

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)
Mar. 21	2300	*989	*5.46	July 27	2000	750	4.91
Apr. 5	1000	664	4.68	Aug. 11	2100	518	4.33
July 22	0100	957	5.39				

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	9.4	19	e42	e107	e30	e66	119	32	191	20	204	47
2	8.7	21	e36	188	e32	e59	176	47	119	19	156	185
3	8.3	20	e31	135	e33	e54	132	41	105	18	141	134
4	8.3	20	e25	e110	e115	e55	139	33	107	17	123	146
5	9.5	20	e24	e97	e91	e51	529	34	134	20	117	117
6	8.5	40	e22	e89	e71	e48	302	38	105	17	116	95
7	7.8	47	e22	e82	e65	e48	231	35	93	24	100	81
8	7.2	36	e21	79	e60	e48	197	37	89	22	103	69
9	7.1	32	e20	e78	e56	e67	178	36	126	21	92	59
10	7.3	30	e26	e69	e54	e71	173	35	91	21	84	52
11	7.5	69	e32	e61	e51	e58	162	38	86	26	155	44
12	7.5	60	e40	e56	e49	e51	141	55	134	20	241	39
13	8.2	43	e58	e51	e46	e58	122	82	193	17	146	36
14	8.5	35	e118	e46	e46	e62	107	79	138	15	116	36
15	7.7	30	e80	e43	e44	78	96	63	114	14	98	93
16	11	30	e65	e39	e46	149	88	74	97	15	94	147
17	13	135	e58	e34	e51	e250	78	74	83	14	93	77
18	12	120	e66	e34	e60	e349	72	65	81	28	62	59
19	31	81	e82	e28	e56	e458	66	58	73	42	48	91
20	29	72	e222	e27	e46	e562	60	58	63	22	41	114
21	19	73	e182	e27	e47	e606	64	133	70	286	36	76
22	14	107	e132	e26	e74	750	62	87	63	598	46	78
23	12	99	e109	e24	e172	497	55	80	48	203	36	188
24	11	81	e90	e24	e142	345	48	101	40	258	29	115
25	11	78	e78	e24	e124	275	43	88	35	196	26	110
26	43	70	e66	e24	e105	260	42	77	31	137	33	98
27	32	64	e59	e24	e88	200	40	71	28	249	40	88
28	21	56	e52	e25	e75	166	36	71	25	319	29	97
29	17	52	e50	e24	---	161	33	62	23	179	29	88
30	17	e46	e48	e26	---	150	32	55	23	144	48	81
31	16	---	e69	e28	---	124	---	132	---	113	31	---
TOTAL	430.5	1686	2025	1729	1929	6176	3623	1971	2608	3094	2713	2740
MEAN	13.9	56.2	65.3	55.8	68.9	199	121	63.6	86.9	99.8	87.5	91.3
MAX	43	135	222	188	172	750	529	133	193	598	241	188
MIN	7.1	19	20	24	30	48	32	32	23	14	26	36
CFSM	0.36	1.45	1.68	1.44	1.78	5.13	3.11	1.64	2.24	2.57	2.26	2.35
IN.	0.41	1.62	1.94	1.66	1.85	5.92	3.47	1.89	2.50	2.97	2.60	2.63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2003, BY WATER YEAR (WY)

MEAN	46.6	81.7	103	79.2	90.2	135	137	85.1	70.1	34.1	29.7	37.6
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.

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1966 - 2003	
ANNUAL TOTAL	25808.9		30724.5			
ANNUAL MEAN	70.7		84.2		77.3	
HIGHEST ANNUAL MEAN					113	1984
LOWEST ANNUAL MEAN					49.2	2001
HIGHEST DAILY MEAN	407	May 14	750	Mar 22	2120	Jun 23 1972
LOWEST DAILY MEAN	5.1	Sep 12-14, 24	7.1	Oct 9	2.2	Sep 30 1995
ANNUAL SEVEN-DAY MINIMUM	5.3	Sep 8	7.5	Oct 7	3.3	Sep 10 1991
MAXIMUM PEAK FLOW			989	Mar 21	a5220	Jun 22 1972
MAXIMUM PEAK STAGE			5.46	Mar 21	b8.99	Jun 22 1972
INSTANTANEOUS LOW FLOW			7.1	Oct 8-10	2.0	Jul 29 1978
ANNUAL RUNOFF (CFSM)	1.82		2.17		1.99	
ANNUAL RUNOFF (INCHES)	24.74		29.46		27.07	
10 PERCENT EXCEEDS	159		168		168	
50 PERCENT EXCEEDS	52		59		50	
90 PERCENT EXCEEDS	6.9		20		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.

