



2004 Water Year  
KINZUA CREEK BASIN

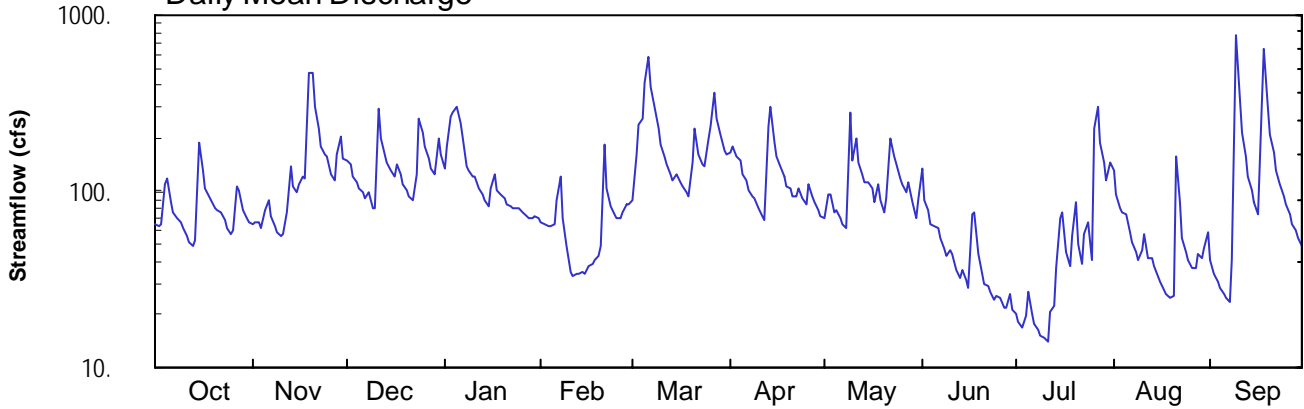
03011800 Kinzua Creek near Guffey, PA

Latitude: 41° 45 ' 59"  
Mckean County

Longitude: 078° 43 ' 08"  
Datum: 1540.00 feet

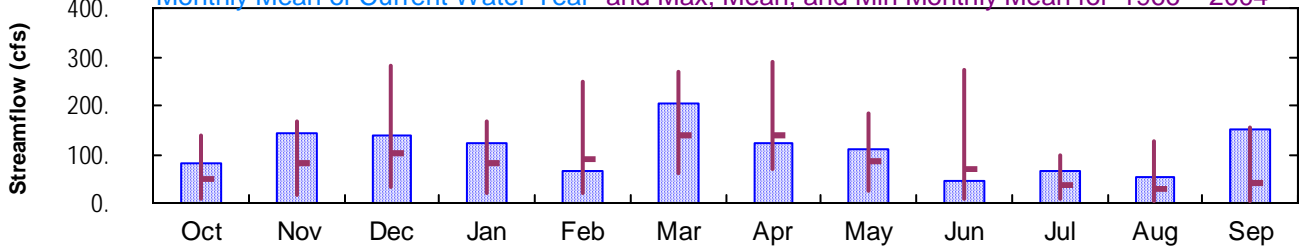
Hydrologic Unit Code: 05010001  
Drainage Area: 38.8 mi<sup>2</sup>

Daily Mean Discharge

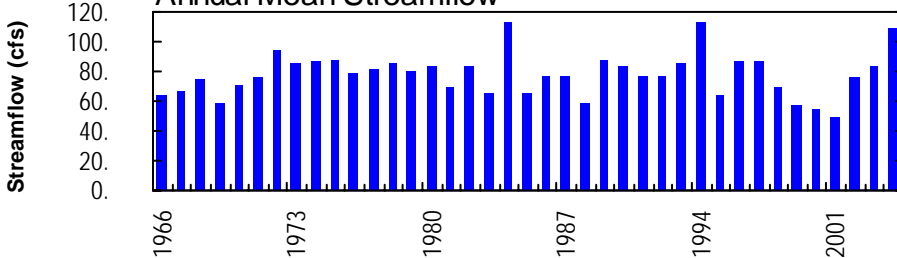


Monthly Statistics

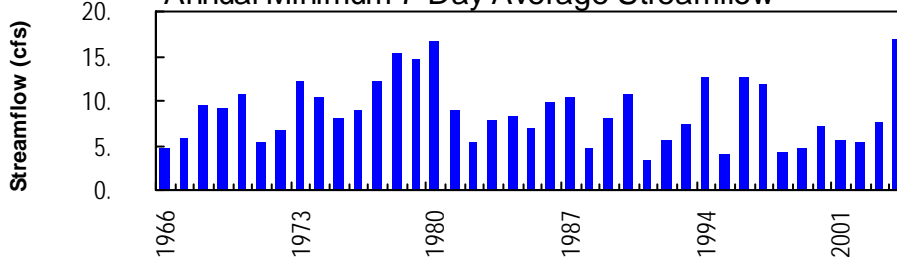
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1966 – 2004



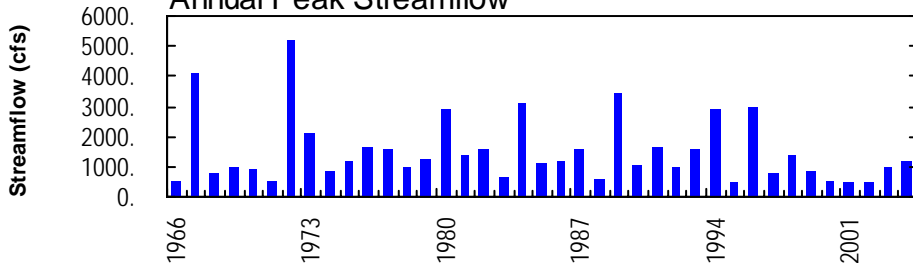
Annual Mean Streamflow



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)
Nov. 19	1800	941	5.66	Sept. 9	1015	*1,190	*6.10
Mar. 6	0530	629	4.97	Sept. 18	0145	1,030	5.82
July 26	2115	568	4.80				

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	66	66	151	136	e66	89	167	70	133	20	130	41
2	63	67	141	179	e65	161	180	95	89	18	97	34
3	64	66	123	262	e64	237	159	97	79	17	81	30
4	110	62	113	279	e63	256	148	76	65	20	77	28
5	118	79	103	304	e65	411	124	79	64	27	74	27
6	88	90	99	247	e88	578	115	71	62	20	58	25
7	77	73	91	e198	e121	390	102	66	54	18	51	24
8	71	63	99	e139	e70	303	94	62	47	16	46	41
9	66	58	80	e132	e49	224	91	280	42	15	40	777
10	61	55	81	e121	e35	183	80	149	46	15	46	347
11	56	58	294	e120	e33	159	72	200	44	14	58	218
12	52	76	199	e105	e34	143	69	146	36	21	42	158
13	49	138	163	e95	e34	123	233	123	32	22	42	122
14	53	107	147	e90	e34	116	300	112	36	37	38	100
15	189	100	132	e83	e34	125	191	112	31	70	33	86
16	131	109	120	e103	e38	113	158	104	28	77	30	75
17	103	121	141	e125	e39	106	138	86	74	45	28	317
18	93	119	123	e102	e40	98	120	111	76	37	26	636
19	88	474	109	e96	e43	94	107	90	44	55	25	296
20	81	469	100	e92	e49	145	104	76	34	87	26	211
21	77	299	93	e85	e184	226	93	91	30	50	160	166
22	76	225	89	e82	e105	161	94	199	29	39	86	133
23	69	178	124	e80	e82	141	104	157	27	57	54	111
24	62	162	257	e80	e75	139	92	142	24	67	45	95
25	57	156	213	e80	e71	199	85	118	26	40	41	85
26	61	126	179	e77	e71	235	110	109	25	230	37	75
27	108	115	155	e72	e76	363	94	99	22	303	37	66
28	100	161	135	e70	e84	260	86	112	22	191	44	60
29	79	204	124	e71	e85	209	78	86	26	146	42	54
30	71	155	199	e72	---	172	72	71	21	114	47	48
31	66	---	161	e71	---	162	---	90	---	147	58	---
TOTAL	2505	4231	4338	3848	1897	6321	3660	3479	1368	2035	1699	4486
MEAN	80.8	141	140	124	65.4	204	122	112	45.6	65.6	54.8	150
MAX	189	474	294	304	184	578	300	280	133	303	160	777
MIN	49	55	80	70	33	89	69	62	21	14	25	24
CFSM	2.08	3.63	3.61	3.20	1.69	5.26	3.14	2.89	1.18	1.69	1.41	3.85
IN.	2.40	4.06	4.16	3.69	1.82	6.06	3.51	3.34	1.31	1.95	1.63	4.30

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2004, BY WATER YEAR (WY)**

MEAN	47.4	83.2	104	80.3	89.5	137	137	85.8	69.5	34.9	30.3	40.5
MAX	137	166	281	166	251	269	289	182	272	99.8	126	154
(WY)	1991	1971	1984	1998	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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1966 - 2004	
ANNUAL TOTAL	37657		39867			
ANNUAL MEAN	103		109		78.1	
HIGHEST ANNUAL MEAN					113	1984
LOWEST ANNUAL MEAN					49.2	2001
HIGHEST DAILY MEAN	750	Mar 22	777	Sep 9	2120	Jun 23 1972
LOWEST DAILY MEAN	14	Jul 15,17	14	Jul 11	2.2	Sep 30 1995
ANNUAL SEVEN-DAY MINIMUM	17	Jul 11	17	Jul 6	3.3	Sep 10 1991
MAXIMUM PEAK FLOW			1190	Sep 9	a5220	Jun 22 1972
MAXIMUM PEAK STAGE			6.10	Sep 9	b8.99	Jun 22 1972
INSTANTANEOUS LOW FLOW			14	Jul 10-12	2.0	Jul 29 1978
ANNUAL RUNOFF (CFSM)	2.66		2.81		2.01	
ANNUAL RUNOFF (INCHES)	36.10		38.22		27.36	
10 PERCENT EXCEEDS	190		201		169	
50 PERCENT EXCEEDS	78		86		51	
90 PERCENT EXCEEDS	28		33		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.