

06471510 ELM RIVER NEAR ORDWAY, SD

James Basin
Elm Subbasin

LOCATION.--Lat 45°33'44.2", long 98°24'44.8" referenced to North American Datum of 1927, in NE ¼ SE ¼ SE ¼ sec.9, T.124 N., R.63 W., Brown County, SD, Hydrologic Unit 10160004, on left bank at upstream side of bridge on Brown County Road 14, 1.1 mi south of Ordway, and 1.9 mi upstream of Aberdeen Municipal water treatment plant dam.

DRAINAGE AREA.--1,518 mi² of which 275 mi² probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1999 to current year (seasonal mean daily gage height and yearly instantaneous peak gage height and discharge). Prior to October 1999 (March to April 1997), at downstream side of bridge, discharge measurements only.

REVISED RECORDS.--WDR SD-10-1: Drainage area.

GAGE.--Seasonal water-stage recorder, crest-stage gage. Elevation of gage is 1,300 ft above NGVD of 1929, from topographic map.

REMARKS.--Gage height records good. Satellite data-collection platform at station. Some regulation at low flow for Aberdeen municipal water supply by dam forming Elm Lake and other small reservoirs upstream, combined capacity, about 16,500 acre-ft. Water temperature and specific conductance measured with each discharge measurement.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,000 ft³/s, Mar. 26, 2009, gage height, 15.65 ft (backwater from ice, from floodmark); maximum gage height, 15.86 ft, Mar. 18, 2010 (backwater from ice).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 8,680 ft³/s (observed), Mar. 31, 1997, gage height, 15.10 ft; maximum gage height, 15.55 ft (observed), Mar. 29, 1997 (backwater from ice).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 46 ft³/s, May 7, gage height, 4.25 ft.

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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	3.60	3.89	4.10	3.60	3.11	3.59	1.68
2	---	---	---	---	---	3.59	3.91	4.09	3.61	3.18	3.55	1.64
3	---	---	---	---	---	3.55	3.88	4.08	3.53	3.10	3.49	1.55
4	---	---	---	---	---	3.58	3.91	4.11	3.47	3.05	3.43	1.48
5	---	---	---	---	---	3.61	3.88	4.15	3.40	2.97	3.38	1.55
6	---	---	---	---	---	3.61	3.82	4.19	3.36	2.90	3.33	1.60
7	---	---	---	---	---	3.62	3.90	4.20	3.36	2.93	3.21	1.64
8	---	---	---	---	---	3.62	3.76	4.17	3.33	3.04	3.13	1.69
9	---	---	---	---	---	3.65	3.73	4.16	3.22	3.20	3.08	1.81
10	---	---	---	---	---	3.71	3.73	4.15	3.33	3.36	3.04	1.88
11	---	---	---	---	---	3.78	3.73	4.11	3.44	3.56	3.00	1.90
12	---	---	---	---	---	3.88	3.72	4.07	3.24	3.70	3.08	1.89
13	---	---	---	---	---	3.93	3.87	4.05	3.13	3.71	3.15	1.91
14	---	---	---	---	---	4.01	3.87	4.03	3.17	3.52	3.18	1.93
15	---	---	---	---	---	4.04	3.98	3.94	3.20	3.38	3.28	1.95
16	---	---	---	---	---	4.08	4.06	3.87	3.18	3.26	3.36	1.96
17	---	---	---	---	---	4.14	4.13	3.81	3.14	3.17	3.40	2.05
18	---	---	---	---	---	4.16	4.13	3.70	3.22	3.19	3.35	2.17
19	---	---	---	---	---	4.17	4.11	3.66	3.22	3.33	3.29	2.25
20	---	---	---	---	---	4.14	4.10	3.65	3.28	3.48	3.22	2.26
21	---	---	---	---	---	4.13	4.12	3.59	3.35	3.53	3.11	2.32
22	---	---	---	---	---	4.12	4.13	3.54	3.28	3.57	2.98	2.41
23	---	---	---	---	---	4.10	4.17	3.56	3.22	3.58	2.86	2.49
24	---	---	---	---	---	4.08	4.12	3.52	3.21	3.55	2.74	2.58
25	---	---	---	---	---	4.05	4.09	3.48	3.17	3.67	2.60	2.66
26	---	---	---	---	---	4.03	4.05	3.46	3.04	3.97	2.52	2.71
27	---	---	---	---	---	4.07	4.09	3.52	2.89	4.01	2.40	2.73
28	---	---	---	---	---	3.98	4.12	3.64	2.82	3.97	2.27	2.76
29	---	---	---	---	---	4.00	4.13	3.69	2.85	3.86	2.13	2.82
30	---	---	---	---	---	4.01	4.10	3.62	2.96	3.72	2.00	2.86
31	---	---	---	---	---	3.94	---	3.64	---	3.61	1.83	---
Mean	---	---	---	---	---	3.90	3.97	3.86	3.24	3.43	3.00	2.10
Max	---	---	---	---	---	4.17	4.17	4.20	3.61	4.01	3.59	2.86
Min	---	---	---	---	---	3.55	3.72	3.46	2.82	2.90	1.83	1.48

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