

REPUBLICAN RIVER BASIN  
PIONEER DITCH AT THE COLORADO-NEBRASKA STATELINE

Irrigation Year 2016

Location.-- Lat. N. 40°03'39"; Long. W. 102°03'4.70" (WGS84) on the right bank of the Pioneer Ditch at a 4 ft. Parshall flume 6.77 miles northwest of Haigler, NE, 1200 ft. south of US 34 near the Colorado-Nebraska Stateline.

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.;

DISCHARGE, IN CFS, IRRIGATION YEAR NOVEMBER 2015 TO OCTOBER 2016

MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2	11	16	16	13
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.1	11	16	15	13
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.6	7.6	16	14	9.4
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	7.1	16	14	11
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.6	7.8	16	14	8.2
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	6.3	16	12	8.6
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.7	6.2	15	13	10
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	6.3	14	13	10
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	9.6	14	17	11
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.5	9.9	16	17	14
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.8	10	16	17	15
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	11	16	17	17
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12	9.2	9.9	15	18
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.9	8.8	9.0	15	17
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.0	5.8	11	15	17
16	0.00	0.00	0.00	0.00	0.00	0.00	4.3	11	5.8	12	14	16
17	0.00	0.00	0.00	0.00	0.00	0.00	10	12	5.9	12	12	15
18	0.00	0.00	0.00	0.00	0.00	0.00	10	14	8.3	12	12	14
19	0.00	0.00	0.00	0.00	0.00	0.00	10	14	14	11	12	12
20	0.00	0.00	0.00	0.00	0.00	0.00	9.8	15	15	9.3	9.5	11
21	0.00	0.00	0.00	0.00	0.00	0.00	9.6	15	15	14	9.8	10
22	0.00	0.00	0.00	0.00	0.00	0.00	9.7	15	15	14	12	11
23	0.00	0.00	0.00	0.00	0.00	0.00	10	15	15	14	12	13
24	0.00	0.00	0.00	0.00	0.00	0.00	12	16	16	15	9.3	15
25	0.00	0.00	0.00	0.00	0.00	0.00	13	16	16	15	9.4	15
26	0.00	0.00	0.00	0.00	0.00	0.00	14	16	16	15	9.4	17
27	0.00	0.00	0.00	0.00	0.00	0.00	10	16	16	16	9.5	19
28	0.00	0.00	0.00	0.00	0.00	0.00	2.0	16	16	16	9.5	19
29	0.00	0.00	0.00	0.00	0.00	0.00	2.0	15	16	15	11	19
30	0.00	0.00	0.00	---	0.00	0.00	1.5	15	16	15	14	11
31	---	0.00	0.00	---	0.00	---	1.5	---	16	16	---	0.00
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	129.40	310.0	349.6	438.2	389.4	409.20
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	4.17	10.3	11.3	14.1	13.0	13.2
AC-FT	0	0	0	0	0	0	257	615	693	869	772	812
MAX	0.00	0.00	0.00	0.00	0.00	0.00	14	16	16	16	17	19
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2	5.8	9.0	9.3	0.00
CAL YR	2015	TOTAL	1831.22	MEAN	5.02	MAX	17	MIN	0.00	AC-FT	3630	
IY YR	2016	TOTAL	2025.80	MEAN	5.53	MAX	19	MIN	0.00	AC-FT	4020	

FOR MORE COMPLETE OR DETAILED INFORMATION SEE DAILY OR MONTHLY RECORD.

# PIONEER DITCH AT THE COLORADO-NEBRASKA STATELINE IY2016 HYDROGRAPH

