Water-Data Report 2013

03196800 ELK RIVER AT CLAY, WV

Kanawha Basin
Elk Subbasin

LOCATION.--Lat 38°27′38″, long 81°05′16″ referenced to North American Datum of 1927, Clay County, WV, Hydrologic Unit 05050007, on upstream side, right bank of County Route 28 bridge in the town of Clay, 1.0 mi downstream from Buffalo Creek, 2.2 mi downstream from Lower Two Run Creek, and at mile 52.4.

DRAINAGE AREA.--992 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1915 to September 1958 (annual maximum gage height, furnished by the National Weather Service), October 1958 to September 1978 (daily discharge and annual maxima), October 1978 to September 1993 (daily mean gage height and annual maxima), October 1993 to September 1994 (annual maximum gage height), October 1994 to September 1998 (annual maxima), October 2002 to September 2008 (annual maximum gage height), October 2008 to September 2012 (annual maximum and minimum gage height), October 2012 to September 2013 (daily mean gage height).

REVISED RECORDS.--WDR WV-82-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 677.28 ft above NGVD 88 (677.88 ft above NGVD 29). Prior to October 2003 at site 0.1 mi upstream at datum 0.42 ft lower. Prior to Mar. 27, 1959, nonrecording gage.

REMARKS.--Flow regulated since 1960 by Sutton Dam.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--20 years (water years 1959-78), 1,926 ft^3/s, 26.31 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,000 ft^3/s, Mar. 15, 1967, gage height, 22.80 ft; minimum discharge, 1.5 ft^3/s, Sept. 22, 1959, gage height, -0.13 ft.

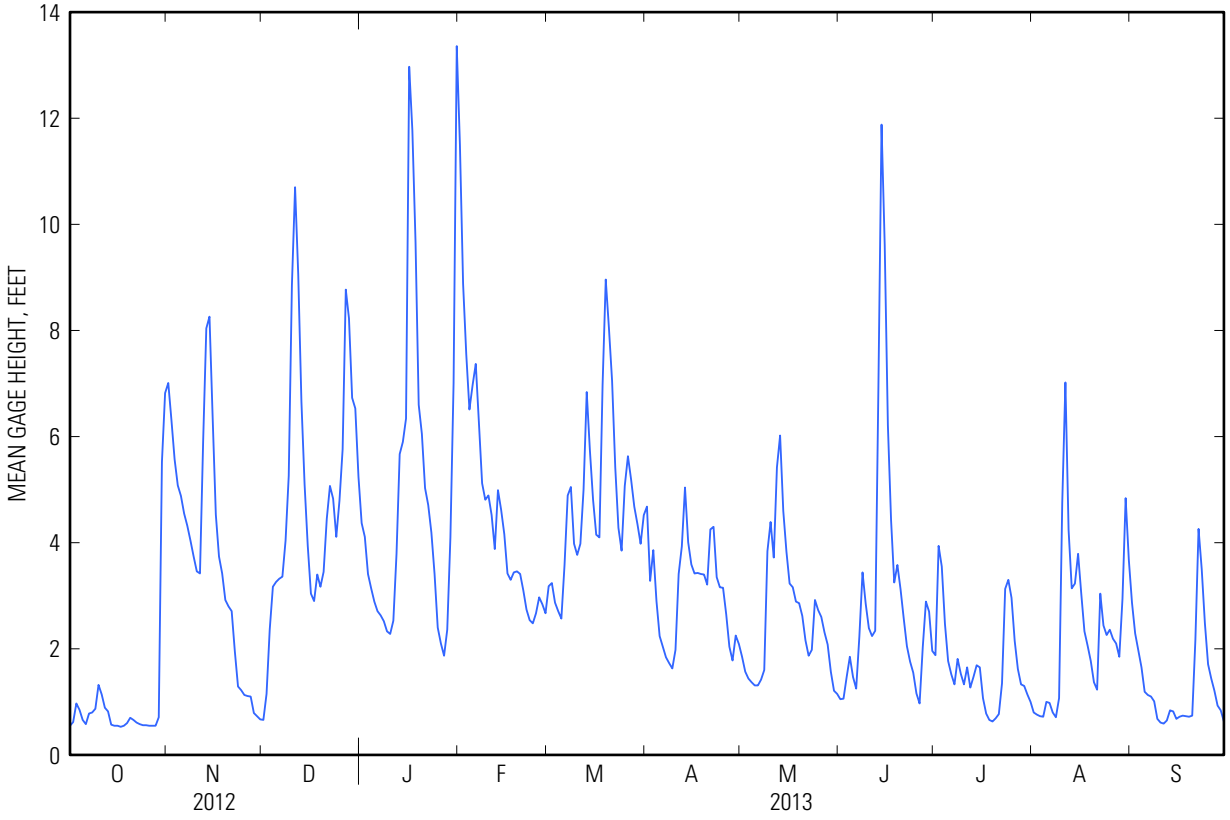
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 14, 1918, reached a stage of 32.4 ft, from reports of National Weather Service.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 15.01 ft, Jan. 16; minimum gage height, 0.52 ft, Oct. 18.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 03196800, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/03196800.2013.pdf

03196800 ELK RIVER AT CLAY, WV—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.55	7.01	0.66	4.37	11.50	3.18	4.68	1.85	1.05	1.88	0.80	2.87
2	0.62	6.31	1.15	4.11	8.88	3.24	3.28	1.57	1.06	3.94	0.76	2.29
3	0.97	5.57	2.36	3.41	7.55	2.87	3.86	1.44	1.47	3.55	0.73	1.97
4	0.85	5.08	3.17	3.14	6.51	2.71	2.90	1.37	1.85	2.47	0.72	1.65
5	0.66	4.88	3.26	2.89	6.97	2.57	2.24	1.31	1.47	1.77	1.00	1.19
6	0.58	4.55	3.32	2.71	7.37	3.58	2.04	1.31	1.25	1.52	0.98	1.13
7	0.78	4.32	3.36	2.63	6.25	4.89	1.84	1.42	2.23	1.33	0.80	1.10
8	0.80	4.04	4.04	2.52	5.12	5.05	1.73	1.60	3.44	1.81	0.71	1.01
9	0.87	3.74	5.26	2.33	4.81	3.98	1.63	3.84	2.85	1.53	1.07	0.68
10	1.32	3.46	8.85	2.28	4.89	3.77	1.98	4.39	2.39	1.33	4.75	0.61
11	1.14	3.42	10.70	2.53	4.52	3.98	3.41	3.72	2.24	1.65	7.02	0.59
12	0.89	5.91	9.05	3.79	3.88	5.00	3.93	5.42	2.34	1.27	4.24	0.65
13	0.82	8.04	6.66	5.67	4.99	6.84	5.04	6.02	6.89	1.47	3.14	0.84
14	0.57	8.26	5.10	5.90	4.62	5.74	4.01	4.60	11.88	1.69	3.23	0.82
15	0.55	6.36	3.94	6.34	4.16	4.81	3.59	3.83	9.61	1.65	3.79	0.68
16	0.55	4.53	3.04	12.97	3.42	4.15	3.42	3.23	6.21	1.07	3.04	0.72
17	0.53	3.74	2.90	11.77	3.30	4.10	3.43	3.16	4.43	0.78	2.33	0.74
18	0.55	3.42	3.40	9.66	3.44	6.97	3.41	2.89	3.25	0.66	2.06	0.73
19	0.60	2.92	3.17	6.60	3.46	8.96	3.40	2.86	3.58	0.63	1.77	0.72
20	0.70	2.80	3.45	6.05	3.41	8.05	3.21	2.62	3.12	0.69	1.37	0.74
21	0.66	2.71	4.45	5.03	3.10	7.05	4.25	2.16	2.57	0.77	1.23	2.17
22	0.61	1.95	5.07	4.71	2.74	5.42	4.30	1.87	2.05	1.35	3.04	4.26
23	0.58	1.29	4.83	4.19	2.54	4.28	3.35	1.98	1.76	3.13	2.44	3.50
24	0.56	1.22	4.11	3.41	2.48	3.85	3.16	2.92	1.55	3.30	2.26	2.48
25	0.56	1.13	4.79	2.40	2.67	5.07	3.15	2.73	1.16	2.96	2.36	1.71
26	0.55	1.11	5.76	2.10	2.97	5.63	2.65	2.60	0.97	2.15	2.19	1.44
27	0.55	1.10	8.77	1.87	2.84	5.19	2.04	2.31	2.03	1.62	2.10	1.21
28	0.55	0.79	8.23	2.36	2.67	4.68	1.78	2.08	2.89	1.33	1.85	0.93
29	0.71	0.73	6.73	4.10	---	4.35	2.25	1.57	2.70	1.30	2.94	0.84
30	5.52	0.67	6.53	7.01	---	3.98	2.09	1.21	1.96	1.14	4.84	0.63
31	6.82	---	5.24	13.36	---	4.52	---	1.15	---	1.00	3.68	---
Mean	1.05	3.70	4.88	4.91	4.68	4.79	3.07	2.61	3.08	1.70	2.36	1.36
Max	6.82	8.26	10.70	13.36	11.50	8.96	5.04	6.02	11.88	3.94	7.02	4.26
Min	0.53	0.67	0.66	1.87	2.48	2.57	1.63	1.15	0.97	0.63	0.71	0.59

03196800 ELK RIVER AT CLAY, WV—Continued