Water-Data Report 2013

06674500 NORTH PLATTE RIVER AT WYOMING-NEBRASKA STATE LINE

North Platte Basin
Middle North Platte-Scotts Bluff Subbasin

LOCATION.--Lat 41°59′19″, long 104°03′10″ referenced to North American Datum of 1927, in SE ¼ SE ¼ SE ¼ sec.3, T.23 N., R.60 W., Goshen County, WY, Hydrologic Unit 10180009, on right bank 2000 ft upstream from bridge on NE State Highway 86, 250 ft upstream from Wyoming-Nebraska State line, and 0.7 mi southeast of Henry, NE.

DRAINAGE AREA.--22,218 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1929 to current year.

REVISED RECORDS.--WDR WY-76-1: Drainage area.

GAGE.--Water-stage recorder. Sheet-piling control since March 9, 1994. Elevation of gage is 4,025 ft above NGVD of 1929, from topographic map. Prior to November 6, 1929, non-recording gage and November 6, 1929 to September 30, 1959, water-stage recorder at site 0.2 mi upstream from station at different datum. October 7, 1959 to February 22, 1972 water-stage recorder at site 0.2 mi upstream at different datum. February 22, 1972 to March 9, 1994, water-stage recorder at site 0.3 mi downstream from station at different datum. U.S. Geological Survey data collection platform with satellite telemetry at station.

COOPERATION.--Eight discharge measurements provided by Wyoming State Engineer's Office and seven discharge measurements provided by the Nebraska Department of Natural Resources.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, transbasin diversions, power development, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas. Gering-Mitchell Canal diverts from right bank 0.5 mi upstream from station. Quality of water data were collected and are available at http://waterdata.usgs.gov/usa/nwis/qw.

06674500 NORTH PLATTE RIVER AT WYOMING-NEBRASKA STATE LINE—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

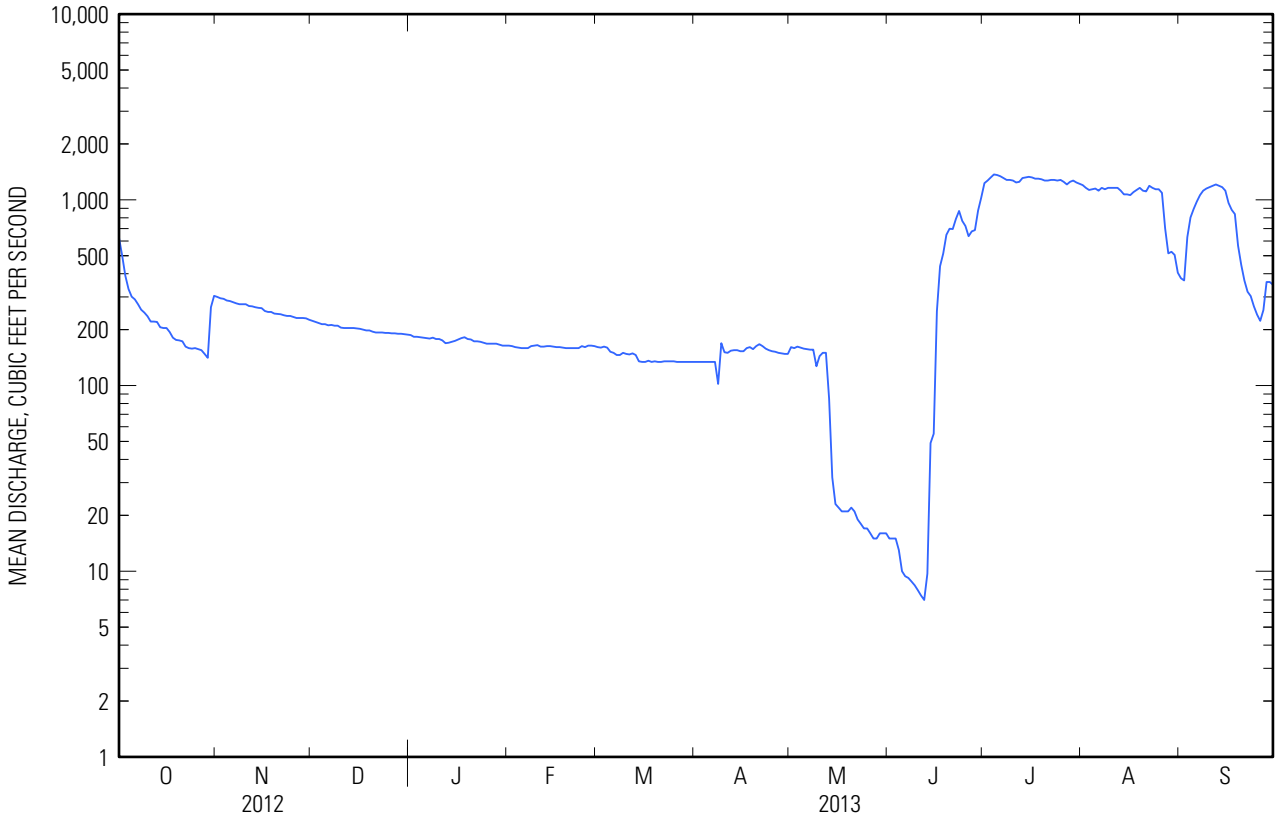
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	625	300	223	e187	164	161	134	161	15	1,230	1,200	378
2	501	295	220	183	163	160	134	159	15	1,270	1,160	368
3	390	293	217	e183	161	162	134	162	15	1,320	1,130	630
4	331	287	214	e182	160	e160	134	160	13	1,370	1,140	803
5	301	285	214	181	159	152	134	158	10	1,360	1,150	893
6	291	281	211	e180	159	150	134	157	9.4	1,340	1,120	979
7	274	277	212	179	159	146	134	156	9.2	1,310	1,160	1,060
8	256	274	210	181	163	146	102	156	8.8	1,280	1,140	1,120
9	247	274	e210	178	164	150	169	127	8.4	1,280	1,160	1,150
10	236	274	e205	178	165	148	151	144	7.9	1,270	1,160	1,170
11	221	268	204	e175	162	147	150	150	7.4	1,240	1,160	1,190
12	221	267	204	e169	162	149	154	150	7.0	1,250	1,160	1,210
13	220	264	204	e170	163	146	155	85	9.7	1,310	1,120	1,190
14	206	262	204	e172	163	135	155	32	49	1,320	1,070	1,170
15	204	261	203	e174	162	134	153	23	55	1,330	1,070	1,120
16	204	252	202	e177	161	134	153	22	251	1,320	1,060	962
17	194	249	200	e180	161	136	159	21	439	1,300	1,100	883
18	181	249	198	182	160	134	161	21	514	1,300	1,130	838
19	176	244	198	178	159	135	157	21	648	1,290	1,160	567
20	175	243	e195	177	159	134	163	22	699	1,270	1,120	447
21	173	242	193	173	159	134	167	21	696	1,270	1,110	368
22	162	239	193	173	159	135	163	19	789	1,280	1,190	320
23	159	237	193	172	159	135	158	18	871	1,280	1,160	303
24	158	237	192	170	163	135	155	17	770	1,270	1,140	267
25	159	234	192	168	161	135	153	17	723	1,280	1,140	241
26	157	231	e191	168	164	134	152	16	637	1,250	1,090	223
27	155	231	e191	168	164	134	150	15	676	1,210	702	255
28	148	231	e190	168	163	134	149	15	687	1,250	515	361
29	141	230	e190	166	---	134	148	16	876	1,270	525	361
30	264	226	e189	164	---	134	148	16	1,030	1,240	505	349
31	304	---	188	164	---	134	---	16	---	1,220	405	---
Total	7,434	7,737	6,250	5,420	4,521	4,397	4,463	2,273	10,545.8	39,780	32,152	21,176
Mean	240	258	202	175	161	142	149	73.3	352	1,283	1,037	706
Max	625	300	223	187	165	162	169	162	1,030	1,370	1,200	1,210
Min	141	226	188	164	159	134	102	15	7.0	1,210	405	223
Ac-ft	14,750	15,350	12,400	10,750	8,970	8,720	8,850	4,510	20,920	78,900	63,770	42,000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	471	391	344	305	308	490	635	1,139	1,633	1,595	1,313	878
Max	1,666	1,454	895	751	1,063	4,202	4,499	7,226	10,360	7,170	5,751	4,766
(WY)	(1987)	(1987)	(1930)	(1930)	(1984)	(1974)	(2011)	(1971)	(1929)	(1983)	(1983)	(1983)
Min	99.2	169	138	117	118	107	12.7	0.00	35.8	611	154	120
(WY)	(2007)	(2005)	(2005)	(2005)	(2004)	(2007)	(2007)	(2004)	(2004)	(1934)	(1934)	(2004)

06674500 NORTH PLATTE RIVER AT WYOMING-NEBRASKA STATE LINE—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1929 - 2013	
Annual total	217,574		146,148.8			
Annual mean	594		400		779	
Highest annual mean					3,000	2011
Lowest annual mean					279	2004
Highest daily mean	1,690	Sep 13	1,370	Jul 4	17,600	Jun 2, 1929
Lowest daily mean	33	May 1	7.0	Jun 12	0.00	May 14, 2002 [a]
Annual seven-day minimum	52	Apr 26	8.3	Jun 6	0.00	May 14, 2002 [b]
Maximum peak flow			1,440	Jul 4	17,900	Jun 2, 1929
Maximum peak stage			3.32	Jul 4	[c]7.04	Jun 2, 1929
Annual runoff (ac-ft)	431,600		289,900		564,000	
10 percent exceeds	1,440		1,180		1,440	
50 percent exceeds	240		191		446	
90 percent exceeds	180		131		172	

[a] Many days, some years.
[b] Some years.
[c] Site and datum then in use.