 mi downstream from Pine Run, and 1.5 mi west of Guffey.

**DRAINAGE AREA.**--38.8 mi<sup>2</sup>.

**PERIOD OF RECORD.**--Occasional low-flow measurements, published as "at Tallyho," water years 1959-65. October 1965 to current year.

**GAGE.**--Water-stage recorder. Elevation of gage is 1,540 ft above National Geodetic Vertical Datum of 1929, from topographic map.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. 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 500 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)
Dec. 23	1800	879	5.06	July 5	1700	*1,570	*6.09
Jan. 14	0600	1,260	5.68	Aug. 31	0600	539	4.35
Apr. 2	1400	706	4.73				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	24	275	112	e70	e52	443	75	21	34	16	168
2	34	28	210	91	e70	e52	572	63	19	34	15	60
3	33	63	168	159	112	e53	501	61	20	26	14	32
4	30	52	141	343	96	e54	354	57	22	24	13	24
5	29	90	123	202	79	e53	310	52	20	388	12	20
6	28	65	107	246	72	e52	250	49	25	311	12	18
7	25	54	114	232	60	51	210	48	35	177	12	16
8	24	49	136	204	60	110	180	45	25	164	12	15
9	23	45	111	174	95	80	147	41	22	131	11	14
10	23	42	118	150	117	71	124	38	81	100	11	14
11	22	39	112	136	99	e65	106	33	114	77	10	13
12	21	38	103	258	74	e62	91	31	55	60	10	12
13	21	35	99	544	76	e60	81	29	39	49	10	11
14	21	32	88	936	68	e58	72	36	36	40	13	10
15	25	30	78	449	118	e55	63	53	59	34	11	10
16	29	29	77	e208	145	50	56	36	70	32	10	10
17	27	29	68	e159	118	51	51	31	60	44	9.7	11
18	26	29	65	e143	e93	44	47	28	51	41	9.4	10
19	74	29	61	e132	e84	42	45	27	48	28	10	9.4
20	46	32	59	e122	e79	57	46	26	39	23	14	9.1
21	34	38	113	e119	e72	69	56	26	34	20	11	8.7
22	30	32	89	e119	e69	59	47	24	33	19	9.8	8.4
23	27	29	472	e117	e65	70	81	26	26	18	9.3	8.8
24	27	37	356	e118	e62	65	77	28	26	16	8.7	8.6
25	26	61	210	e117	e60	63	71	26	26	17	8.0	8.3
26	24	48	160	e112	e59	66	67	24	25	24	7.9	54
27	23	41	134	e107	e55	78	61	22	26	92	7.9	34
28	22	135	139	e92	e51	161	56	29	29	43	8.2	17
29	23	112	102	e89	---	280	52	28	100	24	8.1	39
30	25	93	89	e86	---	329	66	24	49	19	16	31
31	26	---	105	e79	---	401	---	22	---	17	386	---
TOTAL	885	1460	4282	6155	2278	2813	4383	1138	1235	2126	716.0	704.3
MEAN	28.5	48.7	138	199	81.4	90.7	146	36.7	41.2	68.6	23.1	23.5
MAX	74	135	472	936	145	401	572	75	114	388	386	168
MIN	21	24	59	79	51	42	45	22	19	16	7.9	8.3
CFSM	0.74	1.25	3.56	5.12	2.10	2.34	3.77	0.95	1.06	1.77	0.60	0.61
IN.	0.85	1.40	4.11	5.90	2.18	2.70	4.20	1.09	1.18	2.04	0.69	0.68

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2005, BY WATER YEAR (WY)

MEAN	47.0	82.4	105	83.3	89.3	136	137	84.6	68.8	35.8	30.2	40.1
MAX	137	166	281	199	251	269	289	182	272	99.8	126	154
(WY)	1991	1971	1984	2005	1976	1979	1994	1989	1989	2003	1980	1977
MIN	6.69	15.3	32.6	19.8	18.4	61.6	67.9	23.8	9.49	6.29	4.96	5.16
(WY)	1992	1992	1990	1981	1987	1970	1976	1985	1991	1991	1991	1991

e Estimated.

## KINZUA CREEK BASIN

## 03011800 KINZUA CREEK NEAR GUFFEY, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1966 - 2005	
ANNUAL TOTAL	35420		28175.3			
ANNUAL MEAN	96.8		77.2		78.1	
HIGHEST ANNUAL MEAN					113	1984
LOWEST ANNUAL MEAN					49.2	2001
HIGHEST DAILY MEAN	777	Sep 9	936	Jan 14	2120	Jun 23 1972
LOWEST DAILY MEAN	14	Jul 11	7.9	Aug 26,27	2.2	Sep 30 1995
ANNUAL SEVEN-DAY MINIMUM	17	Jul 6	8.3	Aug 23	3.3	Sep 10 1991
MAXIMUM PEAK FLOW			a1570	Jul 5	a5220	Jun 22 1972
MAXIMUM PEAK STAGE			6.09	Jul 5	b8.99	Jun 22 1972
INSTANTANEOUS LOW FLOW			7.9	Aug 25-29	2.0	Jul 29 1978
ANNUAL RUNOFF (CFSM)	2.49		1.99		2.01	
ANNUAL RUNOFF (INCHES)	33.96		27.01		27.35	
10 PERCENT EXCEEDS	198		159		169	
50 PERCENT EXCEEDS	76		49		51	
90 PERCENT EXCEEDS	26		12		12	

a From rating curve extended above 1,300 ft<sup>3</sup>/s on basis of slope-area measurement at gage height 8.33 ft.

b From peak-stage indicator.

