

06659500 LARAMIE RIVER AND PIONEER CANAL NEAR WOODS, WY

North Platte Basin
Upper Laramie Subbasin

LOCATION.--Lat 41°08'17", long 105°58'49" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.36, T.14 N., R.77 W., Albany County, WY, Hydrologic Unit 10180010, on left bank 100 ft upstream from diversion dam for Pioneer Canal, 2.2 mi downstream from Fox Creek, 2.5 mi northeast of Woods, and 23 mi southwest of Laramie. Canal: Lat 41°08'21", long 105°58'45", in SE¼ NE¼ sec.36, T.14 N., R.77 W., Albany County, Hydrologic Unit 10180010, on left bank 400 ft downstream from headgate.

DRAINAGE AREA.--434 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1912 to September 1924, October 1926 to September 1927, October 1931 to current year (no winter records for river since 1972; no winter records for canal 1972 to 1996). Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1310: 1918-20, 1922, 1924. WSP 1710: Drainage area. WDR WY-84-1: 1983.

GAGE.--River: Water-stage recorder and concrete control. Elevation of gage is 7,388.99 ft above NGVD of 1929. April 16 to November 15, 1912, nonrecording gage and November 16, 1912 to September 22, 1915, water-stage recorder 90 ft downstream from station between dam crest and canal headgates at datum 1.00 ft higher. September 23, 1915 to September 30, 1924, April 19 to September 30, 1927, and April 11, 1932 to September 30, 1935, water-stage recorder at site 50 ft downstream from station at datum 1.00 ft higher. October 1, 1935 to July 13, 1950, water-stage recorder at site 50 ft downstream from station at present datum. Canal: Water-stage recorder and Parshall flume. Elevation of gage is 7,390 ft above NGVD of 1929, from topographic map. April 16, 1912 to April 10, 1923, nonrecording gage; April 11, 1923 to September 30, 1924, and April 19 to June 9, 1927, water-stage recorder; June 10 to September 30, 1927, and April 11, 1932 to May 8, 1938, nonrecording gage; May 9, 1938 to April 26, 1966, water-stage recorder at site 1.5 mi downstream from station at different datums. April 27, 1966 to May 8, 1967, at present site, at datum 0.06 ft lower. From 2002 through 2010, the City of Laramie pipeline diverted water immediately adjacent to Pioneer Canal and merged with Pioneer Canal just below the flume. This diverted flow was added to the discharge record from 2002 through 2010. In 2011 the pipeline was rerouted and Pioneer Canal was no longer used to convey the diverted water. Flows from the pipeline are no longer included beginning in 2011.

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

REMARKS.--Records fair. Pioneer Canal diverts from left bank of river at diversion dam 100 ft downstream from station for irrigation in vicinity of Laramie. Records show combined flow of river and canal. Three small reservoirs upstream from station in Wyoming, total capacity, about 600 acre-ft for irrigation, stock water, and domestic use. Diversions for irrigation upstream from station. Transbasin diversions upstream from station to Cache la Poudre River and tributaries. National Weather Service, in cooperation with Wyoming State Engineer's Office, has data collection platform with satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,060 ft³/s, June 10, 1923; minimum daily discharge, 0 ft³/s, May 1, 1912.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,080 ft³/s, June 8; minimum daily discharge, 69 ft³/s, September 5.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	96	161	1,320	2,240	245	75
2	---	---	---	---	---	---	111	159	1,580	1,820	279	75
3	---	---	---	---	---	---	163	150	1,990	1,620	257	70
4	---	---	---	---	---	---	e118	160	2,090	1,520	244	70
5	---	---	---	---	---	---	115	169	2,250	1,460	210	69
6	---	---	---	---	---	---	127	198	2,440	1,410	180	71
7	---	---	---	---	---	---	111	248	2,780	1,330	166	110
8	---	---	---	---	---	---	118	370	2,870	1,470	152	111
9	---	---	---	---	---	---	143	488	2,780	1,670	141	90
10	---	---	---	---	---	---	145	530	2,670	1,290	130	81
11	---	---	---	---	---	---	128	554	2,380	1,100	123	78
12	---	---	---	---	---	---	129	487	2,240	1,040	116	76
13	---	---	---	---	---	---	125	450	2,260	1,110	108	74
14	---	---	---	---	---	---	145	509	2,240	1,040	103	82
15	---	---	---	---	---	---	132	482	2,250	898	113	105
16	---	---	---	---	---	---	129	583	2,290	874	119	149
17	---	---	---	---	---	---	126	675	2,530	794	127	133
18	---	---	---	---	---	---	181	720	2,570	741	114	124
19	---	---	---	---	---	---	277	744	2,280	831	101	119
20	---	---	---	---	---	---	225	688	2,130	845	133	104
21	---	---	---	---	---	---	235	666	2,270	651	125	96
22	---	---	---	---	---	---	263	774	2,010	523	110	94
23	---	---	---	---	---	---	217	869	1,960	437	99	93
24	---	---	---	---	---	---	203	1,020	2,030	372	93	89
25	---	---	---	---	---	---	203	975	2,160	343	91	86
26	---	---	---	---	---	---	197	978	2,130	314	92	85
27	---	---	---	---	---	---	182	1,070	2,000	370	96	82
28	---	---	---	---	---	---	169	1,030	1,880	334	94	81
29	---	---	---	---	---	---	187	1,010	1,790	291	101	80
30	---	---	---	---	---	---	174	1,350	1,930	255	97	80
31	---	---	---	---	---	---	---	1,280	---	232	82	---
Total	---	---	---	---	---	---	4,874	19,547	66,100	29,225	4,241	2,732
Mean	---	---	---	---	---	---	162	631	2,203	943	137	91.1
Max	---	---	---	---	---	---	277	1,350	2,870	2,240	279	149
Min	---	---	---	---	---	---	96	150	1,320	232	82	69
Ac-ft	---	---	---	---	---	---	9,670	38,770	131,100	57,970	8,410	5,420

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