

REPUBLICAN RIVER BASIN
PIONEER DITCH AT THE COLORADO-NEBRASKA STATELINE
Irrigation Year 2012

Location.-- Lat. 40°03'25", Long. 102°03'10", SW¼SW¼ sec. 10, T.1 N., R.42 W., Yuma County; 1200 ft south of U.S. Highway 34 at Colorado/Nebraska State line.

Drainage Area and Period of Record.-- Controlled diversion from the North Fork of the Republican River. Since the ditch is senior to any downstream users, it will frequently dry the river at its headgate, which is about 5 miles from the Stateline. Rush Creek comes into the river between the Pioneer headgate and the USGS gage on the Stateline. Nebraska also maintains a gage at the end of the ditch where wastewater tails back into the Arikaree River (aka "Middle Fork of the Republican River"). This is at a point just above where the Arikaree confluences with the North Fork of the Republican River. ; The record must be carefully checked to make sure the positive shift, combined with the gage not being able to record below a certain level, does not generate false discharges when the flow is really zero. Nebraska measurements are used in the record. However, when a Nebraska measurement shows less than the standard width for the notched board section, the shift usually does not line up with Colorado measurements. In that case we will % adjust the Nebraska measurement or note it as "Not Used". Maintenance, particularly cleaning the well, continues to be a serious issue at this gage.

DISCHARGE, IN CFS, IRRIGATION YEAR NOVEMBER 2011 TO OCTOBER 2012

MEAN VALUES												
DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	---	---	---	---	---	---	17	15	18	19	16	17
2	---	---	---	---	---	---	21	19	18	19	16	15
3	---	---	---	---	---	---	20	19	17	17	18	16
4	---	---	---	---	---	---	20	18	16	17	17	14
5	---	---	---	---	---	---	21	17	17	16	16	12
6	---	---	---	---	---	---	20	7.2	16	17	16	8.4
7	---	---	---	---	---	---	19	11	16	17	17	8.7
8	---	---	---	---	---	---	21	19	19	17	19	9.0
9	---	---	---	---	---	---	20	19	21	17	19	8.4
10	---	---	---	---	---	---	22	18	20	15	19	7.6
11	---	---	---	---	---	0.00	20	18	19	15	19	7.9
12	---	---	---	---	---	0.00	15	19	18	15	19	8.6
13	---	---	---	---	---	0.00	17	18	18	15	20	9.0
14	---	---	---	---	---	0.00	19	18	18	15	20	11
15	---	---	---	---	---	0.00	16	18	19	15	20	12
16	---	---	---	---	---	0.00	12	19	17	14	20	17
17	---	---	---	---	---	1.2	12	20	17	14	20	14
18	---	---	---	---	---	5.8	12	19	9.9	14	20	13
19	---	---	---	---	---	0.26	12	17	16	15	20	17
20	---	---	---	---	---	9.1	13	16	17	15	20	15
21	---	---	---	---	---	1.7	12	16	16	15	21	15
22	---	---	---	---	---	6.3	11	18	16	15	21	15
23	---	---	---	---	---	11	11	18	15	18	21	16
24	---	---	---	---	---	16	11	17	16	19	20	15
25	---	---	---	---	---	18	9.5	18	16	19	18	13
26	---	---	---	---	---	21	7.6	18	16	18	18	12
27	---	---	---	---	---	11	7.3	15	15	19	18	12
28	---	---	---	---	---	3.3	9.1	16	15	18	18	12
29	---	---	---	---	---	10	12	17	15	17	12	12
30	---	---	---	---	---	13	16	18	17	16	12	15
31	---	---	---	---	---	---	16	---	19	16	---	16
TOTAL	---	---	---	---	---	127.66	471.5	515.2	522.9	508	550	393.6
MEAN	---	---	---	---	---	6.38	15.2	17.2	16.9	16.4	18.3	12.7
AC-FT	---	---	---	---	---	253	935	1020	1040	1010	1090	781
MAX	---	---	---	---	---	21	22	20	21	19	21	17
MIN	---	---	---	---	---	0.00	7.3	7.2	9.9	14	12	7.6

CAL YR	2011	TOTAL	2480.34	MEAN	8.49	MAX	23	MIN	0.00	AC-FT	4920
IY YR	2012	TOTAL	3088.86	MEAN	15.1	MAX	22	MIN	0.00	AC-FT	6130