

06639000 SWEETWATER RIVER NEAR ALCOVA, WY

North Platte Basin
Sweetwater Subbasin

LOCATION.--Lat 42°29'24", long 107°08'00" referenced to North American Datum of 1927, in SE ¼ NE ¼ NE ¼ sec.16, T.29 N., R.86 W., Natrona County, WY, Hydrologic Unit 10180006, on left bank 270 ft upstream from State Highway 220, 0.2 mi southwest of Independence Rock, 7 mi upstream from high-water line of Pathfinder Reservoir at elevation 5,850 ft, and 22 mi southwest of Alcova.

DRAINAGE AREA.--2,338 mi² of which 93 mi² probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1913 to September 1924, October 1938 to current year (no winter records during 1974, 1975, 1977-81, and since 1983). Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1310: 1921, 1923-24. WSP 1710: Drainage area.

GAGE.--Water-stage recorder and sharp-crested weir. Elevation of gage is 5,890 ft above NGVD of 1929, from topographic map. August 28, 1913 to September 30, 1924, nonrecording gages at site 7.0 mi upstream from station at different datums. October 1, 1938 to March 31, 1992, at site 6.6 mi upstream from station at different datum. Wyoming State Engineer's Office data collection platform with satellite telemetry at station.

COOPERATION.--Station operated and record provided by the Wyoming State Engineer's Office; record reviewed by U.S. Geological Survey.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Several small reservoirs upstream from station, combined capacity, about 5,000 acre-ft, for irrigation. Diversions for irrigation upstream from station. Quality of water data were collected and are available at <http://waterdata.usgs.gov/usa/nwis/qw>. Results of discharge measurements made during the period when the station was not in operation are listed in the following table:

Additional Discharge Measurements	
Date	Discharge, in ft ³ /sec
Oct. 3	15.3
Jan. 23	22.9

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,290 ft³/s, April 13, 1924; maximum gage height, 9.90 ft, April 27, 1983; minimum daily discharge, 0.50 ft³/s, July 30, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 541 ft³/s, April 10, gage height, 3.72 ft; minimum daily discharge, 3.1 ft³/s, August 29.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	69	73	39	3.7	7.6	3.3
2	---	---	---	---	---	---	70	67	36	3.8	8.7	3.4
3	---	---	---	---	---	---	75	66	33	3.8	8.5	3.3
4	---	---	---	---	---	---	84	69	33	4.1	8.5	3.4
5	---	---	---	---	---	---	99	69	33	4.1	8.4	3.4
6	---	---	---	---	---	---	106	69	33	3.9	8.0	3.4
7	---	---	---	---	---	---	124	66	24	3.8	8.0	3.4
8	---	---	---	---	---	---	132	62	14	3.8	8.0	e3.7
9	---	---	---	---	---	---	251	61	12	3.7	8.5	e4.0
10	---	---	---	---	---	---	417	57	9.9	3.8	9.4	e4.4
11	---	---	---	---	---	---	319	48	7.0	3.8	8.9	e4.4
12	---	---	---	---	---	---	120	37	8.4	3.8	9.2	4.4
13	---	---	---	---	---	---	101	33	7.0	4.1	4.9	4.3
14	---	---	---	---	---	---	85	29	6.0	4.2	3.8	4.3
15	---	---	---	---	---	---	104	24	5.9	3.8	3.6	4.4
16	---	---	---	---	---	---	122	24	5.9	3.6	3.5	4.1
17	---	---	---	---	---	---	183	24	6.0	3.6	3.4	4.6
18	---	---	---	---	---	---	235	28	5.9	3.7	3.4	4.2
19	---	---	---	---	---	---	163	40	5.7	3.7	3.3	3.8
20	---	---	---	---	---	---	100	46	5.4	3.8	3.3	3.8
21	---	---	---	---	---	---	99	47	5.4	3.7	3.9	3.7
22	---	---	---	---	---	---	99	56	4.4	3.6	5.2	3.9
23	---	---	---	---	---	---	98	54	4.2	3.6	3.7	3.9
24	---	---	---	---	---	---	93	48	4.0	3.8	3.4	3.9
25	---	---	---	---	---	---	82	45	3.8	4.3	3.3	3.7
26	---	---	---	---	---	---	79	44	3.8	3.9	3.3	4.3
27	---	---	---	---	---	---	76	45	3.8	3.8	3.3	5.5
28	---	---	---	---	---	---	76	42	3.8	3.9	3.2	5.4
29	---	---	---	---	---	---	75	42	3.8	3.8	3.1	6.8
30	---	---	---	---	---	---	74	41	3.8	3.8	3.2	6.8
31	---	---	---	---	---	---	---	41	---	3.8	3.2	---
Total	---	---	---	---	---	---	3,810	1,497	370.9	118.6	169.7	125.9
Mean	---	---	---	---	---	---	127	48.3	12.4	3.83	5.47	4.20
Max	---	---	---	---	---	---	417	73	39	4.3	9.4	6.8
Min	---	---	---	---	---	---	69	24	3.8	3.6	3.1	3.3
Ac-ft	---	---	---	---	---	---	7,560	2,970	736	235	337	250

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