

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 mi².

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 sea level, 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 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Feb. 10	0700	*440	*4.40	(No peaks above base discharge.)			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	16	56	e62	e18	60	136	55	41	20	6.9	23
2	8.4	16	47	e57	e17	53	154	50	50	16	6.6	11
3	8.4	15	53	e53	e16	49	135	46	58	13	7.1	8.4
4	26	16	54	e47	e14	48	131	42	54	15	7.4	7.7
5	54	15	73	e42	e13	58	157	39	42	21	6.6	8.8
6	166	15	68	e38	e12	57	219	34	37	17	6.2	6.9
7	82	14	69	e34	e12	50	283	31	31	13	5.9	6.7
8	66	14	71	e30	e20	38	295	29	27	13	5.8	6.6
9	50	15	65	e28	e65	36	259	32	25	12	5.4	6.1
10	42	20	55	e26	297	34	253	29	23	13	6.6	6.4
11	35	24	64	e25	168	41	183	27	29	18	6.5	6.3
12	30	20	131	e23	140	44	150	74	25	13	5.8	5.6
13	29	18	99	e22	120	75	124	55	21	11	5.6	5.9
14	25	17	104	e21	164	88	106	38	20	10	5.5	14
15	23	16	91	e20	278	67	95	33	17	9.6	5.2	8.5
16	22	15	89	e19	194	61	156	28	17	9.8	5.2	6.9
17	23	17	286	e18	163	66	142	27	17	13	5.6	6.5
18	49	16	199	e17	132	61	120	27	15	10	5.5	5.9
19	38	16	162	e16	115	62	102	25	15	9.3	9.2	5.9
20	29	15	126	e15	106	69	101	23	14	8.9	15	7.4
21	26	15	e98	e15	109	100	152	23	16	8.2	7.5	7.1
22	23	18	e72	e15	83	165	195	40	39	7.9	6.4	7.1
23	21	18	e64	e14	84	131	144	101	26	7.8	7.9	6.6
24	21	18	e60	e14	74	137	125	53	24	7.6	8.8	7.7
25	22	19	e70	e14	78	115	111	40	17	11	6.7	20
26	20	49	e82	e13	90	102	98	44	15	12	7.3	15
27	20	84	e95	e13	68	92	91	65	13	8.9	13	13
28	21	83	e90	e13	60	83	78	68	12	7.7	17	15
29	18	69	e96	e15	---	83	67	63	11	7.4	12	13
30	18	64	e80	e17	---	150	60	52	15	7.5	7.9	11
31	17	---	e70	e20	---	138	---	44	---	7.4	9.2	---
TOTAL	1041.8	767	2839	776	2710	2413	4422	1337	766	359.0	237.3	280.0
MEAN	33.6	25.6	91.6	25.0	96.8	77.8	147	43.1	25.5	11.6	7.65	9.33
MAX	166	84	286	62	297	165	295	101	58	21	17	23
MIN	8.4	14	47	13	12	34	60	23	11	7.4	5.2	5.6
CFSM	.72	.55	1.97	.54	2.09	1.68	3.18	.93	.55	.25	.16	.20
IN.	.84	.61	2.28	.62	2.17	1.93	3.55	1.07	.61	.29	.19	.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2001, BY WATER YEAR (WY)

MEAN	47.9	83.3	104	80.3	89.8	134	138	83.5	69.4	32.9	28.7	36.9
MAX	137	166	281	166	251	269	289	182	272	99.0	126	154
(WY)	1991	1971	1984	1998	1976	1979	1994	1989	1989	1992	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.

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1966 - 2001	
ANNUAL TOTAL	21073.5		17948.1			
ANNUAL MEAN	57.6		49.2		77.2	
HIGHEST ANNUAL MEAN					113	1984
LOWEST ANNUAL MEAN					49.2	2001
HIGHEST DAILY MEAN	400	Feb 27	297	Feb 10	2120	Jun 23 1972
LOWEST DAILY MEAN	6.8	Sep 7	5.2	Aug 15,16	2.2	Sep 30 1995
ANNUAL SEVEN-DAY MINIMUM	7.2	Sep 4	5.5	Aug 12	3.3	Sep 10 1991
MAXIMUM PEAK FLOW			440	Feb 10	a5220	Jun 22 1972
MAXIMUM PEAK STAGE			4.40	Feb 10	b8.99	Jun 22 1972
INSTANTANEOUS LOW FLOW			5.1	Aug 9,10	2.0	Jul 29 1978
ANNUAL RUNOFF (CFSM)	1.24		1.06		1.66	
ANNUAL RUNOFF (INCHES)	16.90		14.39		22.60	
10 PERCENT EXCEEDS	128		125		168	
50 PERCENT EXCEEDS	41		25		50	
90 PERCENT EXCEEDS	9.9		7.4		12	

a From rating curve extended above 1,300 ft³/s on basis of slope-area measurement at gage height 8.33 ft.
 b From peak-stage indicator.

