

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 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 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
May 14	2100	*483	*4.54	(No peaks above base discharge.)			

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	49	170	e67	393	74	200	123	63	22	17	5.5
2	9.1	47	124	e63	289	68	170	162	53	21	15	5.5
3	8.1	70	108	e58	224	156	204	139	45	18	13	6.0
4	7.7	54	97	e52	188	131	168	115	50	17	11	6.6
5	7.6	45	88	e46	152	112	139	105	110	16	11	5.6
6	8.5	40	79	e41	128	106	129	95	247	14	9.7	5.5
7	9.9	36	70	e39	114	102	121	90	156	14	8.1	5.5
8	11	35	61	e34	103	94	115	82	114	13	7.2	5.5
9	10	39	59	e32	92	88	124	150	95	13	7.1	5.5
10	9.4	35	54	e30	97	104	143	160	81	14	6.8	5.5
11	9.2	31	48	e28	169	86	108	112	70	12	6.4	5.5
12	9.2	28	43	e26	121	83	97	253	61	12	6.4	5.1
13	10	25	49	e24	105	80	127	365	54	11	6.4	5.1
14	11	24	78	e23	98	74	213	407	137	11	6.1	5.1
15	20	24	125	e22	92	70	310	353	123	10	6.8	9.4
16	18	24	82	e21	94	87	219	251	152	9.7	7.1	12
17	44	21	121	e19	91	76	187	248	121	9.7	13	7.2
18	40	20	292	e20	80	77	159	321	98	9.7	7.9	5.9
19	23	20	217	e18	77	79	137	247	83	9.4	6.9	5.5
20	18	32	187	e20	77	94	126	200	71	9.4	7.1	5.5
21	15	29	162	e20	104	108	112	168	60	8.7	6.7	5.6
22	17	25	136	e23	106	90	102	139	60	8.5	16	5.5
23	21	23	126	45	86	89	92	117	52	11	13	5.5
24	155	21	160	103	79	92	80	103	42	11	8.7	5.1
25	104	140	119	134	76	94	78	91	37	9.2	7.5	5.5
26	73	138	102	97	83	128	73	156	36	9.1	6.9	5.5
27	68	93	96	92	88	207	62	102	40	9.3	6.3	35
28	63	85	89	97	79	163	142	83	43	14	6.1	35
29	56	105	e83	118	---	183	192	77	31	29	5.9	16
30	67	143	e78	215	---	311	138	90	25	17	5.9	11
31	57	---	e73	236	---	225	---	78	---	18	5.5	---
TOTAL	989.1	1501	3376	1863	3485	3531	4267	5182	2410	410.7	268.5	252.7
MEAN	31.9	50.0	109	60.1	124	114	142	167	80.3	13.2	8.66	8.42
MAX	155	143	292	236	393	311	310	407	247	29	17	35
MIN	7.6	20	43	18	76	68	62	77	25	8.5	5.5	5.1
CFSM	0.82	1.29	2.81	1.55	3.21	2.94	3.67	4.31	2.07	0.34	0.22	0.22
IN.	0.95	1.44	3.24	1.79	3.34	3.39	4.09	4.97	2.31	0.39	0.26	0.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2002, BY WATER YEAR (WY)

MEAN	47.5	82.4	104	79.8	90.8	133	138	85.7	69.7	32.3	28.1	36.2
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.

KINZUA CREEK BASIN

03011800 KINZUA CREEK NEAR GUFFEY, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1966 - 2002	
ANNUAL TOTAL	19166.4		27536.0			
ANNUAL MEAN	52.5		75.4		77.1	
HIGHEST ANNUAL MEAN					113	1984
LOWEST ANNUAL MEAN					49.2	2001
HIGHEST DAILY MEAN	297	Feb 10	407	May 14	2120	Jun 23 1972
LOWEST DAILY MEAN	5.2	Aug 15,16	5.1	Sep 12-14,24	2.2	Sep 30 1995
ANNUAL SEVEN-DAY MINIMUM	5.5	Aug 12	5.3	Sep 8	3.3	Sep 10 1991
MAXIMUM PEAK FLOW			483	May 14	a5220	Jun 22 1972
MAXIMUM PEAK STAGE			4.54	May 14	b8.99	Jun 22 1972
INSTANTANEOUS LOW FLOW			4.8	Sep 24	2.0	Jul 29 1978
ANNUAL RUNOFF (CFSM)	1.35		1.94		1.99	
ANNUAL RUNOFF (INCHES)	18.38		26.40		27.01	
10 PERCENT EXCEEDS	136		162		168	
50 PERCENT EXCEEDS	28		62		50	
90 PERCENT EXCEEDS	7.4		6.9		11	

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.

