

Water-Data Report 2012

06852500 Courtland Canal at Nebraska-Kansas Stateline

Republican Basin
Middle Republican Subbasin

LOCATION.--Lat 40°00'15", long 98°07'55" referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.32, T.1 N., R.7 W., Nuckolls County, NE, Hydrologic Unit 10250016, on left bank 0.2 mi upstream from Nebraska-Kansas State line and 3.5 mi southwest of Superior, NE.

DRAINAGE AREA.--N.A.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--DAILY DISCHARGE--October 1954 to current year.

PERIOD OF RECORD.--DAILY GAGE HEIGHT--October 2009 to current year.

GAGE.--Water-stage recorder with satellite telemetry and a concrete Parshall flume control. Datum of gage is 1,612.46 ft above sea level.

REMARKS.--Records good. Flow is completely regulated by Courtland diversion dam on the Republican River. There are numerous diversions above the station for irrigation.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e0.00	188	278	457	149							
2	e0.00	190	311	449	120							
3	e0.00	187	339	440	87							
4	e0.00	182	320	411	70							
5	e0.00	175	255	410	89							
6	e0.00	192	228	397	113							
7	e0.00	208	224	363	72							
8	e0.00	204	229	321	52							
9	e0.00	197	246	276	50							
10	e0.00	195	256	255	35							
11	e0.00	212	239	251	41							
12	e0.00	222	223	253	37							
13	e0.00	225	213	257	42							
14	e0.00	236	196	264	44							
15	e0.00	225	185	261	43							
16	e0.00	196	214	254	40							
17	e0.00	192	217	253	38							
18	e0.00	190	221	263	37							
19	e0.00	65	170	268	261	37						
20	e0.00	64	167	303	258	35						
21	e0.00	71	209	315	255	34						
22	e0.00	79	195	316	252	32						
23	e0.00	89	168	334	251	30						
24	e0.00	118	165	337	313	30						
25	e0.00	138	164	329	364	32						
26	e0.00	140	162	330	333	32						
27	e0.00	140	197	376	313	31						
28	e0.00	139	221	411	269	30						
29	e0.00	159	241	421	181	30						
30	e0.00	e0.00	e0.00	e0.00	---	e0.00	e0.00	171	266	442	98	30
31	e0.00	---	e0.00	e0.00	---	e0.00	---	180	---	461	106	---
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,605.00	5,941	9,037	9,089	1,542
Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.8	198	292	293	51.4
Max	0.00	0.00	0.00	0.00	0.00	0.00	0.00	180	266	461	457	149
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	162	185	98	30
Ac-ft	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3,180	11,780	17,920	18,030	3,060

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2012, BY WATER YEAR (WY)

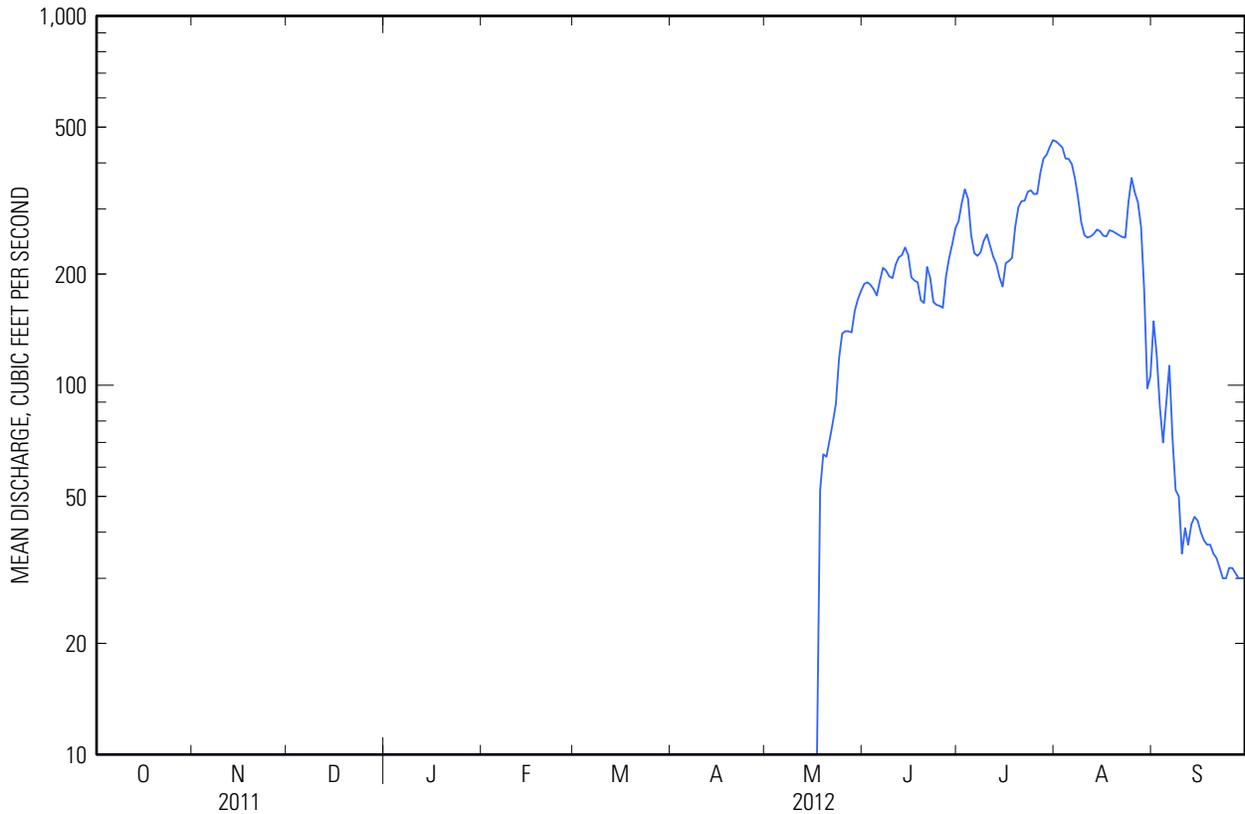
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	29.3	13.4	7.79	8.46	8.36	12.1	18.6	51.7	111	318	254	63.5
Max	464	212	75.0	84.4	91.1	187	109	237	362	627	570	205
(WY)	(1958)	(1967)	(2001)	(1992)	(2007)	(2000)	(2000)	(1958)	(1988)	(1976)	(1976)	(1995)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.9	12.5	0.64	0.00
(WY)	(1955)	(1955)	(1955)	(1955)	(1955)	(1955)	(1955)	(1957)	(2004)	(2005)	(2004)	(1977)

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SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1955 - 2012	
Annual total	15,755.40		27,214.00			
Annual mean	43.2		74.4		75.4	
Highest annual mean					138	1976
Lowest annual mean					19.5	1955
Highest daily mean	257	Jul 15	461	Jul 31	731	Oct 22, 1957
Lowest daily mean	0.00	Jan 1	0.00	Oct 1	^a 0.00	Oct 1, 1954
Annual seven-day minimum	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1954
Maximum peak flow			475	Jul 31		
Maximum peak stage			3.79	Jul 31		
Annual runoff (ac-ft)	31,250		53,980		54,610	
10 percent exceeds	161		259		254	
50 percent exceeds	0.00		0.00		0.00	
90 percent exceeds	0.00		0.00		0.00	

^a No flow for many days every year.



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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	2.13	2.78	3.71	1.86
2	---	---	---	---	---	---	---	---	2.15	2.96	3.67	1.63
3	---	---	---	---	---	---	---	---	2.13	3.11	3.63	1.34
4	---	---	---	---	---	---	---	---	2.09	3.01	3.49	1.19
5	---	---	---	---	---	---	---	---	2.05	2.63	3.48	1.36
6	---	---	---	---	---	---	---	---	2.18	2.46	3.42	1.58
7	---	---	---	---	---	---	---	---	2.30	2.43	3.24	1.19
8	---	---	---	---	---	---	---	---	2.27	2.47	3.02	0.98
9	---	---	---	---	---	---	---	---	2.22	2.57	2.77	0.95
10	---	---	---	---	---	---	---	---	2.22	2.65	2.64	0.74
11	---	---	---	---	---	---	---	---	2.34	2.53	2.61	0.84
12	---	---	---	---	---	---	---	---	2.41	2.42	2.62	0.78
13	---	---	---	---	---	---	---	---	2.44	2.35	2.65	0.86
14	---	---	---	---	---	---	---	---	2.51	2.23	2.70	0.88
15	---	---	---	---	---	---	---	---	2.43	2.14	2.68	0.87
16	---	---	---	---	---	---	---	---	2.23	2.36	2.63	0.83
17	---	---	---	---	---	---	---	---	2.20	2.38	2.62	0.82
18	---	---	---	---	---	---	---	---	2.19	2.41	2.69	0.81
19	---	---	---	---	---	---	---	1.09	2.03	2.71	2.68	0.81
20	---	---	---	---	---	---	---	1.08	2.00	2.91	2.66	0.78
21	---	---	---	---	---	---	---	1.15	2.32	2.98	2.63	0.77
22	---	---	---	---	---	---	---	1.22	2.21	2.99	2.62	0.74
23	---	---	---	---	---	---	---	1.32	2.02	3.09	2.61	0.72
24	---	---	---	---	---	---	---	1.57	2.00	3.11	2.97	0.73
25	---	---	---	---	---	---	---	1.73	1.99	3.06	3.24	0.75
26	---	---	---	---	---	---	---	1.75	1.97	3.06	3.08	0.76
27	---	---	---	---	---	---	---	1.75	2.23	3.31	2.97	0.75
28	---	---	---	---	---	---	---	1.74	2.41	3.49	2.71	0.74
29	---	---	---	---	---	---	---	1.90	2.54	3.54	2.10	0.73
30	---	---	---	---	---	---	---	2.00	2.70	3.64	1.43	0.73
31	---	---	---	---	---	---	---	2.07	---	3.73	1.50	---
Mean	---	---	---	---	---	---	---	---	2.23	2.82	2.82	0.95
Max	---	---	---	---	---	---	---	---	2.70	3.73	3.71	1.86
Min	---	---	---	---	---	---	---	---	1.97	2.14	1.43	0.72

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