



Water-Data Report 2007

06223500 WILLOW CREEK NEAR CROWHEART, WY

Big Horn Basin
Upper Wind Subbasin

LOCATION.--Lat 43°17'00", long 109°11'08" referenced to North American Datum of 1927, in SE ¼ NW ¼ NW ¼ sec.36, T.4 N., R.4 W., Fremont County, WY, Hydrologic Unit 10080001, Wind River Indian Reservation, on left bank 1000 ft upstream from Willow Creek Canal diversion and 2.0 mi south of Crowheart.

DRAINAGE AREA.--55.4 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June to October 1909 (published as "J. K. Ranch Post Office"), June 1921 to September 1922 (published as "near Lenore"), May and June 1923, May 1925 to September 1940, October 1988 to May 2007 (no winter record since 1995)(discontinued).

REVISED RECORDS.--WSP 1309: 1939 (M).

GAGE.--Water-stage recorder. Elevation of gage is 6,080 ft above NGVD of 1929, from topographic map. May 17 to October 31, 1909, nonrecording gage 1.9 mi downstream at different datum, May 16, 1921 to August 24, 1923, nonrecording gage 200 ft upstream from station at different datum, and May 1925 to September 1940, water-stage recorder 600 ft downstream from station at different datum. U.S. Geological Survey data collection platform at station.

REMARKS.--Records good. Diversions for irrigation of 60.1 acres upstream from station. 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
Mar. 28	5.43

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,100 ft³/s, May 31, 1939, on basis of flow-over-dam measurement of peak flow, gage height, 5.40 ft, site and datum then in use; minimum daily discharge, 2.0 ft³/s, December 1, 1939.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 104 ft³/s, May 20, gage height, 3.04 ft; minimum daily discharge, 4.3 ft³/s, April 6,7,10-15.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	4.7	5.9	---	---	---	---
2	---	---	---	---	---	---	4.6	6.5	---	---	---	---
3	---	---	---	---	---	---	4.4	6.9	---	---	---	---
4	---	---	---	---	---	---	4.4	7.0	---	---	---	---
5	---	---	---	---	---	---	4.4	9.8	---	---	---	---
6	---	---	---	---	---	---	4.3	8.7	---	---	---	---
7	---	---	---	---	---	---	4.3	8.6	---	---	---	---
8	---	---	---	---	---	---	4.4	8.5	---	---	---	---
9	---	---	---	---	---	---	4.4	7.9	---	---	---	---
10	---	---	---	---	---	---	4.3	7.5	---	---	---	---
11	---	---	---	---	---	---	4.3	7.5	---	---	---	---
12	---	---	---	---	---	---	4.3	7.6	---	---	---	---
13	---	---	---	---	---	---	4.3	26	---	---	---	---
14	---	---	---	---	---	---	4.3	55	---	---	---	---
15	---	---	---	---	---	---	4.3	46	---	---	---	---
16	---	---	---	---	---	---	4.4	47	---	---	---	---
17	---	---	---	---	---	---	4.4	54	---	---	---	---
18	---	---	---	---	---	---	4.4	68	---	---	---	---
19	---	---	---	---	---	---	4.4	69	---	---	---	---
20	---	---	---	---	---	---	4.4	69	---	---	---	---
21	---	---	---	---	---	---	4.5	59	---	---	---	---
22	---	---	---	---	---	---	4.4	29	---	---	---	---
23	---	---	---	---	---	---	4.5	20	---	---	---	---
24	---	---	---	---	---	---	4.5	17	---	---	---	---
25	---	---	---	---	---	---	4.6	16	---	---	---	---
26	---	---	---	---	---	---	4.6	16	---	---	---	---
27	---	---	---	---	---	---	4.6	18	---	---	---	---
28	---	---	---	---	---	---	4.7	51	---	---	---	---
29	---	---	---	---	---	---	5.0	38	---	---	---	---
30	---	---	---	---	---	---	5.4	23	---	---	---	---
31	---	---	---	---	---	---	---	23	---	---	---	---
Total	---	---	---	---	---	---	134.5	836.4	---	---	---	---
Mean	---	---	---	---	---	---	4.48	27.0	---	---	---	---
Max	---	---	---	---	---	---	5.4	69	---	---	---	---
Min	---	---	---	---	---	---	4.3	5.9	---	---	---	---
Ac-ft	---	---	---	---	---	---	267	1,660	---	---	---	---

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