

KANAWHA RIVER BASIN

03164000 NEW RIVER NEAR GALAX, VA

LOCATION.---Lat 36°38'50", long 80°58'44", NAD83, Grayson County, Hydrologic Unit 05050001, on left bank at upstream side of bridge on State Highway 94, 500 ft downstream from Meadow Creek, 1.2 mi southwest of Old Town, 3.1 mi southwest of Galax, and 3.6 mi downstream from Elk Creek.

DRAINAGE AREA.--1,131 mi².

PERIOD OF RECORD.--October 1929 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 758: Drainage area, 1933(M). WSP 893: 1930(M), 1935(M).

GAGE.--Water-stage recorder. Datum of gage is 2,208.04 ft above sea level.

REMARKS.--Records good except those for periods with ice effect, Dec. 22 to Jan. 10 and Jan. 23-25, which are poor. American Electric Power gage-height transmitter at station, recorder at Roanoke. National Weather Service gage-height telemeter at station. U.S. Army Corps of Engineers satellite precipitation and gage-height telemeter at station. Maximum discharge, 141,000 ft³/s, from rating curve extended above 32,000 ft³/s on basis of computation of peak flow over dam at Fries 6 mi downstream and slope-area measurement of peak flow. Minimum discharge, 193 ft³/s, Jan. 9, 1956, gage height, 0.52 ft, result of freezeup. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 9,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 30	1100	10,400	4.10	Jul 30	0430	*14,300	*5.13

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	492	390	598	e500	865	1280	4510	752	1130	1100	3010	824
2	474	388	581	e500	819	1150	3730	769	1210	1100	2160	792
3	465	389	575	e500	750	1070	3090	777	1180	1190	1750	799
4	458	392	560	e500	716	1070	3410	764	1050	1020	1570	771
5	448	390	556	e520	724	1130	2980	849	1020	994	1360	793
6	437	391	548	e520	719	1200	2480	852	951	1090	1230	813
7	423	389	590	e540	695	1130	2120	809	954	931	1060	716
8	407	396	582	e600	685	1060	1830	738	1010	922	946	665
9	397	451	558	e640	685	1030	1620	713	913	2150	879	634
10	394	1400	557	e680	682	1040	1510	707	844	1800	833	644
11	394	1490	548	690	686	982	1460	688	790	1330	849	859
12	398	912	540	743	694	957	1310	676	754	977	1200	747
13	394	671	530	764	685	1080	1330	654	750	840	1600	663
14	391	599	553	803	691	1310	1320	632	869	762	2250	621
15	401	569	591	757	822	1310	1180	620	862	705	1600	587
16	392	542	634	776	1730	1480	1110	674	804	665	1400	577
17	392	537	990	751	2250	1470	1060	1030	792	630	1140	551
18	391	537	1230	738	2090	1340	1050	1510	713	613	963	538
19	394	541	1070	974	1670	1180	1010	1000	643	634	914	534
20	388	537	772	2750	1420	1110	1010	856	612	736	918	552
21	396	526	630	2690	1230	1720	971	1760	663	836	837	600
22	396	433	e600	1720	1140	2550	935	2560	716	740	770	617
23	397	503	e580	e1400	1120	3100	900	3260	971	688	747	585
24	399	565	e560	e1200	1140	2840	873	2230	1000	617	751	597
25	407	608	e540	e1050	1260	2510	855	2380	888	609	819	676
26	406	792	e540	957	1590	2190	850	4950	1720	726	790	685
27	408	885	e520	892	1590	1880	828	3440	2030	1460	791	625
28	436	783	e520	861	1450	1640	800	2270	1520	2170	757	562
29	437	661	e520	818	---	1710	775	1800	1280	5860	746	525
30	413	620	e500	822	---	8110	755	1470	1180	11000	723	510
31	394	---	e500	891	---	6600	---	1240	---	5150	777	---
TOTAL	12819	18287	19173	28547	30598	58229	47662	43430	29819	50045	36140	19662
MEAN	414	610	618	921	1093	1878	1589	1401	994	1614	1166	655
MAX	492	1490	1230	2750	2250	8110	4510	4950	2030	11000	3010	859
MIN	388	388	500	500	682	957	755	620	612	609	723	510
CFSM	.37	.54	.55	.81	.97	1.66	1.40	1.24	.88	1.43	1.03	.58
IN.	.42	.60	.63	.94	1.01	1.92	1.57	1.43	.98	1.65	1.19	.65

03164000 NEW RIVER NEAR GALAX, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1374	1606	1794	2207	2578	2887	2623	2134	1684	1370	1365	1219
MAX	3625	7189	4005	5744	5566	5827	6345	4469	5280	4017	8148	4827
(WY)	1977	1978	1962	1995	1998	1993	1987	1973	1992	1949	1940	1989
MIN	414	504	592	568	630	958	1017	811	614	426	453	381
(WY)	2001	1954	1956	1956	1934	1988	1942	1941	1988	1930	1988	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1930 - 2001
ANNUAL TOTAL	397480	394411	
ANNUAL MEAN	1086	1081	1900
HIGHEST ANNUAL MEAN			2807
LOWEST ANNUAL MEAN			1034
HIGHEST DAILY MEAN	6980	11000	86200
LOWEST DAILY MEAN	388	388	265
ANNUAL SEVEN-DAY MINIMUM	390	390	304
MAXIMUM PEAK FLOW		14300	141000
MAXIMUM PEAK STAGE		5.13	b25.70
INSTANTANEOUS LOW FLOW		344	c193
ANNUAL RUNOFF (CFSM)	.96	.96	1.68
ANNUAL RUNOFF (INCHES)	13.07	12.97	22.82
10 PERCENT EXCEEDS	2200	1810	3420
50 PERCENT EXCEEDS	786	792	1440
90 PERCENT EXCEEDS	450	450	660

- a Also Nov. 2, 2000.
- b From floodmark.
- c Result of freezeup.
- e Estimated.

