

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. 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. 26	50.7
Mar. 29	80.6

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, 918 ft³/s, June 23, gage height, 5.07 ft; minimum daily discharge, 28 ft³/s, September 30.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	78	154	698	748	148	39
2	---	---	---	---	---	---	75	153	659	757	147	36
3	---	---	---	---	---	---	84	157	648	716	140	34
4	---	---	---	---	---	---	89	148	675	674	133	35
5	---	---	---	---	---	---	92	143	687	680	126	36
6	---	---	---	---	---	---	109	138	690	699	118	37
7	---	---	---	---	---	---	106	138	711	699	111	39
8	---	---	---	---	---	---	97	140	708	639	109	41
9	---	---	---	---	---	---	101	145	690	585	109	40
10	---	---	---	---	---	---	97	157	690	517	106	40
11	---	---	---	---	---	---	96	202	716	471	102	41
12	---	---	---	---	---	---	96	255	755	447	98	40
13	---	---	---	---	---	---	100	291	800	426	97	40
14	---	---	---	---	---	---	105	300	848	406	92	41
15	---	---	---	---	---	---	113	273	850	377	89	40
16	---	---	---	---	---	---	118	264	828	353	87	39
17	---	---	---	---	---	---	123	301	799	349	86	39
18	---	---	---	---	---	---	125	335	802	349	82	38
19	---	---	---	---	---	---	131	373	818	324	79	36
20	---	---	---	---	---	---	144	412	861	298	75	31
21	---	---	---	---	---	---	167	457	864	277	70	31
22	---	---	---	---	---	---	190	479	890	266	67	30
23	---	---	---	---	---	---	193	465	913	251	63	29
24	---	---	---	---	---	---	183	455	874	237	58	30
25	---	---	---	---	---	---	167	483	824	220	56	30
26	---	---	---	---	---	---	157	506	781	201	53	30
27	---	---	---	---	---	---	153	538	717	186	48	31
28	---	---	---	---	---	---	157	569	689	174	46	32
29	---	---	---	---	---	---	159	619	696	163	46	31
30	---	---	---	---	---	---	160	676	722	153	45	28
31	---	---	---	---	---	---	---	715	---	148	42	---
Total	---	---	---	---	---	---	3,765	10,441	22,903	12,790	2,728	1,064
Mean	---	---	---	---	---	---	126	337	763	413	88.0	35.5
Max	---	---	---	---	---	---	193	715	913	757	148	41
Min	---	---	---	---	---	---	75	138	648	148	42	28
Ac-ft	---	---	---	---	---	---	7,470	20,710	45,430	25,370	5,410	2,110

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