CALENDAR FOR WATER YEAR 2000

1999

OCTOBER

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

NOVEMBER

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

DECEMBER

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

2000

JANUARY

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

FEBRUARY

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29				

MARCH

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

APRIL

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

MAY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

JUNE

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

JULY

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

AUGUST

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

SEPTEMBER

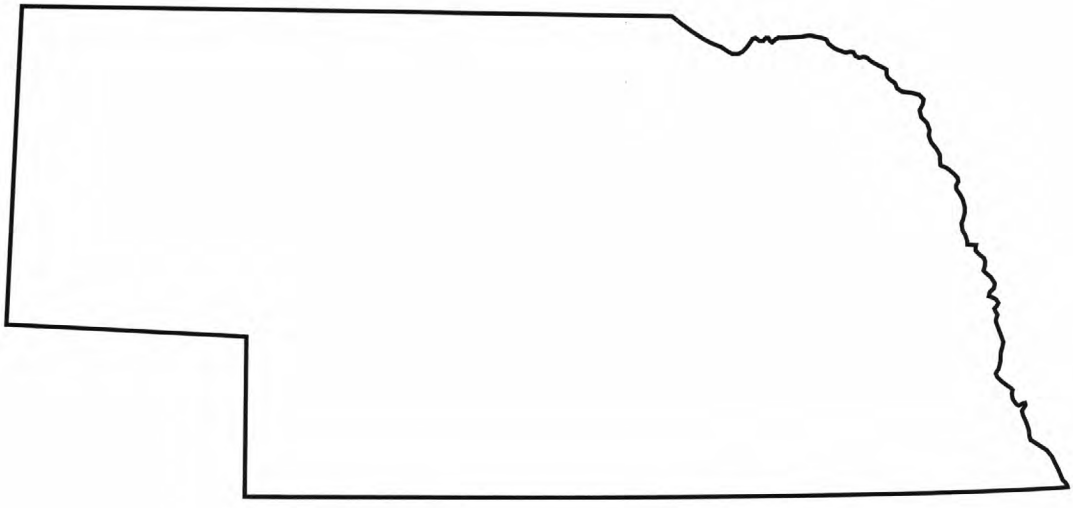
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

U.S. Department of the Interior
U.S. Geological Survey

Water Resources Data Nebraska Water Year 2000

By Glenn B. Engel

Water-Data Report NE-00-1



Prepared in cooperation with the Nebraska Department of Natural Resources, the Conservation and Survey Division of the University of Nebraska, the Nebraska Department of Environmental Quality, and other Federal, State, and local agencies

UNITED STATES DEPARTMENT OF THE INTERIOR
GAIL A. NORTON, Secretary
GEOLOGICAL SURVEY
Charles G. Groat, Director

For information on the water programs in Nebraska, write to:

District Chief
U.S. Geological Survey
Federal Building, Room 406
100 Centennial Mall, North
Lincoln, Nebraska 68508

2001

PREFACE

This annual hydrologic data report of Nebraska is one of a series of annual reports that documents hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, quality of water, and ground-water levels provide the hydrologic information needed by Federal, State, and local agencies, and the private sector for developing and managing our Nation's land and water resources.

This report is the culmination of a concerted effort by personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who edited and assembled the report.

In addition to the author, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, review, and tabulation of the data:

J.A. Boohar, V.C. Walczyk, J.S. Stanton, P.A. Bartz, J.D. Frankforter, G.V. Steele, V.L. Mcguire, D.L. Rus, M.J. Griffin, K.E. Wilson, and S.K. Sebree of the District office.

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This report was prepared in cooperation with the State of Nebraska and with other agencies under the general supervision of M.E. Slifer, District Chief, Nebraska.

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Water resources data for the 2000 water year for Nebraska consists of water-quality records for records of stage, discharge, and water quality of streams; stage and contents in lakes and reservoirs; and water levels and water quality in wells. This report contains discharge records for 95 streamflow-gaging stations, 17 partial-record or miscellaneous streamflow stations, and 5 crest-stage, partial-record streamflow stations; stage and contents records for 7 lakes and reservoirs; water-quality records for 10 streamflow-gaging stations, for 7 ungaged stream sites, and for 192 wells; and water levels for 47 observation wells. These data represent that part of the National Water Data System operated by the U. S. Geological Survey and cooperating Federal, State, and local agencies in Nebraska.

14. SUBJECT TERMS

Hydrologic data, Surface water, Ground water, Water quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water levels, Water analyses

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CONTENTS

	Page
Preface	iii
List of surface-water stations, in downstream order, for which records are published in this volume	vii
List of ground-water wells, by county, for which records are published in this volume	x
List of discontinued surface-water gaging stations	xiii
List of discontinued surface-water crest stage stations	xxi
List of discontinued surface-water quality stations	xxvii
Introduction	1
Cooperation	1
Summary of Hydrologic Conditions	2
Precipitation	2
Streamflow	6
Water quality	7
Ground-water levels	7
Water use	10
Special networks and programs	12
Explanation of the records	12
Station identification numbers	13
Downstream order system	13
Latitude-longitude system	13
Records of stage and water discharge	13
Data collection and computation	14
Data presentation	14
Station manuscript	16
Data table of daily mean values	17
Statistics of monthly mean data	17
Summary statistics	17
Identifying estimated discharge	18
Accuracy of the records	18
Other records available	19
Records of surface-water quality	19
Classification of records	19
Arrangement of records	19
Onsite measurements and sample collection	19
Water temperature	21
Sediment	21
Laboratory measurements	21
Data presentation	21
Records of ground-water levels	22
Data collection and computation	22
Data presentation	24
Records of ground-water quality	24
Data collection and computation	25
Data presentation	25
Access to USGS Water Data	26
Definition of terms	27
Publications on Techniques of Water-Resources Investigations	35
Remark codes	40
Station records, surface water	42
Discharge at partial-record stations and miscellaneous sites	296
Low-flow investigations	299
Platte River Basin	299
Kansas River Basin	300
Analyses of samples collected at water-quality partial-record stations	301
Chemical analyses of Niobrara River surface-water quality	302

CONTENTS--Continued

Page

Station records, ground water ---------- 304
Ground-water levels ---------- 304
Chemical analyses of ground water ---------- 322
Papio-Missouri Study ---------- 322
Water-Quality Monitoring ---------- 322
Water Quality from Well Nests ---------- 328
Tri-County Ground-Water Mound ---------- 341
Ashland Well Field Study ---------- 346
Upper Republican Natural Resources District ---------- 350
Ground-Water Protection Area—Middle Republican River ---------- 371
Index ---------- 372

ILLUSTRATIONS

Figure 1. Graph showing streamflow and precipitation data for water year 2000 and the long-term record --------- 3
2. Graph showing precipitation for water years 1998, 1999, 2000, and normal precipitation (1961-90) for the eight National Weather Service divisions in Nebraska ---------- 4
3. Graph showing monthly precipitation for water year 2000 and normal precipitation (1961-90) for each National Weather Service division in Nebraska ---------- 5
4 Hydrographs of water levels in representative observation wells ---------- 9
5. Diagram showing estimated (a) total water use in Nebraska, 1995 ---------- 10
(b) total surface-water use in Nebraska, 1995 ---------- 11
(c) total ground-water use in Nebraska, 1995 ---------- 11
6. Map showing location of active surface-water gaging stations ---------- 15
7. Map showing location of active surface-water quality stations ---------- 20
8. Map showing location of selected observation wells ---------- 23

TABLES

Table 1. Precipitation and departures from normal, water year 2000 ---------- 2

SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

[Letter after station name designates type of data: (d) discharge, (st) stage, (e) elevation and/or contents, (c) chemical, (m) microbiological, (t) water temperature, and (s) sediment.] Each station has been assigned an 8-digit station number. For ease in reading the station number, the 06 preceeding the number has been left off as well as the 00 following a 4-digt number]

	Station number	Page
MISSOURI RIVER BASIN		
PONCA CREEK BASIN		
Ponca Creek at Verdel (d)	4536	44
NIOBRARA RIVER BASIN		
Box Butte Reservoir near Hemingford (e)	4550	46
Merritt Reservoir near Burge (e)	4593	47
Niobrara River near Sparks (d c t)	4615	48
Long Pine Creek near Riverview (d c t)	4635	52
Keya Paha River at Wewela, SD (d)	4645	56
Niobrara River near Spencer (d)	4650	58
Niobrara River near Verdel (d)	4655	60
MISSOURI RIVER:		
Lewis and Clark Lake near Yankton, SD (e)	4670	64
Missouri River at Sioux City, IA (d)	4860	66
OMAHA CREEK BASIN		
Omaha Creek at Homer (d)	6010	68
Missouri River at Decatur (d)	6012	70
Missouri River at Omaha (d)	6100	72
PLATTE RIVER BASIN		
North Platte River (head of Platte River) at Wyoming-Nebraska State line (d)	6745	76
Lake McConaughy near Keystone (e)	6900	78
South Platte River:		
South Platte River at Julesburg, CO (d)	7640	80
South Platte River at Roscoe (d)	764880	82
Platte River:		
Plum Creek near Smithfield (d)	7675	84
Platte River near Overton (d c t)	7680	86
Spring Creek near Overton (d)	768020	90
Buffalo Creek near Overton (d)	7690	92
Elm Creek near Elm Creek (d)	769525	94
North Dry Creek 2 mi SW of Platte River Bridge S of Kearney (d)	770195	96
Platte River near Kearney (d)	7702	98
Fort Kearney Slough near Newark (d)	770240	100
Platte River near Newark (st)	770253	102
Platte River near Prosser (st)	770375	103
Platte River near Doniphan (st)	770470	104
Platte River near Grand Island (d)	7705	106
Warm Slough near Central City (d)	772775	108
Silver Creek at Mile 4 near Silver Creek (d)	772898	110
Prairie Creek near Silver Creek (d)	7735	112

	Station number	Page
MISSOURI RIVER BASIN--Continued		
PLATTE RIVER BASIN--Continued		
Platte River near Duncan (d)	7740	114
Middle Loup River (head of Loup River) at Dunning (d)	7755	118
Dismal River near Thedford (d)	7759	120
South Loup River at St. Michael (d c t)	7840	122
Sherman Reservoir near Loup City (e)	7842	125
Middle Loup River at St. Paul (d c t)	7850	126
North Loup River at Taylor (d)	7860	130
Calamus Reservoir near Burwell (e)	7873	132
North Loup River near St. Paul (d c t)	7905	134
Loup River:		
Loup River Power Canal near Genoa (d)	7925	138
Loup River near Genoa (d)	7930	140
Beaver Creek at Genoa (d)	7940	142
Clear Creek 1.75 mi W of Polk County Line (d)	794650	146
Shell Creek near Columbus (d)	7955	148
Platte River at North Bend (d)	7960	150
Platte River near Leshara (d)	7965	152
Elkhorn River at Ewing (d)	7975	156
Elkhorn River at Norfolk (d)	7990	158
North Fork Elkhorn River near Pierce (d)	7991	160
Elkhorn River at West Point (d)	799350	162
Logan Creek near Uehling (d)	7995	164
Maple Creek near Nickerson (d c t s)	8000	166
Elkhorn River at Waterloo (d)	8005	172
Platte River near Ashland (d)	8010	174
Olive Branch (head of Salt Creek) near Hallam (d c t)	801180	176
Salt Creek at Roca (d)	8030	180
Salt Creek at Pioneers Boulevard at Lincoln (d)	803080	182
Haines Branch at SW 56th St. at Lincoln (d)	803093	184
Middle Creek at SW 40th St at Lincoln (d)	803170	186
Oak Creek at Air Park Rd at Lincoln (d)	803486	188
Salt Creek at Lincoln (d)	8035	190
Little Salt Creek near Lincoln (d)	803510	192
Salt Creek at 70th St. at Lincoln (d)	803513	194
Stevens Creek near Lincoln (d)	803520	196
Salt Creek below Stevens Creek near Waverly (c t m)	803525	198
Rock Creek near Ceresco (d)	803530	202
Salt Creek at Greenwood (d)	803555	204
Wahoo Creek at Ithaca (d)	8040	206
Wahoo Creek at Ashland (d)	8047	208
Johnson Creek near Memphis (d)	8049	210
Platte River at Louisville (d c t s)	8055	212
WEEPING WATER CREEK BASIN		
Weeping Water Creek at Union (d)	8065	224

	Station number	Page
MISSOURI RIVER BASIN--Continued		
MISSOURI RIVER:		
Missouri River at Nebraska City (d)	8070	226
LITTLE NEMAHA RIVER BASIN		
Little Nemaha River at Auburn (d)	8115	228
MISSOURI RIVER:		
Missouri River at Rulo (d)	8135	230
BIG NEMAHA RIVER BASIN		
Big Nemaha River:		
Turkey Creek near Seneca, KS (d)	8140	232
Big Nemaha River at Falls City (d)	8150	234
KANSAS RIVER BASIN		
Arikaree River (head of Kansas River) at Haigler (d)	8215	238
North Fork Republican River at Colorado-Nebraska State line (d)	8230	240
Republican River (continuation of Arikaree River):		
Buffalo Creek near Haigler (d)	8235	242
Rock Creek at Parks (d)	8240	244
South Fork Republican River near Benkelman (d)	8275	246
Republican River at Stratton (d)	8285	248
Enders Reservoir near Enders (e)	8320	250
Frenchman Creek at Palisade (d)	8340	252
Frenchman Creek at Culbertson (d)	8355	254
Driftwood Creek near McCook (d)	8365	256
Republican River at McCook (d)	8370	258
Red Willow Creek near Red Willow (d)	8380	260
Republican River at Cambridge (d)	8435	262
Republican River near Orleans (d c t)	8445	264
Sappa Creek:		
Beaver Creek at Cedar Bluffs, KS (d)	8465	268
Sappa Creek near Stamford (d)	8475	270
Prairie Dog Creek near Woodruff, KS (d)	8485	272
Republican River below Harlan County Dam (d)	8495	274
Courtland Canal at Nebraska-Kansas State line (d)	8525	276
Republican River at Guide Rock (d)	853020	278
Republican River near Hardy (d)	8535	280
Kansas River (continuation of Republican River):		
Big Blue River:		
West Fork Big Blue River near Dorchester (d)	8808	284
Big Blue River near Crete (d)	8810	286
Big Blue River at Barneston (d)	8820	288
Little Blue River near Deweese (d)	8830	290
Little Blue River near Fairbury (d)	8840	292
Little Blue River at Hollenberg, KS (d)	884025	294

GROUND-WATER WELLS, BY COUNTY, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

Page

ADAMS COUNTY

Well 403403098244001 Local number 7N 10W 23AB ---------- 304

BLAINE COUNTY

Well 414958100061501 Local number 22N 24W 33CA ---------- 304

BOONE COUNTY

Well 413323098074501 Local number 18N 7W 4CA ---------- 304

BOX BUTTE COUNTY

Well 420945102551501 Local number 25N 48W 4DDD ---------- 305

BUFFALO COUNTY

Well 404618098504401 Local number 9N 14W 1DC ---------- 305

Well 404345098560001 Local number 9N 14W 19DD ---------- 305

BUTLER COUNTY

Well 410612096592601 Local number 13N 4E 17ABA ---------- 306

CHASE COUNTY

Well 403220101384001 Local number 7N 38W 28CC ---------- 306

Well 403235101395501 Local number 7N 38W 29CBB ---------- 306

CHERRY COUNTY

Well 423205100321501 Local number 30N 28W 36AAA ---------- 307

COLFAX COUNTY

Well 412810097054501 Local number 17N 3E 4CC ---------- 307

DAWES COUNTY

Well 424100103243501 Local number 31N 52W 3DC ---------- 307

DAWSON COUNTY

Well 404949099445701 Local number 10N 21W 18DDD ---------- 308

DUNDY COUNTY

Well 400155101521302 Local number 1N 40W 29BB2 ---------- 308

FILLMORE COUNTY

Well 402504097432201 Local number 5N 4W 12BDC ---------- 309

Well 403800097300701 Local number 8N 2W 26AD ---------- 309

Page

GARFIELD COUNTY

Well 414718099083201 Local number 21N 16W 14CB---------- 309

GOSPER COUNTY

Well 403626099451401 Local number 7N 21W 6BC ---------- 310

HALL COUNTY

Well 405315098304302 Local number 11N 11W 25CC2 ---------- 310

HAMILTON COUNTY

Well 404836097584101 Local number 10N 6W 27ACAA ---------- 311

Well 405514097573901 Local number 11N 6W 13CB---------- 311

HARLAN COUNTY

Well 400920099215501 Local number 2N 18W 9BCC ---------- 311

HOLT COUNTY

Well 421605098203001 Local number 27N 9W 34DA ---------- 312

Well 423148098300601 Local number 30N 10W 32DAA ---------- 312

Well 423730098560001 Local number 31N 14W 27DDD ---------- 312

HOOKER COUNTY

Well 420204101200502 Local number 24N 35W 23DC ---------- 313

KEARNEY COUNTY

Well 402625098594501 Local number 6N 15W 34DC ---------- 313

KIMBALL COUNTY

Well 411416103361101 Local number 15N 55W 26CCC---------- 313

LANCASTER COUNTY

Well 403929096401001 Local number 8N 7E 18DDB ---------- 314

Well 403833096385501 Local number 8N 7E 20DDA ---------- 314

Well 404706096413001 Local number 10N 6E 36CDD ---------- 314

McPHERSON COUNTY

Well 413130100531201 Local number 18N 31W 16DD ---------- 315

NUCKOLLS COUNTY

Well 400240098111301 Local number 1N 8W 23AB ---------- 315

PHELPS COUNTY

Well 403123099261501 Local number 6N 19W 2AA---------- 315

GROUND-WATER WELLS, BY COUNTY, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

						Page
PLATTE COUNTY						
Well	412955097192001	Local number	18N	1E	28CD	316
SALINE COUNTY						
Well	403855097072501	Local number	8N	3E	19ADA	316
SARPY COUNTY						
Well	410308096190701	Local number	13N	10E	32DBBA	316
SAUNDERS COUNTY						
Well	410558096210601	Local number	13N	9E	13ADBA	317
Well	410427096202501	Local number	13N	10E	19CDDD	317
Well	410340096202201	Local number	13N	10E	30CDDA	318
Well	410303096192901	Local number	13N	10E	32CABC	318
Well	411005096281502	Local number	14N	8E	24ACD2	318
SCOTTS BLUFF COUNTY						
Well	415325103392801	Local number	22N	55W	11DDC	319
SEWARD COUNTY						
Well	405406097115001	Local number	11N	2E	21DD	320
VALLEY COUNTY						
Well	412955099123201	Local number	18N	16W	30CC	320
WEBSTER COUNTY						
Well	400423098314001	Local number	1N	11W	11AB	321
YORK COUNTY						
Well	405305097351503	Local number	11N	2W	31BA3	321

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Nebraska have been discontinued. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station. Each station has been assigned an 8-digit station number. For ease in reading the station number, the 06 preceding the number has been left off as well as the 00 following 4-digit number.

DISCONTINUED SURFACE-WATER GAGING STATIONS

[Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only); mi^2, square mile; --, not available; WYO, Wyoming; NE, Nebraska]

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
White River Basin			
White River near Crawford (d)	4435	1,163	*1897
White River at Crawford (d)	4440	313	1931-43, 1948-91
White River below Crawford (d)	4445	350	*1931
White River below Cottonwood Creek near Whitney (d)	4450	676	1949-61
White River near Chadron (d)	4455	750	1931-43
Big Bordeaux Creek near Chadron (d)	445590	9.42	1968-79
Ponca Creek Basin			
Ponca Creek near Naper (d)	4534	373	1961-74
Ponca Creek at Anoka (d)	4535	504	1949-94
Ponca Creek at Lynch (d)	453550	--	1961-64
Niobrara River Basin			
Niobrara River at WYO-NE State Line (d)	4540	455	1956-94
Niobrara River at Agate (d)	4541	840	1957-91
Niobrara River above Box Butte Reservoir (d)	4545	1,400	1947-94
Niobrara River below Box Butte Reservoir (d)	4555	1,460	1947-91
Niobrara River near Dunlap (d)	4559	1,580	1931-42, 1962-71
Niobrara River near Hay Springs (d)	4565	1,790	1950-64
Niobrara River near Colclesser (d)	4570	2,220	1948
Niobrara River near Gordon (d)	4575	4,290	1929-32, 1946-91
Antelope Creek near Gordon (d)	4580	160	*1948
Bear Creek near Eli (d)	4585	360	1948-53
Niobrara River at Cody (d)	4590	5,570	1948-57
Snake River at Doughboy (d)	459175	405	1982-93
Snake River above Merritt Reservoir (d)	4592	440	1963-81
Snake River near Burge (d)	4595	646	1947-94
Gordon Creek near Simeon (d)	4600	--	*1948
Niobrara River near Valentine (d)	4605	6,160	1901-06, 1928-32
Minnechaduza Creek near Kilgore (d)	4609	85.0	1958-74
Minnechaduza Creek at Valentine (d)	4610	390	1948-93
Niobrara River near Norden (d)	4620	8,390	1953-83, 1986
Plum Creek at Meadville (d)	4625	536	1948-75, 1977-94

DISCONTINUED SURFACE-WATER GAGING STATIONS--Continued

[Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only); mi^2, square mile; --, not available; WYO, Wyoming; NE, Nebraska]

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Niobrara River Basin--Continued			
Niobrara River at Meadville (d)	4630	--	1951-52
Long Pine Creek near Long Pine (d)	463080	246	1980-91
Niobrara River at Mariaville (d)	463720	9,810	1986-91
Keya Paha River near Naper	4649	1,690	1958-94
Eagle Creek near Redbird (d)	465310	206	1979-91
Redbird Creek at Redbird (d)	465440	157	1981-94
North. Banch Verdigre Creek near Verdigre (d)	465680	137	1980-92
Niobrara River at Niobrara (d)	4660	--	1954-58
Bazille Creek Basin			
Bazile Creek near Niobrara (d)	4665	440	1952-95
Bow Creek Basin			
Bow Creek near St. James (d)	478518	304	1979-93
Blackbird Creek Basin			
Blackbird Creek near Macy (d)	6011	102	1979-80
Tekamah Creek Basin			
Tekamah Creek at Tekamah (d)	6080	23.0	1949-81
New York Creek Basin			
New York Creek at Herman (d)	6090	29.7	1946-69
Platte River Basin			
Mitchell Canal at WY-NE State Line (d)	6740	--	1938-41
North Platte River at Henry (d)	6750	--	1912-18
Horse Creek near Lyman (d)	6775	1,707	1931-94
Sheep Creek near Morrill (d)	6780	362	1932-91
North Platte River at Morrill (d)	6785	--	1917-23
Dutch Flats Drain near Mitchell (d)	6788	--	1961-65
Dry Spotted Tail Creek at Mitchell (d)	6790	77.2	1949-79
North Platte River at Mitchell (d)	6795	24,300	1920-94
Tub Springs near Scottsbluff (d)	6800	--	1949-79
North Platte River at Scottsbluff (d)	6805	24,500	1887-1900, 1912, 1917-18

DISCONTINUED SURFACE-WATER GAGING STATIONS--Continued

[Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only); mi^2, square mile; --, not available; WYO, Wyoming; NE, Nebraska]

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Platte River Basin--Continued			
Winter Creek at Tri-State Canal, near Scottsbluff (d)	6807	--	1961-65
Winter Creek near Scottsbluff (d)	6810	--	1932-79
Gering Drain near Gering (d)	6815	79.8	1932-45, 1949-91
North Platte River near Minatare (d)	6820	24,700	1924-91
Alliance Drain near Minatare (d)	6822	--	1961-65
Ninemile Drain near Minatare (d)	6823	--	1961-65
Ninemile Drain near McGrew (d)	6825	--	1932-79
Bayard Sugar Factory Drain near Bayard (d)	6830	--	1932-79
Red Willow Creek near Bridgeport (d)	6835	83.0	*1931
Red Willow Creek near Bayard (d)	6840	162	1932-79
North Platte River at Bridgeport (d)	6845	25,300	1917-91
Pumpkin Creek near Bridgeport (d)	6850	1,020	1932-91
North Platte River at Broadwater (d)	6855	--	1917-23
North Platte River at Lisco (d)	6860	26,700	1932-94
North Platte River at Oshkosh (d)	6865	31,300	1916-17, 1928-60
Blue Creek near Lewellen (d)	6870	1,190	1931-91
North Platte River at Lewellen (d)	6875	28,600	1941-91
North Platte River at Belmar (d)	6880	29,100	1917-26
Otter Creek near Lemoyne (d)	6885	13.9	1932-37
North Platte River at Lemoyne (d)	6890	--	1926-27
North Platte River at Martin (d)	6895	--	1934-38
North Platte River near Keystone (d)	6905	29,400	1942-94
North Platte River near Sutherland (d)	6910	29,800	1937-91
Birdwood Creek near Sutherland (d)	6915	250	1913-15
Birdwood Creek near Hershey (d)	6920	940	1932-91
Lincoln County Drain No. 1 near North Platte (d)	6925	--	1931, 1955-79
North Platte River at North Platte (d)	6930	30,900	1895-1994
Lodgepole Creek at Bushnell (upper station)(d)	7620	1,090	1931-32
Lodgepole Creek at Bushnell (d)	7625	1,350	1932-91
Lodgepole Creek at Sidney (d)	7630	2,190	1931-32

DISCONTINUED SURFACE-WATER GAGING STATIONS--Continued

[Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only); mi^2, square mile; --, not available; WYO, Wyoming; NE, Nebraska]

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Platte River Basin--Continued			
Lodgepole Creek at Ralton (d)	7635	3,307	
South Platte River at Big Springs (d)	7645	23,200	*1903
South Platte River at Paxton (d)	7650	24,000	1923-24, 1931-33, 1937-70
South Platte River at North Platte (d)	7655	24,300	1917-94
Fremont Slough near North Platte (d)	765710	--	1983-85
Platte River at Brady (d)	7660	56,200	1939-91
Platte River near Cozad (d)	7665	56,500	1938-91
Platte River near Lexington (d)	7670	57,300	1902-06, 1916-24
Buffalo Creek near Darr (d)	7685	63.0	1947-69
Elm Creek near Overton (d)	7695	31.0	1947-58
Platte River near Odessa (d)	7700	58,100	1938-91
Whisky Slough 1 mi E of Phelps-Kearney County Line (d)	770175	--	1996-98
North Dry Creek near Kearney (d)	770190	--	1969-71
Downstream Drain near Newark (d)	770255	--	1996-98
Platte River near Grand Island (South Channel) (d)	770478	--	1984-87
Wood River near Riverdale (d)	7710	379	1946-73
Wood River near Gibbon (d)	7715	526	1949-76, **1991-95
Wood River near Alda (d)	7720	599	1954-94
Dry Creek near Cairo (d)	7730	25	1949-53
Prairie Creek near Ovina (d)	773050	132	**1991-95, 1996-99
Silver Creek at Ovina (d)	773150	67.6	**1991-95
Middle Loup River near Mullen (d)	7745	1,120	1947-48
Middle Loup River near Seneca (d)	7750	1,140	1948-53
Dismal River near Gem (d)	7760	1,360	1947-53
Dismal River at Dunning (d)	7765	2,040	*1932, 1946-95
Middle Loup River near Milburn (d)	7770	3,690	1952-56, 1958, 1960-64
Middle Loup River at Walworth (d)	7775	4,650	1941-60
Middle Loup River at Sargent (d)	7780	4,480	1937-38, 1953-70
Middle Loup River near Comstock (d)	7785	4,960	*1937
Middle Loup River at Arcadia (d)	7790	5,040	1937-93
Middle Loup River at Loup City (d)	7795	4,860	1936-38, 1949-56
Middle Loup River at Rockville (d)	7800	5,310	1956-64, 1968-75
Boelus Power Canal near Boelus (d)	7805	--	1952-63
Middle Loup River at Boelus (d)	7810	--	1952-55
Middle Loup River at Boelus (combined flow)(d)	7815	--	1937-38

DISCONTINUED SURFACE-WATER GAGING STATIONS--Continued

[Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only); mi^2, square mile; --, not available; WYO, Wyoming; NE, Nebraska]

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Platte River Basin--Continued			
South Loup River near Cumro (d)	7820	1,340	1946-53
South Loup River at Ravenna (d)	7825	1,660	1941-58, 1968-75
Mud Creek near Broken Bow (d)	7830	440	1949-53
Mud Creek near Sweetwater (d)	7835	707	1946-94
Oak Creek near Loup City (d)	7843	41.9	1952-60, 1961-64
Oak Creek near Dannebrog (d)	7845	122	1949-57
Turkey Creek near Dannebrog (d)	7848	66.2	1966-93
North Loup River at Brewster (d)	7855	1,890	1945-51
North Loup River at Burwell (d)	7865	2,510	1953-60
Calamus River near Harrop (d)	7870	693	1979-97
Calamus River near Burwell (d)	7875	994	1941-95
North Loup River near Burwell (d)	7880	--	1937-38, 1952-60
North Loup River at Ord (d)	7885	3,760	1952-94
Mira Creek near North Loup (d)	788988	65.8	1980-93
North Loup River at Scotia (d)	7890	3,960	1937-70
Davis Creek near Cotesfield (d)	7895	94.0	1949-58
North Loup River near Cotesfield (d)	7900	--	1950-56
Spring Creek at Cushing (d)	7910	164	1949-53
Cedar River near Spalding (d)	7915	752	1945-53, 1958-94
Spalding Power Canal at Spalding (d)	7917	--	1960-64
Cedar River at Primrose (d)	791750	870	1960-64
Cedar River at Belgrade (d)	7918	1,060	1960-65
Cedar River near Fullerton (d)	7920	1,220	1931-32, 1941-95
Fullerton Power Canal at Fullerton (d)	7921	--	1960-64
Beaver Creek at Loretto (d)	7935	311	1945-53, 1980-91
Loup River at Columbus (d)	7945	15,200	1895-1915, 1931,1934-78
Shell Creek at Newman Grove (d)	7950	122	1949-67
Platte River near Fremont (d)	796450	--	1911-15
Elkhorn River near Atkinson (d)	796973	586	1983-91
Holt Creek near Emmet (d)	796978	--	1979-89
Elkhorn River at Emmet (d)	796985	--	1980-82
Elkhorn River at O'Neill (d)	7970	651	1931-32
South Fork Elkhorn River near Ewing (d)	7980	314	1948-53, 1961-72, 1978-91
Clearwater Creek near Clearwater (d)	7983	210	1962-64, 1978-91
Elkhorn River at Neligh (d)	7985	2,200	1931-93

DISCONTINUED SURFACE-WATER GAGING STATIONS--Continued

[Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only); mi^2, square mile; --, not available; WYO, Wyoming; NE, Nebraska]

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Platte River Basin--Continued			
Elkhorn River at Meadow Grove (d)	7988	2,500	1960-65
Willow Creek near Foster (d)	799080	137	1976-93
Union Creek at Madison (d)	799230	174	1979-93
Pebble Creek at Scribner (d)	799385	204	1979-93
Logan Creek at Pender (d)	799450	731	1966-93
Salt Creek subwatershed No. 3 near Sprague(d)	8013	4.20	1955-59
Salt Creek subwatershed No. 1 near Roca (d)	8014	1.46	1955-61
Salt Creek subwatershed No. 12 near Roca (d)	8015	1.12	1954-61
Salt Creek subwatershed No. 34 near Roca (d)	8025	5.72	1954-61
Antelope Creek at 17th St., at Lincoln (d)	8034	12.1	1958-62
Oak Creek near Raymond (d)	803450	88.7	1963-67
Dee Creek at Greenwood (d)	803550	14.3	*1960
Cottonwood Creek above Czechland near Rescue	803920	--	
Cottonwood Creek tributary above Dam 6B near Prague	803935	--	1994-96
Silver Creek at Ithaca (d)	8045	80.0	1950-58
Salt Creek near Ashland (d)	8050	1,640	1948-67
Little Nemaha River Basin			
Little Nemaha River near Syracuse (d)	8105	218	1951-69
Brownell Creek subwatershed No. 1A near Syracuse (d)	8109	19	1955-69
Brownell Creek subwatershed No. 1 near Syracuse (d)	8110	.77	1955-69
Big Nemaha River Basin			
North Fork Big Nemaha River at Humboldt (d)	8145	548	1953-96
Muddy Creek at Verdon (d)	8155	186	1953-72
Kansas River Basin			
Pioneer Canal at CO-NE State Line (d)	8225	--	1950-51
Republican River at Benkelman (d)	8245	4,880	1947-94
Republican River at Max (d)	8280	7,740	1928-45
Muddy Creek at Stratton (d)	828490	157	1978
Swanson Lake near Trenton (e)	8290	8,620	1953-94
Republican River at Culbertson (d)	8300	8,450	1931-50
Frenchman Creek near Champion (d)	8305	700	1932-40
Frenchman Creek below Champion (d)	8310	721	1935-56
Frenchman Creek near Imperial (d)	8315	1,050	1941-94
Frenchman Creek near Enders (d)	8325	1,140	1947-93

DISCONTINUED SURFACE-WATER GAGING STATIONS--Continued

[Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only); mi^2, square mile; --, not available; WYO, Wyoming; NE, Nebraska]

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Kansas River Basin--Continued			
Frenchman Creek near Hamlet (d)	8335	1,270	1929-56
Stinking Water Creek near Wauneta (d)	8345	1,330	1941-50
Stinking Water Creek near Palisade (d)	8350	1,500	1950-94
Blackwood Creek near Culbertson (d)	8360	320	1946-86
Red Willow Creek above Hugh Butler Lake (d)	8373	582	1961-94
Hugh Butler Lake near McCook (e)	837390	730	1961-94
Red Willow Creek near McCook (d)	8375	740	1941-47, 1961-93
Dry Creek near Bartley (d)	8385	5.24	1955-57
Medicine Creek at Maywood (d)	8390	231	1951-58
Brushy Creek near Maywood (d)	8395	95.3	1951-58
Fox Creek at Curtis (d)	8400	74.3	1952-58, 1978-91
Dry Creek near Curtis (d)	8405	20	1951-58
Medicine Creek above Harry Strunk Lake (d)	8410	770	1950-94
Mitchell Creek above Harry Strunk Lake (d)	8415	52.0	1950-74
Harry Strunk Lake near Cambridge (e)	8420	880	1949-94
Medicine Creek below Harry Strunk Lake (d)	8425	900	1950-94
Medicine Creek at Cambridge (d)	8430	909	1936-57
Muddy Creek at Arapahoe (d)	8440	246	1951-72, 1978-93
Turkey Creek at Edison (d)	844210	74.9	1978-93
Sappa Creek near Beaver City (d)	8452	1,480	1937-72
Beaver Creek near Beaver City (d)	8470	2,080	1937-94
Harlan County Lake near Republican City (e)	8490	20,750	1953-94
Turkey Creek at Naponee (d)	8500	129	1948-53
Cottonwood Creek near Bloomington (d)	8502	15.6	1948-56
Republican River near Bloomington (d)	8505	21,020	1929-57
Center Creek at Franklin (d)	8510	177	1948-56, 1978-93
Thompson Creek at Riverton (d)	8515	290	1948-56, 1969-75 1978-94
Elm Creek at Amboy (d)	8520	39.2	1948-54, 1978-93
Republican River near Guide Rock (d)	8530	22,040	1951-84
Beaver Creek near Rosemont (d)	8531	.75	1968-70
Big Blue River at Surprise (d)	8799	345	1964-93
Lincoln Creek near Seward (d)	8800	438	1954-73, 1974-94
Big Blue River at Seward (d)	8805	1,107	1954-94
Big Blue River at Surprise (d)	8799	345	1964-93
Lincoln Creek near Seward (d)	8800	438	1954-73, 1974-94

DISCONTINUED SURFACE-WATER GAGING STATIONS--Continued

[Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only); mi^2, square mile; --, not available; WYO, Wyoming; NE, Nebraska]

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Kansas River Basin--Continued			
Big Blue River at Seward (d)	8805	1,107	1954-94
Turkey Creek near Wilber (d)	8812	461	1960-94
Big Blue River at Beatrice (d)	8815	3,900	1911-15, 1975-94
Little Blue River below Pawnee Creek, near Pauline (d)	8829	929	1963-68
Little Blue River at Angus (d)	8835	--	1950-53
Little Blue River near Alexandria (d)	883570	1,557	1960-72, 1975-92
Big Sandy Creek at Alexandria (d)	883940	607	1980-93

*Partial year only.
**Irrigation season only.

The following surface-water crest stage stations in Nebraska have been discontinued. The years given in the period of record represent water years for which the annual maximum has been determined for each station. Each station has been assigned an 8-digit station number. for ease in reading the station number, the preceeding the number has been left off as well as the 00 following a 4-digit number.

DISCONTINUED SURFACE-WATER CREST STAGE STATIONS

[mi^2, square mile; No., number;]

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Cheyenne River Basin			
Warbonnet Creek near Harrison	396490	24.5	1969-78
White River Basin			
White River tributary near Glen	4432	7.97	1953-70
Deep Creek near Glen	4433	10.9	1953-78
Soldiers Creek near Crawford	4437	52.6	1955-78
White River tributary No. 2 near Crawford	4439	5.45	1953-70
Chadron Creek tributary at Chadron State Park near Chadron	445530	.59	1953-78
Chadron Creek at Chadron State Park near Chadron	445560	15.4	1953-78
Niobrara River Basin			
Niobrara River tributary near Belmont	4544	6.71	1971-78
Pebble Creek near Esther	4562	3.07	1953-78
Pebble Creek near Dunlap	4563	23.5	1953-70
Cottonwood Creek near Dunlap	4564	82.2	1953-78
Point of Rocks Creek near Marsland	4571	7.10	1970-78
Berea Creek near Alliance	4572	34.0	1953-78
Antelope Creek at Gordon	4577	61.1	1953-70
Antelope Creek tributary near Gordon	4578	26.6	1953-78
Big Beaver Creek near Valentine	4613	24.9	1971-79
Bone Creek tributary near Ainsworth	4631	.39	1956-68
Bone Creek tributary No. 2 near Ainsworth	4632	2.18	1958-68
Sand Draw tributary near Ainsworth	4633	1.07	1956-74
Honey Creek near O'Neill	4652	2.54	1958-68
Camp Creek near O'Neill	4653	1.65	1958-78
Blackbird Creek tributary near O'Neill	4654	.60	1958-68
Bingham Creek near Niobrara	465850	6.5	1968-79
Weigand Creek Basin			
Weigand Creek near Crofton	466950	3.5	1968-78
Bow Creek Basin			
West Bow Creek near Fordyce	478520	52.8	1964-65, 1968-78

DISCONTINUED SURFACE-WATER CREST STAGE STATIONS--Continued

[mi^2, square mile; No., number;]

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Omaha Creek Basin			
South Omaha Creek tributary near Walthill	6006	2.64	1951-67
South Omaha Creek near Walthill	6007	15.1	1951-67
South Omaha Creek tributary No. 2 near Walthill	6008	1.51	1950-78
South Omaha Creek at Walthill	6009	51.0	1951-78
Tekamah Creek Basin			
South Branch Tekamah Creek near Craig	6077	2.54	1950-67
South Branch Tekamah Creek tributary near Tekamah	6078	4.08	1951-78
South Branch Tekamah Creek near Tekamah	6079	9.73	1951-67
Tekamah Creek at Tekamah	6080	23.0	1982-89
New York Creek Basin			
New York Creek near Spiker	6086	1.75	1952-67
New York Creek tributary near Spiker	6087	1.55	1951-78
New York Creek north of Spiker	6088	6.50	1951-75
New York Creek east of Spiker	6089	13.9	1950-78
Papillion Creek Basin			
Big Papillion Creek near Orum	6107	8.52	1968-78
Platte River Basin			
Dry Spottedtail Creek tributary near Mitchell	678750	15.0	1971-78
Hackberry Creek near Redington	6849	16.6	1970-78
Ash Hollow near Oshkosh	6876	54.9	1971-78
Lodgepole Creek tributary near Kimball	762650	8.68	1970-78
Lodgepole Creek tributary near Sumol	7632	15.6	1968-78
South Fork Plum Creek tributary near Farnam	7671	9.81	1951-70
North Fork Plum Creek tributary near Farnam	7672	1.83	1952-78
Plum Creek tributary at Farnam	7673	19.8	1947-48, 1952-70
North Plum Creek near Farnam	7674	38.3	1952-70
Plum Creek near Farnam	767410	79.8	1947, 1951-78
Plum Creek near Smithfield	7675	229	1955-68, 1978
Buffalo Creek tributary No. 1 near Buffalo	768050	2.08	1965-78
East Buffalo Creek near Buffalo	7681	5.21	1951-78
Buffalo Creek at Buffalo	7682	33.5	1951-67
Buffalo Creek tributary No. 2 near Buffalo	7683	1.93	1952-65

DISCONTINUED SURFACE-WATER CREST STAGE STATIONS--Continued

[mi^2, square mile; No., number;]

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Platte River Basin--Continued			
West Buffalo Creek near Buffalo	7684	17.1	1951-78
Elm Creek tributary near Overton	7691	.58	1951-78
Elm Creek near Sumner	7692	14.9	1951-78
Elm Creek tributary No. 2 near Overton	7693	5.62	1951-78
Wood River tributary near Lodi	7706	2.02	1952-78
Wood River near Lodi	7707	12.9	1952-78
Wood River near Oconto	7708	26.4	1950, 1952-78
Wood River at Oconto	7709	44.8	1950, 1952-78
Wood River near Lomax	770910	79.6	1952-78
Wood River near Riverdale	7710	379	1974-80
North Fork Dismal River near Mullen	7757	670	1971-78
Lillian Creek tributary near Broken Bow	7776	2.02	1952-78
Lillian Creek near Broken Bow	7777	4.77	1947, 1951-78
Lillian Creek tributary near Walworth	7778	2.04	1951-78
South Branch Mud Creek tributary near Broken Bow	7826	.43	1951-78
South Branch Mud Creek near Broken Bow	782620	79.4	1976-78
South Branch Mud Creek at Broken Bow	7827	400	1945, 1951-75
North Branch Mud Creek at Broken Bow	7828	15.5	1952-67
Mud Creek tributary near Broken Bow	7829	5.98	1945, 1951-78
Turkey Creek near Farwell	7847	27.2	1950, 1953-78
Davis Creek tributary near North Loup	7891	2.29	1952-67
Davis Creek tributary No. 2 near North Loup	7892	6.79	1952-70
Davis Creek near North Loup	7893	21.1	1952-67
Davis Creek southwest of North Loup	7894	41.6	1951-78
East Branch Spring Creek tributary near Wolbach	7906	1.52	1952-78
West Branch Spring Creek at Brayton	7907	19.5	1945, 1952-78
West Branch Spring Creek near Wolbach	7908	36.9	1952-67
Mary's Creek at Wolbach	7909	7.63	1952-67
Spring Creek near Cushing	7911	184	1948, 1953-78
Skeedee Creek tributary near Genoa	793995	.59	1968-78
Bone Creek near David City	794710	8.75	1968-78
Shell Creek at Newman Grove	7950	122	1961
South Fork Union Creek tributary near Cornlea	799190	6.54	1968-78
North Logan Creek near Laurel	799423	25.3	1965, 1968-78
Pond Creek near Schuyler	799850	.54	1968-78

DISCONTINUED SURFACE-WATER CREST STAGE STATIONS--Continued

[mi^2, square mile; No., number;]

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Platte River Basin--Continued			
Elkhorn River tributary near Nickerson	800350	6.53	1968-78
Olive Brabch above Sprague	8012	43	1956-61
Olive Branch below Sprague	801320	81	1956-58
Hickman Branch above Hickman	801340	14.7	1956-61
Hickman Branch at Hickman	801360	42.8	1956-61
Antelope Creek at 48th Street, Lincoln	8032	6.82	1951, 1958-78
Antelope Creek at 27th Street, Lincoln	8033	10.4	1957-78
Antelope Creek at 17th Street, Lincoln	8034	12.5	1963-78
Dee Creek near Alvo	803540	8.06	1962-78
Dunlap Creek tributary near Weston	803570	.31	1950-78
North Fork Wahoo Creek near Prague	8036	15.2	1951-78
Dunlap Creek near Weston	8037	8.90	1951-67
North Fork Wahoo Creek at Weston	8039	43.7	1951-78
Silver Creek near Cedar Bluffs	8041	10.9	1950-78
Silver Creek near Colon	8042	29.9	1950-78
Silver Creek tributary near Colon	8043	14.3	1951-78
Silver Creek tributary at Colon	8044	22.4	1951-78
Silver Creek at Ithaca	8045	72.0	1959-78
Buffalo Creek near Gretna	805510	4.29	1968-78
Weeping Water Creek Basin			
Weeping Water Creek at Elmwood	8064	20.8	1951-67
Stove Creek near Elmwood	806420	5.23	1951-67
Stove Creek at Elmwood	806440	10.0	1950-78
Weeping Water Creek at Weeping Water	806460	75.5	1947, 1950-78
Weeping Water Creek tributary near Weeping Water	806470	.87	1950-78
Honey Creek Basin			
Honey Creek near Peru	810060	3.40	1968-78
Little Nemaha River Basin			
Hooper Creek tributary near Palmyra	8101	7.81	1950-78
Hooper Creek near Palmyra	8102	57.5	1951-67
Wolf Creek near Syracuse	8103	25.5	1951-67
Little Nemaha River tributary near Syracuse	8104	.76	1950-78

DISCONTINUED SURFACE-WATER CREST STAGE STATIONS--Continued

[mi^2, square mile; No., number;]

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Big Nemaha River Basin			
Muddy Creek at Verdon	8155	186	1973
Temple Creek near Falls City	815510	3.02	1968-78
Kansas River Basin			
North Branch Indian Creek near Max	8281	4.76	1962, 1970-78
Thompson Canyon near Trenton	8297	10	1966-78
Spring Creek tributary near Grant	341	17.9	1970-78
Bobtail Creek near Palisade	8351	41	1966-78
Ash Creek near Red Willow	8371	22	1966-78
Medicine Creek at Maywood	8390	231	1960-78
Elkhorn Canyon near Maywood	8392	6.74	1952-78
Elkhorn Canyon southwest of Maywood	8394	13.2	1952-70
Brushy Creek near Maywood	8395	130	1947, 1960-76
Frazier Creek near Maywood	8396	11.3	1952-70
Frazier Creek tributary near Maywood	8397	.72	1952-78
Fox Creek (Site No. 1) near Curtis	8398	6.97	1952-70
Fox Creek north of Curtis	839850	13.8	1952-70
Fox Creek above Cut Canyon near Curtis	8399	31.8	1951-78
Cut Canyon near Curtis	839950	25.6	1951-78
Fox Creek at Curtis	8400	72.6	1947, 1960-70
Dry Creek near Curtis	8405	20	1947, 1960-70
Turkey Creek near Holdrege	8496	27.8	1941, 1960, 1968-78
Cottonwood Creek near Bloomington	8502	15.6	1957-78
Republican River near Bloomington	8505	20,800	1970-78
Center Creek at Franklin	8510	146	1961-68
Republican River at Riverton	851090	-	1970-78
West Branch Thompson Creek at Hildreth	8511	65.2	1953-70
West Branch Thompson Creek near Hildreth	8512	110	1953-70
West Branch Thompson Creek tributary near Hildreth	8513	11.6	1953-78
West Branch Thompson Creek near Upland	8514	90.8	1953-78
Thompson Creek at Riverton	8515	290	1961-68
Elm Creek at Amboy	8520	39.2	1954-78
Beaver Creek near Rosemont	8531	.752	1971-78
Republican River at Superior	8534	22,300	1971-75, 1977

DISCONTINUED SURFACE-WATER CREST STAGE STATIONS--Continued

[mi^2, square mile; No., number;]

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Kansas River Basin--Continued			
Big Blue River tributary near Hordville	879850	4.07	1968-78
Plum Creek near Seward	880508	85.5	1968-78
North Branch West Fork Big Blue River tributary at Giltner	880590	7.52	1968-78
School Creek tributary near Harvard	880710	13.1	1953-70
School Creek near Harvard	880720	55.1	1953-78
School Creek tributary No. 2 near Harvard	880730	14.0	1953-78
School Creek near Saronville	880740	89.4	1953-70
Beaver Creek tributary near Henderson	880775	1.16	1968-78
West Fork Big Blue River at Beaver Crossing	880790	1153	1967-68
South Fork Swan Creek tributary near Western	881250	1.00	1968-78
Indian Creek at Beatrice	881450	74.7	1961-93
Big Blue River at Beatrice	8815	3900	1969-74
Bear Creek near Adams	881510	2.85	1968-70
Big Blue River tributary near Beatrice	881530	1.86	1971-78
Little Blue River below Pawnee Creek near Pauline	8829	929	1969
Little Blue River near Angus	8831	1038	1958-68
Spring Creek tributary near Ruskin	883540	2.11	1968-78
South Fork Big Sandy Creek near Edgar	8836	15.2	1953-70
South Fork Big Sandy Creek near Davenport	8837	32.0	1950, 1952-78
South Fork Big Sandy Creek near Carleton	8838	50.4	1953-70
South Fork Big Sandy Creek near Hebron	8839	90.3	1953-70
Little Sandy Creek near Ohiowa	883955	11.6	1968-78
Dry Branch tributary near Fairbury	884005	4.51	1968-78

The following surface-water quality stations in Nebraska have been discontinued or converted to partial-record stations Water quality data (daily or periodic samples with collection frequency not less than quarterly were collected and published for the period of record shown for each station. Each station has been assigned an 8-digit station number. For ease in reading the station number, the 06 preceeding the number has been left off as well as the 00 following a 4-digit number.

DISCONTINUED SURFACE-WATER QUALITY STATIONS

[Type of record: c, chemical; m, microbiological; s, sediment; t, temperature]

Station name	Station number	Period of record (water years)	Type of record
White River Basin			
White River at Crawford	4440	*1957	c
White River near Whitney	4450	1969-72	c m
White River at Slim Butte, SD	4457	*1964, 1965-67	c
		1964-67	s
		1965-67	t
Ponca Creek Basin			
Ponca Creek at Anoka	4535	1949-53, 1964, 1967	c
		1949-52, 1967	s
**Ponca Creek at Verdel	4536	*1930, *1949, *1971	c
		1975-80	c m t
Niobrara River Basin			
Niobrara River at Agate	4541	*1952	c
Niobrara River above Box Butte Reservoir	4545	*1952	c
Niobrara River near Verdel	4655	1976-80	c
		1972-81	s
		1959-84	t
		1958-65,1967-94	m
Niobrara River near Dunlap	4559	1969-73	c m t
Niobrara River near Hay Springs	4565	1949-53, *1961, 1964	c
		1950-57	s
		1951-55	t
Niobrara River near Colclesser	4570	1969-73	c m t
Niobrara River near Gordon	4575	1947-55	c s
		*1964	c s t
Antelope Creek near Gordon	4577	*1948-49	c
Bear Creek near Eli	4585	*1947	c m t
Niobrara River near Cody	4590	1948-56	c s t
Snake River above Merritt Reservoir	4592	1964-75	t
		1976	c t
Ainsworth Canal near Johnstown	459350	1978-84	c t
Snake River near Burge	4595	1947-52	c
		1949-53	s
Gordon Creek near Simeon	4600	*1948	c
Niobrara River near Valentine	4605	*1948	c

DISCONTINUED SURFACE-WATER QUALITY STATIONS--Continued

[Type of record: c, chemical; m, microbiological; s, sediment; t, temperature]--Continued

Station name	Station number	Period of record (water years)	Type of record
Niobrara River Basin--Continued			
Minnechaduza Creek at Valentine	4610	*1948-49	c
**Niobrara River near Sparks	4615	1982-93	c t
Niobrara River near Norden	4620	*1953, *1961, 1964-67	c s t
Plum Creek at Johnstown	462450	1969-75, 1978-84	c m t
Plum Creek near Johnstown	462470	1969-75, 1978-84	c m t
Plum Creek near Meadville	4625	1948-49	c *s
		1977-84	c t
Niobrara River at Meadville	4630	1950-52	c s t
Long Pine Creek at Long Pine	463050	1978-84	c t
Bone Creek at Ainsworth	463090	*1969-75, 1978-84	c t
Sand Draw near Johnstown	463290	1978-84	c t
Sand Draw near Meadville	463310	1978-84	c t
Bone Creek near Long Pine	463350	*1969-75, 1978-84	c t
Niobrara River near Mariaville	463720	1985-89	c m s
Keya Paha River at Wewela, SD	4645	1947-49	c
**Niobrara River near Spencer	4650	*1946-48	c
		1976	c t
Eagle Creek near Midway	465050	*1957-66,	c
		1976-90	c t
East Branch Eagle Creek near Midway	4651	*1957-66	c
		1976-90	c t
		1974-83	c
Honey Creek near Midway	465202	*1957-66	c
Eagle Creek near Redbird	465310	1986-90	c
Redbird Creek near Meek	465398	*1957-66	c
		1976-90	c t
Blackbird Creek near Meek	465420	*1957-66	c
		1976-90	c t
**Niobrara River near Verdel	4655	1958-65,1967-94,	c
		1958-65,1967-84	t
		1972-81	s
South Branch Verdigre Creek near Royal	465650	*1967	c
Verdigre River near Verdigre	4657	1948-49	c
		1948-50	s

DISCONTINUED SURFACE-WATER QUALITY STATIONS--Continued

[Type of record: c, chemical; m, microbiological; s, sediment; t, temperature]--Continued

Station name	Station number	Period of record (water years)	Type of record
Bazille Creek Basin			
Bazile Creek near Creighton	4662	*1967	c
Missouri River			
Missouri River at Yankton, SD	4675	1951, 1957-59	c
		1957-59	t
Missouri River at Decatur	6012	1969-73	c m t
Missouri River at Omaha	6100	1969-72	c m t
Missouri River at Bellevue	6106	1969-70, 1971-73	c m t
Missouri River near Mormon Bridge at Omaha	6098	1974-75	c m t
Platte River Basin			
Ft. Laramie Canal at WY-NE State Line near Lyman	6562	*1964	c
Interstate Canal at WY-NE State Line near Henry	6566	*1964	c
High Line Canal near Bayard	6568	*1964	c
Low Line Canal near Bayard	656955	*1964	c
North Platte River at WY-NE State Line at Henry	6745	*1946,1964	c
North Platte River south of Henry	6750	*1938	c
South Horse Creek lateral at WY-NE State Line near Lyman		*1964	c
Kiowa Creek near Gering	677208	*1964	c
Kiowa Creek above Ft. Laramie Canal near Lyman	677210	*1963-64	c
Kiowa Creek above Horse Creek lateral near Lyman	677220	*1963-64	c
Unnamed tributary to Kiowa Creek near Lyman	677221	*1963-64	c
Owl Creek above Ft. Laramie Canal near Lyman	677234	*1963-64	c
Owl Creek below Ft. Laramie Canal near Lyman	677235	*1963-64	c
Owl Creek near Lyman	677240	*1963-64	c
Unnamed eastern tributary to Kiowa Creek near Lyman	677245	*1963-64	c
Kiowa Creek above Dry Creek Drain near Lyman	677250	*1963-64	c
Dry Creek Drain below Ft. Laramie Canal near Lyman	677251	*1963-64	c
Western tributary to Dry Creek Drain above Horse Creek lateral	677270	*1963-64	c
Dry Creek Drain below Horse Creek lateral near Lyman	677274	*1963-64	c
Western tributary to Dry Creek Drain near Lyman	677280	*1963-64	c
Dry Creek Drain near Lyman	677290	*1963-64	c s
Kiowa Creek near Lyman	6773	1961-65	c s
Horse Creek near Lyman	6775	*1949, *1964	c
		1970-73	t
Lane Drain near Lyman	677550	*1964	c
Sheep Creek near Morrill	6780	*1964	c

DISCONTINUED SURFACE-WATER QUALITY STATIONS--Continued

[Type of record: c, chemical; m, microbiological; s, sediment; t, temperature]--Continued

Station name	Station number	Period of record (water years)	Type of record		
Platte River Basin--Continued					
Morrill Drain near Morrill	678580	*1964	c		
Akers Draw near Morrill	678610	*1949-64	c		
Brown Canyon Drain near Mitchell	6787	1961-65	c	s	
Dutch Flats Drain near Mitchell	6788	1961-65	c	s	
Dry Spottedtail Creek at Mitchell	6790	*1964	c		
Bald Drain near Mitchell	6794	*1964	c		
		1970-73	c		t
North Platte River at Mitchell	6795	*1964	c		
Wet Spottedtail Creek near Mitchell	679950	*1964	c		
Tub Springs near Scottsbluff	6800	*1964	c		
Gering Canal at siphon under Gering Drain near Gering	680450	*1964	c		
Winter Creek at Tri-State Canal near Scottsbluff	6807	1961-65	c	s	
Hale Drain near Scottsbluff	6808	1961-65	c	s	
Scottsbluff Drain No.1 near Scottsbluff	680950	*1964	c		
Winter Creek near Scottsbluff	6810	*1964	c		
Gering Drain tributary near Gering	681290	*1963-64	c		
Gering Drain at Mitchell-Gering Canal near Gering	6813	1961-65	c	s	
Gering Drain near Gering	6815	*1964	c	s	
Scottsbluff Drain No. 2 near Minatare	681950	*1964	c		
North Platte River near Minatare	6820	*1938, *1964	c		
Fairfield Seep near Minatare	682010	*1964	c		
Alliance Drain near Minatare	6822	1961-65	c	*s	
Ninemile Drain above Tri-State Canal near Minatare	682280	*1963-64	c		
East Ninemile Drain near Minatare	682290	*1963-64	c		
Ninemile Drain near Minatare	6823	1961-65	c	s	
Ninemile Drain near McGrew	6825	*1964	c		
North Platte River at McGrew	682505	1973-89	c	m	
Bayard Sugar Factory Drain near Bayard	6830	*1964	c		
Cleveland Drain near McGrew	683050	*1964	c		
West Wildhorse Drain near Bayard	6832	1961-62	c	s	
Wildhorse Drain near Bayard	6833	1961-62	c	s	
Red Willow Creek near Bayard	6840	*1964	c		
DeGraw Drain near Bridgeport	684250	*1964	c		
Indian Creek near Bridgeport	684350	*1964	c		
Upper Dugout Creek near Bridgeport	684450	*1964	c		

DISCONTINUED SURFACE-WATER QUALITY STATIONS--Continued

[Type of record: c, chemical; m, microbiological; s, sediment; t, temperature]--Continued

Station name	Station number	Period of record (water years)	Type of record
Platte River Basin--Continued			
North Platte River at Bridgeport	6845	*1964	c
		1971-74	c t
		1970-73	c t
Pumpkin Creek near Bridgeport	6850	*1949	c
North Platte River at Lisco	6860	1970-94	c m s
		1971-81	c
		1971-81	t
North Platte River at Oshkosh	6865	1951	c
Kingsley Reservoir (Lake McConaughy)	6900	1947-50	c
Sutherland Canal below diversion from North Platte River near Keystone	6903	*1968	c
North Platte River near Keystone	6905	*1945	c
		1973-74	c t
North Platte River at North Platte	6930	*1950, *1958-59,	
		*1965	c
Lodgepole Creek at Kimball	762550	1973-74	c m t
South Platte River at Julesburg, CO	764001	1946-69	c
South Platte River near Julesburg, CO	764201	1969-71	c
**South Platte River at Roscoe	764880	1975-83	c m t
Sutherland Canal below diversion from South Platte River near Paxton	7649	*1968	c
South Platte River at Paxton	7650	*1965	c
Supply Canal (Tri-County diversion) near Maxwell	7657	1951-72	c t
Platte River at Brady	7660	1950-72	c
		1951-72	t
South Platte River at North Platte	7655	1993-95	c s t
Tri-County Canal (1.25 mi below diversion) near North Platte	765698	1993-95	c s t
Platte River near Cozad	7665	*1947-49, *1965,	
Platte River near Lexington	7670	1951	c
Johnson Reservoir below Power Plant No. 2 near Lexington	767040	1950-52, 1957-70	c
Plum Creek near Smithfield	7675	1996-98	c t
Larson Drain 2 miles SW of Platte River bridge S of Overton	767996	*1968	c
Spring Creek below Lexington	768015	1973-74	c m t
**Spring Creek near Overton	768020	1996-99	c t
Buffalo Creek near Darr	7685	*1948	c
**Buffalo Creek near Overton	7690	1996-99	c t
**Elm Creek near Elm Creek	769525	1996-99	c t
Unnamed Drain 2.2 miles SW of Platte River bridge S of Elm Creek	769950	*1968	c
Unnamed Drain 8.2 miles N of Holdrege	769994	*1968	c

DISCONTINUED SURFACE-WATER QUALITY STATIONS--Continued

[Type of record: c, chemical; m, microbiological; s, sediment; t, temperature]--Continued

Station name	Station number	Period of record (water years)	Type of record
Platte River Basin--Continued			
Unnamed Drain 5.2 miles SE of Platte River bridge S of Elm Creek	769996	*1968	c
Platte River near Odessa	7700	*1947-49, 1950-52,	
		*1965	c
Unnamed Drain 2.3 miles SE of Platte River bridge S of Odessa	770002	*1968	c
Whisky Slough 1 mi E of Phelps-Kearney County Line	770175	1996-98	c t
North Dry Creek near Kearney	770190	1969-71	c m t
**North Dry Creek 2 mi SW of Platte River bridge south of Kearney	770195	1996-99	c t
Whiskey Slough 3.2 miles SW of Platte River bridge south of Kearney	770198	*1968	c
**Platte River near Kearney	7702	*1947, *1959	c
Platte River (North Channel) near Kearney	770205	1973-74	c m t
Fort Kearney Slough near Newark	770240	1998	c t
Crooked Creek Drain 0.8 mile NW of Newark	770250	*1968	c
Downstream Drain near Newark	770255	1996-98	c t
Lost Creek 7.7 miles NE of Axtell	770340	*1968	c
**Platte River near Grand Island	7705	19972-80	t
		1972-89	c m
		1993-95	c s
		1996-99	c t
Wood River near Riverdale	7710	*1947-49, *1965-66,	
		1974	c
		1947-52	s
Wood River near Gibbon	7715	*1966, 1974, 1976	c
Wood River near Alda	7720	*1966, 1974, 1998-99	c m t
Wood River near Grand Island	7722	*1965-66, 1973-74	c m t
Wood River near Chapman	7725	*1958-59, 1962-80	c m t
Warm Slough near Chapman	772750	*1965-66	c
**Warm Slough near Central City	772775	1996-99	c t
**Silver Creek at mile 4 near Silver Creek	772898	1996-99	c t
Silver Creek near Silver Creek	7729	*1951, *1965-66	c
Prairie Creek near Cairo	772950	*1965	c
Silver Creek at Ovina	773150	*1966	c
Prairie Creek near Central City	7734	*1965-66	c
Prairie Creek near Fullerton	773410	*1951	c
**Prairie Creek near Silver Creek	7735	1996-99	c t
**Platte River near Dundan	7740	1965-94	c s t
		1996-99	c t
Middle Loup River near Seneca	7750	*1949-51	s

DISCONTINUED SURFACE-WATER QUALITY STATIONS--Continued

[Type of record: c, chemical; m, microbiological; s, sediment; t, temperature]--Continued

Station name	Station number	Period of record (water years)	Type of record			
Platte River Basin--Continued						
**Middle Loup River at Dunning	7755	*1947-66	c			
		1950-52, 1954, *1977			s	
		1950-56, 1966-89				t
Dismal River near Thedford	7759	1968-98	c			t
Dismal River near Gem	7760	1949-51			s	
Dismal River at Dunning	7765	*1952	c			
		1948-53, 1956-57			s	
		1956, *1977			s	
Middle Loup River near Milburn	7770	1949-55			s	
		1970-74	c			t
Middle Loup River at Walworth	7775	*1949			s	
Lillian Creek near Walworth	7779	1951			s	
Detention structure near Sargent	7781	1960-62			s	
Middle Loup River near Comstock	7785	1969-74	c			t
Farwell Canal at Highway 58 above Sherman Reservoir	778860	1977-83	c			t
Middle Loup River at Arcadia	7790	*1949	c			
		1948-57			s	
		1977-83	c			
Middle Loup River at Loup City	7795	1949-52			s	
Deer Creek near Boleus	781530	1977-83	c			t
South Loup River near Cumro	7820	*1948	c			
		1948-51			s	
Mud Creek near Broken Bow	7830	1973-74	c	m		t
Mud Creek near Sweetwater	7835	*1977			s	
		1978-89	c	m		
**South Loup River at St. Michael	7840	1946-53			s	
Oak Creek near Loup City	7843	1951-58			s	
Oak Creek near Farwell	7844	1977-83	c			t
Oak Creek near Dannebrog	7845	1977-83	c			t
Dry Creek near Dannebrog	784505	1977-83	c			t
Turkey Creek near Nysted	784750	1977-83	c			t
Turkey Creek northeast of Dannebrog	784810	1977-83	c			t
Turkey Creek tributary near St. Paul	784820	1977-83	c			t
Unnamed Creek at St. Paul	785020	1977-83	c			t

DISCONTINUED SURFACE-WATER QUALITY STATIONS--Continued

[Type of record: c, chemical; m, microbiological; s, sediment; t, temperature]--Continued

Station name	Station number	Period of record (water years)	Type of record			
Platte River Basin--Continued						
North Loup River at Brewster	7855	*1950	c			
		1948-51			s	
**North Loup River at Taylor	7860	*1956	c			
		*1949, *1977			s	
		1974-81	c			t
North Loup River near Burwell	7865	*1944, 1952	c			
		*1949-57			s	
Calamus River near Burwell	7875	*1944, *1952-56	c			
		*1949-55			s	
		1972-81	c			t
North Loup River at Ord	7885	1944	c			
		1949-55			s	
North Loup River at Scotia	7890	*1944	c			
		*1949			s	
Davis Creek near Cotesfield	7895	*1950-53, 1956			s	
North Loup River near Cotesfield	7900	*1950, 1951-54			s	
Auger Creek at Elba	790245	1977-83	c			t
Unnamed Creek south of Elba	790255	1977-83	c			t
Loup River near Palmer	791150	1993-95	c		s	t
Cedar River near Spalding	7915	*1947-49, *1959-60	c			
		1946-47			s	
		1957-63	c		s	
Cedar River at Belgrade	7918	*1959	c			
		1958-63			s	
Loup River Power Canal at Diversion near Genoa	792499	1973-86	c	m	s	t
Cedar River near Fullerton	7920	1958-59, 1974-96	c			
		1974-83				t
**Loup River Power Canal near Genoa	7925	1950-53			s	
**Loup River near Genoa	7930	1976, 1979-86	c		s	t
Beaver Creek at Loretto	7935	1947-49	c			
		1946-51			s	
Beaver Creek near Albion	7936	1973-78	c	m		t
**Beaver Creek at Genoa	7940	*1977			s	
		1978-89	c	m		
Loup River at Columbus	7945	*1946	c			
**Clear Creek 1.75 mi west of Polk County Line	794650	1996-99	c			t

DISCONTINUED SURFACE-WATER QUALITY STATIONS--Continued

[Type of record: c, chemical; m, microbiological; s, sediment; t, temperature]--Continued

Station name	Station number	Period of record (water years)	Type of record
Platte River Basin--Continued			
Platte River near Schuyler	7947	1966-68	c s
**Shell Creek near Columbus	7955	*1948-49, *1968	c
		1948-49	s
**Platte River at North Bend	7960	*1966-69	s
		1973-77	t
		1973-89	c m
Elkhorn River near Stuart	796950	*1966, *1968-69	c
Elkhorn River near Atkinson	796973	1983-89	c m
Holt Creek near Emmet	796980	*1966, *1968-69	c
Dry Creek near O'Neill	7972	*1966, *1968-69	c
Elkhorn River near Inman	7974	*1966, *1968-69	c
		1965-70	s
**Elkhorn River at Ewing	7975	*1948-49, 1960-66,	
		1968-69, 1976	c
		1948-52, 1961	s
South Fork Elkhorn River at Ewing	7980	*1948, 1960-66	c
		1961, 1963-67	s
Cache Creek near Ewing	798150	*1967-68	c
Clearwater Creek at Clearwater	798302	*1964, *1967-69	c
		1962-64	s
Antelope Creek near Neligh	798450	*1967-68	c
Elkhorn River at Neligh	7985	*1947, *1967-68,	
		1974-81	c t
		1948-51	s
		1962-64	s
Cedar Creek at Oakdale	798550	*1967-69	s
Elkhorn River at Meadow Grove	7988	*1943, *1964, *1967-69	c
		1963-65	s
Elkhorn River near Battle Creek	7989	*1968-69	c
Battle Creek at Battle Creek	798920	*1968-69	c
**Elkhorn River near Norfolk	7990	*1976-77	s t
		1960-69, 1974-89	c m
North Fork Elkhorn River above Pierce	799020	*1968-69	c
Dry Creek near Pierce	799030	*1968-69	c
North Fork Elkhorn River below Dry Creek	799031	*1968	c

DISCONTINUED SURFACE-WATER QUALITY STATIONS--Continued

[Type of record: c, chemical; m, microbiological; s, sediment; t, temperature]--Continued

Station name	Station number	Period of record (water years)	Type of record
Platte River Basin--Continued			
Yankton Slough near Pierce	799040	*1968	c
Willow Creek near Pierce	799050	*1968-69	c
**North Fork Elkhorn River near Pierce	7991	*1944, 1959-64,	
		*1968-69	c
		*1961, 1963-64	s
North Fork Elkhorn River at Hadar	799110	*1968-69	c
North Fork Elkhorn River at Norfolk	799130	*1965, 1968-69	c
		1965-68	s
Union Creek near Stanton	799290	*1964, *1968-69	c
		1962-65	s
Elkhorn River at Stanton	7993	*1943, *1968-69	c
Humbug Creek near Pilger	799310	*1968-69	c
Rock Creek near Beemer	799325	*1968-69	c
Plum Creek near Beemer	799345	*1968-69	c
**Elkhorn River at West Point	799350	1968-69, 1981-89	c m
Cuming Creek near Scribner	799365	*1968-69	c
Pebble Creek at Scribner	799385	*1968-69	c
Elkhorn River near Hooper	7994	*1968-69	c
Middle Logan Creek at Laurel	799410	*1968-69	c
Logan Creek at Wakefield	799445	*1963	c
Logan Creek at Pender	799450	1964-68, 1973-89	c m
**Logan Creek near Uehling	7995	1968-71, 1974-81	t
Middle Fork Maple Creek near Schuyler	7999	*1968	c
Bell Creek at Arlington	800250	*1968-69	c
Elkhorn River at Waterloo	8005	1966-95	c m s t
**Platte River near Ashland	8010	*1946, 1950-53, *1969	c
East inlet to Olive Creek Lake near Kramer	801148	*1967	c
West tributary to Bluestem Lake near Sprague	801264	*1967	c
Bluestem Lake near Sprague	801266	*1968	c
Salt Creek near Roca	801330	1971-80	c m
Tributary to Wagon Train Lake near Hickman	801345	*1967	c
Wagon Train Lake near Hickman	801346	*1967	c
West tributary to Stagecoach Lake near Hickman	801364	*1967	c
South inlet to Stagecoach Lake near Hickman	801365	*1967	c

DISCONTINUED SURFACE-WATER QUALITY STATIONS--Continued

[Type of record: c, chemical; m, microbiological; s, sediment; t, temperature]--Continued

Station name	Station number	Period of record (water years)	Type of record
Platte River Basin--Continued			
Stagecoach Lake near Hickman	801366	*1968	c
Hickman Branch near Roca	801370	1971	c m t
Hickman Branch at Roca	8026	*1972	c m t
Salt Creek at Saltillo Siding	803010	*1972	c
Cardwell Branch near Denton	803068	*1968	c
Yankee Hill Reservoir at dam near Denton	803070	*1968	c
Holmes Creek near Denton	803073	*1968	c
Conestoga Lake near Denton	803075	*1968	c
Salt Creek above Beal Slough at Lincoln	803080	1971-83	c m t
Beal Slough at Lincoln	803085	*1971-72	c m t
Haines Branch at Lincoln	803098	*1971-72	c m t
Salt Creek at A Street at Lincoln	8031	*1950	c
West tributary to Twin Lakes Reservoir near Pleasant Dale	803113	1968	c
North tributary to Twin Lakes Reservoir near Pleasant Dale	803114	*1968	c
Twin Lakes Reservoir near Pleasant Dale	803115	*1968	c
Middle Creek near Malcolm	803128	*1968	c
Pawnee Lake near Emerald	803130	*1968	c
Middle Creek at Lincoln	803180	1971-72	c m t
Salt Creek at 14th Street at Lincoln	803190	1971-80	c m t
Antelope Creek above Antelope Lake at Lincoln	803196	*1968	c
Antelope Lake at Lincoln	803198	*1968	c
Antelope Creek at 52nd Street at Lincoln	803199	1983	c t
Antelope Creek at 27th Street at Lincoln	8033	1971-72, 1983	c m t
Antelope Creek at Lincoln	8034	*1963	c
Antelope Creek at Court Street at Lincoln	803405	1971-83	c m t
Oak Creek at Agnew	803442	*1968	c
Middle Oak Creek near Garland	803445	*1968	c
Branched Oak Reservoir near Raymond	803448	*1968	c
North Oak Creek near Valparaiso	803470	*1971-72	c m t
Oak Creek above Air Base near Lincoln	803480	1971-72	c m t
Elk Creek near Lincoln	803485	*1971-72	c m t
Oak Creek at 1st Street at Lincoln	803490	1968-69	c
Oak Creek at 14th Street at Lincoln	803493	1971-80	c m t
**Salt Creek at Lincoln	8035	1950-60, 1968-80	c m t
		1951-54	s
Dead Man's Run at 66th Street at Lincoln	803501	1983	c t

DISCONTINUED SURFACE-WATER QUALITY STATIONS--Continued

[Type of record: c, chemical; m, microbiological; s, sediment; t, temperature]--Continued

Station name	Station number	Period of record (water years)	Type of record
Platte River Basin--Continued			
Dead Man's Run at Highway 6 at Lincoln	803503	1971-72, 1983	c m t
Little Salt Creek near Davey	803507	*1952, *1969	c
**Little Salt Creek near Lincoln	803510	*1952, *1969	c
		1971-72, 1974-77	c m t
Stevens Creek near Walton	803515	*1971-72	c m t
**Stevens Creek near Lincoln	803520	*1969, 1979-80	c
Salt Creek below Stevens Creek near Waverly	803525	1971-93	c m
Stevens Creek at Highway 6 near Lincoln	803523	1971-72, 1974-78	c m t
**Rock Creek near Ceresco	803530	1970-81	c m s t
Rock Creek near Greenwood	803534	*1971-72, 1977	c m t
Camp Creek near Greenwood	803537	*1971-72	c m t
Dee Creek at Greenwood	803550	*1971-72	c m t
Salt Creek at Greenwood	803555	1971-89	c m
		1971-72, 1981-84	t
		1972-76	s
Greenwood Creek near Greenwood	803558	*1971-72	c m t
Callahan Creek near Greenwood	803563	*1971-72	c m t
Salt Creek above Ashland	803565	1971-74	c m t
Salt Creek at Ashland	803567	*1972	c
Wahoo Creek at Ithaca	8040	1967-68	c
Silver Creek near Wahoo	804495	1974-78	c m t
Salt Creek near Ashland	8050	*1950	c
Salt Creek at mouth near Ashland	805005	*1971	c
Patte River near South Bend	805010	*1960-65	c
		1960, 1965, 1970	s
Mill Creek at Louisville	805499	1973-81	c m s t
Cedar Creek near Manley	805520	*1968	c
Cedar Creek near Louisville	805525	1973-81	c m s t
		*1971	c m t
Platte River near Plattsmouth	805550	1969-72	c m t
Fourmile Creek near Plattesmouth	805565	1974-81	c m s t
Platte River at La Platte	805570	1974	c m t

DISCONTINUED SURFACE-WATER QUALITY STATIONS--Continued

[Type of record: c, chemical; m, microbiological; s, sediment; t, temperature]--Continued

Station name	Station number	Period of record (water years)	Type of record			
Weeping Water Creek Basin						
Weeping Water Creek at Weeping Water	806460	1973-81	c	m	s	t
S Br Weeping Water Creek near Union	806495	1973-81	c	m	s	t
**Weeping Water Creek at Union	8065	*1977			s	
Weeping Water Creek near Union	806501	1973-81	c	m	s	t
		*1971	c	m		t
		*1977			s	
Missouri River						
Missouri River at Nebraska City	8070	1951-73	c			t
Little Nemaha River Basin						
Brownell Creek SWS No. 1A near Syracuse	8109	1955-69			s	
Brownell Creek SWS No. 1 near Syracuse	8110	1955-69			s	
**Little Nemaha River at Auburn	8115	*1977			s	
		1973-89	c	m		
Big Nemaha River Basin						
**Big Nemaha River at Falls City	8150	1951, 1973-89	c	m		
Kansas River Basin						
**Arikaree River at Haigler	8215	1947-49	c			
		1947-51			s	
		1950-51				t
**North Fork Republican River at CO-NE State Line	8230	1947-49	c		s	
**Rock Creek at Parks	8240	*1952-53	c			
Republican River at Benkelman	8245	*1950			s	
		1969-73, 1980-89	c	m		
**South Fork Republican River near Benkelman	8275	1950				
Republican River near Max	8280	1946-47	c			t
**Republican River at Stratton	8285	1951, 1953-54			s	t
Swanson Lake near Trenton	8290	*1957	c			
Republican River at Trenton	8295	1947-49	c			
		1947-49, 1953				t
		1947-51, 1953			s	
		*1975-76	c			t
***Enders Reservoir	8320	1952-57	c			

DISCONTINUED SURFACE-WATER QUALITY STATIONS--Continued

[Type of record: c, chemical; m, microbiological; s, sediment; t, temperature]--Continued

Station name	Station number	Period of record (water years)	Type of record
Kansas River Basin--Continued			
Frenchman Creek near Enders	8325	1947-49	c
		1946-47, 1962, 1964	s
Frenchman Creek at Wauneta	8331	1962	s
Frenchman Creek 2.6 miles E of Enders Dam near Wauneta	8327	1962	s
Frenchman Creek 5.6 miles E of Enders Dam near Wauneta	8329	1962, 1964-67	s
Frenchman Creek above Sand Canyon near Hamlet	8333	1962	s
Frenchman Creek near Hamlet	8335	1962	s
**Frenchman Creek at Palisade	8340	1964-65, *1975-76	c t
		1971-76	s
**Frenchman Creek at Culbertson	8355	1970-87	c
**Republican River at McCook	8370	1957	c
		1967-88	t
		1956-57	s
Red Willow Creek at Red Willow Diversion Dam near McCook	8379	1970-74	c t
**Red Willow Creek near Red Willow	8380	1950-53	c t
		1950-54	s
Republican River above Medicine Creek at Cambridge	8387	1951-58	c
		1951	s
Medicine Creek at Maywood	8390	1951-58	s t
Brushy Creek near Maywood	8395	1951-58	s t
		*1956	c
Fox Creek at Curtis	8400	1951-58	s t
**North Fork Republican River at CO-NE State Line	8230	1947-49	c s
**Rock Creek at Parks	8240	*1952-53	c
Republican River at Benkelman	8245	*1950	s
		1969-73, 1980-89	c m
**South Fork Republican River near Benkelman	8275	1950	s
Dry Creek near Curtis	8405	*1953-56	c
		1951-58	s
Medicine Creek above Harry Strunk Lake	8410	*1951-56	c
		1953-58	t
		1951-58	s
		1951-57	t
		1946-49, 1951-57	s
**Republican River at Cambridge	8435	1947-53	c
		1951-53	s
Turkey Creek near Edison	8442	*1968	c

DISCONTINUED SURFACE-WATER QUALITY STATIONS--Continued

[Type of record: c, chemical; m, microbiological; s, sediment; t, temperature]--Continued

Station name	Station number	Period of record (water years)	Type of record			
Kansas River Basin--Continued						
**Republican River near Orleans	8445	1969-94	c			t
Sappa Creek near Oberlin, KS	8450	1952-53, 1963-64	c			
		1963				t
		1950, 1963			s	
Sappa Creek near Beaver City	8452	1947-51	c			
		1949-52				t
		1947-52			s	
Beaver Creek at Cedar Bluffs, KS	8465	1962-63	c		s	t
Mitchell Creek above Harry Strunk Lake	8415	*1951-56	c			
		1951-57			s	
Harry Strunk Lake	8420	1952-56	c			
Medicine Creek below Harry Strunk Lake	8425	1951-52, 1954,				
		1956-57			s	
		1970-74	c			t
Medicine Creek at Cambridge	843010	*1947-53	c			
Beaver Creek near Beaver City	8470	1950-53	c			t
		1948-50, 1951-53			s	
**Sappa Creek near Stamford	8475	*1948-49, 1953	c			
		1950-53				t
		1947-53			s	
Harlan County Reservoir	8490	1956-58	c			
**Republican River below Harlan County Dam	8495	1969-74	c			t
		1956-57				t
Republican River near Bloomington	8505	1947-49	c			
Thompson Creek at Riverton	8515	1950-52	c			
Republican River near Guide Rock	8530	1962-85	c	m		t
**Republican River at Guide Rock	853020	1986-89	c	m		
Republican River at Superior	8534	1969-73	c			
**Big Blue River at Surprise	8799	1965-70, 1974-81	c			t
		1965-72			s	
Kezan Creek near Garrison	879945	*1968-69	c			
Lincoln Creek near Utica	879995	*1968-69	c			
Lincoln Creek near Seward	8800	1963-70, 1973-89	c	m		
		1964-71			s	
Big Blue River at Seward	8805	1978-89	c	m		
Plum Creek at Seward	880510	*1968-69	c			
Big Blue River near Milford	880550	*1968-69	c			

DISCONTINUED SURFACE-WATER QUALITY STATIONS--Continued

[Type of record: c, chemical; m, microbiological; s, sediment; t, temperature]--Continued

Station name	Station number	Period of record (water years)	Type of record
Kansas River Basin--Continued			
West Fork Big Blue River below Hastings	880556	*1968-69	c
		1973-78	c m t
Flessner Creek near Stockham	8806	*1968	c
School Creek near Grafton	880750	*1968-69	c
Beaver Creek near Beaver Crossing	880785	*1968-69	c
**West Fork Big Blue River near Dorchester	8808	1963-70, 1973-91	c
		1988-93	s
Big Blue River at Crete	880950	*1951, *1963	c s
**Big Blue River near Crete	8810	1961-62, *1964,	
		1968-84	c m
		1960-62, *1964	s
		1962 , 1968-84	t
Squaw Creek near Crete	881010	*1968	c
Big Blue River at Wilber	881050	*1964, *1969	c
Big Blue River near Wilber	881052	*1964	c
Big Blue River at DeWitt	8811	*1964	c
Clatonia Creek near DeWitt	881105	*1968	c
Turkey Creek near Milligan	881110	1968-69	c
Turkey Creek above Brush Creek near Wilber	881150	*1964	c
Turkey Creek near Wilber	8812	1965-72,	s
		1966-70, 1973-89	c m
Turkey Creek 2 miles SW of Wilber	881210	*1964	c
Turkey Creek above Swan Creek near DeWitt	881220	*1964	c
North Fork Swan Creek near Swanton	881353	*1964	c
Swan Creek at Swanton	881356	*1964	c
Swan Creek near DeWitt	881357	*1968-69	c
Turkey Creek near DeWitt	881358	*1964	c
Big Blue River near DeWitt	881420	*1968-69	c
Cub Creek near Beatrice	881430	*1968-69	c
Indian Creek at Beatrice	881450	*1968-69	c
Big Blue River at Beatrice	8815	*1960-69	c
		*1960-61, *1963	s
		1978-83	c m t
Bear Creek near Beatrice	881520	*1968-69	c
Cedar Creek near Holmesville	881530	*1968	c
Mud Creek near Holmesville	881650	*1968-69	c
Big Indian Creek at Wymore	881750	*1968-69	c
Wildcat Creek near Barneston	881950	*1968	c

DISCONTINUED SURFACE-WATER QUALITY STATIONS--Continued

[Type of record: c, chemical; m, microbiological; s, sediment; t, temperature]--Continued

Station name	Station number	Period of record (water years)	Type of record
Kansas River Basin--Continued			
**Big Blue River at Barneston	8820	1967-68	
		1981-93	c m t
Plum Creek at Barneston	882050	*1968-69	c
Big Blue Creek near Oketo, KS	8824	1961-64	c
Sand Creek near Holstein	882550	*1969	c
Cottonwood Creek near Roseland	882650	*1968-69	c
Little Blue River below Pawnee Creek near Pauline	8829	*1965, *1968	c
Pawnee Creek at Spring Ranch	882950	*1968-69	c
**Little Blue River near Deweese	8830	1959-70, 1975-89	c m
		1979-81	t
		1953, 1955-61	s
Little Blue River above Oxbow Creek near Angus	8833	*1968	c
Little Blue River at Angus	8835	1951-53	s
Elk Creek near Oak	883510	*1968-69	c
Spring Creek at Hebron	883553	*1968-69	c
Dry Creek near Hebron	883563	*1968-69	c
Little Blue River near Alexandria (Gilead)	883570	*1968	c
Big Sandy Creek near Davenport	883585	*1968-69	c
Big Sandy Creek near Powell	883950	*1668-69	c
Little Sandy Creek near Powell	883960	*1968-69	c
Little Blue River at Fairbury	883995	*1968-69	c
**Little Blue River near Fairbury	8840	1951-53, 1955-57	s
		1952-63, *1960-61,	
		*1968	c
Rose Creek near Endicott	884010	*1968	c
Little Blue River at Steele City	884020	*1968	c
****Little Blue River at Hollenberg, KS	884025	1972-90	c s t

*Less than 10 samples.
**Current continuous-record surface-water gaging station.
***Current reservoir stations.
****Station operated by Nebraska USGS.

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INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with State agencies, obtains a large amount of data pertaining to the water resources of Nebraska each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the Geological Survey, the data are published annually in this report series entitled "Water Resources Data - Nebraska."

This report includes records on both surface and ground water in the State. Specifically, it contains: (1) Discharge records for 95 streamflow-gaging stations (continuous records), for 22 partial-record or miscellaneous streamflow stations, including 5 crest-stage gages; (2) stage-only records for 3 stations; (3) stage and contents for 7 lakes and reservoirs; (4) water-quality records for 10 streamflow-gaging stations, for 7 ungaged stream sites, and for 192 wells; and (5) water-level records for 47 observation wells. Records included for stream stages and for ground-water levels are only a small fraction of those obtained during the water year. The data in this report represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Nebraska.

This series of annual reports for Nebraska began with the 1961 water year with a report that only contained data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that only contained data relating to water quality. Beginning with the 1975 water year, the report format was changed to present, in one volume, data on quantities of surface water, quality of surface and ground water, and ground-water levels.

Prior to introduction of this series and for several water years concurrent with it, water-resources data for Nebraska were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-Water Supply of the United States, Parts 6A and 6B." For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States," and water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States." The above mentioned Water-Supply Papers may be consulted in the libraries of the principal cities of the United States and may be purchased from U.S. Geological Survey, Information Services, Federal Center, MS 517, Box 25046, Denver, CO 80225.

Additional information, including current prices, for ordering specific reports may be obtained from the Office Chief at the address given on the back of the title page or by telephone (402) 437-5082.

COOPERATION

The U.S. Geological Survey and agencies of the State of Nebraska have had cooperative agreements for the collection of water-resource records since 1930. Organizations that assisted in collecting the data in this report through cooperative agreement with the Survey are: Nebraska Department of Natural Resources; Conservation and Survey Division, University of Nebraska-Lincoln; Big Blue River Compact Administration; Loup River Public Power District; Nebraska Public Power District; City of Lincoln; Lancaster County; and many of the Natural Resources Districts.

Assistance with funds or services was given by the U.S. Army Corps of Engineers in collecting records for 22 streamflow-gaging stations and 4 crest-stage gages, and by the U.S. Bureau of Reclamation in collecting records for 1 reservoir station, and in providing elevations or capacity tables for 4 additional reservoir stations.

The following organizations aided in collecting records: Nebraska Department of Natural Resources, Central Nebraska Public Power and Irrigation District, Nebraska Public Power District, and Loup River Public Power District, and all 23 Natural Resources Districts with ground-water levels.

SUMMARY OF HYDROLOGIC CONDITIONS

Streamflow, chemical quality of streamflow, and ground-water levels are related to precipitation. The relation of these hydrologic characteristics to precipitation during water year 2000 at selected locations is discussed in this summary section.

Precipitation

Precipitation data from published reports of the U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service, and provisional data from the Nebraska Climate Office, University of Nebraska, for the eight National Weather Service divisions in Nebraska are shown in figure 1 and listed in table 1. Precipitation for the normal period (1961-90) and water year 2000, and departures from normal are shown for each quarter of the year to emphasize temporal as well as spatial variations of precipitation.

The precipitation totals for each division in Nebraska during water years 1998, 1999, 2000, and normal precipitation (1961-90) are shown in figure 2. Precipitation totals for each division for each month of water year 2000 and normal precipitation are shown in figure 3.

All divisions received less-than-normal precipitation during the first quarter of water year 2000 (table 1). There was some improvement in moisture during the second quarter of the water year as three divisions—the Panhandle, Southwest, and South Central—had greater-than-normal precipitation, but only the Panhandle received enough precipitation to have a greater-than-normal total for the first half of the water year. All divisions had less-than-normal precipitation for both the third and fourth quarters, except the Southwest, which had slightly more than normal precipitation during the fourth quarter. All divisions had less than normal precipitation during the water year. Departures from normal precipitation varied from -0.92 inches in the Panhandle to -9.36 inches in the East Central division during the 2000 water year.

Table 1. Precipitation and departures from normal, water year 2000

[All values are in inches. Period of record for normal, 1961-90. Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service published reports and provisional data from the Nebraska Climate Office, University of Nebraska]

National Weather Service division	Precipitation											
	First quarter (October-December)			Second quarter (January-March)			Third quarter (April-June)			Fourth quarter (July-September)		
	Normal	Water year 2000	Departure	Normal	Water year 2000	Departure	Normal	Water year 2000	Departure	Normal	Water year 2000	Departure
Panhandle	1.80	0.58	-1.22	1.77	3.53	1.76	7.80	6.86	-0.94	5.39	4.87	-0.52
North Central	2.59	.51	-2.08	2.34	1.85	-.49	9.03	8.57	-.46	7.68	5.57	-2.11
Northeast	3.60	1.12	-2.48	3.10	2.57	-.53	10.48	9.79	-.69	8.66	5.25	-3.41
Central	3.05	.72	-2.33	2.77	2.52	-.25	10.12	6.19	-3.93	8.48	6.91	-1.57
East Central	4.40	1.40	-3.00	3.46	2.83	-.63	11.20	8.60	-2.60	10.11	6.98	-3.13
Southwest	2.17	.59	-1.58	2.11	2.86	.75	8.58	3.87	-4.71	6.72	6.90	.18
South Central	2.93	.54	-2.39	2.70	4.94	2.24	9.86	6.34	-3.52	8.85	7.70	-1.15
Southeast	4.62	1.63	-2.99	3.68	3.17	-.51	11.02	8.63	-2.39	11.02	8.17	-2.85

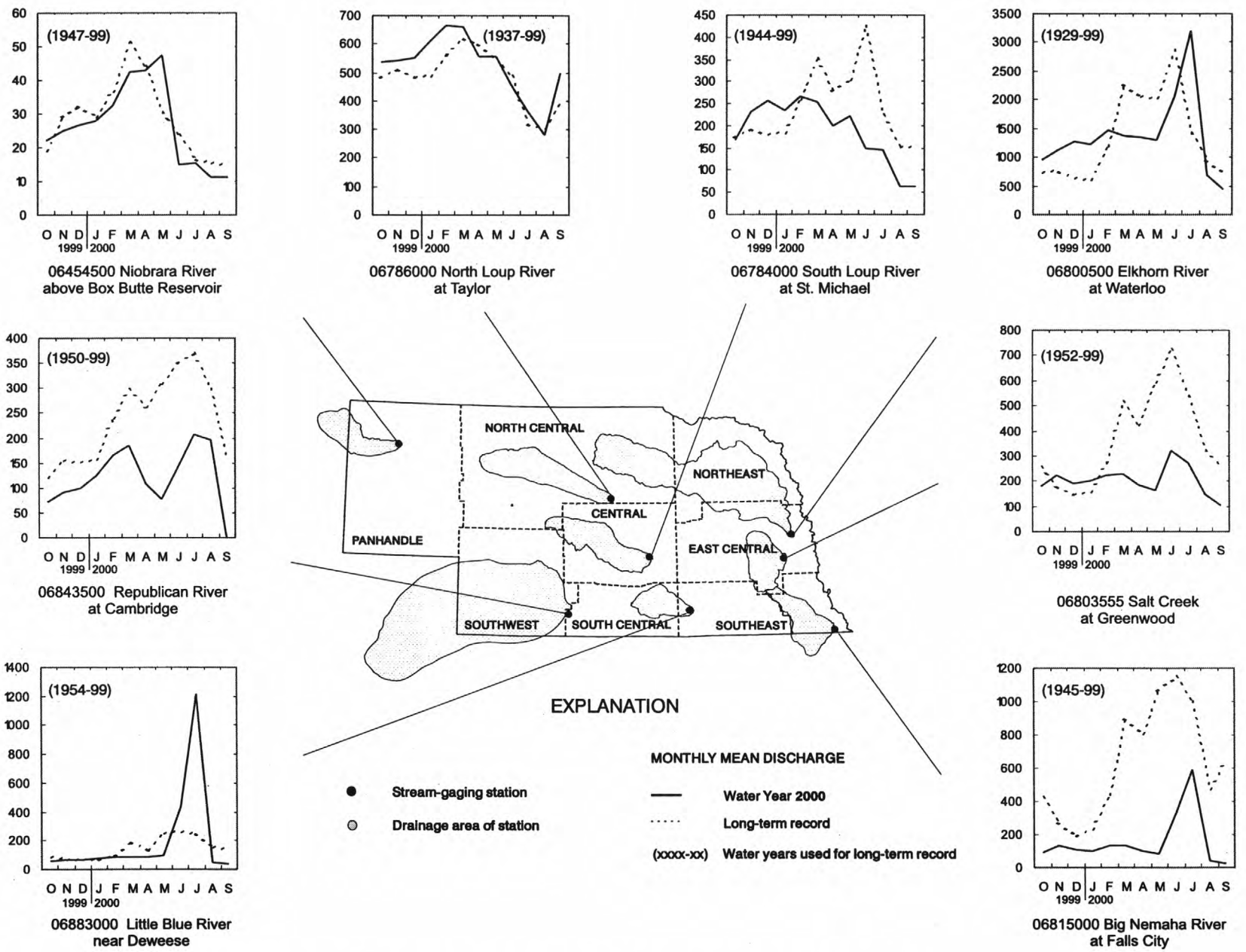


Figure 1. Streamflow data for water year 2000 and the long-term record. Refer to page 5 for precipitation graphs (fig. 3).

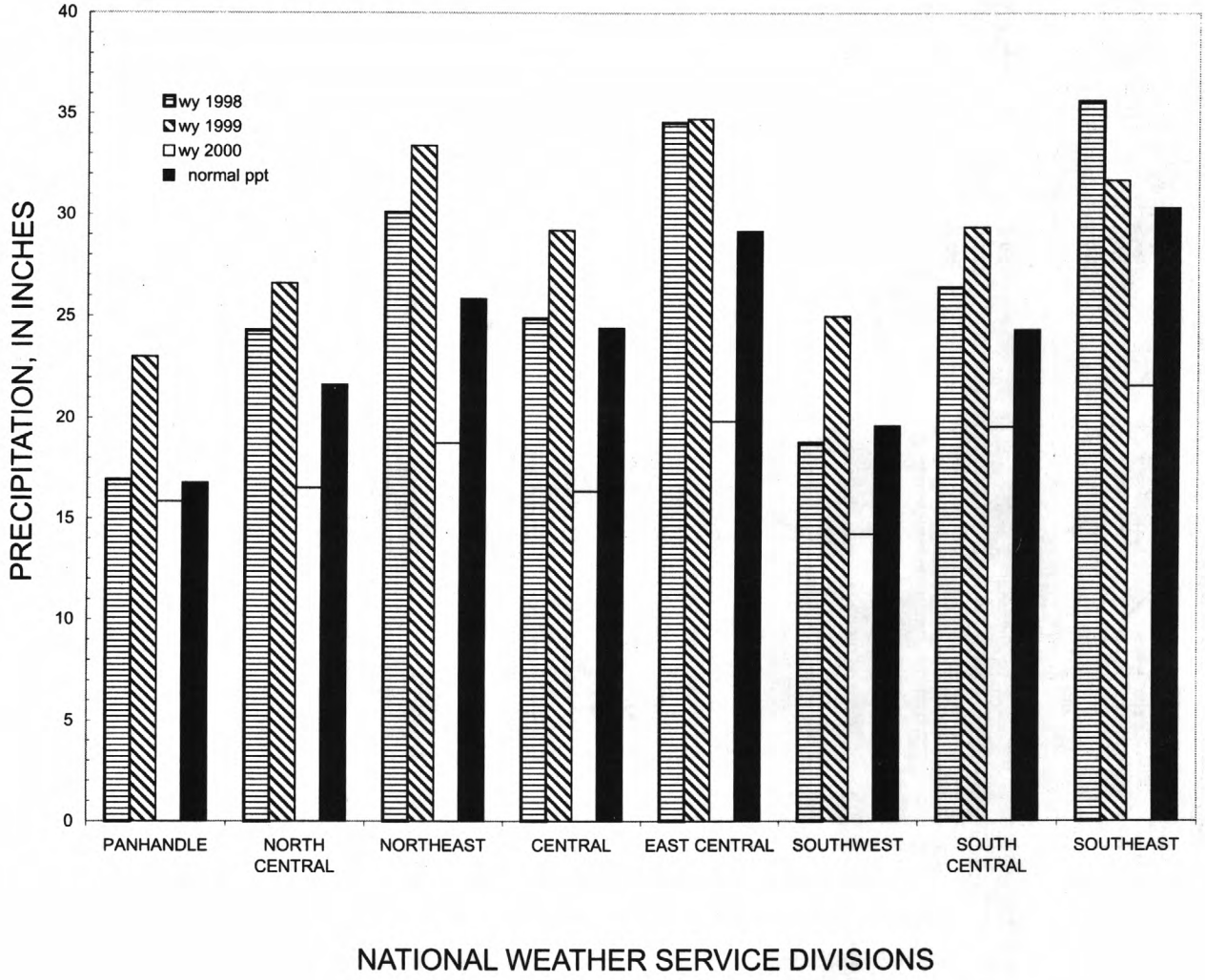


Figure 2. Precipitation for water years 1998, 1999, 2000, and normal precipitation (1961-90) for the eight National Weater Service divisions in Nebraska.

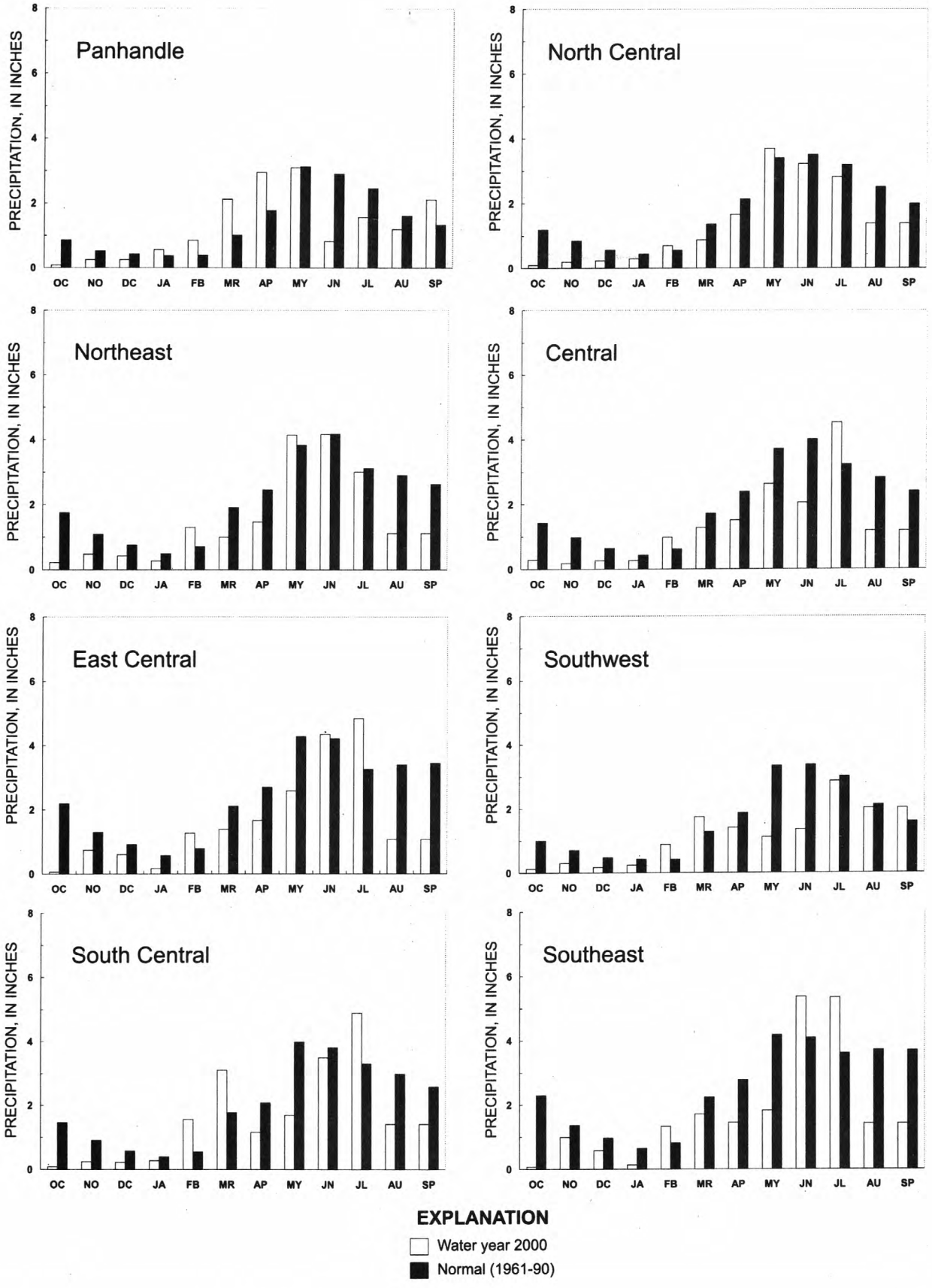


Figure 3. Monthly precipitation for water year 2000 and normal precipitation (1961-90) for each National Weather Service division in Nebraska.

Streamflow

This report covers representative stations that have drainage areas within or mostly within the eight National Weather Service division boundaries. The monthly mean flows for the current water year for each of these representative stations are compared to the monthly mean flows for the long-term record for each of these stations and to the precipitation data for the appropriate National Weather Service divisions. Although a station may lie outside a division boundary, the comparison of flow is made to the current year's precipitation within the division where most of the drainage area lies. Refer to page 3 (fig. 1) for the following stations.

The individual graphs demonstrate the varied streamflow conditions in the State during water year 2000. For stations with regulated streamflow the period of record used for the long-term mean is from the completion of the last known storage structure or from the latest change in streamflow regulation upstream from the gage.

Although station 06883000, Little Blue River near Deweese, is located in the Southeast division, this station receives runoff from areas mostly in the South Central division. At the beginning of the water year, flow was less than the long-term mean, was slightly greater than the long-term mean through the winter months as there was very little storage as ice, and was again less than the long-term mean February through May. Flow increased greatly in June and July. The mean flow for July 2000 was about 5 times the July long-term mean. Precipitation was 148 percent of normal in the South Central division during July. Flow decreased again to less than normal during August and September.

Data for station 06843500, Republican River at Cambridge, was supplied by the Nebraska Department of Water Resources office in Cambridge, and is located near the eastern edge of the Southwest division. This station has a drainage area encompassing most of the Southwest division as well as parts of northeastern Colorado and northwestern Kansas, only a little more than 50 percent of the area contributes to runoff. Streamflow was less than normal during the entire water year at this gaging station. Precipitation was 5.36 inches less than normal in the Southwest division during the water year and only during February and March was the precipitation greater than normal.

Data for station 06454500, Niobrara River above Box Butte Reservoir, in the Panhandle division, was supplied by the Nebraska Department of Water Resources office in Bridgeport. Precipitation in the Panhandle was greater than normal during the second quarter of the water year, but was less than normal during the other quarters. Streamflow was only greater than normal during October and May, and was less than normal during all the other months.

Station 06786000, North Loup River at Taylor, located in the south-central part of the North Central division, receives runoff from the Sandhills in the west-central and south-central parts of the division. Precipitation in the North Central division was greater than normal only during February and May and was 5.14 inches less than normal for the water year. Streamflow, however, was greater than normal for most of the year. Only during April, June, and August was streamflow less than normal. Because ground water is the major contributor to streamflow at this site, it reflects the conditions of the ground-water table and streamflow remains relatively steady.

Station 06784000, South Loup River at St. Michael, is located near the southern edge of the Sandhills region in the Central division of the State. Flow generally follows the precipitation pattern of the entire division because the drainage area covers a significant part of the Central division. A significant part of the flow also is derived from ground-water discharge. Flow was less than normal during October, but increased to greater than normal during the months of November through February. Although precipitation was less than normal for most of this period, temperatures were warm, and there was little storage in ice. Streamflow was less than normal for the remainder of the year starting in March as precipitation was less than normal overall for this period. Only July indicated greater-than-normal precipitation.

Station 06800500, Elkhorn River at Waterloo, located in the East Central division of the State, has a drainage area that lies in the eastern part of the North Central division, as well as most of the Northeast division and part of the East Central division. Flow was greater than the long-term mean at the beginning of the water year, which continued through February. However, precipitation was less than normal for this period, except for the month of February. The higher flows were due to wetter-than- normal conditions in the basin in 1999, higher ground-water levels maintaining the ground-water discharge to the river, and low ice storage during winter months. Streamflow was less than normal for the remainder of the water year except for July. Thunderstorms during the first part of July produced runoff exceeding twice the mean July flow.

Station 06803555, Salt Creek at Greenwood, is located in and receives runoff almost entirely from the East Central division. Flow was less than normal in October at the beginning of the water year, but increased to greater than normal November through January. Precipitation was less than normal for this period, so the higher flows were the result of less ice storage than normal. As the dry conditions continued, streamflow also declined, with some increases in June and July. Increases were not enough to bring the mean flow up to the long-term mean. The East Central division had the greatest precipitation deficit of all the divisions during the water year, at -9.36 inches, 68 percent of normal.

Station 06815000, Big Nemaha River at Falls City, located in the southeast part of the Southeast division, receives runoff from the eastern part of the division. Flow at this gaging station was less than normal for the entire water year. The mean flow for the 2000 water year was only 25 percent of the long-term annual mean for this site. Precipitation was less than normal for all months except February, June, and July. The precipitation in June and July produced increased flow in the river, but not enough to bring the flow up to the long-term mean.

The Southwest division had the second largest precipitation deficit of the National Weather Service divisions, at -8.74 inches, 71 percent of normal.

Water Quality

Water samples were collected to determine the water quality at various surface-water stations around the State. Parameters measured included specific conductance, pH, temperature (both water and air), barometric pressure, dissolved oxygen, sediment, bacteria, nutrients, and major ions.

Generally, the concentration of dissolved solids (which includes major ions) in streams is related inversely to streamflow. Large streamflows resulting from snowmelt and rainfall runoff have smaller dissolved-solids concentrations per unit volume, whereas small streamflows, composed largely of ground-water discharge to streams (base flow), have larger dissolved-solids concentrations. This inverse relation between dissolved solids and streamflow is less pronounced at stations downstream from lakes and reservoirs, where two components of flow (runoff and base flow) can be retained and mixed.

The presence of nitrogen in surface water is recognized as a major factor in growth of aquatic plants. The contribution of nitrogen, commonly resulting from application of agricultural fertilizers, to surface water can result in biological enrichment of algae and other aquatic plant growth. Dissolved oxygen in streams is essential for the survival of most aquatic organisms and plays an important role in the decomposition of wastes. Suspended-sediment concentration is directly related to stream turbidity and generally increases with stream discharge as a result of eroded sediment transported by runoff.

Ground-Water Levels

Water-level changes during water year 2000 were determined from a statewide network of observation wells measured by 28 Federal, State, and local agencies. The network consists of approximately 4,000 wells measured annually, semiannually, or monthly and 86 wells equipped with continuous recorders. Because of the importance of ground water as a source for irrigation and municipal supplies, most observation wells in Nebraska are located in those areas where large quantities of ground water are withdrawn. Water-level fluctuations in selected observation wells are shown in figure 4.

Data from 47 observation wells are included in this report; 19 of these wells are equipped with continuous recorders. Water levels declined in most recorder wells from the end of water year 1999 to the end of water year 2000.

In areas of Nebraska where ground water is used only for domestic and stock supplies, most water-level fluctuations are caused by variations in natural recharge to and discharge from the aquifers. In these areas, water levels commonly rise during the fall and winter months, when recharge from precipitation exceeds discharge through seepage to streams and evapotranspiration. Water levels decline during the spring and summer months, when discharge by seepage to streams and by evapotranspiration is greater than recharge from precipitation.

In water year 2000, total precipitation was less than normal in all divisions (table 1), providing less water available for recharge to the aquifers. Water level changes in the individual divisions are described next.

In the National Weather Service's Central division in Nebraska, monthly total precipitation was less than normal during all months except one from October to June; the monthly total precipitation for February was slightly greater than normal. The hydrograph for the Buffalo County well (fig. 4) generally is representative of hydrographs for wells in this division. The water year 2000 hydrograph from this well shows that the lack of precipitation from October through June affected ground-water levels. Ground-water levels during this time indicate very little recharge to the aquifer. Monthly total precipitation in July exceeded normal precipitation amounts, but during August and September, precipitation once again was less than normal. The hydrograph of the Buffalo County well shows that water levels declined from June through the middle of September. This reflects withdrawals of ground water for irrigation in the Central division. The water level at the end of water year 2000 was 4.7 feet lower than at the end of water year 1999.

The hydrograph for the observation well in Seward County (fig. 4) is generally representative of water-level fluctuations that occurred in the East Central division of the State during water years 1999 and 2000. Despite low precipitation during October-April, the water level in this well rose, showing recovery after the 1999 irrigation season. The ground-water level declined during the irrigation season, with some recovery by September 30. The water level at the end of water year 2000 was 1.23 feet lower than at the end of water year 1999.

Water-level fluctuations shown for an observation well in Chase County (fig. 4) are representative of those that occurred in irrigated areas in the Southwest division of the State during water years 1999 and 2000. During water year 2000, the water level in this well had recovered by April 2000 to about 1 foot below the water level of April 1999. However, water-level declines during water year 2000 were greater than water-level declines during water year 1999. The water level at the end of the year was 2.15 feet lower than at the end of water year 1999.

Water-level fluctuations for an observation well in Holt County (fig. 4) are generally representative of water-level fluctuations in wells in north-central Nebraska. Except for February, precipitation was less than normal in north-central Nebraska during the October through April time period of water year 2000. The water level in this well did not recover to the same level as it did in water year 1999. The water level started declining earlier and the drawdown was greater in water year 2000 than in water year 1999. Precipitation was less than normal during every month of the growing season, May through September, except for the month of May. The water level at the end of water year 2000 was 3.5 feet lower than at the end of water year 1999.

Ground-water levels typically reach the highest levels in early to late spring (March through June) (fig. 4) prior to withdrawals for ground-water irrigation. Exceptions to this can occur when leakage from surface-water irrigation canals, typically operating from May-June through September, recharge shallow aquifers (Scotts Bluff County well, fig. 4). The hydrograph for the observation well in Scotts Bluff County shows the influences of recharge from surface irrigation canals. At the end of surface-water irrigation, infiltration of surface water slows or stops, and by late spring, ground-water levels return to pre-irrigation conditions. Because water levels in this well are affected by surface-water irrigation, annual comparisons are made from June to June (typically the lowest water levels during the year) rather than at the end of the water year. The lowest water level in June 2000 was nearly the same as the lowest water level in June 1999, 26.73 feet to 26.75 feet, respectively.

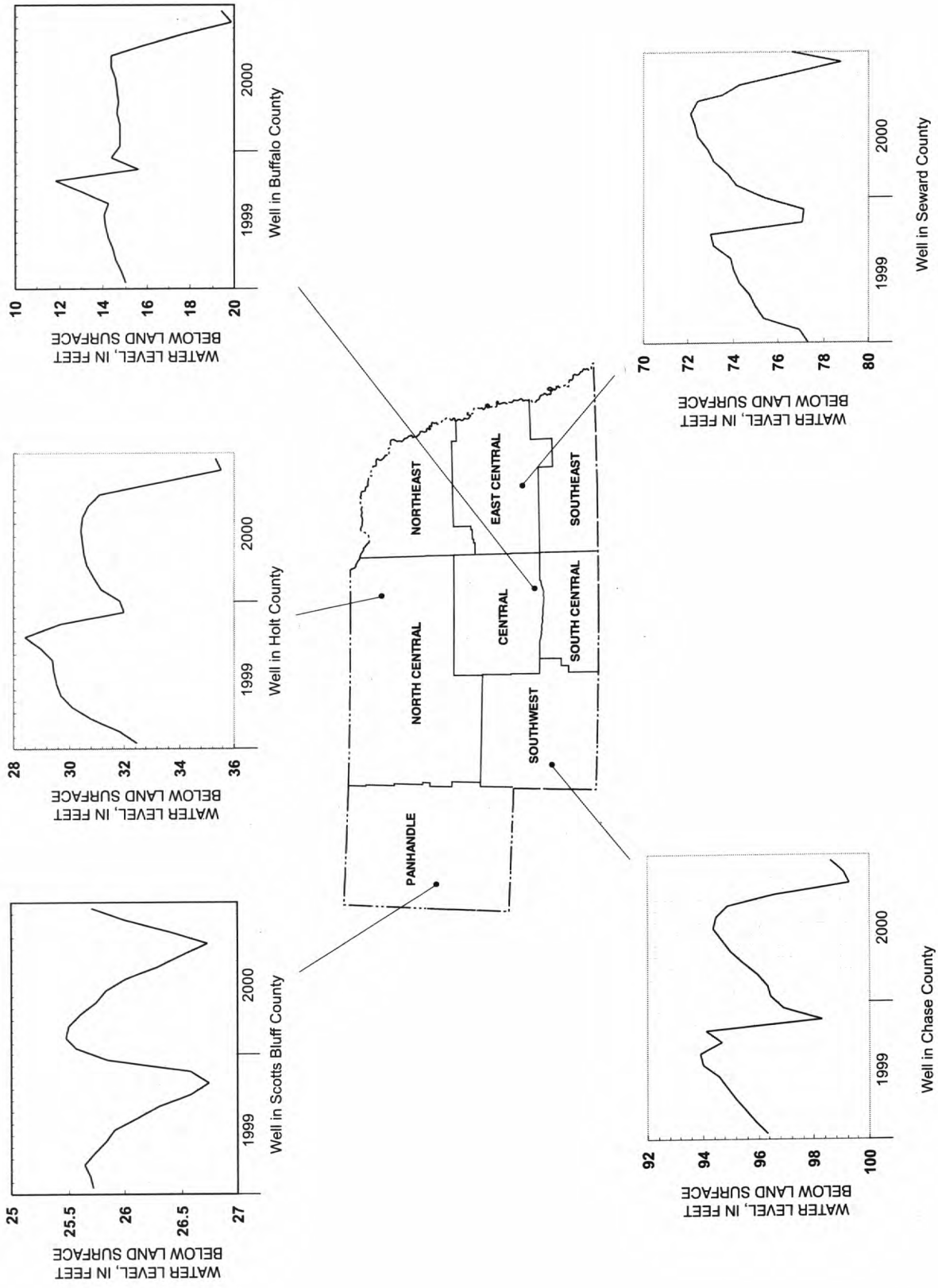


Figure 4. Water levels in selected observation wells, water years 1999 and 2000.

WATER USE

General water-use facts for the State of Nebraska for the year 1995 are listed below. Water-use information is collected and published every 5 years.

- Total water use in Nebraska was 25,241.59 million gallons per day (Mgal/d).
- Surface-water use was 19,040.61 Mgal/d, or 75.4 percent of total water use.
- Ground-water use was 6,200.98 Mgal/d, or 24.6 percent of total water use, of which 5,776.60 Mgal/d or 93.1 percent was used for irrigation.
- The largest use of water in Nebraska was for power generation, with 17,354.26 Mgal/d or 68.8 percent of all water use, of which greater than 99.9 percent was from surface water.
- Excluding power production, total water use was 7,887.33 Mgal/d, of which 6,196.12 Mgal/d or 78.6 percent was from ground water.
- Total population for 1995 was 1.64 million; total population for 1990 was 1.58 million, a 3.8 % increase since 1990.
- Total per capita use of all water was 15,419.42 GPD (gallons per day).
- Domestic water use was 197.25 Mgal/d, an average of 120 GPD per capita.
- Commercial water use was 78.98 Mgal/d, with 99.9 percent from public supply.
- Industrial water use was 56.61 Mgal/d, with 46.3 percent supplied from public supply.
- Irrigation water use was 6,996.38 Mgal/d, or 27.7 percent of all water use. This is 70.0 percent of all offstream water use.
- Livestock water use was 141.90 Mgal/d, or 1.4 percent of all offstream use.
- Total power generation was 24,451 Gwh (giga watt hours).

[From Zheng, S. and Frankforter, J.D., Estimated Water Use in Nebraska, 1995, Nebraska Natural Resources Commission Publication No. 501-2]

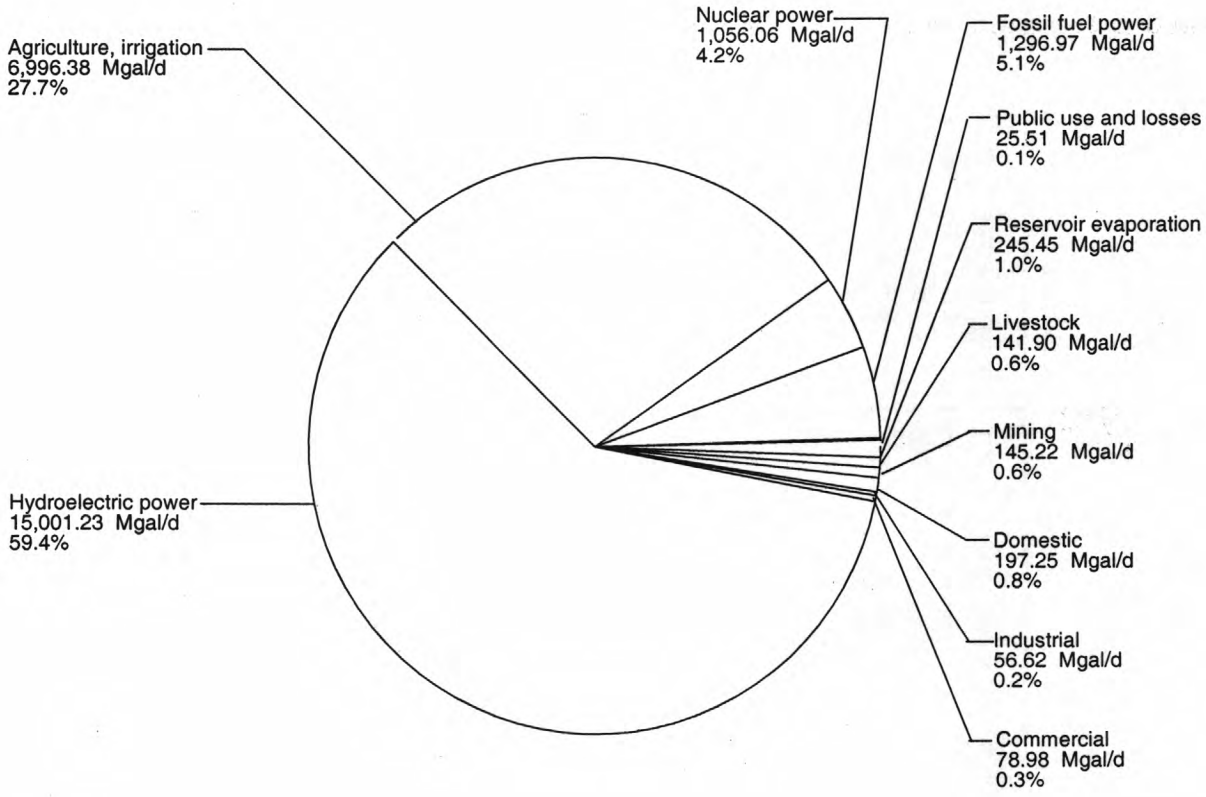


Figure 5. (a) Estimated total water use in Nebraska, 1995.

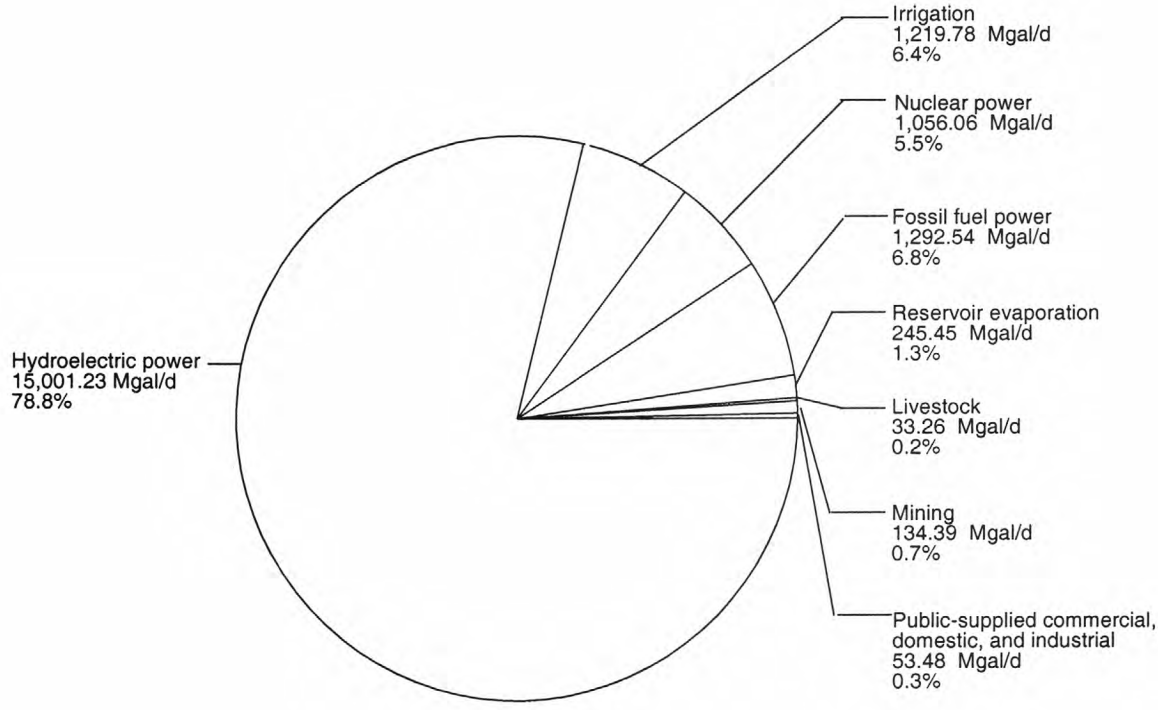


Figure 5. (b) Estimated total surface-water use in Nebraska, 1995.

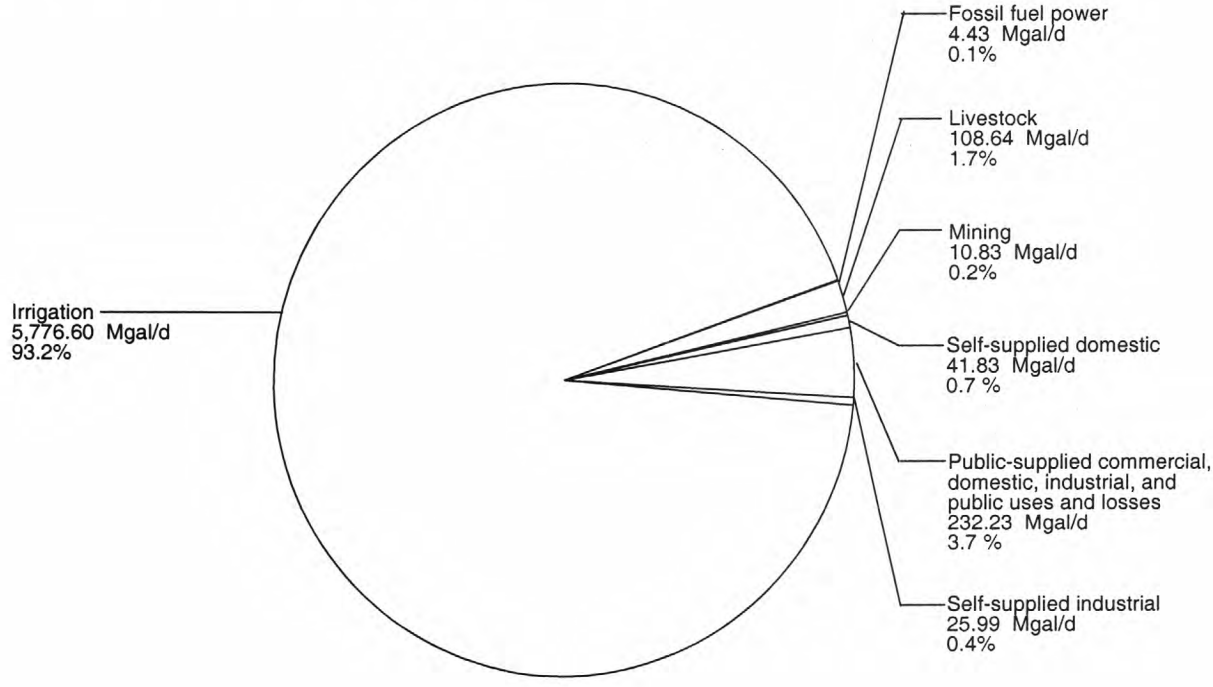


Figure 5. (c) Estimated total ground-water use in Nebraska, 1995.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Bench-Mark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activities.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 39 stations. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical climate of precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to accomplish the following objectives: (1) Provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 191 precipitation chemistry monitoring sites; (2) Provide the mechanism to evaluate the effectiveness of the significant reduction in SO_2 emissions that began in 1995 as implementation of the Clean Air Act Amendments (CAAA) occurred; (3) Provide the scientific basis and nationwide evaluation mechanism for implementation of the Phase II CAAA emission reductions for SO_2 and NO_x scheduled to begin in 2000.

Data from the network, as well as information about individual sites, are available through the world wide web at:

http://nadp.nrel.colostate.edu/NADP

The National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 53 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key federal, State, and local water resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies.

Additional information about the NAWQA Program is available through the world wide web at:

http://water.usgs.gov/nawqa/nawqa_home.html

Radiochemical Program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 1999 water year that began October 1, 1998, and ended September 30, 1999. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, water-quality data for surface and ground water, and ground-water-level data. The locations of the stations and wells where the data were collected are shown in figures 6, 7, and 8. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station, whether streamsite or well, in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for surface-water stations and the "latitude-longitude" system is used for wells.

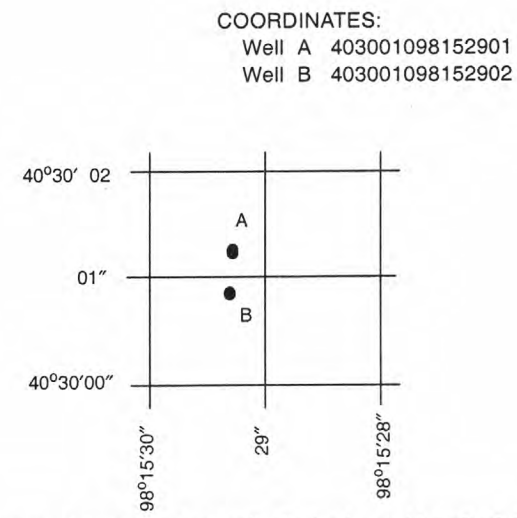
Downstream Order System

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indention in the "List of Stations" in the front of this report. Each indention represents one rank. This downstream order and system of indention shows which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight-digit number for each station, such as 06797000, which appears just to the left of the station name, includes the two-digit Part number "06" plus the six-digit downstream-order number "797000." The Part number designates the major river basin; for example, Part "06" is the Missouri River Basin.

Latitude-Longitude System

The identification numbers for wells are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description. (See figure).



System for numbering wells (latitude and longitude)

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir content, similarly, are those for which stage or content may be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a continuous stage-recording device, but need not be. Because daily mean discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device, and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records," or "Discharge measurements at miscellaneous sites." Records of discharge measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately if made during the year. Location of all complete-record and crest-stage partial-record stations for which data are given in this report are shown in figure 6.

Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relationships between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily discharges. The data obtained at a complete-record gaging station on a lake or reservoir consist of a record of stage and of notations regarding factors that may affect the relationship between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Continuous records of stage are obtained with analog recorders that trace continuous graphs of stage or with digital recorders that punch stage values on paper tapes at selected time intervals. Measurements of discharge are made with current meters using methods adopted by the Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations, Book 3, Chapter A1 through A19 and Book 8, Chapters A2 and B2. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standards (ISO).

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using: (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow over dams or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

In computing records of lake or reservoir contents, it is necessary to have available data from surveys, curves or tables defining the relationship of stage and content. The application of stage to the stage-content curves or tables gives the contents from which daily, monthly, or yearly changes then are determined. If the stage-content relationship changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relationship. Even when this is done, the contents computed may become increasingly in error as the lapsed time since the last survey increases. Discharges over lake or reservoir spillways are computed from stage-discharge relationships much as other stream discharges are computed.

For some gaging stations, there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Data Presentation

Streamflow data in this report are presented in a new format that is considerably different from the format in data reports prior to the 1992 water year. The major changes are that statistical characteristics of discharge now appear in tabular summaries following the water-year data table and less information is provided in the text or station manuscript above the table. These changes represent the results of a pilot program to reformat the annual water-data report to meet current user needs and data preferences.

The records published for each continuous-record surface-water discharge station (gaging station) now consist of four parts, the manuscript or station description; the data table of daily mean values of discharge for the current year with summary data; a tabular statistical summary of monthly mean flow data for a designated period, by water year; and a summary

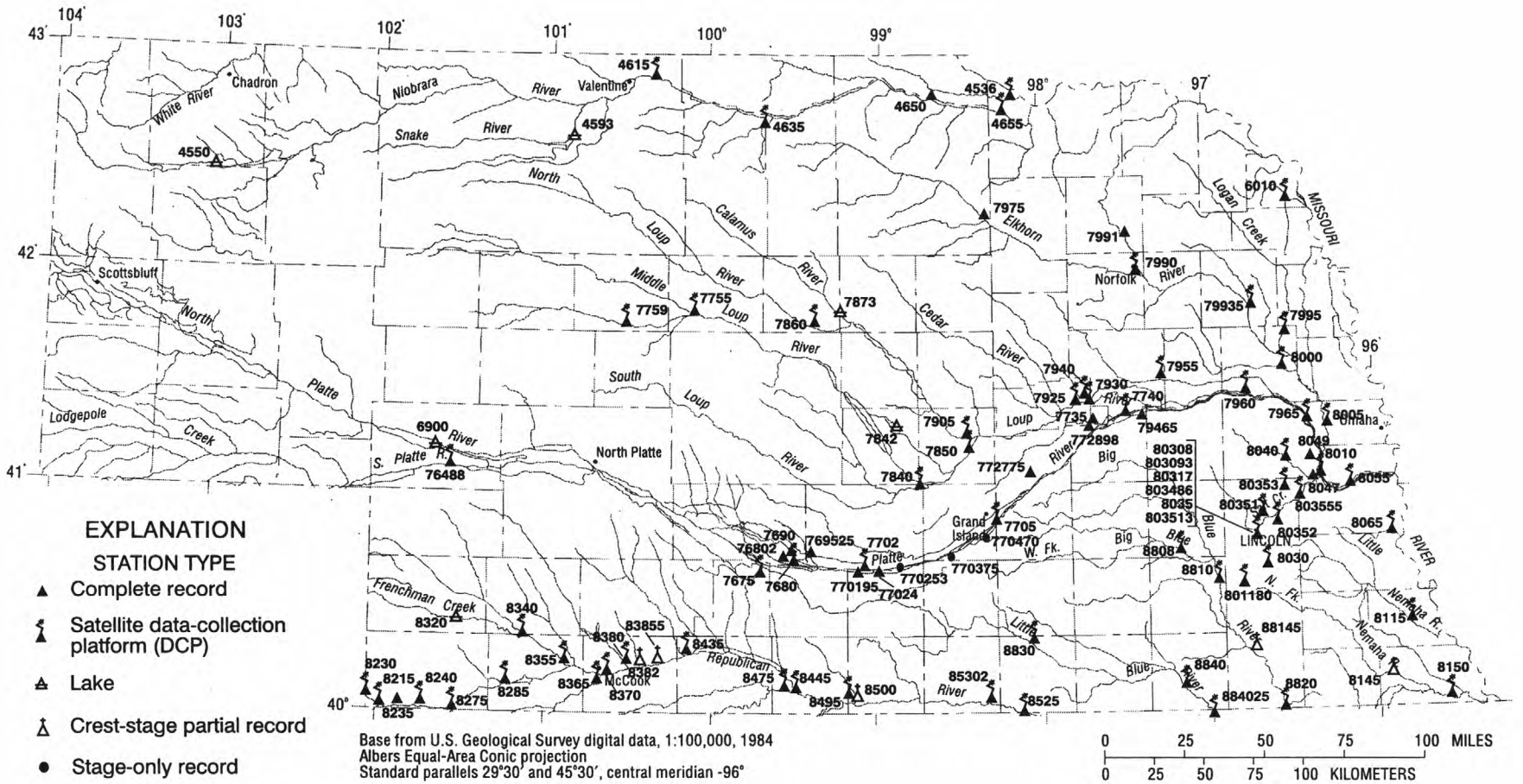


Figure 6. Location of active surface-water gaging stations.

statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration.

Station Manuscript

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.--Because of new information, published records occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to sea level (see glossary), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a remarks statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S. Geological Survey.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the offices whose addresses are given on the back of the title page of this report to determine if the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the "Remarks" and in the inclusion of a skeleton stage-capacity table when daily contents are given.

Headings for AVERAGE DISCHARGE, EXTREMES FOR PERIOD OF RECORD, and EXTREMES FOR

CURRENT YEAR have been deleted and the information contained in these paragraphs, except for the listing of secondary instantaneous peak discharges in the EXTREMES FOR CURRENT YEAR paragraph, is now presented in the tabular summaries following the discharge table or in the REMARKS paragraph, as appropriate. No changes have been made to the data presentations of lake contents.

Data table of Daily Mean Values

The daily table of discharge records for stream-gaging stations gives mean discharges for each day of the water year. In the monthly summary for the table, the line headed "TOTAL" gives the sum of the daily figures for each month; the line headed "MEAN" gives the average flow in cubic feet per second for the month; the lines headed "MAX" and "MIN" give the maximum and minimum daily mean discharges, respectively, for each month. Discharge for the month also is usually expressed in cubic feet per second per square mile (line headed "CSFM"); or in inches (line headed "IN"); or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversion data or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

Statistics of Monthly Mean Data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "MIN") of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those figures. The designated period will be expressed as "FOR WATER YEARS - , BY WATER YEAR (WY)," and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. It will consist of all the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

Summary Statistics

A table titled "SUMMARY STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, "WATER YEARS - ," will consist of all the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (See line headings below.), except for the "ANNUAL 7-DAY MINIMUM" statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the column heading. When this occurs, it should be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each continuous record of discharge. Comments to follow clarify information presented under the various line headings of the summary statistics table.

ANNUAL TOTAL.--The sum of the daily mean values of discharge for the year. At some stations the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period. At some stations the yearly mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes. At least 5 complete years of record must be available before this statistic is published for the designated period.

HIGHEST ANNUAL MEAN.--The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.--The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.--The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.--The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.--The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

INSTANTANEOUS PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Note that secondary instantaneous peak discharges above a selected base discharge are stored in District computer files for stations meeting certain criteria. Those discharge values may be obtained by writing to the District Office. (See address on back of title page of this report.)

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.--The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF.--Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

Acre-foot (AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area.

Inches (INCHES) indicates the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

10 PERCENT EXCEEDS.--The discharge that has been exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.--The discharge that has been exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.--The discharge that has been exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter symbol "e" and printing a table footnote, "e Estimated."

Accuracy of the Records

The accuracy of streamflow records depends primarily on: (1) The stability of the stage- discharge relation or, if the control is unstable, the frequency of discharge measurements; and (2) the accuracy of measurements of stage, measurements of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of their true values; "good," within 10 percent; and "fair," within 15 percent. Records that do not meet the criteria mentioned are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for values less than 1 ft^3/s; to the nearest tenth between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures for more than 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the

discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff, in inches, are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Records Available

Information used in the preparation of the records in this publication, such as discharge- measurement notes, gage-height records, temperature measurements, and rating tables is on file in the Nebraska District office. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the District office.

Records of daily diversions of water from streams by canals are collected by and published in Hydrographic Reports of the Nebraska Department of Water Resources. Included are discharge records for streams and storage records for reservoirs not published in reports of the Geological Survey. Copies of the Hydrographic Reports may be obtained from the Nebraska Department of Water Resources, 301 Centennial Mall, South, P.O. Box 94676, Lincoln, NE 68509 (telephone number: 402-471-2363).

Records of discharge, not published by the Geological Survey, are collected in Nebraska at several sites by the U.S. Army Corps of Engineers. The National Water Data Exchange (NAWDEX), U.S. Geological Survey, Reston, VA 20192, maintains an index of these sites as well as sites where other agencies have collected water data.

Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be one or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between "continuing records," as used in this report, and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figure 7.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

Onsite Measurements and Sample Collection

In obtaining water-quality data, a major concern needs to be assuring that the data obtained represent the in situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made onsite when the samples are taken. To assure that measurements made in the laboratory also represent the in situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the

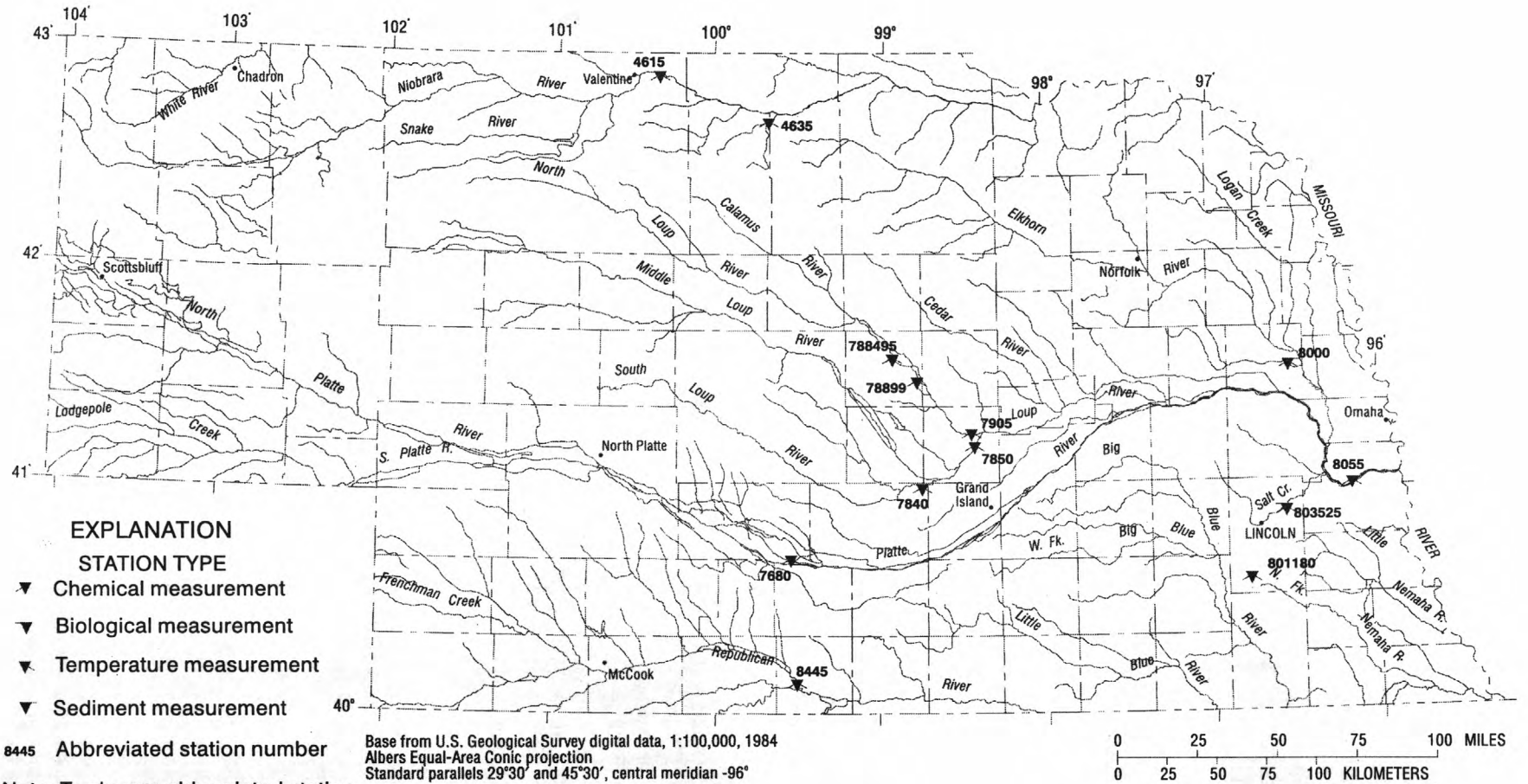


Figure 7. Location of active surface-water quality stations.

samples to the laboratory. Procedures for onsite measurements and for collecting, treating, and shipping samples are detailed in TWRI Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4. These references are listed in the PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS section of this report. These methods are consistent with ASTM standards and generally follow ISO standards.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals depends on flow conditions and other factors which must be evaluated by the collector.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

In March 1989 the National Water-Quality Laboratory discovered a bias in the turbidimetric method for sulfate analysis, indicating that values below 75 mg/L have a median positive bias of 2 mg/L above the true value for the period between 1982 and 1989. Sulfate values in this report have not been corrected for this bias.

Historical and current (1998) dissolved trace-element concentrations are reported herein for water that was collected, processed, and analyzed by using either ultraclean or other than ultraclean techniques. If ultraclean techniques were used, then those concentrations are reported in nanograms per liter. If other than ultraclean techniques were used, then those concentrations are reported in micrograms per liter and could reflect contamination introduced during some phase of the procedure.

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at the time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the Nebraska District office.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of suspended-sediment discharge, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

Laboratory Measurements

Sediment samples are analyzed in Iowa City, Iowa; samples for biochemical-oxygen demand (BOD), samples for indicator bacteria, and daily samples for specific conductance are analyzed locally; and all other samples are analyzed in the Geological Survey laboratory in Arvada, Colorado. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1. Methods used by the Geological Survey laboratory are given in TWRI, Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4. These methods are consistent with ASTM standards and generally follow ISO standards.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily, are presented first. Tables of "daily values" of specific conductance,

pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Records of Ground-Water Levels

Only water-level data from a network of selected observation wells are given in this report. These data are intended to provide a sampling and historical record of water-level changes in the Nation's most important aquifers. Locations of the observation wells in this network in Nebraska are shown in figure 8.

Although, in this report, records of water levels are presented for only selected wells, records are obtained through cooperative efforts of many Federal, State, and local agencies for several thousand observation wells throughout Nebraska and are placed in computer storage. Each spring, the Nebraska District and the Conservation and Survey Division of the University of Nebraska publish a report for the previous calendar year entitled "Groundwater Levels in Nebraska, 19__ ." This report contains hydrographs of recorder wells, detailed maps showing changes in water levels from the previous year, and other useful items. Information about the availability of the data in the water-level file may be obtained from the District Chief, Nebraska District. (see address on back of front page.)

Data Collection and Computation

Measurements of water levels are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well ensure that measurements at each well are of consistent accuracy and reliability.

Tables of water-level data are presented by counties arranged in alphabetical order. The prime identification number for a given well is the 15-digit number that appears in the upper left corner of the table. The secondary identification number is the local well number, an alphanumeric number. derived from the township-range location of the well.

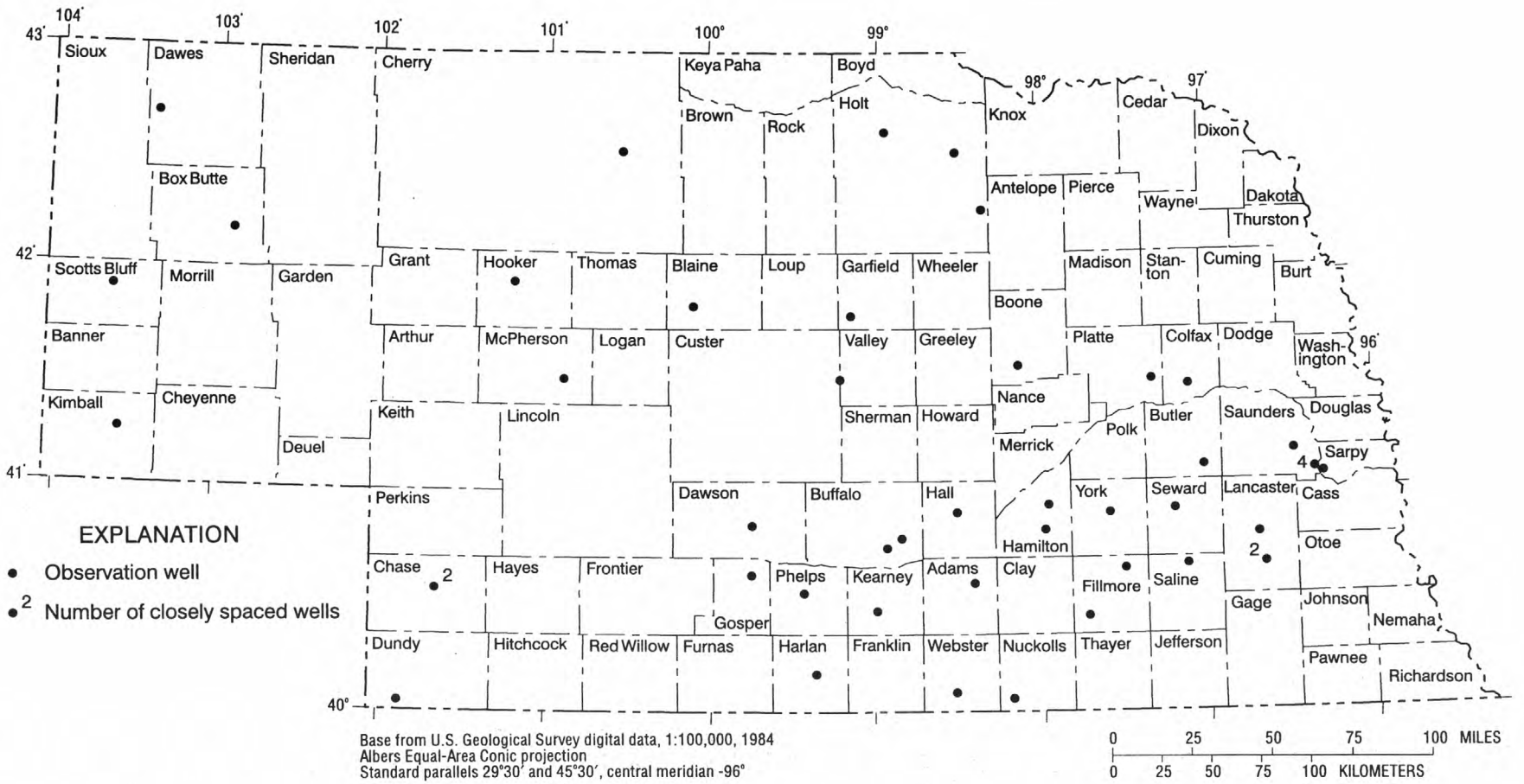


Figure 8. Location of selected observation wells.

Water-level records are obtained from direct measurements with a steel tape or from the graph or punched tape of a water-stage recorder. The water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error of determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given to a tenth of a foot or a larger unit.

Data Presentation

Each well record consists of two parts, the station description and the data table of water levels observed during the water year. Hydrographs also are presented for some wells. The description of the well is presented first through use of descriptive headings preceding the tabular data. The comments to follow clarify information presented under the various headings.

LOCATION.--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds); a landline location designation; the hydrologic-unit number; the distance and direction from a geographic point of reference; and the owner's name.

AQUIFER.--This entry designates by name (if a name exists) and geologic age the aquifer(s) open to the well.

WELL CHARACTERISTICS.--This entry describes the well in terms of depth, diameter, casing depth and/or screened interval, method of construction, use, and additional information such as casing breaks, collapsed screen, and other changes since construction.

DATUM.--This entry describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base and so on), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above (or below) sea level; it is reported with a precision depending on the method of determination.

REMARKS.--This entry describes factors that may influence the water level in a well or the measurement of the water level. It should identify wells that also are water-quality observation wells, and may be used to acknowledge the assistance of local (non-Survey) observers.

PERIOD OF RECORD.--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water-level records by the U.S. Geological Survey and the words "to current year" if the records are to be continued into the following year. Periods for which water-level records are available, but are not published by the Geological Survey, may be noted.

EXTREMES FOR PERIOD OF RECORD.--This entry contains the highest and lowest water levels of the period of published record, with respect to land-surface datum, and the dates of their occurrence.

A table of water levels follows the station description for each well. Water levels are reported in feet below land-surface datum and all taped measurements of water level are listed. For wells equipped with recorders, only abbreviated tables are published; generally, only water- level lows are listed for every fifth day and at the end of the month (eom). The highest and lowest water levels of the water year and their dates of occurrence are shown on a line below the abbreviated table. Because all values are not published for wells with recorders, the extremes may be values that are not listed in the table. Missing records are indicated by dashes in place of the water level.

Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that, for most sampling sites, they consist of only one set of measurements for the water year. The quality of ground water ordinarily changes only slowly; therefore, for most general purposes, one annual sampling, or only a few samples taken at infrequent intervals during the year, is sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for trends in nitrate concentration. In the special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes.

Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some counties but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality Statewide. Such a view can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the "U.S. Geological Survey TWRI publications referred to in the "Onsite Measurements and Sample Collection" and the "Laboratory Measurements: sections in the data report In addition, the TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow the ISO standards. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Data Presentation

The records of ground-water quality are published in a section titled QUALITY OF GROUND WATER immediately following the ground-water-level records. Data for quality of ground water are listed alphabetically by County within individual study areas and are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. No descriptive statements are given for ground-water-quality records; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water. The REMARK codes listed for surface-water-quality records are also applicable to ground-water-quality records.

ACCESS TO USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations through the world wide web (WWW). These data may be accessed at

http://water.usgs.gov

Some water-quality and ground-water data also are available through the WWW. In addition, data can be provided in various machine-readable formats on magnetic tape or 3 $^{1}/_{2}$ -inch floppy disk. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division District Offices. For Nebraska, the address is:

District Chief
U.S. Geological Survey
Rm. 406, Federal Bldg.
100 Centennial Mall, North
Lincoln, Nebraska 68508

e-mail: info@ne20dnelnc.cr.usgs.gov (general information)

swinfo@ne20dnelnc.cr.usgs.gov (surface-water information)

gwinfo@ne20dnelnc.cr.usgs.gov (ground-water information)

wqinfo@ne20dnelnc.cr.usgs.gov (water-quality information)

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System (SI) Units on the inside of the back cover.

Acid neutralizing capacity (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an "unfiltered" sample (formerly known as alkalinity).

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 325,851 gallons or 1,233 cubic meters.

Adenosine triphosphate (ATP) is an organic, phosphate-rich compound important in the transfer of energy in organisms. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measurement of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed in milligrams dry weight of algae produced per liter of sample.

Alkalinity is the capacity of solutes in an aqueous system to neutralize acid. This term designates titration of a "filtered" sample.

Annual runoff is the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

> Acre-foot (see definition above).
>
> Cubic foot per second per square mile [CSFM, $(ft^3/s)/mi^2$] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area.
>
> Inch (IN., in.), as used in this report, refers to the depth to which the drainage area would be covered with water if all of the runoff for a given time period were uniformly distributed on it.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

> Confined aquifer is s term used to describe an aquifer containing water between two relatively impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases, the water level can rise above the ground surface, yielding a flowing well.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, while others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

> Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warm-blooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 1.0 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.
>
> Fecal coliform bacteria are bacteria that are present in the intestine or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5 °C plus or minus 0.2 °C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.
>
> Fecal streptococcal bacteria are bacteria found also in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 °C plus or minus 1 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Enterococcus bacteria are commonly found in the feces of humans and other warm-blooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria which produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on mE agar and subsequent transfer to EIA medium. Enterococci include Streptococcus faecalis, Streptococcus faecium, Streptococcus avium, and their variants.

Base flow is flow in a channel sustained by ground-water discharge in the absence of direct runoff.

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Benthic invertebrates are invertebrate animals inhabiting the bottom of lakes, streams, and other water bodies. They are useful as indicators of water quality.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 105 °C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism that is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons, or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Colloid is any substance with particles in such fine state of subdivision dispersed in a medium (for example, water) that they do not settle out; but not in so fine a state of subdivision that they can be said to be truly dissolved.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Confined aquifer is a term used to describe an aquifer containing water between two relatively impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases, the water level can rise above the ground surface, yielding a flowing well.

Content is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Continuing-record station is a site that meets either of the following conditions:

1. Stage or streamflow are recorded at some interval on a continuous basis. The recording interval is usually 15 minutes, but may be less or more frequent.

2. Water-quality, sediment, or other hydrologic measurements are recorded at least daily.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic foot per second (FT^3/S, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Cubic-foot-per-second day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons, or 2,445 cubic meters.

Datum, as used in this report, is an elevation above mean sea level to which all gage height readings are referenced.

Gage datum is the elevation of the zero point of the reference gage from which gage height is determined as compared to sea level. This elevation is established by a system of levels from know benchmarks, by approximation from topographic maps, or by geographical positioning system.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place. See NOAA web site:

http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment) that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Annual 7-day minimum is the lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1 - March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

Dissolved refers to that material in a representative water sample which passes through a 0.45 µm membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Extractable organic halides (EOX) are organic compounds that contain halogen atoms such as chlorine. These organic compounds are semivolatile and extractable by ethyl acetate from air-dried stream bottom sediments. The ethyl acetate is combusted, and the concentration is determined by microcoulometric determination of the halides formed. The concentration is reported as micrograms of chlorine per gram of the dry weight of the stream bottom sediments.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations and is expressed as the equivalent concentration of calcium carbonate ($CaCO_3$).

High tide is the maximum height reached by each rising tide.

Hydrologic Benchmark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Low tide is the minimum height reached by each rising tide.

Mean high tide is the average of all high tides over a specified period.

Mean low tide is the average of all low tides over a specified period.

Mean water level is the average of all tides over a specified period.

Measuring point (MP) is an arbitrary permanent reference point from which the distance to the water surface in a well is measured to obtain the water level.

Membrane filter is a thin microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Methylene blue active substances (MBAS) are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (µg/g) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per liter (µG/L, µg/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Microsiemens per centimeter (µS/CM, µS/cm) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L and is based on the mass of dry sediment per liter of water-sediment mixture.

Miscellaneous site, or miscellaneous station, is a site where streamflow, sediment, and/or water-quality data are collected once, or more often, on a random or discontinuous basis.

Most probable number (MPN) is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. It is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

Multiple-plate samplers are artificial substrates of know surface area used for obtaining benthic-invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 39 stations. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems, such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals.

National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Organism is any living entity.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter (m^2), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

> Total organism count is the total number of organisms collected and enumerated in any particular sample.

Parameter Code is a 5-digit number used in the U.S. Geological Survey computerized data system, National Water Information System (NWIS), to identify a specific constituent uniquely. The codes used in NWIS are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of a particle determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay	0.00024-0.004	Sedimentation
Silt	.004-.062	Sedimentation
Sand	.062-2.0	Sedimentation or sieve
Gravel	2.0-64.0	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic matter is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, mass, or volume.

Periodic station is a site where stage, discharge, sediment, chemical, or other hydrologic measurements are made one or more times during a year, but at a frequency insufficient to develop a daily record.

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

Picocurie (PC, pCi) is one trillionth (1×10^{12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated by the plants (carbon method).

Primary productivity (carbon method) is expressed as milligrams of carbon per area per unit time [mg/C/(m^2/time)] for periphyton and macrophytes or per volume [mg C/(m^3/time)] for phytoplankton. Carbon method defines the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light and dark bottle method and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Primary productivity (oxygen method) is expressed as milligrams of oxygen per area per unit time [mg O/(m^2/time)] for periphyton and macrophytes or per volume [mg O/(m^3/time)] for phytoplankton. Oxygen method defines production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Return period is the average time interval between occurrences of a hydrological event of a given or greater magnitude, usually expressed in years. May also be called recurrence interval.

River mile as used in this report, is the distance above the mouth of the river where the gaging station is located, measured in miles.

Runoff in inches (IN., in.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sea level: In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)--a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along the bed and very close to it. In this report, bed load is considered to consist of particles in transit within 0.25 ft of the streambed.

Bed load discharge (tons per day or t/d) is the quantity of bed load measured by dry weight that moves past a section as bed load in a given time.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The entire sample is used for the analysis.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Suspended-sediment discharge (t/d) is the rate at which dry mass of sediment passes a section of a stream or is the quantity of sediment, as measured by dry mass or volume, that passes a section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft^3/s) x 0.0027.

Suspended-sediment load is a general term that refers to material in suspension. It is not synonymous with either discharge or concentration.

Suspended total residue at 105 °C concentration is the concentration of suspended sediment in the sampled zone expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). A small aliquot of the sample is used for the analysis.

Total sediment discharge (t/d) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry mass or volume, that passes a section during a given time.

Total-sediment load or total load is a term which refers to the total sediment (bed load plus suspended-sediment load) that is in transport. It is not synonymous with total-sediment discharge.

7-day 10-year low flow (7 Q_{10}) is the discharge at the 10-year recurrence interval taken from a frequency curve of annual values of the lowest mean discharge for 7 consecutive days (the 7-day low flow).

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C (µS/cm). Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75 percent of the specific conductance (in µS/cm). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water, per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

- Natural substrate refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives.

  Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Surface area of a lake is that area outlined on the latest USGS topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is the part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is associated with the material retained on a 0.45-µm filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-µm membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45-µm membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Synoptic Studies are short-term investigations of specific water-quality conditions during selected seasonal or hydrologic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchal scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata*, is the following:

Kingdom:	Animal
Phylum:	Arthropoda
Class:	Insecta
Order:	Ephemeroptera
Family:	Ephemeridae
Genus:	*Hexagenia*
Species:	*Hexagenia limbata*

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY or t/d) is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determined all of the constituent in the sample.)

Total discharge is the total quantity of any individual constituent, as measured by dry mass or volume, that passes through a stream cross-section per unit of time. This term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Turbidity is a measurement of the collective optical properties of a water sample that cause light to be scattered and absorbed rather than transmitted in straight lines; the higher the intensity of scattered light, the higher the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU) to Formazin turbidity units (FTU), depending on the method and equipment used.

Volatile Organic Compounds (VOCs) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and subsequently analyzed by gas chromatography. Many VOCs are man-made chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They are often components of fuels, solvents, hydraulic fluids, paint thinners, and dry cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human health concern because many are toxic and are known or suspected human carcinogens (U.S. Environmental Protection Agency, 1996).

Water level is the water-surface elevation or stage of the free surface of a body of water above or below any datum (see "Gage height"), or the surface of water standing in a well, usually indicative of the position of the water table or other potentiometric surface.

> Water table is the surface of a ground-water body at which the water is at atmospheric pressure.
>
> Water-table aquifer is an unconfined aquifer within which is found the water table.

Water year in U.S. Geological Survey reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 2000, is called the "2000 water year."

Well is an excavation (pit, hole, tunnel) generally cylindrical in form and often walled in, drilled, dug, driven, bored, or jetted into the ground to such a depth as to penetrate water-yielding geologic material and allow the water to flow or be pumped to the surface.

Wet weight refers to the weight of animal tissue or other substance including its contained water.

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976).

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY

The USGS publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, section A of book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S.G.S., Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be made in the form of a check or money order payable to the "U.S. Geological Survey." Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and mention the "U.S. Geological Survey Techniques of Water-Resources Investigations."

Book 1. Collection of Water Data by Direct Measurement

Section D. Water Quality

1-D1. *Water temperature—influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J.F. Ficke, and G. F. Smoot: USGS–TWRI book 1, chap. D1. 1975. 65 pages.

1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W.W. Wood: USGS–TWRI book 1, chap. D2. 1976. 24 pages.

Book 2. Collection of Environmental Data

Section D. Surface Geophysical Methods

2-D1. *Application of surface geophysics to ground-water investigations,* by A.A. R. Zohdy, G.P. Eaton, and D.R. Mabey: USGS–TWRI book 2, chap. D1. 1974. 116 pages.

2-D2. *Application of seismic-refraction techniques to hydrologic studies,* by F.P. Haeni: USGS–TWRI book 2, chap. D2. 1988. 86 pages.

Section E. Subsurface Geophysical Methods

2-E1. *Application of borehole geophysics to water-resources investigations,* by W.S. Keys and L.M. MacCary: USGS–TWRI book 2, chap. E1. 1971. 126 pages.

2-E2. *Borehole geophysics applied to ground-water investigations,* by W.S. Keys: USGS–TWRI book 2, chap. E2. 1990. 150 pages.

Section F. Drilling and Sampling Methods

2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and W.E. Teasdale: USGS–TWRI book 2, chap. F1. 1989. 97 pages.

Book 3. Applications of Hydraulics

Section A. Surface-Water Techniques

3-A1. *General field and office procedures for indirect discharge measurements,* by M.A. Benson and Tate Dalrymple: USGS–TWRI book 3, chap. A1. 1967. 30 pages.

3-A2. *Measurement of peak discharge by the slope-area method,* by Tate Dalrymple and M.A. Benson: USGS–TWRI book 3, chap. A2. 1967. 12 pages.

3-A3. *Measurement of peak discharge at culverts by indirect methods,* by G.L. Bodhaine: USGS–TWRI book 3, chap. A3. 1968. 60 pages.

3-A4. *Measurement of peak discharge at width contractions by indirect methods,* by H.F. Matthai: USGS-TWRI book 3, chap. A4. 1967. 44 pages.

3-A5. *Measurement of peak discharge at dams by indirect methods,* by Harry Hulsing: USGS–TWRI book 3. chap. A5. 1967. 29 pages.

3-A6. *General procedure for gaging streams,* by R.W. Carter and Jacob Davidian: USGS–TWRI book 3, chap. A6. 1968. 13 pages.

3-A7. *Stage measurement at gaging stations,* by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A7. 1968. 28 pages.

3-A8. *Discharge measurements at gaging stations,* by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A8. 1969. 65 pages.

3-A9. *Measurement of time of travel in streams by dye tracing,* by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS–TWRI book 3, chap. A9. 1989. 27 pages.

3-Al0. *Discharge ratings at gaging stations,* by E.J. Kennedy: USGS–TWRI book 3, chap. A10. 1984. 59 pages.

3-A11. *Measurement of discharge by the moving-boat method,* by G.F. Smoot and C.E. Novak: USGS–TWRI book 3, chap. A11. 1969. 22 pages.

3-A12. *Fluorometric procedures for dye tracing*, Revised, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS–TWRI book 3, chap. A12. 1986. 34 pages.

3-A13. *Computation of continuous records of streamflow*, by E.J. Kennedy: USGS–TWRI book 3, chap. A13. 1983. 53 pages.

3-A14. *Use of flumes in measuring discharge,* by F.A. Kilpatrick and V.R. Schneider: USGS–TWRI book 3, chap. A14. 1983. 46 pages.

3-A15. *Computation of water-surface profiles in open channels,* by Jacob Davidian: USGS–TWRI book 3, chap. A15. 1984. 48 pages.

3-A16. *Measurement of discharge using tracers*, by F.A. Kilpatrick and E.D. Cobb: USGS–TWRI book 3, chap. A16. 1985. 52 pages.

3-A17. *Acoustic velocity meter systems,* by Antonius Laenen: USGS–TWRI book 3, chap. A17. 1985. 38 pages.

3-A18. *Determination of stream reaeration coefficients by use of tracers,* by F.A. Kilpatrick, R.E. Rathbun, Nobuhiro Yotsukura, G.W. Parker, and L.L. DeLong: USGS–TWRI book 3, chap. A18. 1989. 52 pages.

3-A19. *Levels at streamflow gaging stations*, by E.J. Kennedy: USGS–TWRI book 3, chap. A19. 1990. 31 pages.

3-A20. *Simulation of soluble waste transport and buildup in surface waters using tracers*, by F.A. Kilpatrick: USGS–TWRI book 3, chap. A20. 1993. 38 pages.

3-A21 *Stream-gaging cableways,* by C. Russell Wagner: USGS–TWRI book 3, chap. A21. 1995. 56 pages.

Section B. Ground-Water Techniques

3-B1. *Aquifer-test design, observation, and data analysis,* by R.W. Stallman: USGS–TWRI book 3, chap. B1. 1971. 26 pages.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G.D. Bennett: USGS–TWRI book 3, chap. B2. 1976. 172 pages.

3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J.E. Reed: USGS–TWRI book 3, chap. B3. 1980. 106 pages.

3-B4. *Regression modeling of ground-water flow,* by R.L. Cooley and R.L. Naff: USGS–TWRI book 3, chap. B4. 1990. 232 pages.

3-B4. *Supplement 1. Regression modeling of ground-water flow --Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems,* by R.L. Cooley: USGS–TWRI book 3, chap. B4. 1993. 8 pages.

3-B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems—An introduction*, by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS–TWRI book 3, chap. B5. 1987. 15 pages.

3-B6. *The principle of superposition and its application in ground-water hydraulics,* by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS–TWRI book 3, chap. B6. 1987. 28 pages.

3-B7. *Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow,* by E.J. Wexler: USGS–TWRI book 3, chap. B7. 1992. 190 pages.

3-B8. *System and boundary conceptualization in ground-water flow simulation,* by T.E. Reilly: USGS–TWRI book 3, chap. B8. 2001. 29 pages.

Section C. Sedimentation and Erosion Techniques

3-C1. *Fluvial sediment concepts,* by H.P. Guy: USGS–TWRI book 3, chap. C1. 1970. 55 pages.

3-C2. *Field methods for measurement of fluvial sediment*, by T.K. Edwards and G.D. Glysson: USGS–TWRI book 3, chap. C2. 1999. 89 pages.

3-C3. *Computation of fluvial-sediment discharge,* by George Porterfield: USGS–TWRI book 3, chap. C3. 1972. 66 pages.

Book 4. Hydrologic Analysis and Interpretation

Section A. Statistical Analysis

4-A1. *Some statistical tools in hydrology*, by H.C. Riggs: USGS–TWRI book 4, chap. A1. 1968. 39 pages.

4-A2. *Frequency curves,* by H.C. Riggs: USGS–TWRI book 4, chap. A2. 1968. 15 pages.

Section B. Surface Water

4-B1. *Low-flow investigations,* by H.C. Riggs: USGS–TWRI book 4, chap. B1. 1972. 18 pages.

4-B2. *Storage analyses for water supply*, by H.C. Riggs and C.H. Hardison: USGS–TWRI book 4, chap. B2. 1973. 20 pages.

4-B3. *Regional analyses of streamflow characteristics,* by H.C. Riggs: USGS–TWRI book 4, chap. B3. 1973. 15 pages.

Section D. Interrelated Phases of the Hydrologic Cycle

4-D1. *Computation of rate and volume of stream depletion by wells*, by C.T. Jenkins: USGS–TWRI book 4, chap. D1. 1970. 17 pages.

Book 5. Laboratory Analysis

Section A. Water Analysis

5-A1. *Methods for determination of inorganic substances in water and fluvial sediments,* by M.J. Fishman and L.C. Friedman, editors: USGS–TWRI book 5, chap. A1. 1989. 545 pages.

5-A2. *Determination of minor elements in water by emission spectroscopy,* by P.R. Barnett and E.C. Mallory, Jr.: USGS–TWRI book 5, chap. A2. 1971. 31 pages.

5-A3. *Methods for the determination of organic substances in water and fluvial sediments*, edited by R.L. Wershaw, M.J. Fishman, R.R. Grabbe, and L.E. Lowe: USGS–TWRI book 5, chap. A3. 1987. 80 pages.

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples,* by L.J. Britton and P.E. Greeson, editors: USGS–TWRI book 5, chap. A4. 1989. 363 pages.

5-A5. *Methods for determination of radioactive substances in water and fluvial sediments,* by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS–TWRI book 5, chap. A5. 1977. 95 pages.

5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments,* by L.C. Friedman and D.E. Erdmann: USGS–TWRI book 5, chap. A6. 1982. 181 pages.

Section C. Sediment Analysis

5-C1. *Laboratory theory and methods for sediment analysis*, by H.P. Guy: USGS–TWRI book 5, chap. C1. 1969. 58 pages.

Book 6. Modeling Techniques

Section A. Ground Water

6-A1. *A modular three-dimensional finite-difference ground-water flow model*, by M.G. McDonald and A.W. Harbaugh: USGS–TWRI book 6, chap. A1. 1988. 586 pages.

6-A2. *Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model,* by S.A. Leake and D.E. Prudic: USGS–TWRI book 6, chap. A2. 1991. 68 pages.

6-A3. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual,* by L.J. Torak: USGS–TWRI book 6, chap. A3. 1993. 136 pages.

6-A4. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions,* by R.L. Cooley: USGS–TWRI book 6, chap. A4. 1992. 108 pages.

6-A5. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details,* by L.J. Torak: USGS–TWRI book 6, chap. A5, 1993. 243 pages.

6-A6. A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction, by Eric D. Swain and Eliezer J. Wexler: USGS–TWRI book 6, chap. A5,1996. 125 pages.

Book 7. Automated Data Processing and Computations

Section C. Computer Programs

7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments,* by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS–TWRI book 7, chap. C1. 1976. 116 pages.

7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water,* by L.F. Konikow and J.D. Bredehoeft: USGS–TWRI book 7, chap. C2. 1978. 90 pages.

7-C3. *A model for simulation of flow in singular and interconnected channels,* by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS–TWRI book 7, chap. C3. 1981. 110 pages.

Book 8. Instrumentation

Section A. Instruments for Measurement of Water Level

8-A1. *Methods of measuring water levels in deep wells,* by M.S. Garber and F.C. Koopman: USGS–TWRI book 8, chap. A1. 1968. 23 pages.

8-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J.D. Craig: USGS–TWRI book 8, chap. A2. 1983. 57 pages.

Section B. Instruments for Measurement of Discharge

8-B2. *Calibration and maintenance of vertical-axis type current meters,* by G.F. Smoot and C.E. Novak: USGS–TWRI book 8, chap. B2. 1968. 15 pages.

Book 9. Handbooks for Water-Resources Investigations

Section A. National Field Manual for the Collection of Water-Quality Data

9-A1. *National Field Manual for the Collection of Water-Quality Data: Preparations for Water Sampling*, by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A1. 1998. 47 p.

9-A2. *National Field Manual for the Collection of Water-Quality Data: Selection of Equipment for Water Sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A2. 1998. 94 p.

9-A3. *National Field Manual for the Collection of Water-Quality Data: Cleaning of Equipment for Water Sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A3. 1998. 75 p.

9-A4. *National Field Manual for the Collection of Water-Quality Data: Collection of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A4. 1999. 156 p.

9-A5. *National Field Manual for the Collection of Water-Quality Data: Processing of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A5. 1999, 149 p.

9-A6. *National Field Manual for the Collection of Water-Quality Data: Field Measurements*, edited by F.D. Wilde and D.B. Radtke: USGS–TWRI book 9, chap. A6. 1998. Variously paginated.

9-A7. *National Field Manual for the Collection of Water-Quality Data: Biological Indicators*, edited by D.N. Myers and F.D. Wilde: USGS–TWRI book 9, chap. A7. 1997 and 1999. Variously paginated.

9-A8. *National Field Manual for the Collection of Water-Quality Data: Bottom-material samples*, by D.B. Radtke: USGS–TWRI book 9, chap. A8. 1998. 48 pages.

9-A9. *National Field Manual for the Collection of Water-Quality Data: Safety in Field Activities*, by S.L. Lane and R.G. Fay: USGS–TWRI book 9, chap. A9. 1998. 60 pages.

Remark Codes

The following remark codes may appear with the water-quality data in this section:

Printed Output	Remark
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
K	Results based on colony count outside the acceptance range (non-ideal colony count)
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted)
D	Biological organism count equal to or greater than 15 percent (dominant)
&	Biological organism estimated as dominant
V	Analyte was detected in both the environmental sample and the associated blank
M	Presence of material verified, but not quantified

Dissolved Trace-Element Concentrations

NOTE: Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (µg/L) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's and 100's of nanograms per liter (ng/L). Data above the µ g/L levels should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols at some stations in water year 1994.

Change in National Trends Network Procedures

NOTE: Sample handling procedures at all National Trends Network stations were changed substantially on January 11, 1994, in order to reduce contamination from the sample shipping container. The data for samples before and after that date are different and not directly comparable. A tabular summary of the differences based on a special intercomparison study, is available from the NADP/NTN Coordination Office, Colorado State University, Fort Collins, CO 80523 (Telephone: 303-491-5643).

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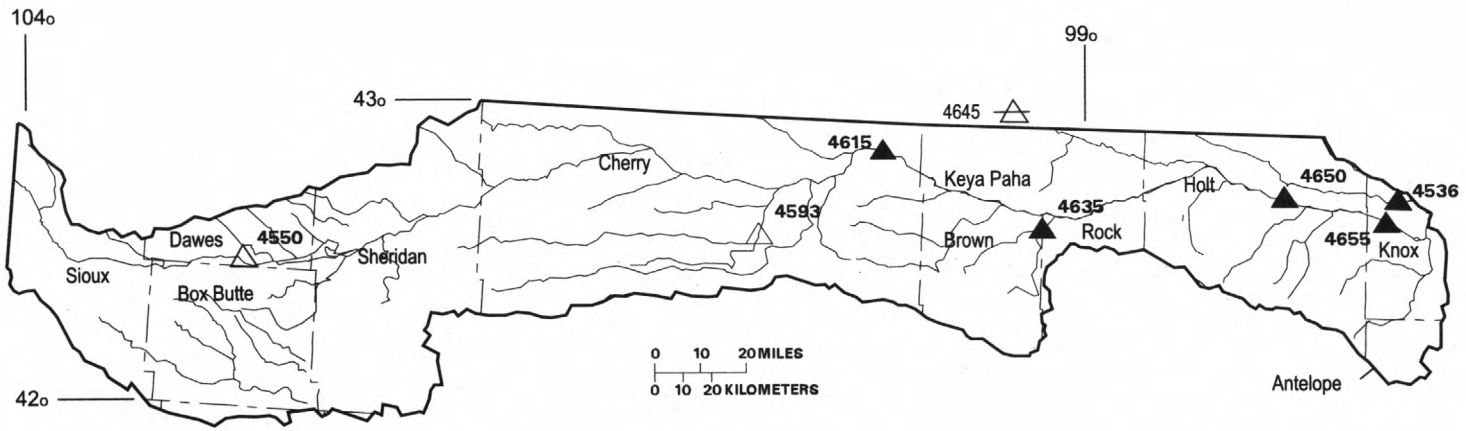
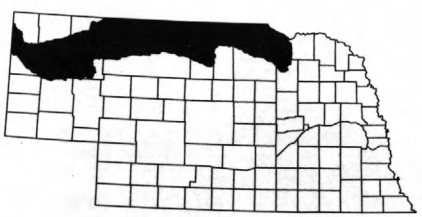




EXPLANATION

- **Hydrologic boundary**
- **County line**
- **Streams**
- **Stream-flow gaging station**
- **Reservoir station**
- **Gaging station run by neighboring state**

NOTE: To change abbreviated station number to complete station number, prefix with "06" and add zero's required to give eight digits.

*Station number	Station name	Page
	PONCA CREEK BASIN	
4536	Ponca Creek at Verdel	44
	NIOBRARA RIVER BASIN	
4550	Box Butte Reservoir near Hemingford	46
4593	Merritt Reservoir near Burge	47
4615	Niobrara River near Sparks	48
4635	Long Pine Creek near Riverview	52
4645	Keya Paha River at Wewela, SD	56
4650	Niobrara River near Spencer	58
4655	Niobrara River near Verdel	60

* NOTE: To change abbreviated station number to complete station number, prefix with "06" and add zero's required to give eight digits.

PONCA CREEK BASIN

06453600 PONCA CREEK AT VERDEL, NE

LOCATION.--Lat 42°48'40", long 98°10'35", in NE ¼ NE ¼ sec.30, T.33 N., R.7 W., Knox County, Hydrologic Unit 10150001, near right bank at right downstream end of bridge on State Highway 12, 0.6 mi east of Verdel and 3.8 mi upstream from mouth.

DRAINAGE AREA.--812 mi^2.

PERIOD OF RECORD.--October 1957 to current year.

REVISED RECORDS.--WSP 2117: Drainage area. WDR NE-96-1 (M).

GAGE.--Water-stage recorder and nonrecording gage read once daily. Datum of gage 1,232.9 ft above sea level (Nebraska Department of Roads reference marks). See WSP 1917 for history of changes prior to Nov. 15, 1962. Data collection platform at station.

REMARKS.--Records good except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

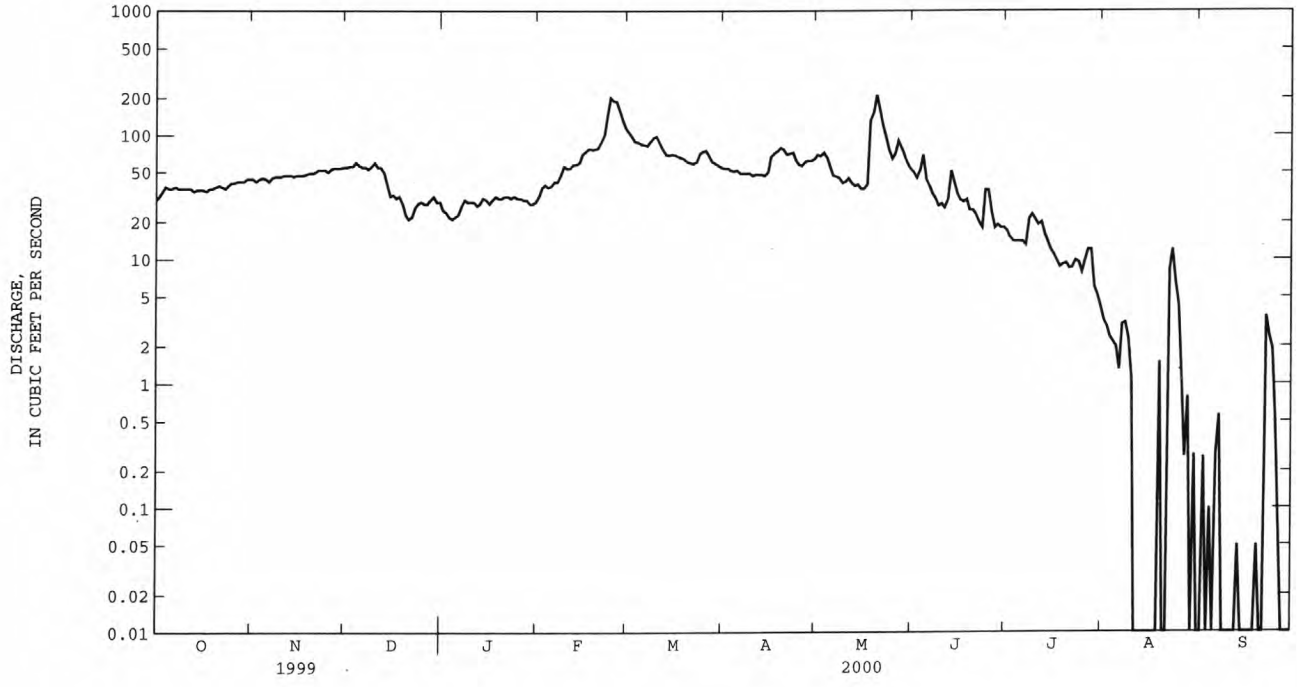
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	44	55	e25	e32	106	54	69	50	17	3.3	.00
2	32	42	56	e24	e38	98	54	68	45	15	2.9	.26
3	35	44	56	e22	e40	89	52	72	51	14	2.4	.00
4	38	45	60	e21	e38	88	51	66	69	14	2.2	.10
5	37	44	57	e22	e39	85	52	55	44	14	2.0	.00
6	37	42	55	e23	e42	84	49	47	39	14	1.3	.27
7	38	45	55	e27	e42	82	49	46	34	13	3.0	.56
8	37	46	53	e30	e47	89	49	45	31	21	3.1	.00
9	37	46	56	e29	e56	96	49	41	27	23	2.3	.00
10	37	46	60	e29	e54	98	47	42	28	21	1.1	.00
11	37	47	55	e29	e54	87	48	45	26	19	.00	.00
12	37	47	55	e27	e58	77	48	41	30	20	.00	.00
13	35	47	e50	e28	e58	70	48	39	51	16	.00	.05
14	36	46	e40	e31	e60	69	47	40	41	14	.00	.00
15	36	47	e32	e30	e70	70	50	37	34	12	.00	.00
16	36	47	e33	e28	e74	69	67	37	30	11	.00	.00
17	35	47	e31	e30	78	67	71	40	29	9.7	.00	.00
18	37	48	e32	e32	77	66	74	131	30	8.7	.00	.00
19	37	49	e28	e31	77	64	79	150	25	9.1	1.5	.05
20	38	49	e23	e31	79	61	77	211	25	9.3	.00	.00
21	39	50	e21	e32	88	60	70	158	23	8.5	.00	.00
22	38	52	e22	e32	100	59	71	120	20	8.6	8.2	3.5
23	37	52	e26	e31	142	61	72	96	18	9.8	12	2.4
24	39	52	e28	e32	202	71	63	75	36	9.5	6.6	1.9
25	41	50	e29	e31	190	74	58	64	36	7.9	4.3	.53
26	41	53	e28	e31	188	75	57	70	24	9.7	1.1	.05
27	42	54	e28	e30	159	68	61	90	18	12	.26	.00
28	42	54	e30	e30	134	61	62	79	19	12	.79	.00
29	42	54	e32	e28	115	59	62	67	18	6.0	.00	.00
30	44	55	e29	e28	---	57	64	59	18	5.2	.27	.00
31	44	---	e29	e29	---	55	---	53	---	4.2	.00	---
TOTAL	1171	1444	1244	883	2431	2315	1755	2253	969	388.2	58.62	9.67
MEAN	37.8	48.1	40.1	28.5	83.8	74.7	58.5	72.7	32.3	12.5	1.89	.32
MAX	44	55	60	32	202	106	79	211	69	23	12	3.5
MIN	30	42	21	21	32	55	47	37	18	4.2	.00	.00
AC-FT	2320	2860	2470	1750	4820	4590	3480	4470	1920	770	116	19
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2000, BY WATER YEAR (WY)												
MEAN	27.6	31.1	21.3	18.5	55.9	225	202	190	152	93.8	41.7	31.4
MAX	229	181	105	94.0	239	1333	818	1405	1237	742	327	251
(WY)	1996	1999	1997	1997	1996	1960	1984	1995	1962	1993	1962	1996
MIN	.000	.000	.000	.000	.000	6.53	4.77	4.02	5.64	.006	.000	.000
(WY)	1959	1977	1971	1959	1969	1965	1981	1981	1976	1966	1968	1958

PONCA CREEK BASIN

06453600 PONCA CREEK AT VERDEL, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1958 - 2000	
ANNUAL TOTAL	75956		14921.49			
ANNUAL MEAN	208		40.8		91.0	
MEDIAN OF ANNUAL MEANS					65	
HIGHEST ANNUAL MEAN					343	1962
LOWEST ANNUAL MEAN					3.75	1981
HIGHEST DAILY MEAN	3440	Apr 11	211	May 20	14800	Mar 28 1960
LOWEST DAILY MEAN	21	Dec 21	.00	Aug 11	*.00	Oct 1 1957
ANNUAL SEVEN-DAY MINIMUM	25	Dec 19	.00	Aug 11	.00	Oct 1 1957
INSTANTANEOUS PEAK FLOW			244	May 20	**15700	Mar 27 1960
INSTANTANEOUS PEAK STAGE			5.95	May 20	***17.30	Mar 6 1993
ANNUAL RUNOFF (AC-FT)	150700		29600		65930	
10 PERCENT EXCEEDS	390		75		199	
50 PERCENT EXCEEDS	88		38		23	
90 PERCENT EXCEEDS	36		.26		.17	

e Estimated.
* No flow for many days in many years.
** Stage 15.10 ft, site and datum then in use.
*** From floodmark, ice jam.



06455000 BOX BUTTE RESERVOIR NEAR HEMINGFORD, NE

LOCATION.--Lat 42°27'30", long 103°04'03", in sec. 28, T. 29 N., R. 49 W., Dawes County, Hydrologic Unit 10150002, in control tower on dam near left bank on Niobrara River, 9 mi north of Hemingford.

DRAINAGE AREA.--1,460 mi^2, approximately.

PERIOD OF RECORD.--October 1945 to current year.

GAGE.--Electric tape gage read three or more times a month. Datum of gage is sea level.

REMARKS.--Reservoir is formed by earthfill dam; outlet gate first closed Oct. 3, 1945. Usable capacity, 30,420 acre-ft between elevations 3,969.00 ft, sill of outlet gate, and 4,007.00 ft, crest of spillway. Dead storage, 640 acre-ft. Figures given herein represent total contents. Water is used for irrigation of Mirage Flats project of Bureau of Reclamation.

COOPERATION.--Records of elevations and capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 32,210 acre-ft Mar. 26, 1948, elevation, 4,007.70 ft; minimum observed since operation of reservoir began, 640 acre-ft Aug. 26, 1985, elevation, 3,969.00 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 23,880 acre-ft June 1, elevation, 4,002.14 ft; minimum observed, 9,140 acre-ft Sept. 2, elevation, 3,988.67 ft.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	*Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep 30	3,989.87	10,160	--
Oct. 31	3,991.61	11,720	+1,560
Nov. 30	3,992.88	12,950	+1,230
Dec. 31	3,994.19	14,270	+1,320
CAL YR 1999	--	--	-820
Jan. 31	3,995.49	15,640	+1,370
Feb. 29	3,996.83	17,140	+1,500
Mar. 31	3,998.83	19,530	+2,390
Apr. 30	4,000.42	21,560	+2,030
May 31	4,002.08	23,790	+2,230
June 30	4,001.54	23,060	-730
July 31	3,995.20	15,330	-7,730
Aug. 31	3,989.01	9,420	-5,910
Sept. 30	3,989.43	9,780	+360
WTR YR 2000	--	-380	

*Elevations read on or near last day of month.

06459300 MERRITT RESERVOIR NEAR BURGE, NE

LOCATION.--Lat 42°38'06", long 100°52'18", in $SW^1/_4$ $NW^1/_4$ sec. 29, T. 31 N., R. 30 W., Cherry County, Hydrologic Unit 10150005, in control house of outlet works of Merritt Dam on the Snake River, 8.1 mi southwest of Surge and 23 mi southwest of Valentine.

DRAINAGE AREA.--640 mi^2, approximately, of which about 44 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--February 1964 to current year.

REVISED RECORDS.--WDR NE-67-1: Drainage area.

GAGE.--Direct reading, single vertical column, mercury-well type manometer read once daily. Datum of gage is sea level.

REMARKS.--Reservoir is formed by earthfill dam; storage began Feb. 19, 1964. Usable capacity, 72,872 acre-ft between elevations 2,875.0 ft., sill of canal outlet works, and 2,946.0 ft., crest of spillway. Dead and inactive storage, 1,614 acre-ft. below elevation 2,875.0 ft. Figures given herein represent total contents. Water is used for irrigation of Unseaworthy Unit of Bureau of Reclamation.

COOPERATION.--Records of elevations and capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 78,040 acre-ft May 21, 1982, elevation, 2,947.2 ft; minimum since appreciable storage was attained, 20,060 acre-ft Oct. 1, 1968, elevation, 2,916.1 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed 76,250 acre-ft May 21, elevation, 2,946.6 ft; minimum observed 30,000 acre-ft Sept. 9, elevation, 2,924.7 ft.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	*Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep 30	2,933.6	44,450	--
Oct. 31	2,939.7	57,690	+13,240
Nov. 30	2,944.2	69,390	+11,700
Dec. 31	2,944.1	69,110	-280
CAL YR 1999	--	--	-560
Jan. 31	2,943.9	68,560	-550
Feb. 29	2,944.2	69,390	+830
Mar. 31	2,944.7	70,780	+1.390
Apr. 30	2,946.3	75,370	+4.590
May 31	2,946.4	75,660	+290
June 30	2,946.1	74,780	-880
July 31	2,939.5	57,210	-17,570
Aug. 31	2,926.5	32,530	-24,680
Sept. 30	2,929.3	36,840	+4,310
WTR YR 2000	--	--	-7,610

*Elevations read on or near last day of month.

NIOBRARA RIVER BASIN

06461500 NIOBRARA RIVER NEAR SPARKS, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to current year.

PERIOD OF DAILY RECORD.-
SPECIFIC CONDUCTANCE: October 1982 to September 1993.
WATER TEMPERATURES: October 1982 to September 1993.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 354 microsiemens Dec. 3, 1983; minimum daily, 153 microsiemens Nov. 22, 26, 1988.
WATER TEMPERATURES: Maximum daily, 35.0°C July 1, 1990; minimum daily, 0.0°C on several days during winter periods.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
OCT										
13...	1415	655	.24	311	176	8.8	223	13.0	12.5	81
NOV										
16...	1320	680	.25	344	187	8.8	220	18.0	8.0	98
MAY										
10...	0740	1540	.27	826	199	8.3	262	15.5	15.0	110
AUG										
01...	0750	586	.24	284	180	8.7	225	19.5	21.5	89

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
OCT										
13...	26.1	3.78	6.0	.3	7.2	15	114	1.2	.3	55.2
NOV										
16...	31.9	4.49	6.1	.4	9.2	16	113	1.3	.4	57.4
MAY										
10...	34.1	5.07	7.3	.5	12.1	19	128	3.1	.4	51.7
AUG										
01...	28.9	4.02	6.3	.4	8.6	16	113	1.2	.2	57.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
OCT										
13...	5.6	<.020	.12	.51	.396	<.010	.175	.060	.057	.106
NOV										
16...	6.0	<.020	.26	.77	.510	<.010	.144	<.050	.047	.158
MAY										
10...	8.1	--	--	--	--	--	--	--	--	.340
AUG										
01...	5.2	<.020	.17	--	<.050	<.010	.043	<.050	.014	.141

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)
OCT										
13...	.3	--	--	--	--	--	23	--	--	--
NOV										
16...	.3	--	--	--	--	--	33	--	--	--
MAY										
10...	1.2	--	--	--	--	--	34	--	--	--
AUG										
01...	.4	29	<1	6.4	85	<1	30	<1.0	<.8	

NIOBRARA RIVER BASIN

06461500 NIOBRARA RIVER NEAR SPARKS, NE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
OCT										
13...	--	<10	--	2	--	--	--	--	--	--
NOV										
16...	--	E10	--	4	--	--	--	--	--	--
MAY										
10...	--	20	--	E2	--	--	--	--	--	--
AUG										
01...	<1	<10	<1	1	1	<1	<2.4	<1	14	1

NIOBRARA RIVER BASIN

06461500 NIOBRARA RIVER NEAR SPARKS, NE

LOCATION.--Lat 42°54'10", long 100°21'40", in SE ¼ sec.22, T.34 N., R.26 W., Cherry County, Hydrologic Unit 10150004, on left bank 18 ft downstream from highway bridge, 2.2 mi downstream from Big Beaver Creek, 5.5 mi downstream from Minnechaduza Creek, 6.5 mi southwest of Sparks, and at mile 142.5.

DRAINAGE AREA .--7150 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1945 to current year. Monthly discharge only for some periods, published in WSP 1309.

REVISED RECORDS.--WSP 1209: 1947(M), 1948-50(P). WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder and peak-stage indicator gage. Datum of gage is 2,287.57 ft above sea level. Data collection platform at station.

REMARKS.--Records good except for periods of estimated record, which are fair. Natural flow of stream affected by irrigation and power developments, storage in Box Butte Reservoir (station 06455000), and since May 1964 by storage in Merritt Reservoir (station 06459300).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	597	656	858	735	912	1120	927	1210	1030	711	598	562
2	614	669	907	742	866	1140	931	1110	1010	690	588	566
3	595	650	904	e720	875	1110	948	1100	891	713	584	565
4	599	657	903	e680	899	1100	914	1080	895	850	580	557
5	594	652	884	e700	887	1090	902	1100	881	708	566	561
6	601	655	868	e740	887	1040	937	1060	856	668	575	554
7	613	654	863	e760	900	1050	909	1040	846	656	581	576
8	634	658	912	785	895	1170	899	1080	828	639	559	557
9	629	653	908	825	910	1270	912	1040	817	618	547	554
10	626	652	881	833	945	1250	902	1440	776	613	541	544
11	634	658	880	855	987	1200	765	1180	805	769	536	539
12	635	661	899	828	962	1160	682	1210	927	711	523	541
13	649	661	874	903	957	1150	643	1140	830	683	518	548
14	661	655	855	823	992	1140	674	1020	814	654	519	549
15	690	666	855	846	896	1120	669	1040	784	630	512	547
16	663	665	785	872	983	1100	691	968	777	626	530	547
17	654	665	807	855	974	1070	699	955	760	634	534	547
18	655	675	813	866	1020	1050	691	1480	749	612	526	545
19	651	712	798	887	988	972	748	1530	734	617	532	542
20	656	685	e760	967	980	947	970	1590	728	615	534	549
21	659	699	e740	896	976	954	1140	1700	722	617	541	544
22	659	700	e770	902	1010	1000	1170	1620	710	637	546	585
23	661	703	e760	904	1060	1020	1130	1470	714	622	547	595
24	659	704	730	947	1060	1010	1130	1470	716	613	539	592
25	670	693	715	894	981	995	1270	1290	697	603	525	585
26	679	693	728	946	1080	966	1040	1200	703	584	530	580
27	673	715	728	950	1020	957	1130	1130	701	575	531	578
28	679	745	717	689	1060	933	1110	1120	832	663	526	573
29	679	749	722	e720	1090	934	1090	1050	836	638	529	569
30	684	858	733	e780	---	941	1180	1030	798	627	541	567
31	664	---	744	e840	---	933	---	1030	---	609	537	---
TOTAL	20016	20518	25301	25690	28052	32892	27803	37483	24167	20205	16875	16818
MEAN	646	684	816	829	967	1061	927	1209	806	652	544	561
MAX	690	858	912	967	1090	1270	1270	1700	1030	850	598	595
MIN	594	650	715	680	866	933	643	955	697	575	512	539
AC-FT	39700	40700	50180	50960	55640	65240	55150	74350	47940	40080	33470	33360

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2000, BY WATER YEAR (WY)

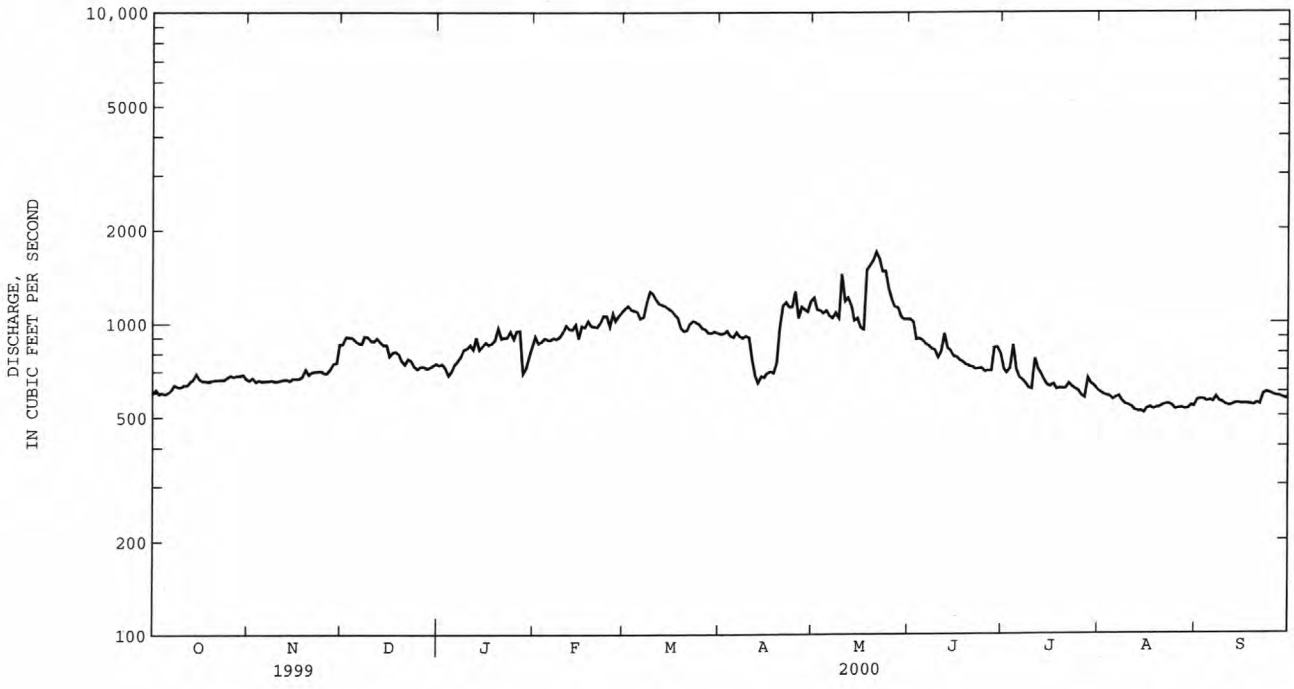
MEAN	670	759	764	774	887	970	904	897	821	633	595	612
MAX	879	1092	950	1208	1403	1464	1214	1385	1470	1122	858	993
(WY)	1966	1999	1986	1984	1984	1949	1958	1995	1967	1962	1951	1951
MIN	481	484	448	525	631	584	615	612	506	383	417	426
(WY)	1977	1977	1969	1969	1975	1976	1967	1969	1985	1974	1980	1980

NIOBRARA RIVER BASIN

06461500 NIOBRARA RIVER NEAR SPARKS, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1946 - 2000	
ANNUAL TOTAL	296423		295820			
ANNUAL MEAN	812		808		773	
HIGHEST ANNUAL MEAN					911	1962
LOWEST ANNUAL MEAN					598	1976
HIGHEST DAILY MEAN	1260	May 3	1700	May 21	5000	Feb 5 1984
LOWEST DAILY MEAN	519	Aug 16	512	Aug 15	100	Jan 10 1957
ANNUAL SEVEN-DAY MINIMUM	527	Aug 12	523	Aug 12	327	Dec 8 1949
INSTANTANEOUS PEAK FLOW			2010	May 21	*10200	Mar 5 1949
INSTANTANEOUS PEAK STAGE			3.75	May 21	**10.06	Feb 7 1973
ANNUAL RUNOFF (AC-FT)	588000		586800		560000	
10 PERCENT EXCEEDS	1030		1100		1030	
50 PERCENT EXCEEDS	829		748		764	
90 PERCENT EXCEEDS	580		554		508	

e Estimated.
* From rating curve extended above 3,800 ft^3/s, stage 6.73 ft.
** Ice jam.



NIOBRARA RIVER BASIN

06463500 LONG PINE CREEK NEAR RIVERVIEW, NE

LOCATION.--Lat 42°41'21", long 099°40'43", in SE ¼ NE ¼ sec.5, T.31 N., R.20 W., Brown County, Hydrologic Unit 10150004, on left bank 15 ft downstream from county road bridge, 1 mi downstream from Bone Creek, 5.5 mi southwest of Riverview, and at mile 6.2.

DRAINAGE AREA.--458 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1948 to January 1954, September 1954 to current year.

REVISED RECORDS.--WSP 1729: 1952(M). WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,983.34 ft above sea level, (levels by Bureau of Reclamation). Prior to Dec. 7, 1962, at site 100 ft upstream at present datum.

REMARKS.--Records good. Flow includes return water from Ainsworth Irrigation District since 1965.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	167	171	174	172	174	184	152	191	220	195	188	188
2	168	169	172	173	174	181	152	198	212	192	193	196
3	171	172	168	171	173	181	152	190	209	189	184	181
4	172	175	168	161	170	184	155	191	208	186	191	178
5	171	174	169	178	172	185	156	180	206	195	192	181
6	172	174	170	173	173	185	152	175	198	214	178	188
7	174	174	172	172	170	181	146	182	203	188	179	191
8	171	175	170	172	175	185	151	199	188	180	178	182
9	169	177	169	173	180	177	153	190	178	182	178	193
10	168	175	167	175	182	172	155	179	199	182	181	182
11	167	176	170	175	169	172	152	179	193	195	181	178
12	169	174	171	173	170	173	152	183	239	169	177	181
13	167	175	170	169	174	180	157	182	208	170	170	182
14	169	174	172	175	173	171	151	184	199	167	175	173
15	169	175	170	178	174	166	152	180	196	171	173	175
16	166	176	173	173	174	164	158	180	193	171	182	181
17	164	178	173	173	179	168	161	180	191	169	176	189
18	169	177	170	177	174	167	161	365	186	172	179	190
19	166	174	172	177	173	167	160	411	182	167	179	168
20	166	176	160	174	174	169	183	374	188	184	176	163
21	168	178	170	176	179	168	175	304	186	181	179	166
22	165	174	169	176	184	171	167	272	184	196	183	182
23	164	175	170	175	189	172	163	260	184	193	173	181
24	168	172	173	175	197	171	161	238	208	190	162	170
25	168	172	173	171	198	164	182	243	209	197	163	168
26	169	175	173	171	205	163	182	241	196	176	166	167
27	168	174	174	177	205	160	175	238	189	158	173	171
28	167	174	175	176	195	156	170	228	211	467	177	171
29	171	172	176	174	191	157	165	227	197	407	179	171
30	174	174	175	174	---	158	173	226	197	265	178	171
31	173	---	173	172	---	154	---	225	---	211	173	---
TOTAL	5230	5231	5301	5381	5220	5306	4824	6995	5957	6279	5516	5358
MEAN	169	174	171	174	180	171	161	226	199	203	178	179
MAX	174	178	176	178	205	185	183	411	239	467	193	196
MIN	164	169	160	161	169	154	146	175	178	158	162	163
AC-FT	10370	10380	10510	10670	10350	10520	9570	13870	11820	12450	10940	10630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2000, BY WATER YEAR (WY)

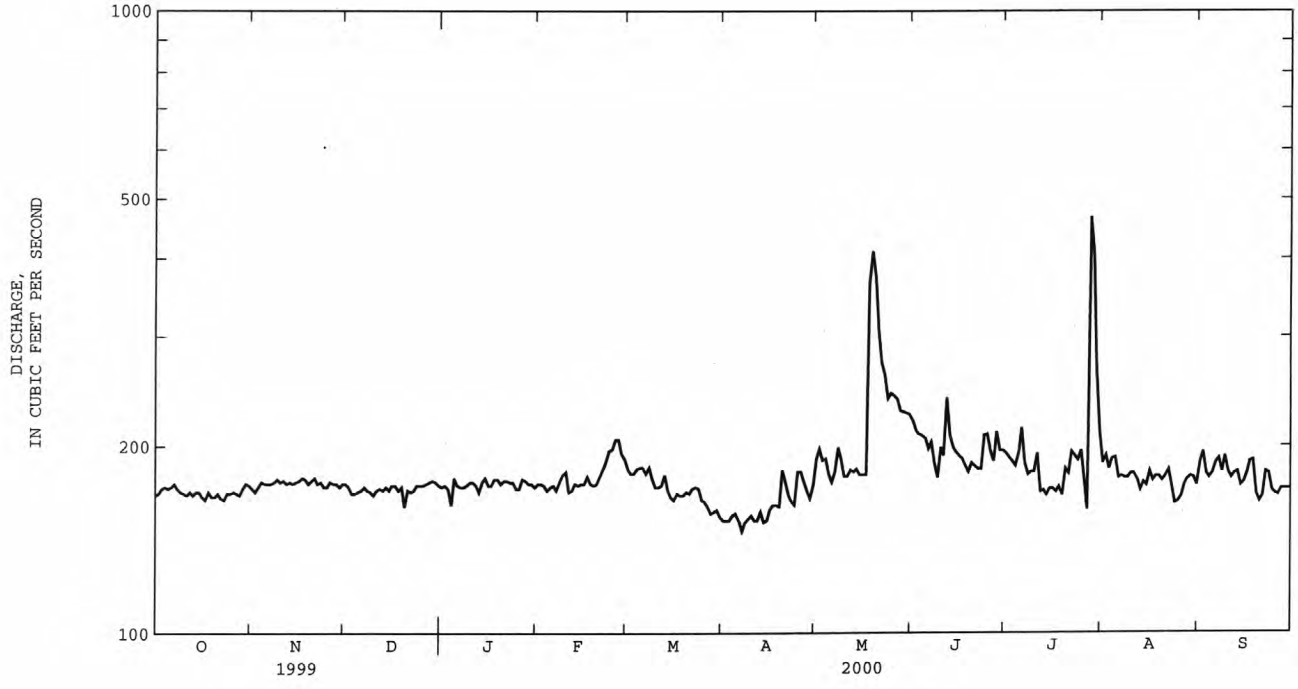
MEAN	141	142	140	137	147	168	171	184	173	164	161	157
MAX	254	238	191	180	256	257	369	495	396	368	256	263
(WY)	1996	1999	1996	1995	1996	1987	1995	1995	1951	1962	1998	1986
MIN	100	101	102	103	96.5	106	114	103	105	99.0	92.9	88.1
(WY)	1949	1950	1969	1957	1951	1951	1950	1948	1948	1949	1948	1948

NIOBRARA RIVER BASIN

06463500 LONG PINE CREEK NEAR RIVERVIEW, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1948 - 2000	
ANNUAL TOTAL	74181		66598			
ANNUAL MEAN	203		182		158	
HIGHEST ANNUAL MEAN					231	1995
LOWEST ANNUAL MEAN					111	1949
HIGHEST DAILY MEAN	668	May 6	467	Jul 28	3050	Jul 1 1962
LOWEST DAILY MEAN	159	Jul 10	146	Apr 7	44	Jan 10 1963
ANNUAL SEVEN-DAY MINIMUM	166	Oct 17	152	Apr 6	76	Jan 10 1963
INSTANTANEOUS PEAK FLOW			774	Jul 28	9650	Jul 1 1962
INSTANTANEOUS PEAK STAGE			3.17	Jul 28	*15.68	Jul 1 1962
ANNUAL RUNOFF (AC-FT)	147100		132100		114300	
10 PERCENT EXCEEDS	240		198		202	
50 PERCENT EXCEEDS	189		174		146	
90 PERCENT EXCEEDS	169		164		110	

* Backwater from fallen bridge.



NIOBRARA RIVER BASIN

06463500 LONG PINE CREEK NEAR RIVERVIEW, NE--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
OCT										
14...	0910	170	.24	82.5	180	8.2	198	15.0	10.5	95
NOV										
17...	0850	176	.27	92.8	195	8.1	204	1.5	7.0	83
MAY										
09...	1250	198	.22	86.4	162	8.3	192	23.5	16.5	77
JUL										
31...	1435	209	.22	90.9	161	8.3	197	32.0	24.0	72

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
OCT									
14...	31.1	4.21	6.5	.4	8.4	15	89	1.9	.2
NOV									
17...	26.8	3.82	5.6	.4	7.5	15	123	2.2	.3
MAY									
09...	25.0	3.65	5.3	.3	7.0	15	86	1.6	.3
JUL									
31...	22.9	3.60	7.8	.4	7.1	16	87	2.2	<.1

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3) (71851)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)
OCT									
14...	58.7	4.7	<.020	.12	2.4	--	--	2.30	--
NOV									
17...	59.3	5.0	<.020	.16	2.5	--	--	2.37	--
MAY									
09...	54.9	4.5	<.020	.17	1.9	--	--	1.72	--
JUL									
31...	53.3	4.6	<.020	.37	1.8	1.40	6.21	1.43	.095

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
OCT									
14...	<.010	.396	.118	.129	.161	1.1	30	E10	2
NOV									
17...	<.010	.466	.144	.152	.082	1.9	29	<10	3
MAY									
09...	<.010	.346	.131	.113	.216	.8	24	10	3
JUL									
31...	.029	.819	.335	.267	.632	.8	34	70	4

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NIOBRARA RIVER BASIN

06464500 KEYA PAHA RIVER AT WEWELA, SD

LOCATION.--Lat 43°01'44", long 99°46'49", in NW¼ SW¼ SE¼ sec.24, T.95 N., R.76 W., Tripp County, Hydrologic Unit 10150006, on right bank at downstream side of bridge on U.S. Highway 183, 1.0 mi north of Wewela, 4.5 mi upstream from Holt Creek, and 11.5 mi downstream from Lost Creek.

DRAINAGE AREA.--1,070 mi^2, approximately.

PERIOD OF RECORD.--November 1937 to September 1940, October 1947 to current year. Monthly discharge only for October 1947, published in WSP 1309.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2,049.78 ft above sea level. Prior to June 21, 1957, nonrecording gage at site 13 ft upstream at same datum. Prior to Aug. 23, 1984, recording gage on left bank 13 ft downstream from bridge at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Satellite data-collection platform at station. Water temperature and specific conductance measured during the year are compiled in the Miscellaneous Temperature Measurements and Field Determinations section.

COOPERATION.--Records provided by U.S. Geological Survey, South Dakota District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	67	88	e110	e60	211	86	147	174	96	47	25
2	73	66	87	e100	e65	195	86	156	165	95	45	26
3	76	68	86	e88	e70	180	85	161	156	91	44	26
4	78	69	86	e80	e66	165	84	149	148	144	43	26
5	68	70	80	e85	e61	153	85	135	134	302	46	26
6	65	70	e70	e90	e60	145	80	122	122	540	46	25
7	67	71	e65	e89	e60	141	80	114	112	545	45	25
8	66	71	e70	e87	e62	142	81	150	101	453	43	25
9	65	71	e66	e85	e64	137	79	166	91	363	40	25
10	64	71	e63	e83	e60	134	81	320	98	282	39	24
11	65	71	e60	e80	e58	134	81	285	86	226	41	24
12	64	71	e57	e80	e56	135	79	248	107	182	38	24
13	63	71	e54	e80	e55	130	80	289	131	150	31	24
14	64	70	e53	e84	e54	128	80	274	132	125	32	24
15	64	70	e52	e87	e53	131	82	220	131	108	29	24
16	63	70	e51	e90	e52	124	86	187	123	97	29	24
17	63	71	e50	e88	e51	118	88	164	117	88	30	24
18	63	72	e50	e86	e50	115	91	212	109	79	30	23
19	60	74	e47	e84	e50	112	93	318	103	75	32	23
20	61	76	e44	e82	e55	109	103	463	105	73	35	24
21	63	77	e41	e80	e60	108	122	433	99	71	40	25
22	69	77	e40	e78	e95	107	147	362	90	70	35	29
23	64	80	e42	e75	e130	108	154	297	84	72	33	33
24	64	81	e47	e72	119	111	142	238	80	74	31	38
25	64	83	e50	e70	130	107	160	195	79	72	28	40
26	64	86	e58	e68	145	105	182	173	80	62	26	35
27	65	87	e70	e67	164	100	196	171	80	58	26	36
28	64	86	e100	e65	192	95	188	192	86	55	24	34
29	66	87	e150	e63	218	93	164	212	89	55	23	32
30	71	87	e140	e61	---	90	148	193	96	52	23	31
31	76	---	e125	e60	---	87	---	177	---	49	24	---
TOTAL	2052	2241	2142	2497	2415	3950	3293	6923	3308	4804	1078	824
MEAN	66.2	74.7	69.1	80.5	83.3	127	110	223	110	155	34.8	27.5
MAX	78	87	150	110	218	211	196	463	174	545	47	40
MIN	60	66	40	60	50	87	79	114	79	49	23	23
AC-FT	4070	4450	4250	4950	4790	7830	6530	13730	6560	9530	2140	1630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1940, 1948 - 2000, BY WATER YEAR (WY)

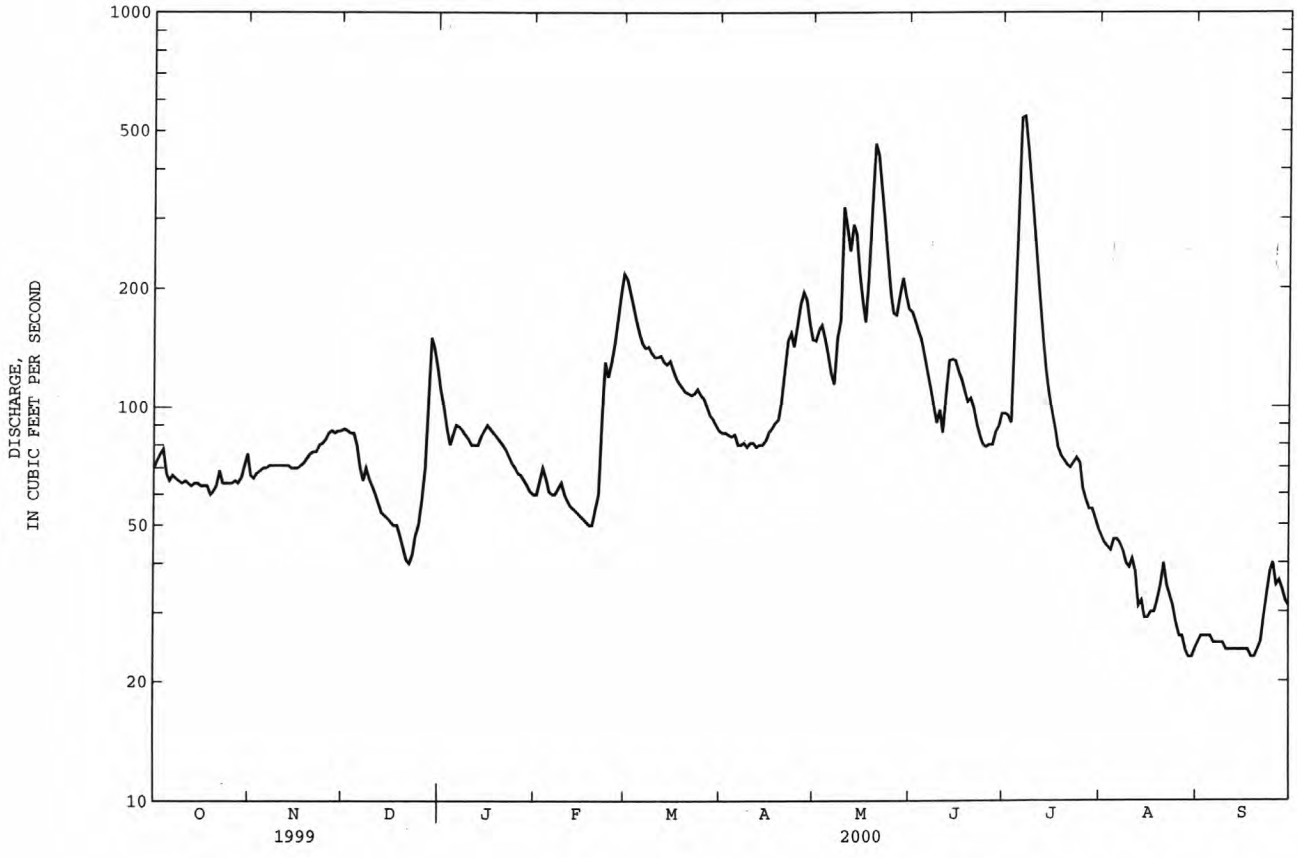
MEAN	41.0	47.0	37.4	32.8	76.6	177	163	146	108	65.7	37.2	31.3
MAX	141	204	108	135	546	598	605	754	512	607	178	89.2
(WY)	1996	1999	1999	1997	1997	1960	1952	1995	1962	1962	1998	1999
MIN	8.49	12.0	8.74	1.61	5.07	33.5	31.3	27.4	12.2	3.55	.80	3.71
(WY)	1977	1977	1956	1949	1979	1975	1976	1981	1976	1940	1976	1976

NIOBRARA RIVER BASIN

06464500 KEYA PAHA RIVER AT WEWELA, SD--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1939-1940, 1948-2000	
ANNUAL TOTAL	52913		35527			
ANNUAL MEAN	145		97.1		80.3a	
HIGHEST ANNUAL MEAN					188	1997
LOWEST ANNUAL MEAN					19.5	1976
HIGHEST DAILY MEAN	1150	May 12	545	Jul 7	4930	Mar 30 1952
LOWEST DAILY MEAN	28	Aug 28	23	Aug 29b	.00	Jan 10 1949c
ANNUAL SEVEN-DAY MINIMUM	31	Aug 23	24	Sep 13	.00	Jan 10 1949
INSTANTANEOUS PEAK FLOW			591	Jul 6	5430	Mar 31 1952d
INSTANTANEOUS PEAK STAGE			3.77	Jul 6	13.50	Mar 25 1950f
ANNUAL RUNOFF (AC-FT)	105000		70470		58180	
10 PERCENT EXCEEDS	275		173		165	
50 PERCENT EXCEEDS	96		79		42	
90 PERCENT EXCEEDS	51		32		15	

a Median of annual mean discharges, 69 ft^3/s.
b Also Aug. 30, Sept. 18, 19.
c Also Jan. 11 to Feb. 15, 1949, and Aug. 19 to Sept. 14, 1976.
d Gage height, 13.08 ft.
e Estimated.
f Backwater from ice.



NIOBRARA RIVER BASIN

06465000 NIOBRARA RIVER NEAR SPENCER, NE

LOCATION.--Lat 42°48'33", long 098°39'22", in SE ¼ NW ¼ sec.30, T.33 N., R.11 W., Boyd County, Hydrologic Unit 10150007, at Spencer powerplant dam 5 mi southeast of Spencer.

DRAINAGE AREA.--11,070 mi^2.

PERIOD OF RECORD.--May to December 1908 (gage heights only); August 1913 to September 1914; October to December 1914, April to September 1915 (gage heights only); August 1927 to September 1936, June 1940 to current year. Published as "near Lynch" 1913-15. Monthly discharge only for some periods, published in WSP 1309.

REVISED RECORDS.--WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder and hourly log and powerplant operation. Datum of gage is 1,473.67 ft above sea level. Elevation of taintor gate sill, 1,491.12 ft above sea level. Prior to December 1908, nonrecording gage on former highway bridge 275 ft downstream and Aug. 1, 1913, to Sept. 30, 1915, nonrecording gage at highway bridge 10 mi downstream at different datums. Aug. 1, 1927, to Sept. 30, 1936, and June 14, 1940, to Sept. 30, 1944, discharge computed as flow through powerhouse and over dam. Oct. 1, 1944, to Nov. 10, 1954, water-stage recorder at site 275 ft downstream at datum 4.98 ft higher, and Nov. 11, 1954, to Sept. 30, 1957, at site 0.3 mi downstream at datum 9.78 ft lower. Oct. 1, 1957 to Oct. 21, 1958, discharge computed a s flow through powerhouse and over dam. Oct. 28, 1958, to Aug. 13, 1963, water-stage recorder at site 225 ft downstream at present datum. Aug. 14, 1963, gage moved to present site with discharge computed as flow through powerhouse and over dam.

REMARKS.--Records fair. Natural flow of stream affected by irrigation and power developments. Daily discharge determined from flow through turbines and taintor gates, computed from relation between head, and gage openings.

COOPERATION.--Powerplant log furnished by Nebraska Public Power District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1240	1450	1580	1960	1450	e1950	1680	2190	1900	1540	1140	961
2	e1310	1480	1700	1770	1570	e1960	1710	1970	1740	1290	1100	991
3	e1320	1450	1670	1550	1880	1960	1650	1960	1720	1260	1020	1020
4	e1290	1450	1720	441	1900	2000	1640	1780	1700	1290	1040	1040
5	e1310	1470	1800	594	1780	1900	1660	1750	1730	1490	1060	1010
6	e1280	1480	1700	1250	1730	1890	1630	1740	1540	1980	1120	963
7	e1270	1430	1710	1600	1820	1890	1650	1760	1440	1610	983	1030
8	e1300	e1480	1720	1670	1840	1960	1650	1910	1310	1590	1010	980
9	e1350	1270	1610	1740	1960	2170	1560	1830	1290	1440	973	994
10	e1380	1480	1690	2340	2000	2120	e1580	1780	1440	1390	965	988
11	e1400	1480	1770	1650	1680	2070	e1570	1970	1530	1370	945	988
12	e1500	1480	1730	1580	1470	2000	e1600	2140	1620	1390	921	e980
13	e1400	1490	1740	1590	1610	1980	e1580	2060	1770	1360	890	982
14	e1350	1490	1800	1490	1490	1910	e1580	1780	1850	1260	894	964
15	1400	1500	1630	1770	1720	1920	e1630	1750	1660	1150	875	e1000
16	1520	1500	1270	1770	1790	1940	e1690	1650	1690	1180	925	e980
17	1540	1540	1700	1510	1790	1890	e1580	1680	1610	1170	956	e980
18	1460	1520	1500	1600	1790	1840	1510	2920	1470	1160	965	e970
19	1450	1550	1580	1950	1750	1830	1470	3010	1340	1290	997	e980
20	1460	1550	1100	1710	1910	1810	1580	2820	1410	1140	1080	e970
21	1440	1570	475	1530	2190	1790	1710	2800	1520	1180	1050	e970
22	1410	1530	675	1650	2460	1660	1680	2510	1240	1260	1060	e1080
23	1460	1550	1060	1720	2680	1700	1890	2460	1200	1220	e1040	1370
24	1460	1560	1670	1570	2560	1950	1890	2230	1450	1120	1080	1370
25	1410	1590	2040	1500	2110	1810	1950	2210	1490	1130	982	1310
26	1450	1580	2220	1550	2090	1770	2230	2220	1520	1100	977	1130
27	1470	1550	2090	1410	2040	1760	2050	2310	1330	1090	996	1100
28	1470	1530	1980	1400	e2120	1730	1870	1860	1490	1040	985	1100
29	1490	1570	2030	1520	1940	1660	1880	1830	e1450	1370	915	1110
30	1540	1590	e1830	1340	---	1720	1950	1850	e1540	1430	953	1110
31	1490	---	e1920	1370	---	1700	---	1940	---	1250	933	---
TOTAL	43620	45160	50710	48095	55120	58240	51300	64670	45990	40540	30830	31421
MEAN	1407	1505	1636	1551	1901	1879	1710	2086	1533	1308	995	1047
MAX	1540	1590	2220	2340	2680	2170	2230	3010	1900	1980	1140	1370
MIN	1240	1270	475	441	1450	1660	1470	1650	1200	1040	875	961
AC-FT	86520	89570	100600	95400	109300	115500	101800	128300	91220	80410	61150	62320

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2000, BY WATER YEAR (WY)

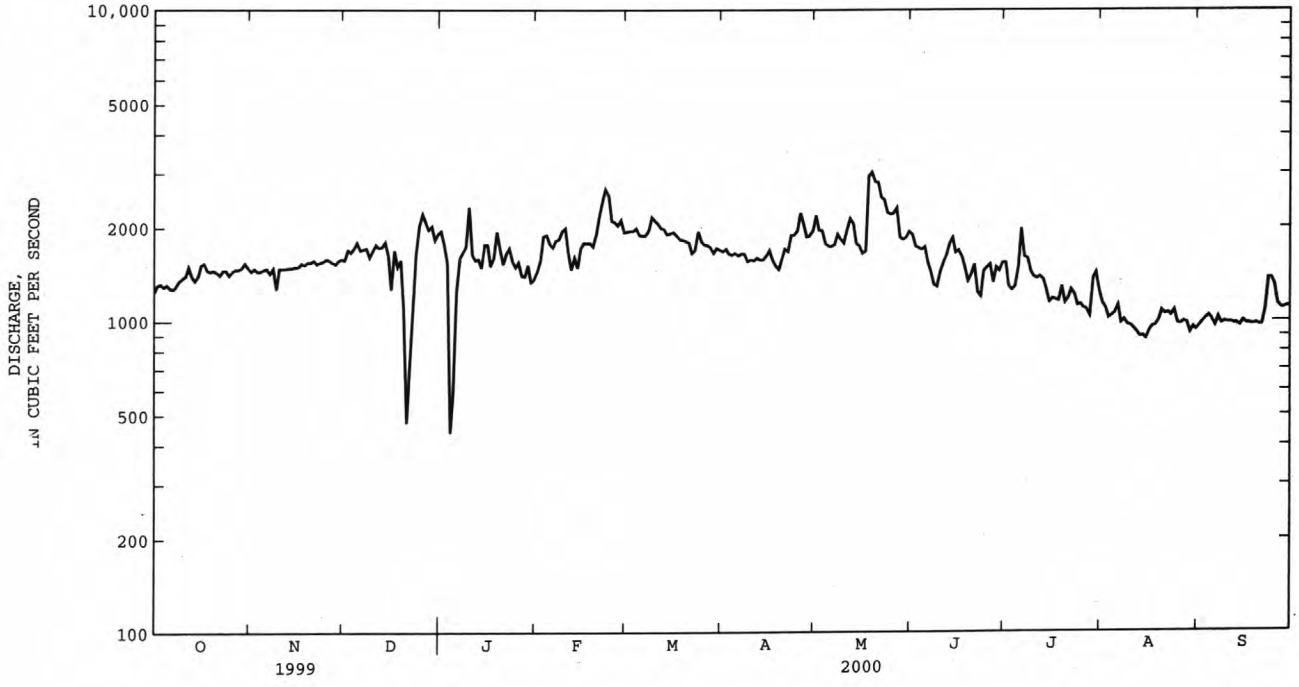
MEAN	1283	1349	1186	1236	1641	2237	1956	1882	1652	1164	1047	1122
MAX	1965	2333	1881	1860	3014	3941	3972	4649	3972	4156	2167	2143
(WY)	1996	1999	1994	1997	1997	1950	1995	1995	1962	1962	1951	1951
MIN	936	899	601	645	839	1276	1179	1014	830	549	612	746
(WY)	1941	1977	1928	1929	1950	1976	1934	1934	1933	1936	1970	1970

NIOBRARA RIVER BASIN

06465000 NIOBRARA RIVER NEAR SPENCER, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1927 - 2000	
ANNUAL TOTAL	691790		565696			
ANNUAL MEAN	1895		1546		1480	
HIGHEST ANNUAL MEAN					2066	1962
LOWEST ANNUAL MEAN					1096	1934
HIGHEST DAILY MEAN	7560	May 5	3010	May 19	19000	Mar 27 1960
LOWEST DAILY MEAN	475	Dec 21	441	Jan 4	5.0	Nov 14 1940
ANNUAL SEVEN-DAY MINIMUM	1040	Aug 17	915	Aug 11	168	Dec 8 1932
INSTANTANEOUS PEAK FLOW					27400	Mar 12 1955
INSTANTANEOUS PEAK STAGE					12.16	Mar 12 1955
ANNUAL RUNOFF (AC-FT)	1372000		1122000		1072000	
10 PERCENT EXCEEDS	2600		1980		2280	
50 PERCENT EXCEEDS	1770		1550		1320	
90 PERCENT EXCEEDS	1200		993		780	

e Estimated.



NIOBRARA RIVER BASIN

06465500 NIOBRARA RIVER NEAR VERDEL, NE

LOCATION.--Lat 42°44'23", long 098°13'26", in NW 1/4 NW 1/4 sec.23, T.32 N., R.8 W., Knox County, Hydrologic Unit 10150007, on right bank at downstream side of county road bridge, 6.6 mi south of Verdel, 7.5 mi upstream from Verdigre Creek, and at mile 14.8.

DRAINAGE AREA .--11,580 mi^2 .

PERIOD OF RECORD.--April 1938 to May 1940, June 1958 to current year.

REVISED RECORDS.--WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,312.12 ft above sea level. Apr. 25, 1938, to June 16, 1939, nonrecording gage at site 2600 ft downstream; June 17, 1939, to June 13, 1940, nonrecording gage 2850 ft downstream; and June 14, 1940 to July 24, 1985, water-stage recorder at site 2600 ft downstream, all at datum 4.00 ft lower. Data collection platform at station.

REMARKS.--Records poor. Natural flow of stream affected by irrigation and power developments.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1250	1730	2100	e2300	e1800	2600	2270	2770	2870	1530	1220	1100
2	1200	1690	2220	e2100	e1900	2600	2200	2280	2880	1640	1170	1160
3	1330	1700	2320	e1900	e2200	2360	1980	2090	2810	1450	1120	1180
4	1350	1770	2200	e800	e2300	2610	2090	2120	2720	1540	1100	1220
5	1340	1820	1870	e750	e2100	2520	1960	2200	2510	1590	1090	1200
6	1200	1680	1770	e1500	e2100	2680	1720	2240	1980	2490	1090	1180
7	1350	1700	2010	e1900	e2200	2550	1870	2150	2170	2270	1130	1220
8	1430	1720	2190	e1950	e2200	2450	2000	2280	2280	2140	1040	1180
9	1410	1400	2310	e2000	e2300	2610	1920	2310	2260	1930	1010	1180
10	1480	1610	2280	e2600	e2400	2420	2080	2400	2450	1690	1020	1180
11	1400	1640	2330	e2100	e2100	2550	1860	2490	2700	1700	993	1190
12	1410	1720	2160	e1900	e1900	2430	1710	2810	2580	1540	973	1210
13	1490	1800	2140	e1900	e2000	2420	1620	2780	2960	1510	969	1250
14	1210	2110	2070	e1800	e1800	2600	1570	2830	2570	1480	971	1250
15	1280	2380	1720	e2100	e2100	2500	1880	2900	2140	1340	975	1320
16	1410	2130	1700	e2100	e2200	2560	2310	3040	2040	1300	989	1240
17	1360	1990	e2000	e1900	e2200	2650	2080	2990	1920	1220	1030	1250
18	1280	1900	e1900	e2000	e2300	2480	2390	3900	1930	1180	1010	1280
19	1270	1880	e1900	e2300	2550	2410	2390	4270	1770	1200	1040	1300
20	1390	1950	e1500	e2100	2860	2340	2310	3850	1870	1170	1080	1350
21	1460	1860	e800	e1900	3230	2170	2410	3400	1700	1140	1100	1320
22	1360	1850	e1000	e2000	3330	2270	2450	3050	1510	1240	1200	1310
23	1410	1840	e1300	e2100	3990	2300	2340	3040	1590	1210	1200	1290
24	1400	2020	e1900	e1900	3990	2900	2370	2980	1780	1250	1180	1260
25	1610	2330	e2200	e1800	3250	2870	2320	2940	1910	1240	1140	1110
26	1600	2440	e2400	e1800	3010	2500	2780	3250	2480	1190	1110	999
27	1610	2200	e2300	e1700	2680	2530	2910	3310	1830	1190	1100	1010
28	1710	2280	e2300	e1700	2710	2490	2580	2990	1840	1180	1130	1080
29	1750	2300	e2300	e1800	2620	2220	2590	2920	1610	1120	1110	1170
30	1770	2340	e2100	e1700	---	2010	2690	2970	1600	1780	1100	1220
31	1800	---	e2200	e1700	---	2170	---	2850	---	1330	1090	---
TOTAL	44320	57780	61490	58100	72320	76770	65650	88400	65260	45780	33480	36209
MEAN	1430	1926	1984	1874	2494	2476	2188	2852	2175	1477	1080	1207
MAX	1800	2440	2400	2600	3990	2900	2910	4270	2960	2490	1220	1350
MIN	1200	1400	800	750	1800	2010	1570	2090	1510	1120	969	999
AC-FT	87910	114600	122000	115200	143400	152300	130200	175300	129400	90800	66410	71820

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2000, BY WATER YEAR (WY)

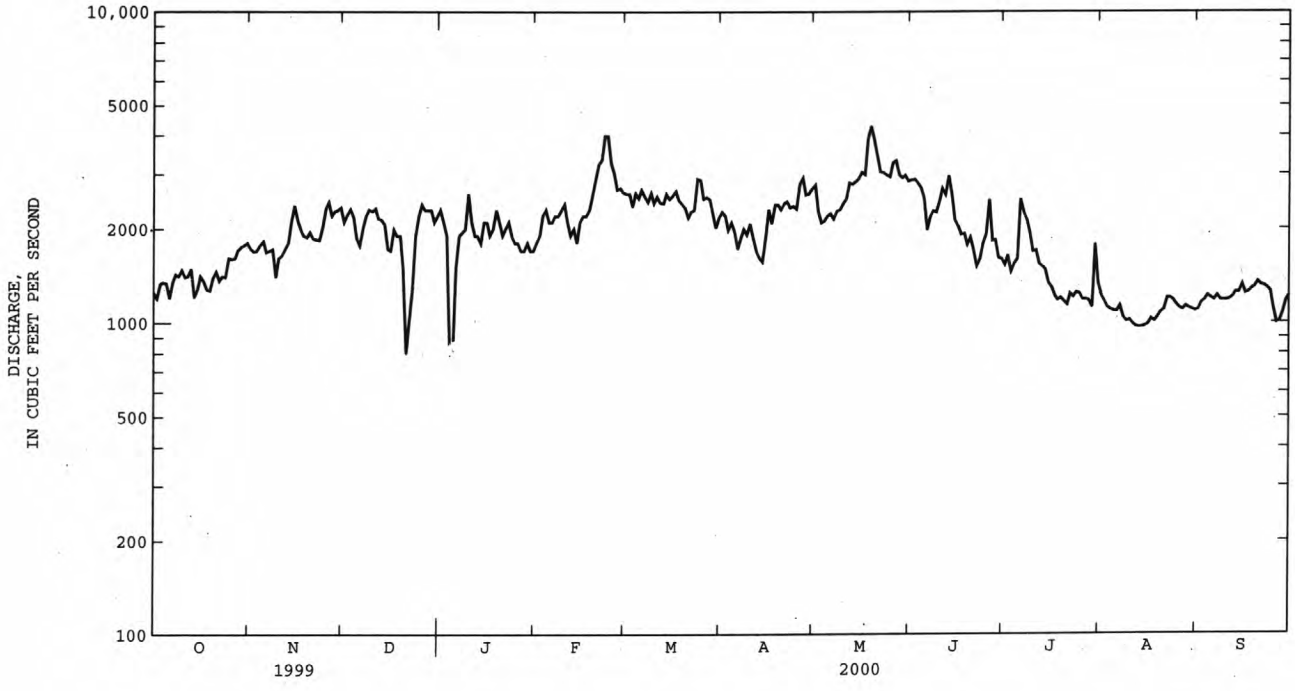
MEAN	1434	1535	1393	1443	1923	2581	2315	2188	1870	1400	1137	1258
MAX	2480	2762	2118	2148	3557	4425	4693	5290	4442	5370	2049	2094
(WY)	1996	1999	1997	1999	1997	1960	1995	1995	1962	1962	1962	1986
MIN	1009	943	787	706	941	1444	1282	1228	1044	551	644	704
(WY)	1977	1977	1969	1940	1939	1981	1939	1969	1976	1974	1971	1939

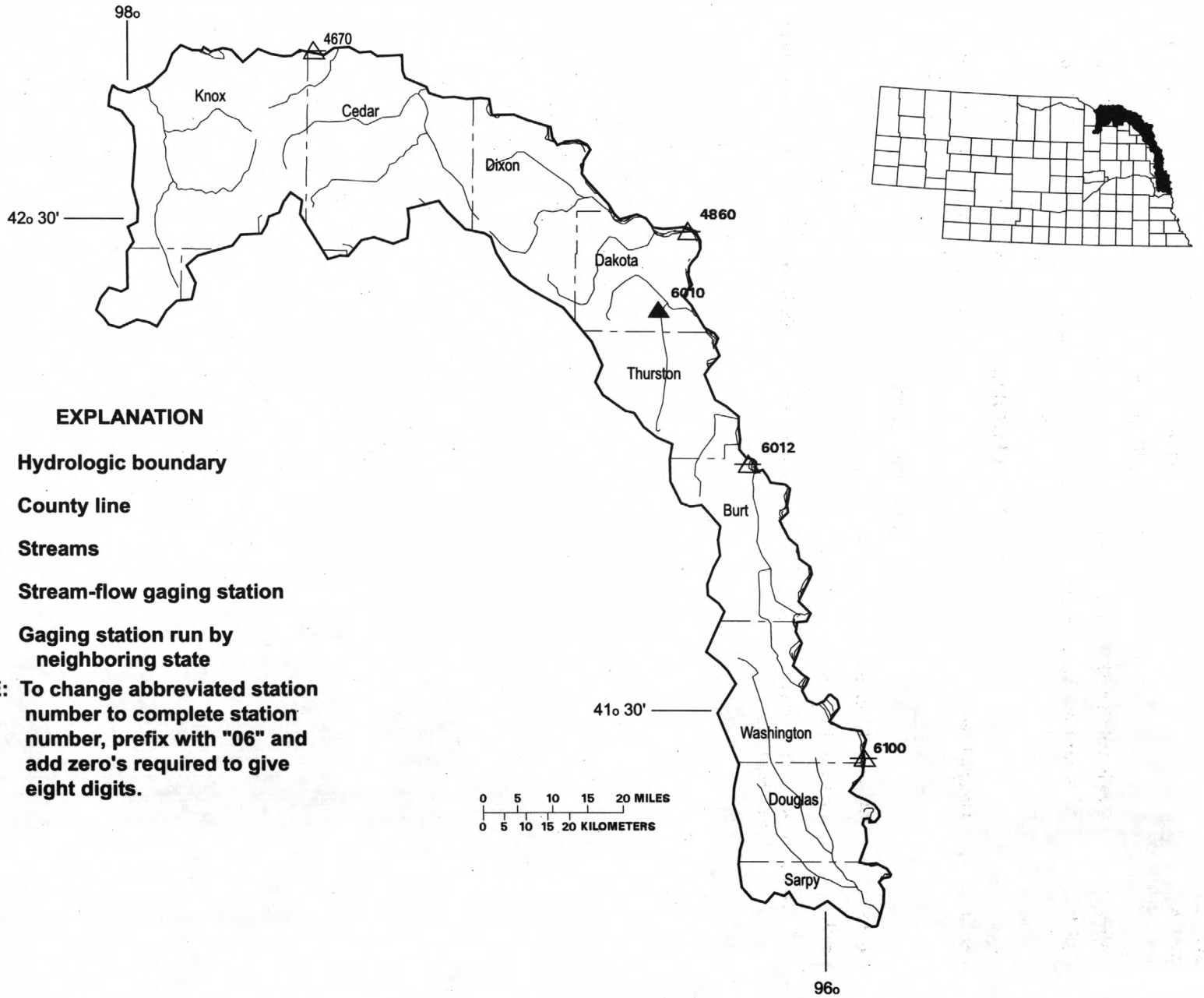
NIOBRARA RIVER BASIN

06465500 NIOBRARA RIVER NEAR VERDEL, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1938 - 2000	
ANNUAL TOTAL	843760		705559			
ANNUAL MEAN	2312		1928		1713	
HIGHEST ANNUAL MEAN					2461	1962
LOWEST ANNUAL MEAN					1269	1976
HIGHEST DAILY MEAN	6590	Jul 20	4270	May 19	25100	Mar 27 1960
LOWEST DAILY MEAN	800	Dec 21	750	Jan 5	104	Nov 30 1960
ANNUAL SEVEN-DAY MINIMUM	1280	Sep 30	984	Aug 10	210	Nov 27 1976
INSTANTANEOUS PEAK FLOW			*4620	May 18	39000	Mar 27 1960
INSTANTANEOUS PEAK STAGE			**4.09	Dec 26	**10.62	Mar 12 1966
ANNUAL RUNOFF (AC-FT)	1674000		1399000		1241000	
10 PERCENT EXCEEDS	3520		2740		2680	
50 PERCENT EXCEEDS	2200		1900		1510	
90 PERCENT EXCEEDS	1410		1140		889	

e Estimated.
* Stage 3.93 ft.
** Backwater from ice.




98o
42o 30'
4670
Knox
Cedar
Dixon
4860
Dakota
6010
Thurston
6012
Burt
41o 30'
Washington
6100
Douglas
Sarpy
96o
0 5 10 15 20 MILES
0 5 10 15 20 KILOMETERS
EXPLANATION
Hydrologic boundary
County line
Streams
Stream-flow gaging station
Gaging station run by neighboring state
NOTE: To change abbreviated station number to complete station number, prefix with "06" and add zero's required to give eight digits.

*Station number	Station name	Page
	MISSOURI RIVER	
4670	Lewis and Clark Lake near Yankton, SD	64
4860	Missouri River at Sioux City, IA	66
	OMAHA CREEK BASIN	
6010	Omaha Creek at Homer	68
	MISSOURI RIVER	
6012	Missouri River at Decatur, NE	70
6100	Missouri River at Omaha, NE	72

* NOTE: To change abbreviated station number to complete station number, prefix with "06" and add zeros required to equal eight digits.

MISSOURI-LEWIS AND CLARK RIVER BASIN

06467000 LEWIS AND CLARK LAKE NEAR YANKTON, SD

LOCATION.--Lat 42°50'56", long 97°28'54", in SW¼ sec.7, T.33 N., R.1 W., Cedar County, NE, Hydrologic Unit 10170101, in powerhouse of Gavins Point Dam on Missouri River, 3.75 mi southwest of Yankton, 13.6 mi upstream from James River, 32.5 mi downstream from Niobrara River, and at mile 811.0.

DRAINAGE AREA.--279,500 mi^2, approximately.

PERIOD OF RECORD.--July 1955 to current year (monthend contents only). Prior to October 1955, published as Gavins Point Reservoir near Yankton.

GAGE.--Water-stage recorder. Datum of gage is above sea level. Prior to Dec. 9, 1955, recorder at temporary location on wall of intake structure unit 3.

REMARKS.--Reservoir is formed by earthfill dam; storage began in July 1955. Maximum capacity, 504,000 acre-ft below elevation 1,210.0 ft (top of spillway gates). Normal maximum, 442,600 acre-ft below elevation 1,208.0 ft Inactive storage, 157,000 acre-ft below elevation 1,195.0 ft Dead storage, 23,000 acre-ft below elevation 1,180.0 ft (crest of spillway). From capacity table put into use Nov. 1, 1986; maximum capacity, 491,700 acre-ft. Normal maximum, 432,000 acre-ft. Inactive storage, 149,400 acre-ft. Dead storage, 17,700 acre-ft. Figures given herein represent elevations at powerhouse and total contents adjusted for wind effect.

The spillway consists of 14 taintor gates, each 40 ft wide by 30 ft high; spillway capacity, 280,000 ft^3/s at pool elevation 1,210.0 ft. Crest of spillway is at elevation 1,180.0 ft. Normal releases are through 3 power units, installation completed in January 1957; maximum release through power units is 35,000 ft^3/s at pool elevation, 1,210.0 ft. Water is used for flood control, navigation, power, and incidental uses.

COOPERATION.--Records of elevation and contents provided by U.S. Army Corps of Engineers and provided for this report by the U.S. Geological Survey, South Dakota District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 565,000 acre-ft, Apr. 1, 1960, affected by wind; maximum elevation, 1,210.6 ft, Mar. 29, 1960; minimum since initial filling, 61,950 acre-ft, Apr. 23, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 403,000 acre-ft, Dec. 9; minimum contents, 339,000 acre-ft, May 14.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	*Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep 30	1,206.89	381,000	--
Oct. 31	1,206.85	380,000	-1,000
Nov. 30	1,207.23	390,000	+10,000
Dec. 31	1,207.25	389,000	-1,000
CAL YR 1999	--	--	+14,000
Jan. 31	1,207.10	386,000	-3,000
Feb. 29	1,206.14	361,000	-25,000
Mar. 31	1,206.08	360,000	-1,000
Apr. 30	1,205.82	353,000	-7,000
May 31	1,206.22	363,000	+10,000
June 30	1,206.21	362,000	-1,000
July 31	1,205.82	353,000	-9,000
Aug. 31	1,206.17	363,000	+10,000
Sept. 30	1,207.00	384,000	+21,000
WTR YR 2000	--	--	+3,000

*Lake frozen over Dec. 22 to Feb. 26.

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MISSOURI RIVER MAIN STEM

06486000 MISSOURI RIVER AT SIOUX CITY, IA

LOCATION.--Lat. 42°29'09", long 96°24'49", in NW¼ SE¼ sec.16, T.29 N., R.9 E., sixth prinicipal meridian, Dakota County, Nebraska, Hydrologic Unit 10230001, on right bank on upstream side of bridge on U.S. Highway 20 and 77 at South Sioux City, Nebraska, 1.9 mi downstream from Big Sioux River, and at mile 732.2.

DRAINAGE.--314,600 mi^2, approximately. The 3,959 mi^2 in Great Divide basin are not included.

PERIOD OF RECORD.--October 1897 to current year in reports of the U.S. Geological Survey. Prior to October 1928 and October 1931 to September 1938, monthly discharges only, published in WSP 1310. January 1879 to December 1890, monthly discharges only, in House Document 238, 73rd Congress, 2d session, Missouri River. Gage height records collected in this vicinity September 1878 to December 1899 are contained in reports of Missouri River Commission and since July 1889 are contained in reports of U.S. Weather Bureau.

REVISED RECORDS.--WSP 716: 1929-30. WSP 876: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,056.98 ft above sea level. Sept. 2, 1878 to Dec. 31, 1905, nonrecording gages at various locations within 1.7 mi of present site and at various datums. Jan. 1, 1906 to Feb. 14, 1935, nonrecording gage, and Feb. 15, 1935 to Sept. 30, 1969, water-stage recorder at site 227 ft downstream at datum 19.98 ft higher, and Oct. 1, 1969 to Sept. 30, 1970 at datum 20.00 ft higher. Oct. 1, 1970 to Jan. 30, 1981, water-stage recorder at site 227 ft downstream at present datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by upstream main-stem reservoirs. Fort Randall Dam was completed in July 1952, with storage beginning in December 1952. Gavins Point Dam was completed in July 1955; with storage beginning in December 1955. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water quality data. U.S. Army Corps of Engineers rain gage and satellite data collection platform at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 441,000 ft^3/s Apr. 14, 1952, gage height, 24.28 ft, datum then in use; minimum, 2,500 ft^3/s Dec. 29, 1941; minimum gage height, 7.02 ft Jan. 19, 1996.

COOPERATION.--Records provided by U.S. Geological Survey, Iowa District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48100	46400	46200	23900	e19400	18400	29500	31900	36400	34800	33000	34400
2	48600	45700	46700	23800	e19400	18600	29100	31400	35800	34700	32700	34800
3	48100	45100	46400	23700	e19000	18500	29300	31300	35300	34500	31700	34600
4	47900	44500	44600	22800	e18500	18500	29400	31300	35600	34400	31000	34200
5	47600	44500	41400	22000	e18000	18300	30000	31000	36000	34500	31500	34000
6	47300	44900	38100	24300	18500	18600	30300	31000	35700	34200	31600	34100
7	47300	45600	34500	23300	18000	18800	31000	30900	35800	33600	30900	34300
8	47600	46000	31400	23500	17900	18900	31700	31000	35900	33800	31800	34600
9	47000	45600	28800	23300	18000	19200	31300	30900	35600	33500	32800	34900
10	46600	45200	26000	23200	18000	18500	31400	30600	36000	33500	32200	34700
11	46300	45300	24700	22700	17700	18200	31600	33100	36600	33500	32100	34700
12	46100	45600	24800	22100	17700	18300	31100	36700	36500	35600	32000	34800
13	46300	46100	24800	23200	17600	18500	30800	38500	37100	33800	31900	34700
14	46600	46500	24900	22900	17300	18500	30600	38000	39600	33700	31500	34700
15	46900	47000	25700	24500	17700	18600	30700	38200	38000	33800	31600	34600
16	46700	47000	24700	23300	17900	18400	31600	37700	37000	34300	31500	34400
17	46500	46900	24200	21500	17800	17300	31000	36600	36600	34400	32200	34500
18	46400	47000	24300	25100	17700	19100	30000	41000	36400	34000	32100	34500
19	46700	47000	24500	24600	17700	22200	30400	39400	36100	34500	31800	35200
20	46700	46400	24100	22500	17700	25000	30600	37700	36700	34600	32300	35300
21	46800	45800	22500	23400	17700	28200	30600	39200	36400	34400	31900	34900
22	46800	45700	23500	e24200	17900	30300	30300	39500	35700	34000	32400	35400
23	46900	45900	23900	e23700	18500	30000	30400	38900	35600	34500	32300	35300
24	46800	45500	e24500	e23400	19100	30000	30900	38800	36400	34100	32000	34800
25	46600	45100	e25000	e22600	18900	30000	31400	38400	37800	34600	31900	34600
26	46500	45000	e24400	e21800	19100	30000	31800	37900	38600	34800	31700	34100
27	46900	45000	e23800	e21300	19200	30200	32300	38000	35900	33900	31600	33800
28	47200	45100	24300	e20500	19000	30100	32000	37000	36100	33800	31700	33900
29	47200	45100	24500	e21000	19300	30300	31600	36400	35500	33800	31900	33900
30	46900	45600	24500	e20300	---	30400	31600	36800	35200	33500	32000	34100
31	46400	---	24300	e19800	---	30300	---	36500	---	33400	32700	---
TOTAL	1456300	1372100	896000	708200	530200	710200	924300	1105600	1091900	1058500	990300	1036800
MEAN	46980	45740	28900	22850	18280	22910	30810	35660	36400	34150	31950	34560
MAX	48600	47000	46700	25100	19400	30400	32300	41000	39600	35600	33000	35400
MIN	46100	44500	22500	19800	17300	17300	29100	30600	35200	33400	30900	33800
AC-FT	2889000	2722000	1777000	1405000	1052000	1409000	1833000	2193000	2166000	2100000	1964000	2056000
CFSM	.15	.15	.09	.07	.06	.07	.10	.11	.12	.11	.10	.11
IN.	.17	.16	.11	.08	.06	.08	.11	.13	.13	.13	.12	.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2000, BY WATER YEAR (WY)

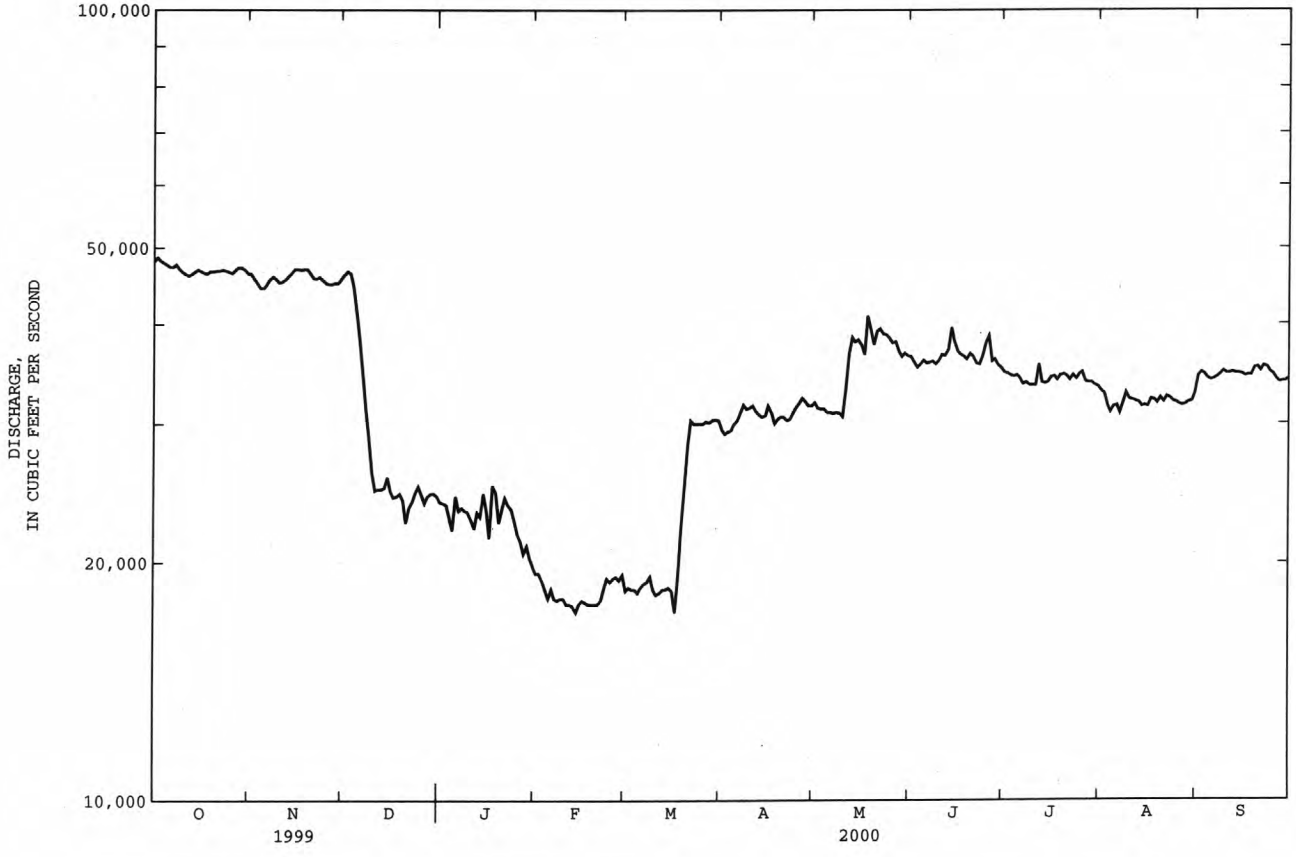
MEAN	36340	31400	19060	16180	17360	23420	33340	34040	35850	36440	36790	36990
MAX	69300	71600	39880	27720	31120	47020	88040	78720	66400	65550	65360	66400
(WY)	1998	1998	1998	1987	1997	1997	1997	1997	1997	1997	1997	1997
MIN	14350	6951	8271	7316	6293	9135	17450	23820	23270	26890	24270	25790
(WY)	1962	1962	1962	1964	1963	1957	1957	1962	1960	1958	1993	1962

MISSOURI RIVER MAIN STEM

06486000 MISSOURI RIVER AT SIOUX CITY, IA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1953 - 2000a	
ANNUAL TOTAL	14231000		11880400			
ANNUAL MEAN	38990		32460		29810	
HIGHEST ANNUAL MEAN					55890	1997
LOWEST ANNUAL MEAN					19770	1957
HIGHEST DAILY MEAN	54500	Jul 22	48600	Oct 2	105000	Jun 25 1953
LOWEST DAILY MEAN	22500	Dec 21	17300	Feb 14	3000	Dec 11 1961
ANNUAL SEVEN-DAY MINIMUM	23900	Dec 17	17700	Feb 11	5430	Feb 22 1963
INSTANTANEOUS PEAK FLOW			48900	Oct 2	101000	Apr 3 1960
INSTANTANEOUS PEAK STAGE			18.82	Oct 2	30.65	Feb 19 1971
ANNUAL RUNOFF (AC-FT)	28230000		23560000		21600000	
ANNUAL RUNOFF (CFSM)	.12		.10		.095	
ANNUAL RUNOFF (INCHES)	1.68		1.40		1.29	
10 PERCENT EXCEEDS	48100		46400		46700	
50 PERCENT EXCEEDS	41900		32700		30300	
90 PERCENT EXCEEDS	25600		18900		11700	

a Post regulation
e Estimated



OMAHA CREEK BASIN

06601000 OMAHA CREEK AT HOMER, NE

LOCATION.--Lat 42°19'29", long 096°29'43", in SW ¼ SE ¼ sec.11, T.27 N., R.8 E., Dakota County, Hydrologic Unit 10230001, on left bank 80 ft downstream from bridge on main street of Homer and at mile 4.7.

DRAINAGE AREA.--174 mi^2.

PERIOD OF RECORD.--October 1945 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WDR NE-75-1: 1971-73. WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,080.45 ft above sea level. Prior to Aug. 4, 1952, at bridge 0.5 mi downstream at datum 6.03 ft lower. Aug. 4, 1952 to Nov. 3, 1966 at site 80 ft upstream at datum 2.0 ft higher. Nov. 4, 1966 to Sept. 30, 1989 at present site at datum 2.0 ft higher. June 27, 1984 to Aug. 28, 1984 at temporary site 700 ft downstream at present datum.

REMARKS.--Records fair except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	47	44	49	e39	e41	44	36	33	67	33	16
2	47	44	44	e50	e36	38	44	33	30	62	31	17
3	47	45	44	e38	e34	41	44	32	28	58	29	16
4	47	45	44	e33	e36	43	43	32	28	57	29	16
5	47	45	44	e41	e40	45	43	31	28	59	33	17
6	46	45	42	e49	e39	46	42	30	27	58	31	15
7	45	46	44	53	e39	45	42	30	26	53	27	14
8	46	47	47	54	e41	49	42	35	25	47	26	14
9	46	47	46	53	e40	47	43	35	23	45	25	13
10	45	47	42	53	e37	43	43	32	22	48	25	13
11	45	46	44	e50	e37	42	43	30	22	49	24	13
12	46	46	46	e44	e36	42	43	29	26	119	24	12
13	46	47	44	e38	e34	43	44	27	30	57	23	13
14	45	47	47	e40	e35	44	46	27	40	44	23	13
15	45	46	47	e47	e37	44	48	28	30	41	22	13
16	45	45	43	e42	e36	42	61	27	28	39	20	13
17	44	45	e40	e45	e35	41	68	28	27	39	22	14
18	45	45	e37	e47	e36	44	50	44	26	37	21	13
19	45	45	e33	e36	e37	49	42	36	24	39	21	14
20	46	44	e31	e34	e42	48	39	29	45	39	23	15
21	47	44	e37	e36	e46	47	39	32	30	37	23	16
22	47	44	e44	e42	e50	46	38	28	24	36	23	25
23	45	54	e42	e40	e55	46	37	26	24	42	23	28
24	44	52	e48	e35	e66	51	36	26	107	37	22	23
25	46	46	53	e31	e86	48	37	26	4140	86	20	22
26	46	46	54	e32	e77	45	39	36	e1600	48	19	21
27	46	47	52	e35	e66	44	44	50	e140	36	18	20
28	46	46	51	e36	e56	42	40	36	244	35	18	20
29	46	44	53	e36	e45	42	37	32	91	35	18	20
30	47	44	53	e37	---	43	35	33	76	34	17	19
31	47	---	49	e39	---	44	---	33	---	34	16	---
TOTAL	1420	1381	1389	1295	1293	1375	1296	989	7044	1517	729	498
MEAN	45.8	46.0	44.8	41.8	44.6	44.4	43.2	31.9	235	48.9	23.5	16.6
MAX	47	54	54	54	86	51	68	50	4140	119	33	28
MIN	44	44	31	31	34	38	35	26	22	34	16	12
AC-FT	2820	2740	2760	2570	2560	2730	2570	1960	13970	3010	1450	988

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2000, BY WATER YEAR (WY)

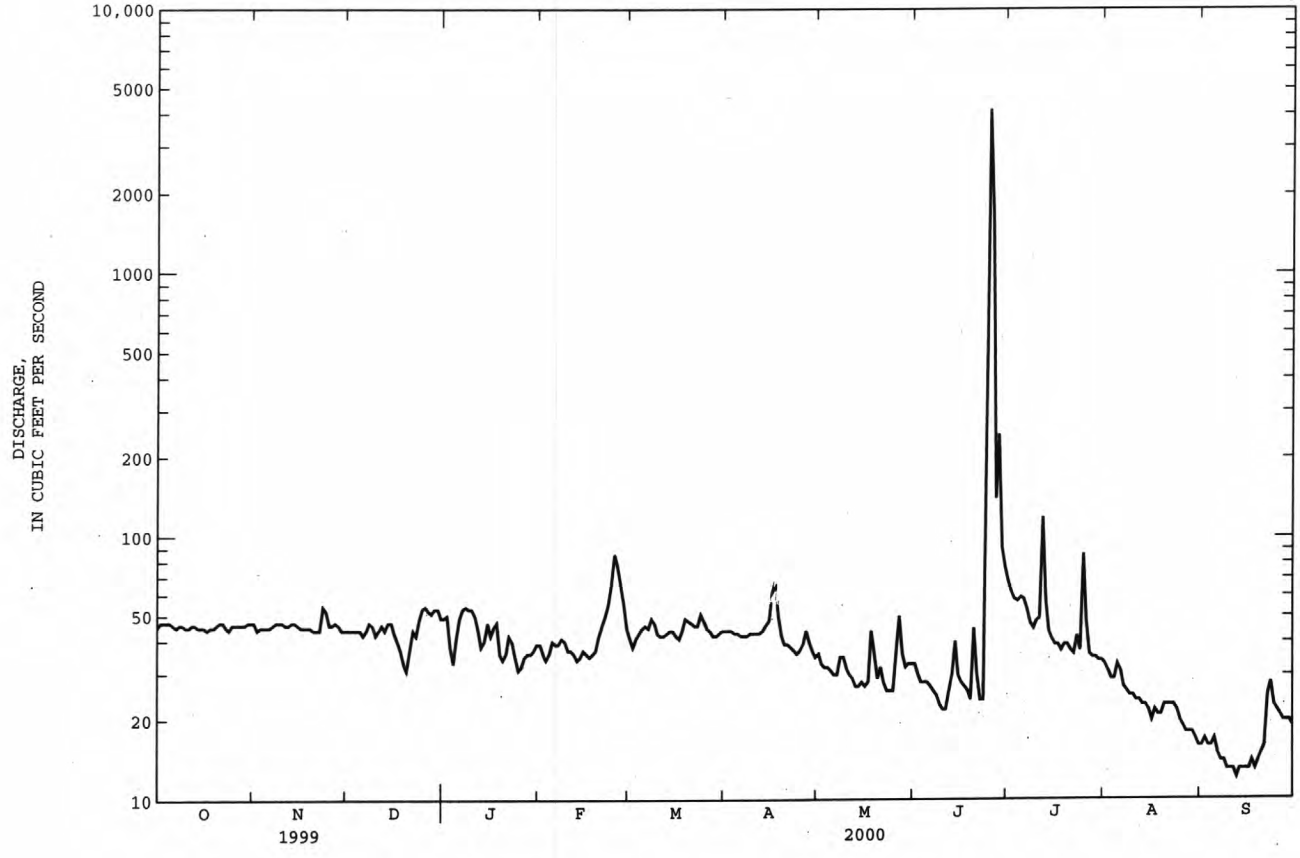
MEAN	23.5	22.3	19.0	18.9	49.0	71.7	56.9	59.4	96.1	59.2	34.0	26.6
MAX	89.6	75.2	62.4	82.0	472	315	426	248	370	331	181	131
(WY)	1994	1994	1995	1973	1971	1993	1985	1984	1999	1996	1993	1993
MIN	1.17	2.36	2.46	1.99	1.49	6.33	4.14	4.04	7.60	4.34	2.55	.75
(WY)	1957	1956	1977	1957	1956	1956	1956	1981	1981	1976	1968	1948

OMAHA CREEK BASIN

06601000 OMAHA CREEK AT HOMER, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1946 - 2000	
ANNUAL TOTAL	36882		20226			
ANNUAL MEAN	101		55.3		44.6	
MEDIAN OF ANNUAL MEANS					37	
HIGHEST ANNUAL MEAN					130	1993
LOWEST ANNUAL MEAN					6.20	1981
HIGHEST DAILY MEAN	2190	Jun 27	4140	Jun 25	6840	Feb 18 1971
LOWEST DAILY MEAN	31	Dec 20	12	Sep 12	.10	Sep 16 1948
ANNUAL SEVEN-DAY MINIMUM	38	Dec 17	13	Sep 9	.16	Sep 8 1955
INSTANTANEOUS PEAK FLOW			12300	Jun 25	*21500	Jul 17 1996
INSTANTANEOUS PEAK STAGE			13.56	Jun 25	28.47	Feb 19 1971
ANNUAL RUNOFF (AC-FT)	73160		40120		32330	
10 PERCENT EXCEEDS	160		51		82	
50 PERCENT EXCEEDS	63		42		19	
90 PERCENT EXCEEDS	45		22		4.3	

e Estimated.
* Stage 22.30 ft from floodmark, discharge from rating curve extension based on slope-area measurements at 16.38 ft and 23.62 ft.



MISSOURI RIVER MAIN STEM

06601200 MISSOURI RIVER AT DECATUR, NE

LOCATION.--Lat 42°00'26", long 96°14'29", in NE¼ SW¼ sec.36, T.24 N., R.10 E., Burt County, Hydrologic Unit 10230001, on right bank 0.1 mi upstream from Iowa Highway 175 bridge at Decatur, and at mile 691.0.

DRAINAGE AREA.--316,200 mi^2, approximately. The 3,959 mi^2 in Great Divide basin are not included.

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,010.00 ft above sea level, supplementary adjustment of 1954.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by upstream main-stem reservoirs. Fort Randall Dam was completed in July 1952, with storage beginning in December 1952. Gavins Point Dam was completed in July 1955, with storage beginning in December 1955. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water quality data. U.S. Army Corps of Engineers rain gage and satellite data collection platform at station.

COOPERATION.--Records provided by U.S. Geological Survey, Iowa District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48500	47400	47100	24900	20100	19600	30900	32900	37300	35400	33800	33500
2	48600	47100	47100	24700	20100	19000	30800	33200	37000	35300	33800	34900
3	48600	46500	47600	24900	19900	19400	31000	32700	36300	35300	33400	34700
4	47800	46300	47200	24700	19400	19300	31400	32700	36200	35000	32200	34500
5	47600	46100	44700	23600	18800	19400	31300	32500	36700	35400	32200	34200
6	47200	46200	41800	24200	18800	19400	31800	32200	36900	35200	32700	34200
7	47400	46500	38400	25100	19100	19400	31600	32200	36400	34400	31700	34000
8	47900	46900	35200	24400	19000	19500	32500	32200	37100	34200	31600	34100
9	47900	46800	32700	24700	18900	19700	32400	32000	36800	34100	33400	34700
10	47600	46700	30200	24400	18900	19600	31700	31700	36700	34000	32900	34600
11	47700	46600	27800	24400	18900	19000	32100	32400	37100	33900	32600	34600
12	e47000	46600	27000	23500	18500	18700	32400	36000	36900	35700	32600	34700
13	e47200	47000	26700	23700	18600	18900	32300	39400	37100	35500	32500	34800
14	47700	47500	26400	23900	18300	19100	32300	39600	39300	34400	32000	34800
15	48100	47600	26800	24400	18100	19000	32500	39200	40100	34600	32000	34700
16	48000	47800	26800	24800	18600	19200	33100	39100	37900	34800	31900	34600
17	48000	47900	25900	23200	18600	18700	33900	37900	37400	35000	32100	34600
18	47500	47900	25700	23500	18600	18500	32200	40100	37100	34500	32600	34500
19	47600	47800	25700	25400	18600	21200	32100	42400	36800	34300	32000	35200
20	47300	47300	25900	24100	18600	23600	32800	39300	37000	34800	32200	35600
21	47200	47000	24800	23200	18600	26200	33300	39300	37400	34400	32500	35400
22	47300	46900	24300	23900	18700	29300	33200	40800	36600	34000	32400	35400
23	47600	47200	25000	24500	19000	30400	32100	40000	36200	34100	32900	35800
24	47800	47200	25600	24300	19600	30500	32100	38700	36800	34400	32400	35000
25	47900	46600	26000	23300	19700	30700	32300	e38600	40300	34300	32400	35000
26	47900	46400	25300	22800	19500	30600	32700	37900	45900	35400	32300	34600
27	47800	46800	25100	22200	19800	30800	33100	38100	36900	34400	32400	33800
28	48100	46700	24900	21700	19600	30800	32900	37500	36900	34100	32400	33800
29	47700	46800	25100	22000	19500	30900	32300	36900	36500	34300	32700	33900
30	47800	47000	25100	21200	---	31000	32300	37300	35800	34200	32400	33900
31	47500	---	25100	20800	---	31100	---	37800	---	34100	32500	---
TOTAL	1479800	1409100	953000	736400	552400	722500	967400	1132600	1123400	1073500	1007500	1038100
MEAN	47740	46970	30740	23750	19050	23310	32250	36540	37450	34630	32500	34600
MAX	48600	47900	47600	25400	20100	31100	33900	42400	45900	35700	33800	35800
MIN	47000	46100	24300	20800	18100	18500	30800	31700	35800	33900	31600	33500
AC-FT	2935000	2795000	1890000	1461000	1096000	1433000	1919000	2247000	2228000	2129000	1998000	2059000
CFSM	.15	.15	.10	.08	.06	.07	.10	.12	.12	.11	.10	.11
IN.	.17	.17	.11	.09	.06	.09	.11	.13	.13	.13	.12	.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2000, BY WATER YEAR (WY)

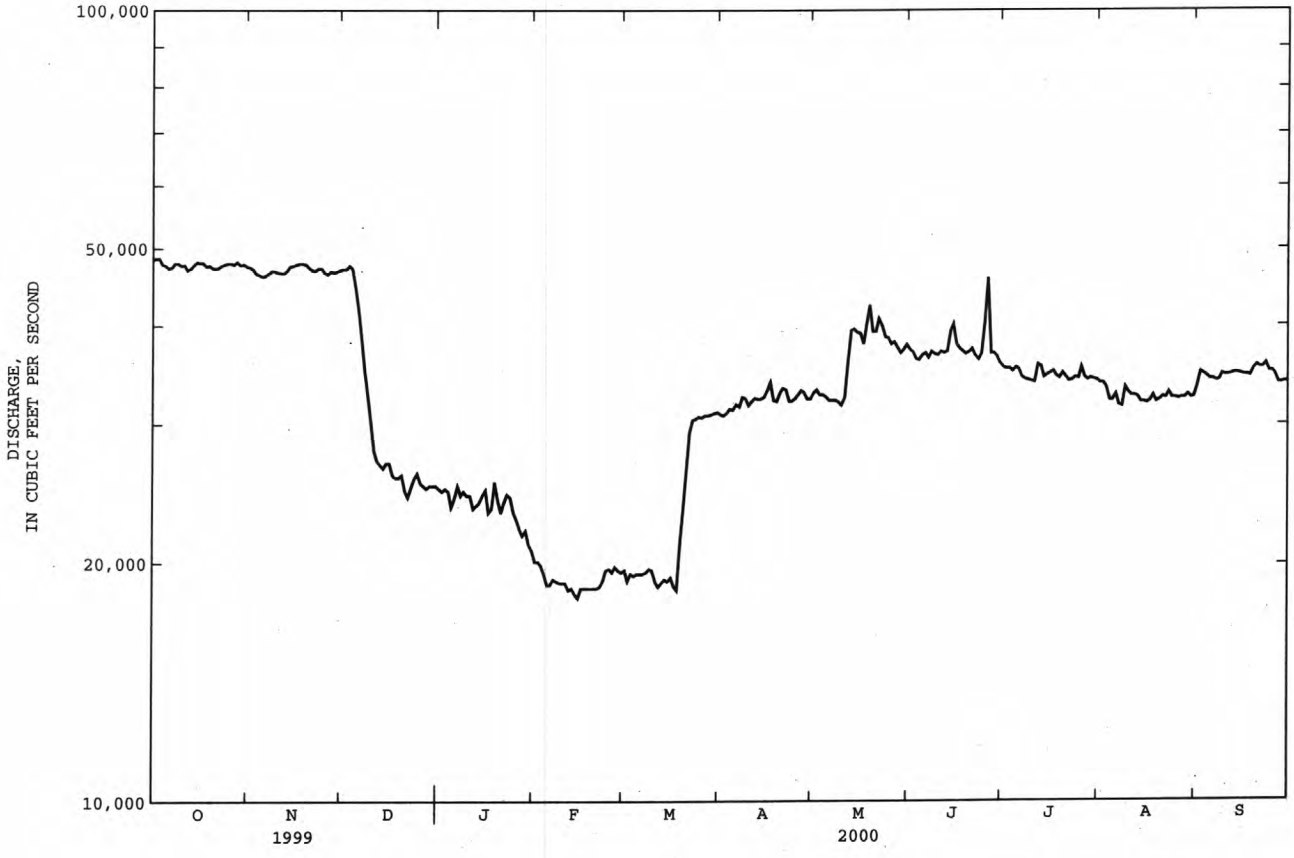
MEAN	38830	33560	22870	19500	20970	26100	36850	38660	39860	40130	37900	39470
MAX	70150	72350	41350	26850	32380	49450	90050	80690	67970	66520	66170	67290
(WY)	1998	1998	1998	1998	1997	1997	1997	1997	1997	1997	1997	1997
MIN	24250	10470	12070	12360	12210	11580	24410	26130	28240	27680	25700	26750
(WY)	1993	1991	1991	1990	1991	1991	1991	1991	1991	1991	1993	1993

MISSOURI RIVER MAIN STEM

06601200 MISSOURI RIVER AT DECATUR, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1988 - 2000	
ANNUAL TOTAL	14628600		12195700			
ANNUAL MEAN	40080		33320		32930	
HIGHEST ANNUAL MEAN					57440	1997
LOWEST ANNUAL MEAN					21450	1991
HIGHEST DAILY MEAN	56600	Jul 22	48600	Oct 2	99900	Apr 15 1997
LOWEST DAILY MEAN	24300	Dec 22	18100	Feb 15	7130	Dec 22 1990
ANNUAL SEVEN-DAY MINIMUM	25200	Dec 21	18500	Feb 12	9660	Dec 12 1990
INSTANTANEOUS PEAK FLOW			49400	Jun 26	100000	Apr 15 1997
INSTANTANEOUS PEAK STAGE			26.24	Jun 26	32.31	Jul 18 1996
ANNUAL RUNOFF (AC-FT)	29020000		24190000		23860000	
ANNUAL RUNOFF (CFSM)	.13		.11		.10	
ANNUAL RUNOFF (INCHES)	1.72		1.43		1.41	
10 PERCENT EXCEEDS	48800		47200		55300	
50 PERCENT EXCEEDS	42800		33400		31300	
90 PERCENT EXCEEDS	26700		19500		14300	

e Estimated



MISSOURI RIVER MAIN STEM

06610000 MISSOURI RIVER AT OMAHA, NE
(National stream-quality accounting network station)

LOCATION.--Lat 41°15'32", long 95°55'20", in SE¼ NW¼ sec.23, T.15 N., R.13 E., Douglas County, Hydrologic Unit 10230006, on right bank on left side of concrete floodwall, at foot of Douglas Street, 275 ft downstream from Interstate 480 Highway bridge in Omaha, and at mile 615.9.

DRAINAGE AREA.--322,800 mi^2, approximately. The 3,959 mi^2 in Great Divide basin are not included.

PERIOD OF RECORD.--September 1928 to current year. April 1872 to December 1899 (gage heights only) in reports of the Missouri River Commission and since January 1875, (gage heights only) in reports of the U.S. Weather Bureau.

REVISED RECORDS.--WSP 761: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 948.24 ft above sea level. See WSP 1730 for history of changes prior to Sept. 30, 1936. Oct. 1, 1936 to Sept. 30, 1982 at datum 10.00 ft higher.

REMARKS.--No estimated daily discharge, records good. Flow regulated by upstream main-stem reservoirs. Fort Randall Dam was completed in July 1952, with storage beginning in December 1952. Gavins Point Dam was completed in July 1955, with storage beginning in December 1955. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water quality data. U.S. Army Corps of Engineers rain gage and satellite data collection platform at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 396,000 ft^3/s Apr. 18, 1952, gage height, 40.20 ft, present datum; minimum, about 2,200 ft^3/s Jan. 6, 1937; minimum gage height, 6.85 ft, present datum, Feb. 5, 1989, result of freezeup.

COOPERATION.--Records provided by U.S. Geological Survey, Iowa District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51500	50400	48500	28400	23600	22900	32500	33900	41400	39000	36500	34000
2	51000	50300	48400	28300	23000	22700	32100	34500	40700	38800	36300	34700
3	51300	50000	48100	28200	22700	21800	31700	34800	40600	39400	36300	35900
4	51200	49800	48500	28100	22400	21900	31700	34300	39800	39300	36100	35400
5	50100	49400	47200	27700	21800	21500	32200	34500	39300	38800	34900	34900
6	49500	49000	44900	26900	21100	21400	32400	34700	39800	40500	35000	34700
7	48600	48700	42300	27400	20900	21400	32800	34800	39900	40100	35600	35000
8	48700	48700	39100	28300	21200	21700	32900	35400	39000	38900	34600	35100
9	49100	48900	36700	27800	21000	22000	33900	34900	39300	38200	34700	35200
10	48800	49100	34500	27600	21000	22300	34200	34500	38800	37900	36200	35800
11	48500	49500	32100	27600	20900	22600	33400	34000	38800	37800	35700	35900
12	48600	49900	29900	27300	20900	22100	33300	34400	39400	38000	35100	36000
13	49400	49500	28900	26700	20600	21900	33600	37400	39000	39700	35300	36100
14	49600	49600	28500	26800	20700	22200	33600	40000	39400	39300	35200	36200
15	49600	50000	28300	27100	20500	22300	33700	40300	42400	38000	34300	36300
16	50000	50100	28600	27400	20500	22000	34200	39600	43000	38200	34600	36100
17	49900	50500	28300	27700	21100	22100	34900	38900	40900	38900	34400	36000
18	49800	50600	27600	26400	21600	21900	35500	38700	40500	39200	34900	36000
19	49700	50800	27500	26600	21700	21600	33800	41200	40800	38200	35800	35800
20	49400	51100	27600	28000	21800	24100	33400	43300	40800	38100	35100	36300
21	49200	50600	27600	27000	22100	26900	34100	41400	40700	38700	35200	36900
22	49000	50100	26700	26200	22300	29800	34600	41600	40700	38000	35700	36700
23	49200	50600	26400	26800	22900	33100	34600	43200	39900	37500	35800	36800
24	49600	50700	27000	27500	23300	34300	33700	42900	40100	37600	35900	36900
25	49600	49700	27800	27200	24100	34000	33700	42500	40600	38200	35300	36100
26	49300	49500	28300	26300	23900	34000	34200	42400	48600	37700	35200	36000
27	49000	48400	27600	25800	23400	33600	34800	42400	52300	38400	35000	35200
28	50100	48400	27600	25100	23300	33200	35200	42500	41700	37400	35000	34400
29	50500	48300	27700	24700	23000	32900	34800	41700	40900	36900	34500	34600
30	50700	48400	28000	24800	---	32800	34200	40800	39900	36900	34500	34900
31	50500	---	28200	24200	---	32800	---	40900	---	36800	33800	---
TOTAL	1541000	1490600	1028400	835900	637300	799800	1009700	1196400	1229000	1190400	1092500	1069900
MEAN	49710	49690	33170	26960	21980	25800	33660	38590	40970	38400	35240	35660
MAX	51500	51100	48500	28400	24100	34300	35500	43300	52300	40500	36500	36900
MIN	48500	48300	26400	24200	20500	21400	31700	33900	38800	36800	33800	34000
AC-FT	3057000	2957000	2040000	1658000	1264000	1586000	2003000	2373000	2438000	2361000	2167000	2122000
CFSM	.15	.15	.10	.08	.07	.08	.10	.12	.13	.12	.11	.11
IN.	.18	.17	.12	.10	.07	.09	.12	.14	.14	.14	.13	.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2000, BY WATER YEAR (WY)

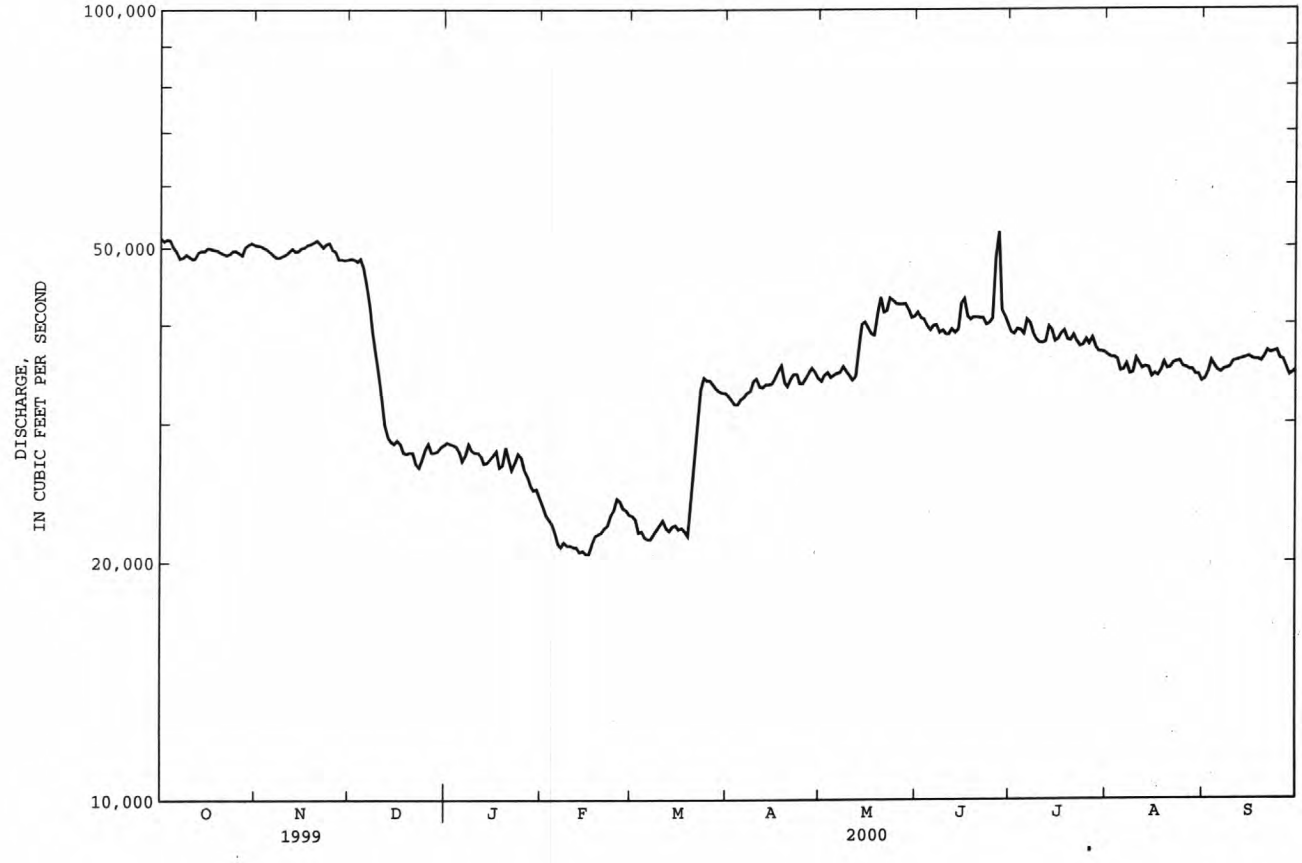
MEAN	38730	34300	21230	17810	19990	28220	38860	38680	42190	40840	39340	39290
MAX	74070	75040	44260	33250	40410	54660	93840	87620	76120	78560	68890	69770
(WY)	1998	1998	1998	1987	1997	1997	1997	1997	1997	1993	1997	1997
MIN	16920	8324	8296	8425	8162	10170	16480	26450	26890	27150	27280	28290
(WY)	1962	1962	1962	1964	1963	1957	1957	1961	1961	1958	1958	1958

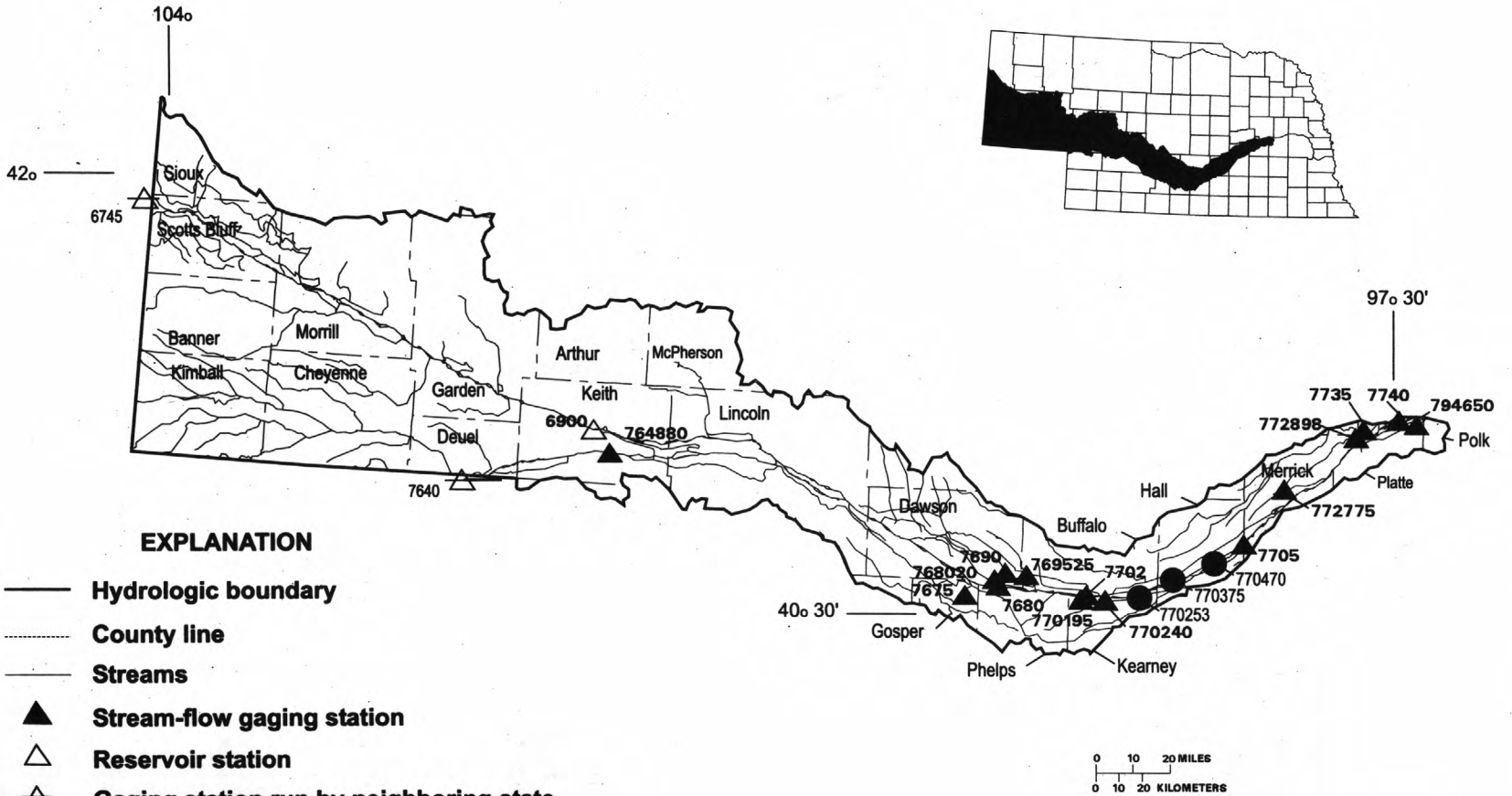
MISSOURI RIVER MAIN STEM

06610000 MISSOURI RIVER AT OMAHA, NE--Continued
(National stream-quality accounting network station)

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1953 - 2000a	
ANNUAL TOTAL	16425000		13120900			
ANNUAL MEAN	45000		35850		33330	
HIGHEST ANNUAL MEAN					62150	1997
LOWEST ANNUAL MEAN					20490	1957
HIGHEST DAILY MEAN	70900	Aug 7	52300	Jun 27	116000	Apr 4 1960
LOWEST DAILY MEAN	26400	Dec 23	20500	Feb 15b	2440	Dec 14 1961
ANNUAL SEVEN-DAY MINIMUM	27200	Dec 18	20700	Feb 10	4300	Nov 28 1955
INSTANTANEOUS PEAK FLOW			56600	Jun 27	120000	Apr 1 1960
INSTANTANEOUS PEAK STAGE			21.13	Jun 27	30.26	Jul 10 1993
INSTANTANEOUS LOW FLOW			20400	Feb 16		
ANNUAL RUNOFF (AC-FT)	32580000		26030000		24150000	
ANNUAL RUNOFF (CFSM)	.14		.11		.10	
ANNUAL RUNOFF (INCHES)	1.89		1.51		1.40	
10 PERCENT EXCEEDS	55700		49500		52900	
50 PERCENT EXCEEDS	48400		35300		32700	
90 PERCENT EXCEEDS	29600		22700		13600	

a Post regulation.
b Also Feb. 16.





EXPLANATION

- **Hydrologic boundary**
- **County line**
- **Streams**
- **Stream-flow gaging station**
- **Reservoir station**
- **Gaging station run by neighboring state**
- **Water-quality station only**
- **Stage-only station**

NOTE: To change abbreviated station number to complete station number, prefix with "06" and add zero's required to give eight digits.

*Station number	Station name	Page
6745	North Platte River at Wyoming-Nebraska State Line	76
6900	Lake McConaughy near Keystone	78
7640	South Platte River at Julesburg, CO	80
764880	South Platte River at Roscoe	82
7675	Plum Creek near Smithfield	84
7680	Platte River near Overton	86
768020	Spring Creek near Overton	90
7690	Buffalo Creek near Overton	92
769525	Elm Creek near Elm Creek	94
770195	North Dry Creek 2 mi SW of Platte River bridge S of Kearney	96
7702	Platte River near Kearney	98
770240	Fort Kearney Slough near Newark	100
770253	Platte River near Newark	102
770375	Platte River near Prosser	103
770470	Platte River near Doniphan	104
7705	Platte River near Grand Island	106
772775	Warm Slough near Central City	108
772898	Silver Creek at Mile 4 near Silver Creek	110
7735	Prairie Creek near Silver Creek	112
7740	Platte River near Duncan	114
794650	Clear Creek 1.75 mi W of Polk County Line (Record listed in Lower Platte River Basin)*	146

* NOTE: To change abbreviated station number to complete station number, prefix with "06" and add zeros required to give eight digits.

PLATTE RIVER BASIN

06674500 NORTH PLATTE RIVER AT WYOMING-NEBRASKA STATE LINE

LOCATION.--Lat 41°59'19", long 104°03'10", in SE¼ SE¼ SE¼ sec.3, T.23 N., R.60 W., Goshen County, 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, of which 1,929 mi^2 probably is non-contributing.

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

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

GAGE.--Water-stage recorder. Sheet-piling control since Mar. 9, 1994. Datum of gage is 4,025 ft above sea level, from topographic map. Prior to Nov. 6, 1929, non-recording gage and Nov. 6, 1929, to Sept. 30, 1959, water-stage recorder at site 0.2 mi upstream at different datum. Oct. 7, 1959 to Feb. 22, 1972 water-stage recorder at site 0.2 mi upstream at different datum. Feb. 22, 1972 to Mar. 9, 1994, water-stage recorder at site 0.3 mi downstream at different datum.

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. U.S. Army Corps of Engineers data collection platform with satellite telemetry at station.

COOPERATION.--Records provided by U.S. Geological Survey, Wyoming District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

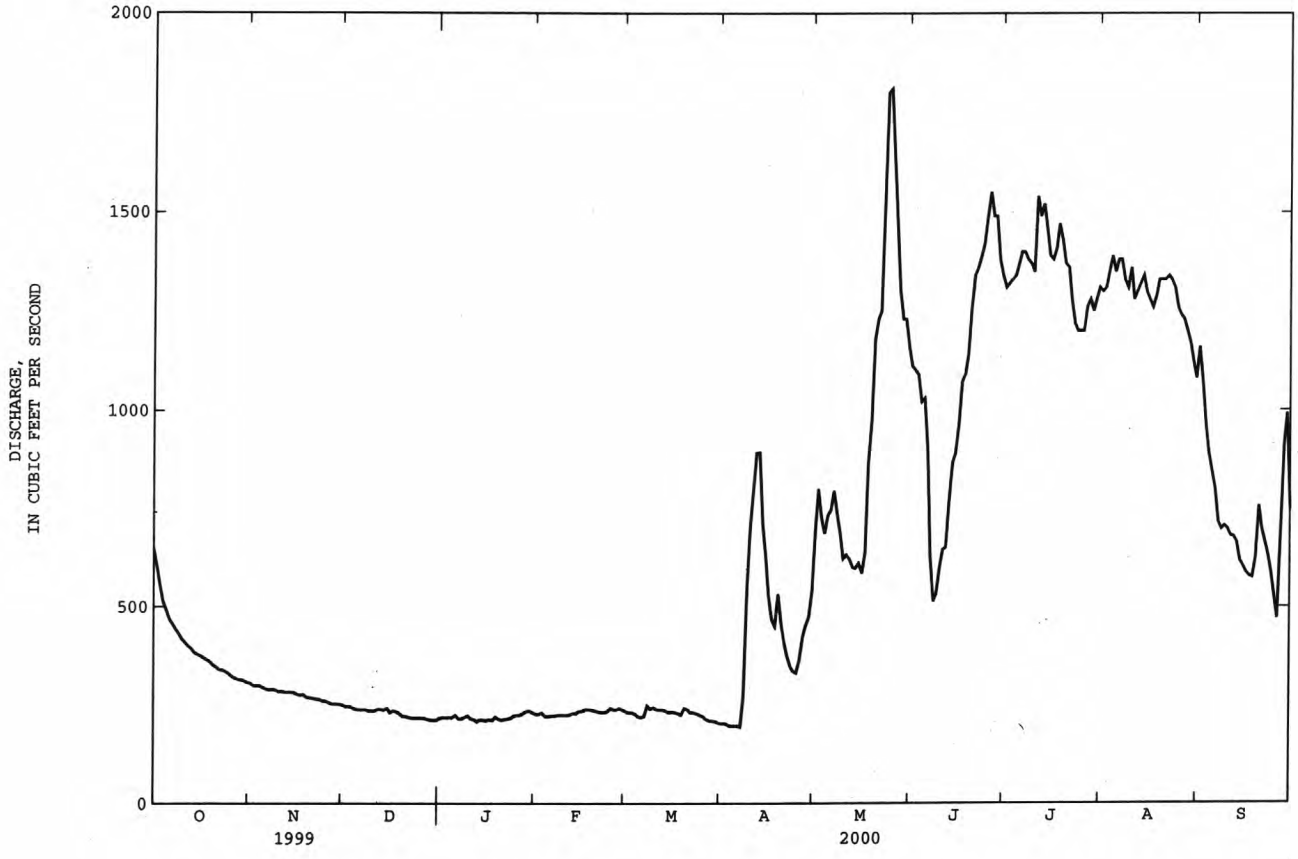
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	647	307	250	217	228	234	204	693	1110	1310	1300	1160
2	601	301	247	220	228	232	204	799	1100	1320	1310	1070
3	551	300	247	219	231	232	200	726	1090	1330	1350	959
4	513	300	243	e220	222	229	198	687	1020	1340	1390	889
5	490	295	240	219	222	222	198	732	1030	1370	1350	842
6	468	292	239	225	224	220	198	744	894	1400	1380	798
7	456	290	239	216	224	222	195	794	625	1400	1380	716
8	444	291	239	216	225	250	271	737	514	1380	1330	698
9	432	289	236	220	225	241	542	686	535	1370	1310	706
10	418	285	236	224	225	245	701	621	600	1350	1360	699
11	410	286	236	216	225	240	798	632	645	1540	1280	681
12	402	284	240	214	226	239	891	621	650	1490	1300	679
13	395	284	240	208	230	239	892	599	771	1520	1320	666
14	385	284	238	213	229	237	713	598	865	1460	1340	619
15	379	283	242	213	235	232	627	610	888	1390	1300	604
16	376	278	232	211	235	234	527	585	960	1380	1280	587
17	371	276	236	214	240	232	469	638	1070	1410	1260	578
18	366	278	234	212	240	230	451	865	1090	1470	1290	574
19	361	271	229	221	239	225	532	972	1140	1430	1330	624
20	353	269	223	215	237	242	464	1180	1260	1370	1330	756
21	348	268	222	213	234	240	412	1230	1340	1360	1330	700
22	341	267	220	215	233	232	376	1250	1360	1280	1340	665
23	340	265	218	216	233	232	350	1460	1390	1220	1330	632
24	336	262	218	218	234	229	337	1800	1420	1200	1310	585
25	331	261	218	224	242	225	332	1810	1490	1200	1260	529
26	324	258	218	225	240	223	365	1650	1550	1200	1240	470
27	319	254	217	225	239	215	422	1450	1490	1260	1230	643
28	316	254	215	230	242	211	451	1300	1490	1280	1200	916
29	315	254	213	235	238	211	473	1230	1380	1250	1170	992
30	312	253	212	236	---	209	540	1230	1340	1280	1120	747
31	308	---	212	231	---	205	---	1160	---	1310	1080	---
TOTAL	12408	8339	7149	6801	6725	7109	13333	30089	32107	41870	40100	21784
MEAN	400	278	231	219	232	229	444	971	1070	1351	1294	726
MAX	647	307	250	236	242	250	892	1810	1550	1540	1390	1160
MIN	308	253	212	208	222	205	195	585	514	1200	1080	470
AC-FT	24610	16540	14180	13490	13340	14100	26450	59680	63680	83050	79540	43210
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2000, BY WATER YEAR (WY)												
MEAN	507	422	373	331	336	509	668	1202	1694	1552	1269	866
MAX	1666	1454	895	751	1063	4202	4407	7226	10360	7170	5751	4766
(WY)	1987	1987	1930	1930	1984	1974	1974	1971	1929	1983	1983	1983
MIN	150	174	191	166	148	141	141	43.9	49.1	611	154	230
(WY)	1957	1935	1991	1993	1993	1991	1991	1990	1992	1934	1934	1934

PLATTE RIVER BASIN

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

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1929 - 2000	
ANNUAL TOTAL	469262		227814		--	
ANNUAL MEAN	1286		622		795	
HIGHEST ANNUAL MEAN	--		--		2863	1984
LOWEST ANNUAL MEAN	--		--		388	1992
HIGHEST DAILY MEAN	4350	Jul 3	1810	May 25	17600	Jun 2 1929
LOWEST DAILY MEAN	160	Jan 3	195	Apr 7	3.9	May 13 1992
ANNUAL SEVEN-DAY MINIMUM	184	Mar 25	200	Apr 1	4.4	Jun 20 1992
INSTANTANEOUS PEAK FLOW	--		1910	May 24	*17900	Jun 2 1929
INSTANTANEOUS PEAK STAGE	--		3.55	May 24	**7.04	Jun 2 1929
ANNUAL RUNOFF (AC-FT)	930800		451900		575600	
10 PERCENT EXCEEDS	3980		1340		1470	
50 PERCENT EXCEEDS	490		390		488	
90 PERCENT EXCEEDS	203		218		210	

* Maximum observed.
** Site and datum then in use.
e Estimated.



06690000 LAKE MCCONAUGHY NEAR KEYSTONE, NE

LOCATION.--Lat 41°12'45", long 101°40'03", in NW$^1/_4$ SW$^1/_4$ sec.3, T.14 N., R.38 W., Keith County, Hydrologic Unit 10180014, near right bank at outlet tower of Kingsley Dam on North Platte River, 4.5 mi west of Keystone, and at mile 55.8.

DRAINAGE AREA.--29,300 mi^2, approximately, of which about 25,800 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--February 1941 to current year.

GAGE.--Electric tape gage read once daily. Datum of gage is sea level.

REMARKS.--Reservoir is formed by earthfill dam; storage began Feb. 9, 1941. Capacity, 1,900,600 acre-ft (capacity table: Mar. 1, 1987) between elevations 3,130.0 ft, sill of outlet gates, and 3,270.0 ft, top of morning-glory spillway gates. Elevation of crest of morning-glory spillway is 3,254.0 ft. Dead storage negligible. Figures given herein represent total contents. Water is used for power development and irrigation in South-Central Nebraska by the Central Nebraska Public Power and Irrigation District.

COOPERATION.--Records of elevations and capacity table furnished by the Central Nebraska Public Power and Irrigation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 1,920,000 acre-ft July 12-16, 1971, elevation, 3,269.1 ft (capacity table, March 1946); minimum observed since reservoir filled to at least 25 percent capacity (April 1942), 383,600 acre-ft Oct. 17-19, 1956; elevation, 3,198.2 ft. (capacity table, March 1946).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 1,568,000 acre-ft Oct. 4-6, elevation, 3,259.1 ft; minimum observed, 876,000 acre-ft Sept. 15, elevation, 3,230.0 ft.

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date		*Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep	30	3,259.2	1,571,000	--
Oct.	31	3,258.3	1,546,000	-25,000
Nov.	30	3,257.4	1,520,000	-26,000
Dec.	31	3,257.2	1,515,000	-5,000
CAL YR 1999		--	--	+211,000
Jan.	31	3,257.0	1,509,000	-6,000
Feb.	29	3,257.0	1,509,000	0
Mar.	31	3,257.3	1,518,000	+9,000
Apr.	30	3,255.8	1,476,000	-42,000
May	31	3,254.4	1,438,000	-38,000
June	30	3,248.1	1,276,000	-162,000
July	31	3,239.1	1,067,000	-209,000
Aug.	31	3,230.6	888,000	-179,000
Sept.	30	3,231.2	900,000	+12,000
WTR YR 2000		--	--	-671,000

*Elevations read on or near last day of month.

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PLATTE RIVER BASIN

06764000 SOUTH PLATTE RIVER AT JULESBURG, CO

LOCATION.--Lat 40°58'46", long 102°15'15", in NW ¼ NE ¼ and NE ¼ SE ¼ (two channels) sec.33, T.12 N., R.44 W., Sedgwick County, Hydrologic Unit 10190018, on left bank of channel 4 (left channel) 215 ft downstream from bridge, and on right bank of channel 2, 5 ft downstream from bridge on U.S. Highway 385, and on left bank of channel 1, 5 ft upstream from bridge on U.S. Highway 385, 0.9 mi southeast of Julesburg, 3.0 mi upstream from Colorado-Nebraska State line, and 8 mi downstream from Lodgepole Creek.

DRAINAGE AREA.--23,193 mi^2.

PERIOD OF RECORD.--April 1902 to current year. Monthly discharge only for some periods, published in WSP 1310. Published as "near Julesburg" 1903-8, 1915-16, and as "at Ovid" 1922-24.

REVISED RECORDS.--WSP 1310: 1902, 1906-7, 1948(P). WSP 1440: 1903-4. WDR CO-86-1: Drainage area.

GAGE.--Three water-stage recorders with satellite telemetry. Datum of gages is 3,446.76 ft above sea level. See WSP 1710 or 1730 for history of changes prior to Oct. 1, 1956. Since Oct. 1, 1956, water-stage recorders on channels nos. 2 and 4. Channel no. 2: Oct. 1, 1956, to Sept. 22, 1965, at site 300 ft downstream at present datum. Channel no. 4: Oct. 1, 1956, to Dec. 10, 1958, at site 135 ft downstream at present datum. Since May 11, 1973, supplementary water-stage recorder on channel no. 2 at bridge 800 ft upstream at same datum. Since Aug. 16, 1996, water-stage recorder on channel no. 1; satellite telemetry installed Oct. 24, 1996.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation of 1,200,000 acres upstream from station, and return flow from irrigated areas.

COOPERATION.--Records provided by U.S. Geological Survey, Colorado District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1550	762	780	e1470	1030	774	916	319	202	25	18	34
2	1700	746	784	e1360	1010	788	859	252	192	23	25	38
3	1630	733	774	e1390	1040	770	814	275	119	19	20	35
4	1410	743	737	e1390	1210	766	766	296	102	22	18	42
5	1340	753	882	e1380	1280	800	912	262	99	24	19	48
6	1260	777	1100	e1410	1320	804	1010	264	87	28	29	60
7	1190	785	1110	e1420	1320	858	955	226	68	27	31	125
8	1170	786	1150	e1420	1330	1210	823	198	60	25	22	162
9	1110	787	1140	e1400	1320	1290	709	190	54	29	16	132
10	1050	790	1140	e1360	1320	1130	667	167	46	28	14	91
11	981	781	1140	e1350	1370	1060	644	143	43	30	14	73
12	911	760	1120	e1350	1370	1070	660	146	44	33	13	75
13	808	736	1150	e1310	1310	1060	621	140	36	39	12	77
14	747	718	1170	e1280	1300	1030	547	136	33	26	14	86
15	737	712	1150	e1260	1300	1010	516	135	36	21	14	67
16	730	703	1110	e1230	1310	968	500	138	36	16	19	56
17	713	684	1110	e1230	1350	955	477	129	48	21	161	47
18	688	686	1130	e1200	1350	952	457	122	44	21	64	39
19	673	661	1180	e1160	1350	878	453	117	42	23	37	35
20	673	652	1290	e1110	1330	856	373	103	39	28	29	46
21	704	636	1380	1070	1290	888	313	133	31	31	31	20
22	753	646	1380	1080	1300	882	250	291	30	23	25	17
23	792	676	1410	1050	1300	862	218	254	32	20	34	32
24	807	699	1410	1030	1160	856	239	124	26	17	33	64
25	811	731	1400	1030	938	862	219	96	19	17	21	66
26	842	760	1420	1020	836	922	183	83	22	17	17	96
27	859	843	1510	1010	766	951	149	73	27	17	17	139
28	828	847	e1560	1040	758	955	142	68	28	23	14	129
29	834	837	e1610	1050	768	937	139	72	28	24	13	95
30	795	802	e1590	1010	---	934	327	84	34	22	18	78
31	779	---	e1570	1000	---	949	---	164	---	20	32	---
TOTAL	29875	22232	37387	37870	34636	29027	15858	5200	1707	739	844	2104
MEAN	964	741	1206	1222	1194	936	529	168	56.9	23.8	27.2	70.1
MAX	1700	847	1610	1470	1370	1290	1010	319	202	39	161	162
MIN	673	636	737	1000	758	766	139	68	19	16	12	17
AC-FT	59260	44100	74160	75120	68700	57580	31450	10310	3390	1470	1670	4170

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1902 - 2000, BY WATER YEAR (WY)

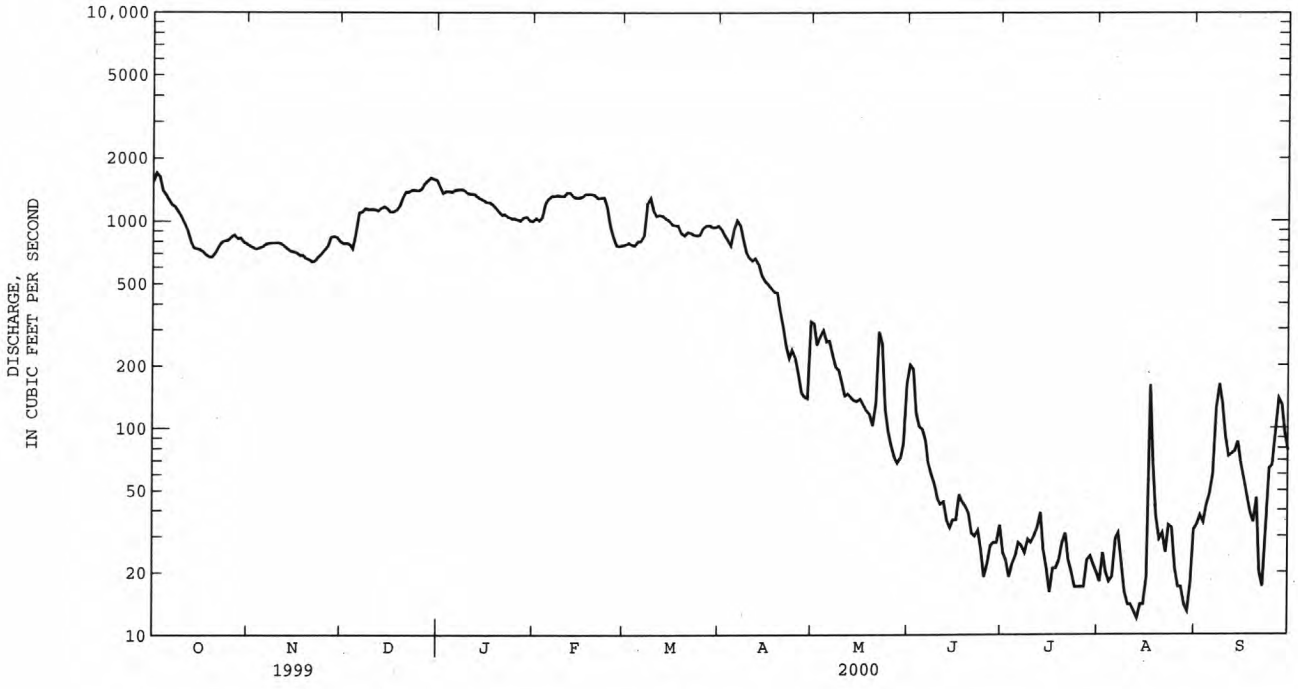
MEAN	321	361	422	539	620	563	556	1080	1518	311	191	253
MAX	2427	2358	1371	1571	1864	2200	2808	9922	12200	5059	1882	1964
(WY)	1985	1985	1985	1998	1930	1939	1983	1980	1983	1983	1997	1984
MIN	5.85	23.0	18.8	89.9	78.9	56.9	17.3	24.1	8.33	2.15	2.52	5.60
(WY)	1904	1911	1912	1965	1935	1904	1904	1911	1910	1903	1902	1903

PLATTE RIVER BASIN

06764000 SOUTH PLATTE RIVER AT JULESBURG, CO--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1902 - 2000	
ANNUAL TOTAL	536355		217479			
ANNUAL MEAN	1469		594		565	
HIGHEST ANNUAL MEAN					2882	1983
LOWEST ANNUAL MEAN					76.3	1956
HIGHEST DAILY MEAN	14100	May 6	1700	Oct 2	30800	Jun 16 1921
LOWEST DAILY MEAN	101	Apr 19	12	Aug 13	*.00	Aug 18 1902
ANNUAL SEVEN-DAY MINIMUM	133	Jul 13	14	Aug 9	.00	Jul 25 1903
INSTANTANEOUS PEAK FLOW			1790	Oct 2	37600	Jun 20 1965
INSTANTANEOUS PEAK STAGE			**5.54	Oct 2	***10.44	Jun 20 1965
ANNUAL RUNOFF (AC-FT)	1064000		431400		409100	
10 PERCENT EXCEEDS	3970		1320		1180	
50 PERCENT EXCEEDS	785		687		238	
90 PERCENT EXCEEDS	283		23		29	

e Estimated.
* Also occurred Aug. 19-20, 1902, and Jul. 25 to Aug. 7, 1903.
** Gage height recorded for channel #1.
*** Floodmarks in gage well.



PLATTE RIVER BASIN

06764880 SOUTH PLATTE RIVER AT ROSCOE, NE

LOCATION.--Lat 41°07'33" long 101°34'35", in NW ¼ SW ¼ sec.4, T.13 N., R.37 W., Keith County, Hydrologic Unit 10190018, on left bank 20 ft downstream from bridge on Highway L-51B connecting Interstate 80 and U.S. Highway 30, 0.5 mi southeast of Roscoe and at mile 54.1.

DRAINAGE AREA.--23,900 mi^2.

PERIOD OF RECORD.--October 1982 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,150 ft, from topographic map. Data collection platform at station.

REMARKS.--Record fair except for estimated periods, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1730	658	865	2150	1250	1060	1330	265	127	10	.00	.00
2	1740	589	844	1990	1300	1090	1320	344	174	10	.00	.00
3	1870	554	771	1780	1200	1120	1260	375	169	11	.00	.00
4	1620	512	672	1580	1260	1100	1230	358	129	10	.00	.00
5	1310	506	613	1620	1420	1130	1320	345	105	10	.00	.00
6	1180	556	858	1650	1500	1140	1440	332	93	9.6	.00	.00
7	1140	642	1140	1740	1520	1130	1400	280	89	7.5	.00	.00
8	1070	684	1220	1820	1610	1330	1310	266	69	6.2	.15	.00
9	1060	725	1260	1860	1670	1660	1310	250	60	16	2.0	.00
10	1090	751	1280	1760	1710	1740	1330	213	49	4.9	.02	.06
11	1120	749	1410	1640	1800	1590	1330	173	41	3.8	.00	.65
12	1080	703	1460	1620	1930	1520	1340	175	35	2.8	.00	1.2
13	972	625	1500	1580	1930	1480	1380	294	38	2.7	.00	3.8
14	894	566	1550	1580	1900	1420	1300	468	31	1.5	.00	9.9
15	844	516	1460	1640	1910	1260	1060	306	27	.92	.00	19
16	e850	499	1340	1590	1840	1100	1060	133	25	1.0	.00	20
17	e850	508	1240	1640	1760	1020	860	162	24	.64	.00	15
18	e840	499	1200	1600	1690	979	712	152	26	.58	.00	12
19	e840	490	1300	1520	1660	943	613	152	28	.43	12	20
20	e840	476	1490	1400	1680	838	563	140	20	.21	.75	50
21	e830	470	1700	1360	1670	862	449	119	15	2.6	.04	45
22	e830	440	1850	1320	1610	1000	276	123	13	2.4	.00	53
23	e830	421	1880	1200	1590	1030	204	186	14	5.8	.00	40
24	e840	363	1920	1180	1550	1010	226	229	14	7.5	.00	47
25	e840	429	1850	1250	1270	997	246	167	12	2.4	.00	67
26	817	561	1770	1350	972	1080	250	158	12	.00	.00	88
27	838	611	1740	1400	903	1190	241	142	12	1.9	.00	58
28	852	688	1780	1340	940	1180	240	109	14	5.6	.00	40
29	850	731	1910	1370	1020	1140	198	101	11	.79	.00	28
30	809	827	2010	1420	---	1160	197	94	11	.25	.00	35
31	734	---	2090	1300	---	1230	---	110	---	.05	.00	---
TOTAL	32010	17349	43973	48250	44065	36529	25995	6721	1487	139.07	14.96	652.61
MEAN	1033	578	1418	1556	1519	1178	866	217	49.6	4.49	.48	21.8
MAX	1870	827	2090	2150	1930	1740	1440	468	174	16	12	88
MIN	734	363	613	1180	903	838	197	94	11	.00	.00	.00
AC-FT	63490	34410	87220	95700	87400	72460	51560	13330	2950	276	30	1290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2000, BY WATER YEAR (WY)

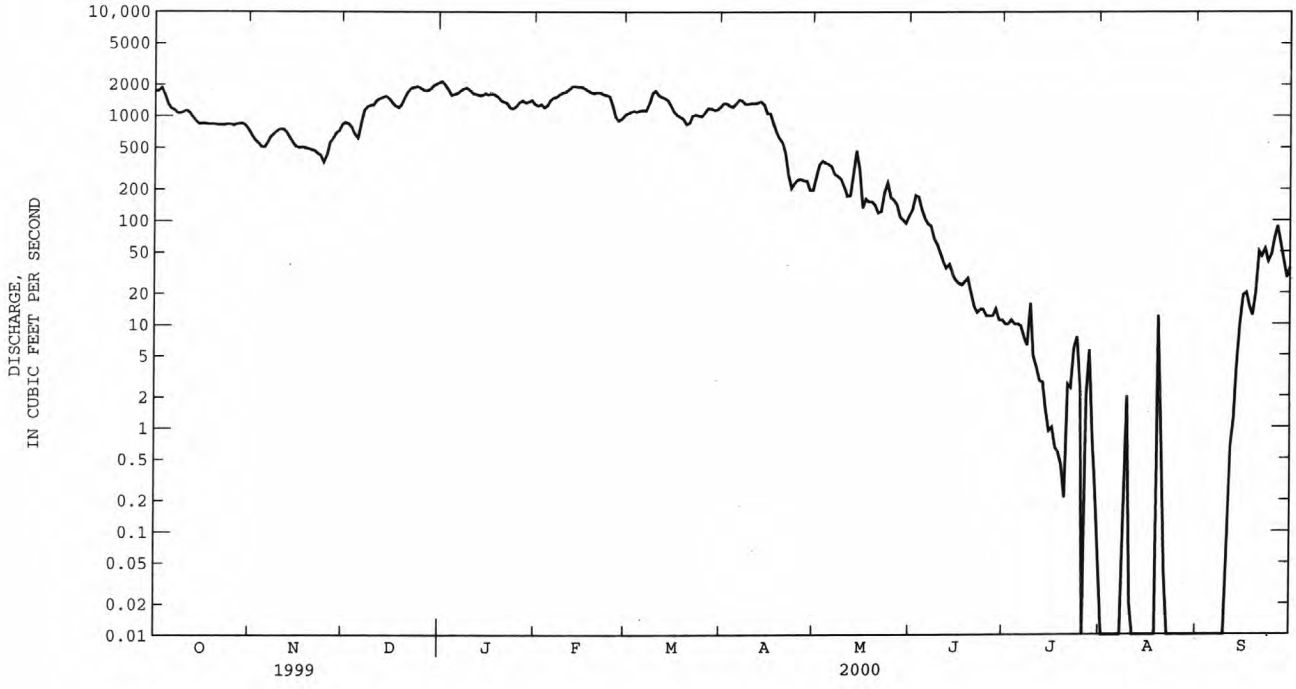
MEAN	611	506	613	953	1133	867	890	1552	2893	798	387	586
MAX	2392	2183	1418	1867	2280	1519	2767	7044	13800	6081	1924	2189
(WY)	1985	1985	2000	1998	1984	1987	1984	1983	1995	1995	1997	1996
MIN	96.9	77.5	98.5	145	455	273	199	76.7	49.6	4.49	.48	.12
(WY)	1995	1995	1990	1995	1995	1995	1989	1992	2000	2000	2000	1994

PLATTE RIVER BASIN

06764880 SOUTH PLATTE RIVER AT ROSCOE, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1983 - 2000	
ANNUAL TOTAL	586498		257185.64			
ANNUAL MEAN	1607		703		979	
HIGHEST ANNUAL MEAN					2941	1983
LOWEST ANNUAL MEAN					281	1994
HIGHEST DAILY MEAN	14100	May 7	2150	Jan 1	18100	Jun 6 1995
LOWEST DAILY MEAN	110	Aug 1	.00	Jul 26	.00	Sep 11 1994
ANNUAL SEVEN-DAY MINIMUM	150	Jul 27	.00	Aug 1	.00	Sep 11 1994
INSTANTANEOUS PEAK FLOW			2250	Jan 1	20100	Jun 6 1995
INSTANTANEOUS PEAK STAGE			5.89	Jan 1	11.29	Jun 6 1995
ANNUAL RUNOFF (AC-FT)	1163000		510100		709000	
10 PERCENT EXCEEDS	4330		1650		1970	
50 PERCENT EXCEEDS	852		612		450	
90 PERCENT EXCEEDS	286		.03		45	

e Estimated.



PLATTE RIVER BASIN

06767500 PLUM CREEK NEAR SMITHFIELD, NE

LOCATION.--Lat 40°38'30", long 099°42'37", in SE ¼ SW ¼ sec.21, T. 8 N., R. 21 W., Gosper County, Hydrologic Unit 10200101, on left bank 15 ft downstream from bridge on county road, 4.8 mi north and 1.4 mi east of Smithfield.

DRAINAGE AREA.--224 mi^2.

PERIOD OF RECORD.--June 1946 to September 1953, October 1968 to September 1975. Annual maximum, 1954-1968, 1978, at site 1.5 mi downstream at different datum. Continuous record collected September 1980 to January 1992 by Nebraska Department of Water Resources. April 1996 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,400.00 ft, above sea level, from topographic map. Data collection platform at station.

REMARKS.--Records good except for estimated periods, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	17	16	17	20	19	19	33	17	18	15	15
2	15	17	16	17	20	19	19	23	17	16	15	14
3	17	17	16	17	20	19	19	21	17	24	15	14
4	16	18	16	18	20	22	19	20	17	134	15	13
5	16	18	17	19	20	21	19	20	16	60	15	13
6	16	18	16	19	19	20	19	19	16	19	15	12
7	16	18	16	17	19	20	19	19	16	16	15	11
8	16	18	16	17	19	24	18	23	16	16	14	11
9	17	18	16	17	19	28	18	26	16	16	14	11
10	17	18	16	17	19	21	19	21	16	18	15	11
11	16	18	16	17	19	20	18	20	16	50	15	11
12	16	18	16	18	20	19	18	20	15	20	14	11
13	16	18	16	18	20	19	18	18	15	18	15	9.9
14	16	18	15	17	20	19	19	18	15	17	15	11
15	17	18	15	17	20	19	19	18	15	17	15	9.8
16	17	18	15	18	19	19	19	18	15	18	14	9.6
17	17	18	15	18	19	18	20	18	15	19	13	9.6
18	16	18	14	18	19	18	20	18	15	21	14	9.4
19	17	18	14	18	20	19	20	18	21	20	15	9.4
20	17	17	15	18	19	21	20	18	24	18	15	9.7
21	17	17	15	18	19	20	19	18	20	18	16	11
22	17	17	e13	18	21	19	19	18	18	18	15	11
23	17	17	e14	18	23	19	19	18	18	18	15	11
24	17	17	e15	18	34	23	19	18	18	19	15	11
25	17	17	e16	18	27	23	19	17	17	19	15	12
26	17	17	17	18	26	21	19	18	16	16	15	12
27	17	17	17	18	21	20	19	21	16	16	16	11
28	17	17	17	20	20	20	18	19	16	18	17	11
29	17	16	17	20	19	19	18	18	16	18	16	11
30	18	16	17	20	---	19	20	17	18	17	15	11
31	17	---	17	20	---	19	---	17	---	16	15	---
TOTAL	514	524	487	558	600	626	568	608	503	748	463	337.4
MEAN	16.6	17.5	15.7	18.0	20.7	20.2	18.9	19.6	16.8	24.1	14.9	11.2
MAX	18	18	17	20	34	28	20	33	24	134	17	15
MIN	15	16	13	17	19	18	18	17	15	16	13	9.4
AC-FT	1020	1040	966	1110	1190	1240	1130	1210	998	1480	918	669

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2000, BY WATER YEAR (WY)

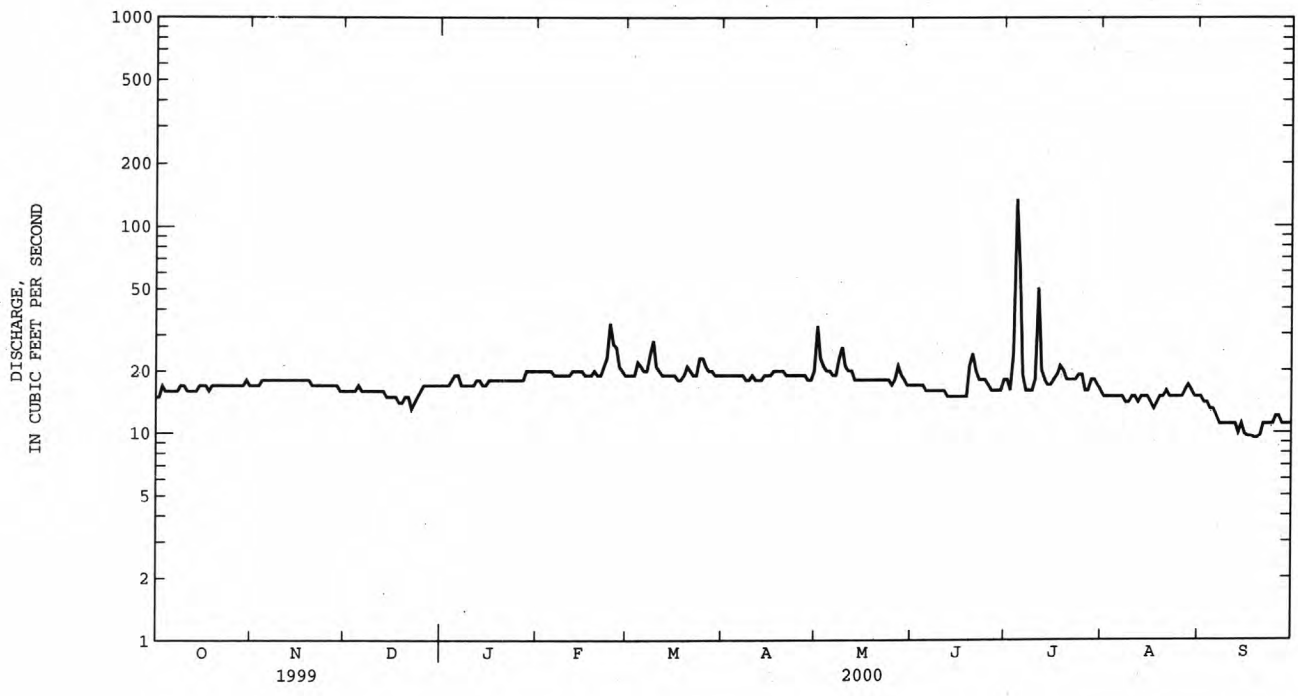
MEAN	10.9	3.81	3.33	3.39	6.29	9.51	4.88	8.69	36.6	9.72	6.49	7.01
MAX	130	17.5	15.7	18.0	20.7	55.6	21.3	26.0	179	52.7	23.1	49.5
(WY)	1947	2000	2000	2000	2000	1948	1999	1996	1947	1948	1996	1969
MIN	.000	.000	.000	.000	.000	.000	.000	.055	.000	.000	.000	.000
(WY)	1948	1948	1947	1947	1951	1951	1948	1970	1952	1953	1947	1952

PLATTE RIVER BASIN

06767500 PLUM CREEK NEAR SMITHFIELD, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS a	
ANNUAL TOTAL	7815.6		6536.4			
ANNUAL MEAN	21.4		17.9		8.99	
HIGHEST ANNUAL MEAN					27.4	1947
LOWEST ANNUAL MEAN					.099	1953
HIGHEST DAILY MEAN	230	Jun 12	134	Jul 4	1850	Jun 23 1947
LOWEST DAILY MEAN	5.1	Jan 3	9.4	Sep 18	.00	Jul 13 1946
ANNUAL SEVEN-DAY MINIMUM	9.6	Jan 1	9.8	Sep 14	.00	Jul 21 1946
INSTANTANEOUS PEAK FLOW			175	Jul 4	2800	Jun 23 1947
INSTANTANEOUS PEAK STAGE			7.80	Jul 4	*23.41	Jun 23 1947
ANNUAL RUNOFF (AC-FT)	15500		12960		6520	
10 PERCENT EXCEEDS	23		20		18	
50 PERCENT EXCEEDS	18		18		.15	
90 PERCENT EXCEEDS	14		14		.00	

e Estimated.
a Water years 1947-53, 1969-75, 1997-2000.
* Site and datum then in use.



PLATTE RIVER BASIN

06768000 PLATTE RIVER NEAR OVERTON, NE

LOCATION.--Lat 40°40'57", long 099°32'27", in NE ¼ NW ¼ sec.12, T.8 N., R.20 W., Dawson County, Hydrologic Unit 10200101, on left bank 25 ft upstream from county highway bridge, 4 mi south of Overton, 4 mi downstream from Plum Creek and at mile 142.

DRAINAGE AREA.--56,300 mi^2, of which about 51,620 mi^2 contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July to September 1914 (gage heights only), October 1914 to 1994, October 1997 to September 1998. Monthly discharge only for some periods, published in WSP 1310. Published as "near Elm Creek" 1914-15.

REVISED RECORDS.--WDR NE-67, WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,297.83 ft above sea level. July 1914 to October 1917, nonrecording gages at site 8 mi downstream at different datum. June 1918 to Sept. 12, 1928, nonrecording gage at present site (south channel only) at datum 4.0 ft higher. Sept. 13, 1928 to Sept. 30, 1930, nonrecording gage and Oct. 1, 1930 to Sept. 30, 1968, water-stage recorder, at present site (south channel only) at datum 2.0 ft higher. Oct. 1, 1968 to Feb. 3, 1976, water-stage recorder on south channel at present site at datum 2.0 ft higher, and Feb. 4 to June 2, 1976 (south channel gage discontinued), at datum 1.0 ft higher. Oct. 1, 1968 to July 10, 1974, north channel gage at present site at datum 2.0 ft higher and July 11, 1974 to June 1, 1976, at datum 1.0 ft higher. June 2, 1976 to Aug. 19, 1984, at site 600 ft downstream, at datum 1.0 ft higher. Aug. 20, 1984 to Oct. 6, 1986, at site 600 ft downstream. Data collection platform at station.

REMARKS.--Records fair except for period of estimated record, which is poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

EXTREMES OUTSIDE REGULATED PERIOD.-- Maximum discharge 37,600 ft^3/s, June 5, 1935, gage height, 6.25 ft., south channel, datum then in use; no flow at times in 1919, 1922, 1925, 1927-28, 1930-41.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4380	2740	2600	3180	1700	2840	2030	2030	1340	806	906	590
2	4180	2650	2660	3370	2890	2810	2100	1870	1280	696	822	665
3	4130	2720	2600	3250	3530	2830	2100	1960	1310	751	820	723
4	4110	2730	2570	2040	3680	2800	2020	1930	1300	2440	848	743
5	4240	2700	2480	3210	3730	2760	2080	1710	1320	2540	818	796
6	4250	2710	2410	3380	3650	2680	2140	1560	1370	1870	785	942
7	3930	2820	2470	3650	2480	2670	2090	1570	1400	1580	747	564
8	3770	2820	2500	3750	2950	2590	2130	1730	1330	1240	727	1030
9	3670	2850	2590	3730	3010	2460	2330	1570	1230	1060	702	1060
10	3490	2840	2710	3670	3020	2160	2470	1660	1090	774	687	1040
11	2160	2660	2620	3510	3140	2480	2490	1900	1050	740	705	988
12	2370	2780	2450	3240	3200	2750	2470	1740	973	610	752	824
13	3140	2900	2530	2920	3150	2850	2460	1410	891	612	782	789
14	3160	2780	2650	3080	3130	2460	2420	1260	904	591	808	771
15	3050	2730	2610	3120	3230	2100	2260	1180	859	602	734	673
16	2840	2670	2620	3020	2800	1980	2250	1160	794	571	653	673
17	2740	2530	2580	3070	2570	1950	2230	1050	762	588	636	685
18	2720	2490	2820	3090	2510	2510	2130	523	862	623	628	659
19	2630	2470	3000	3090	2650	2700	1910	583	1070	641	671	647
20	2700	2420	2630	2800	2900	2820	1960	1910	1470	664	744	670
21	2700	2380	2760	3080	2960	2820	1960	2170	1360	670	728	661
22	2720	2340	2760	3060	2970	2760	2030	1200	1350	694	651	752
23	2660	2300	3260	3070	2920	2220	2040	1020	1480	719	640	780
24	2600	2250	3800	3020	2730	2250	2110	930	1150	691	703	851
25	2640	2250	3640	2820	2820	2780	2090	1100	1040	592	683	619
26	2510	2330	3420	2870	2960	2830	2040	1460	922	713	656	925
27	2790	2350	3360	2770	3000	2840	2010	1530	711	783	687	891
28	2740	2380	3420	2710	3070	2820	1900	1410	563	1080	638	1050
29	2680	2420	3380	2550	2620	1560	1960	1380	605	1360	601	896
30	2720	2510	3250	2660	---	665	2070	1380	663	1330	605	1010
31	2740	---	3300	2840	---	1820	---	1440	---	1230	597	---
TOTAL	97160	77520	88450	95620	85970	76565	64280	45326	32449	29861	22164	23967
MEAN	3134	2584	2853	3085	2964	2470	2143	1462	1082	963	715	799
MAX	4380	2900	3800	3750	3730	2850	2490	2170	1480	2540	906	1060
MIN	2160	2250	2410	2040	1700	665	1900	523	563	571	597	564
AC-FT	192700	153800	175400	189700	170500	151900	127500	89900	64360	59230	43960	47540

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2000, BY WATER YEAR (WY)

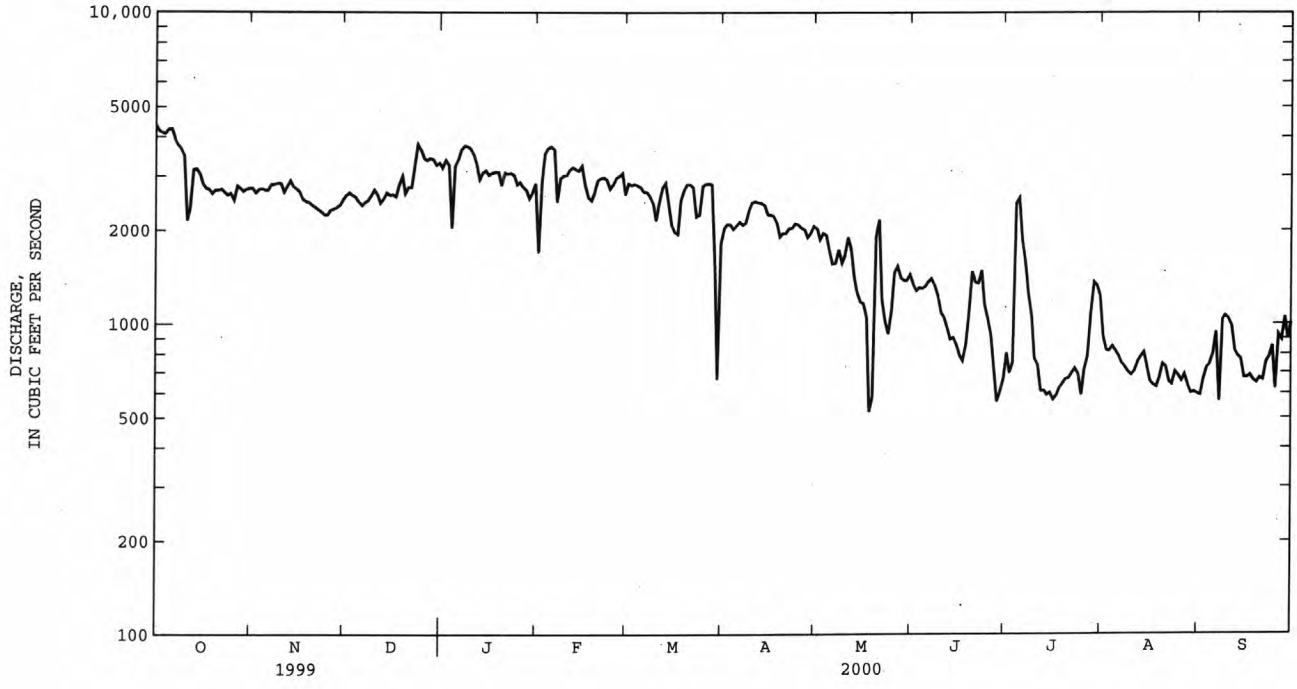
MEAN	1426	1496	1602	1682	1971	2119	1949	2217	2498	1089	730	1229
MAX	6330	5765	5012	4281	6730	7206	10050	12590	18970	11380	6635	8040
(WY)	1974	1985	1985	1984	1984	1984	1984	1984	1983	1983	1983	1983
MIN	75.1	169	156	336	474	665	519	171	232	159	83.7	54.9
(WY)	1942	1942	1942	1942	1942	1957	1967	1956	1959	1956	1956	1956

PLATTE RIVER BASIN

06768000 PLATTE RIVER NEAR OVERTON, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1942 - 2000a	
ANNUAL TOTAL	1037118		739332			
ANNUAL MEAN	2841		2020		1664	
MEDIAN OF ANNUAL MEANS					1250	
HIGHEST ANNUAL MEAN					5835	1983
LOWEST ANNUAL MEAN					558	1956
HIGHEST DAILY MEAN	12000	May 11	4380	Oct 1	22300	Jun 22 1983
LOWEST DAILY MEAN	510	Mar 23	523	May 18	2.0	Aug 31 1942
ANNUAL SEVEN-DAY MINIMUM	721	Jul 10	600	Jul 12	5.4	Aug 25 1942
INSTANTANEOUS PEAK FLOW			4480	Oct 1	*22900	Jun 28 1983
INSTANTANEOUS PEAK STAGE			3.59	Oct 1	**7.44	Jun 22 1983
ANNUAL RUNOFF (AC-FT)	2057000		1466000		1205000	
10 PERCENT EXCEEDS	4710		3170		3070	
50 PERCENT EXCEEDS	2490		2220		1210	
90 PERCENT EXCEEDS	1360		672		290	

a Since beginning of storage in Lake McConaughy.
* Stage 7.38 ft, current datum.
** Current datum.



WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952, 1958 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: January 1958 to September 1996.
WATER TEMPERATURES: January 1958 to September 1996.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,480 microsiemens May 15, 1966 (south chan.); minimum daily, 176 microsiemens June 25, 1989 (south chan.).
WATER TEMPERATURES: Maximum, 37.0°C June 13, 1959 (south chan.), July 9, 1960 (north chan.); minimum, 0.0°C on many days during winter periods.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
FEB												
24...	0930	2640	13.4	111	8.3	1060	9.0	3.5	10.8	93.5	201	41.6
MAY												
02...	1000	1890	10.0	105	8.2	947	20.5	14.0	12.6	88.4	179	37.2
AUG												
02...	1400	862	8.5	--	8.5	830	30.5	27.5	11.6	79.1	180	24.3
SEP												
13...	1000	800	6.0	72	8.4	815	25.0	20.0	11.1	85.0	170	25.4

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4) (71846)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3) (71851)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)
FEB											
24...	.5	20.7	288	.020	.03	2.86	12.7	2.87	.039	.012	.325
MAY											
02...	.5	16.8	257	<.020	--	1.32	5.82	1.33	.039	.012	.147
AUG											
02...	.5	22.8	201	<.020	--	--	--	.955	--	<.010	.120
SEP											
13...	.1	22.4	194	<.020	--	1.19	5.28	1.21	.039	.012	.212

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)
FEB											
24...	.122	.106	1.9	--	--	--	--	--	174	--	--
MAY											
02...	.056	.048	2.2	--	--	--	--	--	158	--	--
AUG											
02...	E.049	.039	1.1	--	--	--	--	--	135	--	--
SEP											
13...	.082	.069	1.3	1	<1	5.4	78	<1	136	<1.0	<.8

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
FEB											
24...	--	--	<10	--	4	--	--	--	--	--	--
MAY											
02...	--	--	<10	--	4	--	--	--	--	--	--
AUG											
02...	--	--	<10	--	5	--	--	--	--	--	--
SEP											
13...	<1	1	<10	<1	3	4	<1	E2.0	<1	2	19

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PLATTE RIVER BASIN

06768020 SPRING CREEK NEAR OVERTON, NE

LOCATION.--Lat 40°42'26", long 099°33'34", in SE ¼ SE ¼ , sec.35, T.9 N., R.20 W., Dawson County, Hydrologic Unit 10200101, on upstream side of county road bridge, 1.0 mi west and 2.5 mi south of Overton.

PERIOD OF RECORD.--April 1996 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,310 ft above sea level, from topographic map.

REMARKS.-- Records good except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	14	14	e11	e7.2	13	15	21	60	48	56	34
2	17	13	16	e10	e7.1	12	15	24	60	42	43	24
3	17	14	14	e8.0	e7.8	13	15	25	60	44	40	9.2
4	17	14	16	e7.0	e8.0	15	15	26	60	97	41	5.8
5	16	14	15	e8.0	e9.0	15	15	25	59	108	46	5.4
6	17	14	e14	e8.0	e10	14	16	24	58	94	45	4.7
7	17	14	14	e8.0	e11	14	15	25	55	79	39	4.3
8	22	14	14	e9.0	13	17	14	26	49	73	32	3.7
9	17	14	13	e10	13	19	15	29	45	74	33	3.2
10	16	13	e12	e11	13	18	15	31	44	81	36	2.7
11	16	13	e11	e11	e12	18	15	33	40	75	43	2.2
12	16	14	e11	e9.0	e11	17	15	32	40	60	41	2.0
13	16	13	e10	e10	e10	16	15	32	49	48	40	1.6
14	17	13	e10	e11	e10	16	16	34	61	52	42	1.6
15	16	13	e11	e10	e11	16	14	36	57	56	28	1.4
16	15	13	e10	e10	e12	15	15	36	47	57	17	1.2
17	15	13	e9.0	e10	14	15	16	37	46	81	25	.90
18	15	13	e8.0	e11	e14	14	16	37	65	77	21	.78
19	15	13	e7.4	e11	e13	15	16	37	62	76	23	.93
20	15	13	e6.8	e10	e14	16	16	36	57	69	26	2.6
21	15	13	e8.0	e11	e14	15	16	37	46	75	34	1.2
22	14	13	e9.0	e11	15	15	16	38	38	85	31	2.1
23	14	13	e10	e11	16	15	16	38	31	95	28	1.2
24	14	13	e10	e10	18	17	16	38	32	101	49	2.9
25	15	13	e10	e9.6	17	17	16	39	36	90	64	3.1
26	15	14	e11	e9.0	15	17	16	43	30	74	69	2.4
27	15	14	e11	e8.0	14	16	16	52	23	58	55	2.0
28	15	13	e11	e8.0	14	16	16	55	31	60	44	1.8
29	15	13	e11	e8.0	14	16	16	58	27	60	33	1.4
30	14	14	e10	e8.0	---	16	17	59	44	72	30	1.1
31	14	---	e11	e7.4	---	15	---	59	---	68	34	---
TOTAL	490	402	348.2	294.0	357.1	483	465	1122	1412	2229	1188	131.41
MEAN	15.8	13.4	11.2	9.48	12.3	15.6	15.5	36.2	47.1	71.9	38.3	4.38
MAX	22	14	16	11	18	19	17	59	65	108	69	34
MIN	14	13	6.8	7.0	7.1	12	14	21	23	42	17	.78
AC-FT	972	797	691	583	708	958	922	2230	2800	4420	2360	261

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

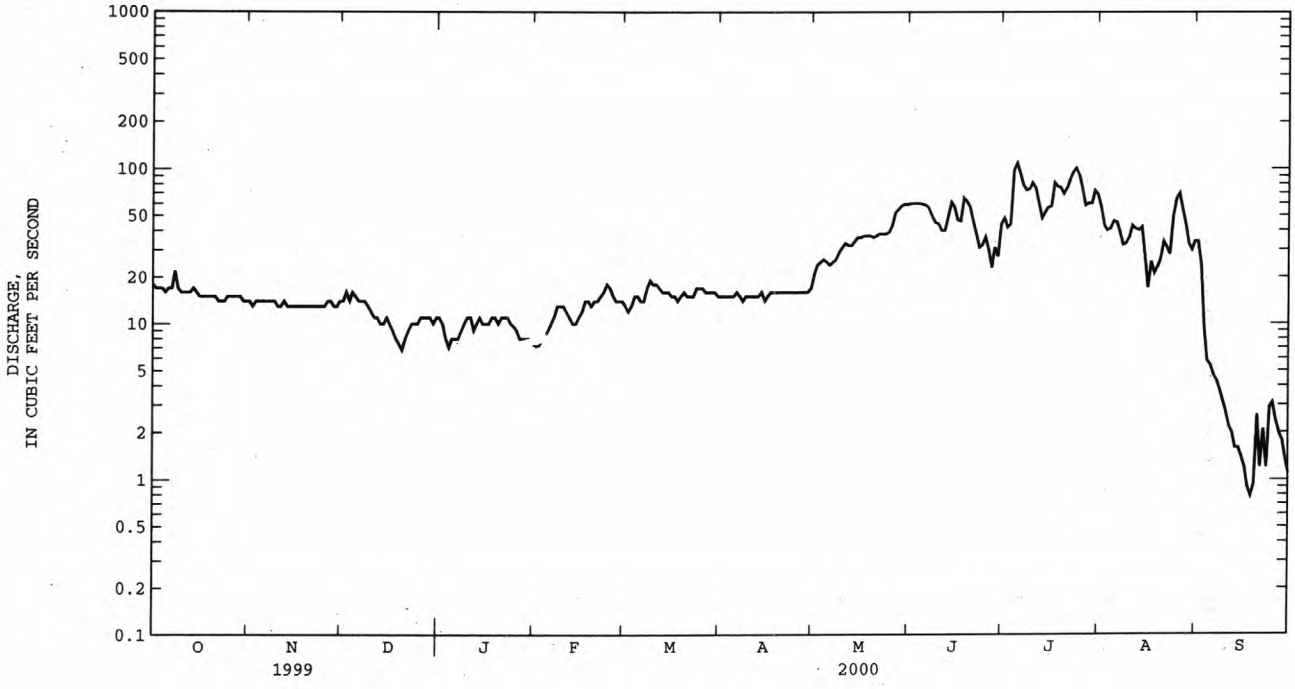
MEAN	18.6	18.7	15.1	14.6	16.9	16.5	18.6	32.2	65.2	73.3	111	34.0
MAX	26.8	24.7	20.6	21.4	25.1	22.2	20.9	45.9	117	98.4	162	70.8
(WY)	1997	1997	1997	1997	1997	1997	1997	1999	1999	1999	1999	1996
MIN	9.18	13.4	9.57	6.99	9.56	9.96	15.5	20.2	33.0	35.8	38.3	4.38
(WY)	1999	2000	1999	1999	1999	1999	2000	1996	1997	1997	2000	2000

PLATTE RIVER BASIN

06768020 SPRING CREEK NEAR OVERTON, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL TOTAL	16811.4		8921.71			
ANNUAL MEAN	46.1		24.4		35.5	
HIGHEST ANNUAL MEAN					45.4	1999
LOWEST ANNUAL MEAN					24.4	2000
HIGHEST DAILY MEAN	431	Aug 19	108	Jul 5	431	Aug 19 1999
LOWEST DAILY MEAN	5.0	Jan 1	.78	Sep 18	.78	Sep 18 2000
ANNUAL SEVEN-DAY MINIMUM	6.0	Jan 1	1.2	Sep 13	1.2	Sep 13 2000
INSTANTANEOUS PEAK FLOW			125	Jul 4	453	Aug 19 1999
INSTANTANEOUS PEAK STAGE			5.36	Jul 4	7.62	Aug 19 1999
ANNUAL RUNOFF (AC-FT)	33350		17700		25750	
10 PERCENT EXCEEDS	115		58		91	
50 PERCENT EXCEEDS	16		15		22	
90 PERCENT EXCEEDS	8.0		8.0		9.2	

e Estimated.



PLATTE RIVER BASIN

06769000 BUFFALO CREEK NEAR OVERTON, NE

LOCATION.--Lat 40°44'04", long 99°30'20", in NE ¼ SE ¼, sec.20, T.9 N., R.19 W., Dawson County, Hydrologic Unit 10200101, on downstream side of State Highway 30 bridge, 1.7 mi east of Overton.

DRAINAGE AREA.--175 mi^2.

PERIOD OF RECORD.--October 1949 to September 1958. April 1996 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,296.67 ft above sea level. October 1949 to September 1958 at datum 0.41 ft higher.

REMARKS.--Records fair except for periods of estimated record which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	3.7	5.0	e4.5	e4.2	13	3.1	44	80	57	85	54
2	3.2	3.7	5.0	e4.3	e4.1	13	2.6	36	76	50	73	56
3	2.9	3.7	4.3	e4.0	e4.1	13	3.2	28	82	46	55	24
4	2.6	3.7	4.7	e4.0	e4.6	11	3.6	36	84	56	48	8.4
5	2.8	3.8	4.6	e4.0	e5.0	13	3.6	27	84	64	53	5.4
6	2.8	3.8	4.7	e4.3	e5.0	15	3.3	23	74	71	56	5.0
7	3.0	4.4	4.8	e4.5	e5.2	17	2.7	61	78	56	65	5.4
8	3.1	4.4	5.5	e4.5	e5.6	17	2.6	77	71	52	56	4.8
9	3.2	4.7	5.2	e4.5	e5.6	9.5	2.8	57	63	46	41	4.0
10	3.4	4.3	4.7	e4.8	e5.6	6.8	1.9	57	64	45	35	2.6
11	3.4	4.0	4.9	e5.0	e5.4	9.6	1.2	55	60	56	35	2.1
12	3.5	4.7	4.7	e5.0	e5.4	7.6	.84	51	52	46	33	1.5
13	3.5	5.2	5.1	e5.0	e5.4	5.8	1.5	46	43	45	37	1.1
14	3.6	4.4	5.3	e5.0	e5.0	5.4	1.3	35	62	44	44	1.2
15	3.6	3.9	4.6	e5.0	e5.0	4.9	.70	35	64	49	43	1.1
16	3.7	3.8	e4.4	e4.7	e5.0	4.5	.62	34	55	47	49	1.0
17	3.8	3.8	e4.4	e5.0	e5.4	4.5	1.0	30	53	48	36	.94
18	3.7	3.8	e4.4	e5.2	e6.0	4.8	1.0	28	63	63	29	.79
19	3.6	3.7	e4.4	e5.2	e7.0	4.8	1.2	24	71	79	41	.58
20	3.7	6.3	e4.2	e5.2	9.5	4.6	.66	27	78	72	54	.57
21	3.7	4.1	e4.2	e5.2	15	4.6	.62	50	79	66	70	.70
22	3.6	3.8	e4.2	e5.0	14	4.5	.86	63	70	66	74	.60
23	3.6	4.0	e4.4	e5.0	23	4.8	1.1	60	55	77	68	.43
24	3.7	3.9	e4.7	e4.5	25	5.0	.81	34	60	80	59	.49
25	3.8	4.1	e5.0	e4.5	30	4.8	2.2	40	71	72	65	.51
26	3.8	4.5	e5.0	e4.6	23	4.5	1.9	70	66	59	58	.48
27	3.8	4.1	e5.0	e4.6	20	4.3	.77	110	55	47	69	.36
28	3.8	4.1	e5.0	e4.6	19	3.8	2.2	97	58	49	80	.28
29	3.8	4.1	e5.0	e4.5	17	3.6	12	86	62	65	57	.25
30	3.7	4.8	e5.0	e4.5	---	3.5	36	83	56	78	45	.19
31	3.7	---	e5.0	e4.3	---	3.1	---	82	---	85	48	---
TOTAL	108.1	125.3	147.4	145.0	294.1	231.3	97.88	1586	1989	1836	1661	184.77
MEAN	3.49	4.18	4.75	4.68	10.1	7.46	3.26	51.2	66.3	59.2	53.6	6.16
MAX	4.0	6.3	5.5	5.2	30	17	36	110	84	85	85	56
MIN	2.6	3.7	4.2	4.0	4.1	3.1	.62	23	43	44	29	.19
AC-FT	214	249	292	288	583	459	194	3150	3950	3640	3290	366

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2000, BY WATER YEAR (WY)

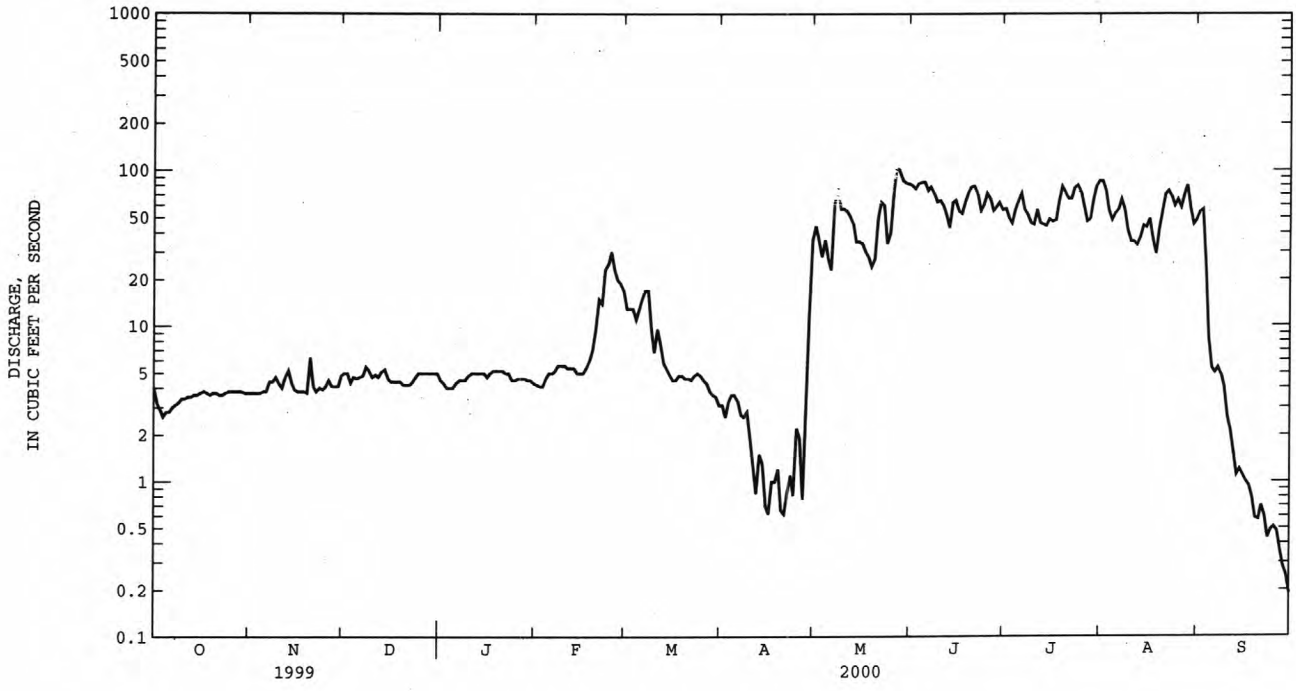
MEAN	11.1	4.45	3.60	2.99	4.06	4.83	4.12	22.3	48.8	49.9	59.3	35.6
MAX	33.1	15.4	13.4	10.9	10.1	15.3	12.0	51.7	130	106	174	71.1
(WY)	1951	1998	1997	1998	2000	1952	1998	1999	1999	1951	1996	1950
MIN	.30	.000	.000	.000	.000	.000	.000	2.12	10.4	2.04	.000	.88
(WY)	1957	1955	1955	1954	1955	1956	1955	1958	1956	1954	1955	1955

PLATTE RIVER BASIN

06769000 BUFFALO CREEK NEAR OVERTON, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS a	
ANNUAL TOTAL	14848.3		8405.85			
ANNUAL MEAN	40.7		23.0		19.5	
HIGHEST ANNUAL MEAN					40.9	1999
LOWEST ANNUAL MEAN					3.07	1955
HIGHEST DAILY MEAN	472	Jun 12	110	May 27	472	Jun 12 1999
LOWEST DAILY MEAN	2.3	Mar 26	.19	Sep 30	.00	Apr 26 1953
ANNUAL SEVEN-DAY MINIMUM	2.7	Mar 25	.37	Sep 24	.00	Jul 16 1953
INSTANTANEOUS PEAK FLOW			132	May 27	509	Jun 12 1999
INSTANTANEOUS PEAK STAGE			6.97	May 27	10.79	Jun 12 1999
ANNUAL RUNOFF (AC-FT)	29450		16670		14140	
10 PERCENT EXCEEDS	117		66		70	
50 PERCENT EXCEEDS	5.0		5.0		5.4	
90 PERCENT EXCEEDS	3.3		2.0		.00	

e Estimated.
a Water years 1949-58, 1996-2000.



PLATTE RIVER BASIN

06769525 ELM CREEK NEAR ELM CREEK, NE

LOCATION.--Lat 40°43'44", long 099°23'53", in NW ¼ NE ¼ , sec.20, T.9 N., R.18 W., Buffalo County, Hydrologic Unit 10200101, on right downstream side of bridge.

PERIOD OF RECORD.--March 1996 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,270 ft above sea level, from topographic map.

REMARKS.--Records fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	13	7.6	6.1	10
2	.00	.00	.00	.00	.00	.00	.00	.00	12	8.5	5.1	12
3	.00	.00	.00	.00	.00	.00	.00	.00	11	7.0	5.3	1.8
4	.00	.00	.00	.00	.00	.00	.00	.00	11	14	5.6	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	11	13	4.1	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	12	13	4.8	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	12	13	4.3	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	11	13	2.2	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	10	9.2	1.1	.00
10	.00	.00	.00	.00	.00	.00	.00	.05	10	1.0	.66	.00
11	.00	.00	.00	.00	.00	.00	.00	5.5	11	97	.46	.00
12	.00	.00	.00	.00	.00	.00	.00	7.0	22	45	.41	.00
13	.00	.00	.00	.00	.00	.00	.00	7.9	13	13	.06	.00
14	.00	.00	.00	.00	.00	.00	.00	8.7	13	10	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	9.1	11	6.1	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	9.1	15	4.1	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	8.2	12	7.9	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	7.7	16	14	.67	.00
19	.00	.00	.00	.00	.00	.00	.00	5.6	23	14	1.3	.00
20	.00	.00	.00	.00	.00	.00	.00	7.6	14	11	1.5	.00
21	.00	.00	.00	.00	.00	.00	.00	8.7	8.9	8.7	2.4	.00
22	.00	.00	.00	.00	.00	.00	.00	9.4	9.5	9.0	1.7	.00
23	.00	.00	.00	.00	.00	.00	.00	9.2	4.3	8.1	3.6	.00
24	.00	.00	.00	.00	.00	.00	.00	7.5	12	7.7	3.1	.00
25	.00	.00	.00	.00	.00	.00	.00	7.8	12	17	4.5	.00
26	.00	.00	.00	.00	.00	.00	.00	53	12	13	2.6	.00
27	.00	.00	.00	.00	.00	.00	.00	64	9.0	8.4	5.9	.00
28	.00	.00	.00	.00	.00	.00	.00	14	4.8	8.4	8.8	.00
29	.00	.00	.00	.00	.00	.00	.00	12	4.3	8.8	10	.00
30	.00	.00	.00	.00	---	.00	.00	12	7.1	9.0	10	.00
31	.00	---	.00	.00	---	.00	---	12	---	8.7	9.5	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	286.05	346.9	428.2	105.76	23.80
MEAN	.000	.000	.000	.000	.000	.000	.000	9.23	11.6	13.8	3.41	.79
MAX	.00	.00	.00	.00	.00	.00	.00	64	23	97	10	12
MIN	.00	.00	.00	.00	.00	.00	.00	.00	4.3	1.0	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	567	688	849	210	47

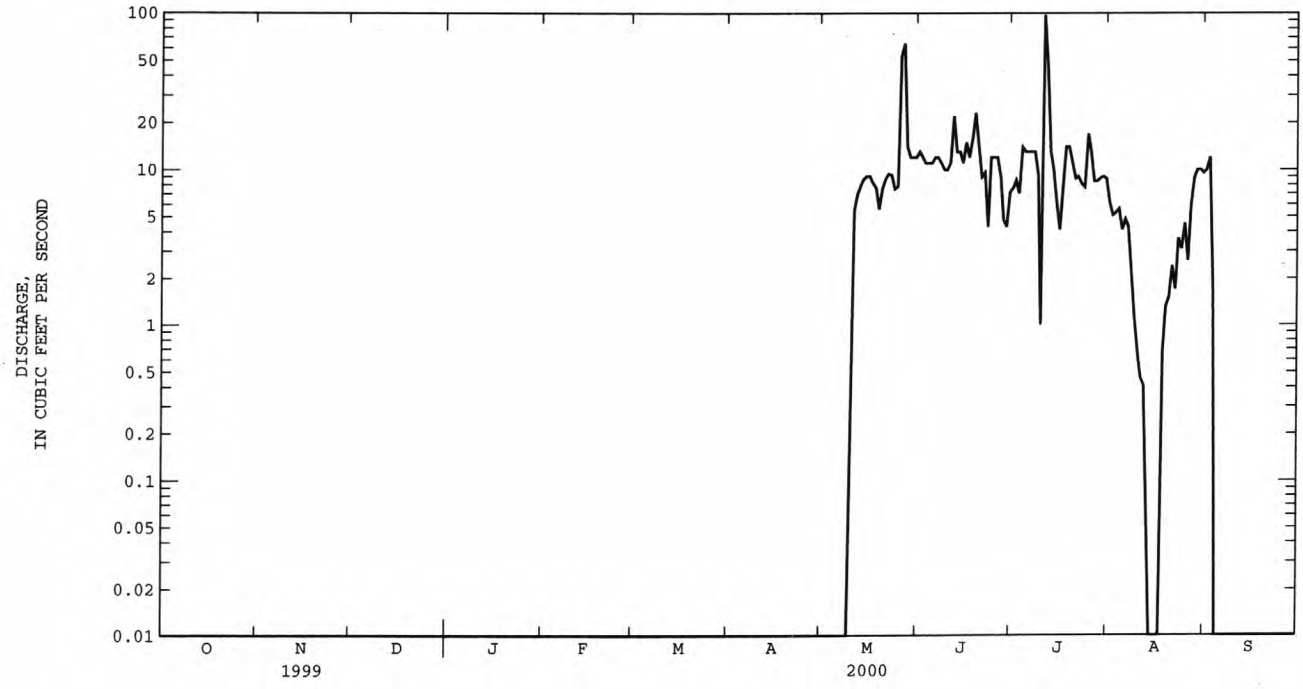
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

MEAN	.000	.018	.000	.000	.000	.45	.003	7.78	14.0	8.65	9.03	2.59
MAX	.000	.073	.000	.000	.000	1.79	.016	9.91	31.3	13.8	14.4	5.86
(WY)	1997	1997	1997	1997	1997	1998	1999	1999	1999	2000	1999	1999
MIN	.000	.000	.000	.000	.000	.000	.000	.63	5.31	3.70	3.41	.79
(WY)	1997	1998	1997	1997	1997	1997	1996	1997	1997	1996	2000	2000

PLATTE RIVER BASIN

06769525 ELM CREEK NEAR ELM CREEK, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL TOTAL	2150.42		1190.71			
ANNUAL MEAN	5.89		3.25		3.76	
HIGHEST ANNUAL MEAN					5.89	1999
LOWEST ANNUAL MEAN					1.80	1997
HIGHEST DAILY MEAN	188	Jun 11	97	Jul 11	188	Jun 11 1999
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Mar 21 1996
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Mar 21 1996
INSTANTANEOUS PEAK FLOW			174	Jul 11	317	May 21 1998
INSTANTANEOUS PEAK STAGE			8.07	Jul 11	8.76	May 21 1998
ANNUAL RUNOFF (AC-FT)	4270		2360		2730	
10 PERCENT EXCEEDS	15		11		12	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	



PLATTE RIVER BASIN

06770195 NORTH DRY CREEK 2 MI SW OF PLATTE RIVER BRIDGE SOUTH OF KEARNEY, NE

LOCATION.--Lat 40°38'28",long 099°06'56", in SE ¼ SW ¼ , sec.22, T.8 N., R.16 W., Kearney County, Hydrologic Unit 10200101, on downstream side of county road bridge, 1.1 mi south of Platte River bridge on Highway 44, and 1.6 mi west of Highway 44, and approximately 2 mi south of Kearney.

DRAINAGE AREA.--77.7 mi^2.

PERIOD OF RECORD.--March 1996 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,140 ft above sea level.

REMARKS.--Records good except for period of estimated record, which is poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	11	11	11	12	13	16	16	12	21	18	7.3
2	11	11	11	12	13	13	16	14	11	19	21	5.6
3	10	11	11	11	12	14	16	13	11	20	26	4.9
4	10	11	11	e10	13	14	16	13	11	293	23	3.8
5	10	11	12	e9.0	12	14	16	13	11	470	22	3.6
6	10	11	11	e10	12	14	16	13	10	70	22	3.7
7	11	11	11	e10	11	13	16	13	9.9	32	19	3.7
8	11	11	11	e10	11	16	15	14	11	23	18	3.9
9	11	11	10	11	e10	16	15	14	8.8	20	18	2.7
10	11	11	11	12	e10	15	15	13	7.8	15	17	2.0
11	10	11	11	13	e10	14	14	14	7.3	15	14	1.3
12	11	11	11	11	e11	14	14	13	12	16	12	1.1
13	11	11	11	11	e12	14	14	13	13	21	12	.35
14	11	11	11	11	13	14	14	12	13	23	11	.43
15	12	11	13	11	12	16	16	12	12	24	10	1.2
16	11	11	11	11	12	15	16	14	12	24	11	1.0
17	11	11	11	11	12	14	15	15	12	30	11	1.3
18	11	12	11	11	e10	16	15	15	14	32	11	1.2
19	11	11	11	11	e10	16	15	13	18	31	16	1.3
20	11	11	16	13	e11	16	15	14	120	29	16	2.3
21	11	11	17	13	12	16	14	14	46	25	11	2.4
22	11	11	16	12	14	15	14	14	23	24	10	2.2
23	11	11	16	12	16	16	14	14	17	24	9.2	2.4
24	10	11	13	14	19	20	13	13	18	23	9.4	2.8
25	11	11	11	13	16	18	13	12	16	60	9.9	2.9
26	11	11	11	13	15	16	13	14	15	26	9.7	2.4
27	11	11	11	15	13	16	13	15	16	24	10	2.3
28	11	10	11	15	13	16	13	13	18	33	10	2.0
29	11	10	12	12	14	16	13	13	20	30	9.5	2.1
30	11	10	11	12	---	16	14	12	23	20	9.9	2.2
31	11	---	11	12	---	18	---	12	---	16	9.0	---
TOTAL	336	328	367	363.0	361	474	439	417	548.8	1533	435.6	76.38
MEAN	10.8	10.9	11.8	11.7	12.4	15.3	14.6	13.5	18.3	49.5	14.1	2.55
MAX	12	12	17	15	19	20	16	16	120	470	26	7.3
MIN	10	10	10	9.0	10	13	13	12	7.3	15	9.0	.35
AC-FT	666	651	728	720	716	940	871	827	1090	3040	864	151

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

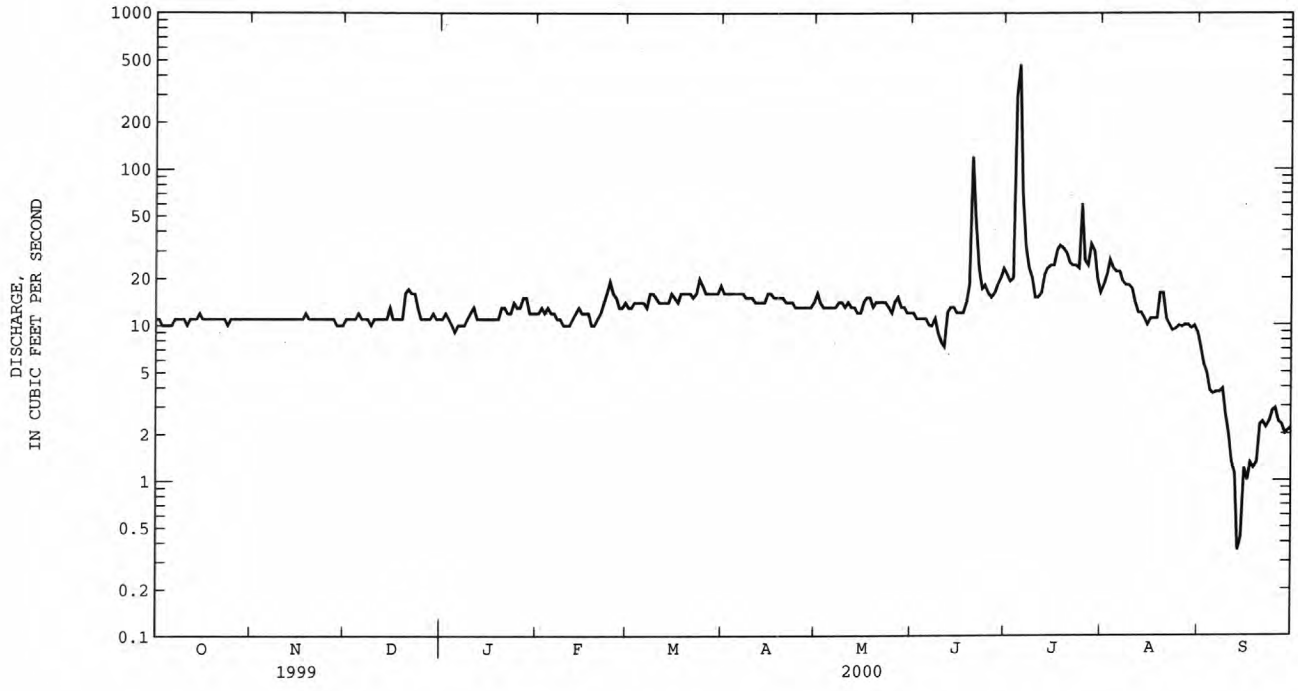
MEAN	13.2	17.0	14.6	12.6	15.3	18.4	20.1	28.5	31.2	51.5	29.9	12.8
MAX	17.0	22.6	18.0	13.9	16.9	24.7	33.7	47.7	50.2	84.8	44.8	30.1
(WY)	1997	1998	1998	1998	1997	1998	1998	1996	1999	1996	1999	1996
MIN	10.8	10.9	11.8	11.7	12.4	15.3	11.5	13.5	16.6	26.4	14.1	2.55
(WY)	2000	2000	2000	2000	2000	2000	1996	2000	1997	1997	2000	2000

PLATTE RIVER BASIN

06770195 NORTH DRY CREEK 2 MI SW OF PLATTE RIVER BRIDGE SOUTH OF KEARNEY, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL TOTAL	8610.0		5678.78			
ANNUAL MEAN	23.6		15.5		20.4	
HIGHEST ANNUAL MEAN					24.7	1998
LOWEST ANNUAL MEAN					15.5	2000
HIGHEST DAILY MEAN	260	Jun 1	470	Jul 5	470	Jul 5 2000
LOWEST DAILY MEAN	9.0	Jan 4	.35	Sep 13	.35	Sep 13 2000
ANNUAL SEVEN-DAY MINIMUM	10	Jan 3	.94	Sep 12	.94	Sep 12 2000
INSTANTANEOUS PEAK FLOW			862	Jul 5	862	Jul 5 2000
INSTANTANEOUS PEAK STAGE			6.68	Jul 5	6.68	Jul 5 2000
ANNUAL RUNOFF (AC-FT)	17080		11260		14800	
10 PERCENT EXCEEDS	41		20		37	
50 PERCENT EXCEEDS	16		12		16	
90 PERCENT EXCEEDS	11		9.3		10	

e Estimated.



PLATTE RIVER BASIN

06770200 PLATTE RIVER NEAR KEARNEY, NE

LOCATION.--Lat 40°39'32", long 099°05'08", in SE ¼ SE ¼ sec.14, T.8 N., R.16 W., Kearney County, Hydrologic Unit 10200101 on right bank near downstream side of bridge on State Highway 44, 2 mi south of Kearney, and at mile 117.

DRAINAGE AREA.--57,260 mi^2, of which about 52,540 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--January 1982 to current year.

REVISED RECORDS.--WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,134.11 ft above sea level. Data collection platform at station.

REMARKS.--Records fair except for periods of estimated record, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3900	2910	2490	3160	2940	2630	2020	2110	1530	938	1120	606
2	3960	2760	2400	3200	2200	2920	2070	2060	1430	970	828	624
3	3810	2730	2530	3110	3420	2990	2230	2030	1410	842	725	687
4	3850	2730	2730	2860	3680	2950	2180	2100	1430	1730	686	633
5	3900	2710	2720	3190	3790	2850	2180	2010	1410	2980	672	608
6	3990	2640	2620	3160	3860	2730	2130	1910	1430	2360	620	640
7	3910	2570	2510	3270	3640	2650	2120	1840	1420	1960	621	647
8	3680	2490	2510	3620	2540	2820	2070	2040	1350	1590	606	472
9	3410	2560	2510	3750	3190	2700	2210	1970	1280	1240	609	862
10	3160	2640	2480	3760	3310	2610	2240	1820	1180	1090	570	821
11	2740	2640	2480	3620	3350	2420	2210	1900	1110	797	579	886
12	1800	2720	2370	3490	3370	2620	2230	1870	1200	805	603	771
13	2460	2720	2260	3240	3380	2740	2320	1710	1040	640	632	681
14	2710	2680	2380	3180	3160	2760	2410	1630	946	599	664	636
15	2730	2670	2350	3300	3290	2480	2400	1640	942	584	684	621
16	2660	2810	2460	3190	3200	2340	2420	1630	875	664	606	553
17	2590	2750	2500	3250	2850	2350	2310	1550	881	695	557	532
18	2590	2700	2640	3300	2730	2510	2240	1350	805	707	540	531
19	2560	2530	2960	3230	2630	2950	2100	838	1050	674	561	534
20	2600	2480	2710	3140	2870	2990	1950	1060	1950	674	642	579
21	2630	2430	2670	3200	3070	2980	1940	1980	2090	698	711	534
22	2540	2410	2660	3240	3220	2930	1960	1660	1750	703	708	592
23	2410	2480	3050	3240	3660	2860	2060	1360	1690	710	659	638
24	2370	2480	3330	3080	3440	2390	2120	1220	1540	750	632	711
25	2420	2480	3600	3000	3270	2570	2150	1180	1330	970	731	652
26	2530	2590	3390	2940	3420	2850	2040	1560	1190	702	787	628
27	2460	2610	3240	2880	3440	2900	1940	1670	1070	761	765	721
28	2630	2610	3240	2940	3300	2840	1920	1570	897	832	770	700
29	2740	2650	3200	2990	3170	2570	1810	1500	784	1120	666	808
30	2860	2580	3240	3040	---	1240	1980	1470	869	1270	621	741
31	2930	---	3230	3200	---	1190	---	1510	---	1260	578	---
TOTAL	91530	78760	85460	99770	93390	81330	63960	51748	37879	32315	20753	19649
MEAN	2953	2625	2757	3218	3220	2624	2132	1669	1263	1042	669	655
MAX	3990	2910	3600	3760	3860	2990	2420	2110	2090	2980	1120	886
MIN	1800	2410	2260	2860	2200	1190	1810	838	784	584	540	472
AC-FT	181500	156200	169500	197900	185200	161300	126900	102600	75130	64100	41160	38970

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2000, BY WATER YEAR (WY)

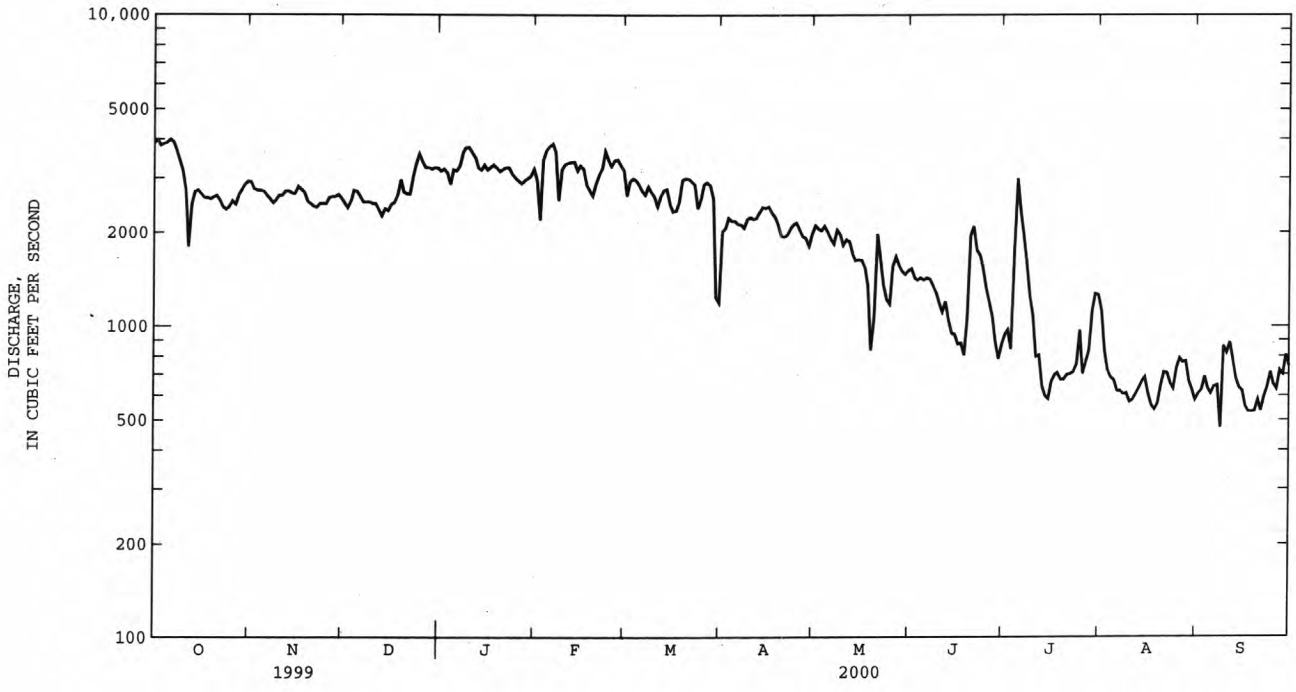
MEAN	1818	1854	1942	2187	2555	2643	2457	2673	3710	1961	1385	1978
MAX	3859	4717	4404	4487	6612	7148	9535	11770	17660	10910	6393	7903
(WY)	1987	1985	1985	1984	1984	1984	1984	1984	1983	1983	1983	1983
MIN	464	792	734	864	1157	1132	724	289	315	123	288	230
(WY)	1992	1990	1990	1991	1995	1991	1989	1989	1992	1990	1991	1990

PLATTE RIVER BASIN

06770200 PLATTE RIVER NEAR KEARNEY, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1983 - 2000	
ANNUAL TOTAL	1105996		756544			
ANNUAL MEAN	3030		2067		2259	
HIGHEST ANNUAL MEAN					5418	1983
LOWEST ANNUAL MEAN					797	1991
HIGHEST DAILY MEAN	11300	May 12	3990	Oct 6	22300	Jun 29 1983
LOWEST DAILY MEAN	700	Mar 24	472	Sep 8	3.0	Sep 7 1990
ANNUAL SEVEN-DAY MINIMUM	838	Jul 26	551	Sep 16	13	Sep 2 1990
INSTANTANEOUS PEAK FLOW			*4100	Oct 1	**23700	Jun 29 1983
INSTANTANEOUS PEAK STAGE			4.44	Oct 6	***8.62	Feb 24 1994
ANNUAL RUNOFF (AC-FT)	2194000		1501000		1636000	
10 PERCENT EXCEEDS	5100		3260		4300	
50 PERCENT EXCEEDS	2650		2330		1720	
90 PERCENT EXCEEDS	1510		646		472	

* Stage 4.43 ft.
** Stage 7.42 ft.
*** Backwater from ice.



PLATTE RIVER BASIN

06770240 FORT KEARNEY SLOUGH NEAR NEWARK, NE

LOCATION.--Lat 40°38'28", long 098°59'22", in SE ¼ SE ¼ sec.22, T.8 N., R15 W., Kearney County, Hydrologic Unit 10200203, on downstream side of culvert on Highway L-5DA, 2.0 mi west of State Highway 10, and 1.1 mi west of Newark.

PERIOD OF RECORD.--March 1996 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,100.6 ft above sea level.

REMARKS.--Records fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	2.4	3.3	3.7	4.2	4.9	5.5	5.8	5.0	3.3	3.9	1.8
2	1.3	2.5	3.2	3.5	4.5	5.0	5.6	5.9	5.1	4.0	4.1	3.0
3	1.2	2.7	3.2	3.5	4.4	5.1	5.4	5.6	5.4	3.8	4.5	3.0
4	1.7	2.7	3.1	3.4	4.3	5.1	5.5	5.4	4.7	10	4.7	2.4
5	2.2	2.5	3.1	3.7	4.5	5.2	5.6	5.1	4.9	3.6	5.9	2.8
6	2.8	2.6	3.2	3.4	4.5	5.2	5.5	4.4	4.9	4.0	4.5	3.9
7	2.7	2.6	3.3	3.5	4.4	5.2	5.4	3.7	4.9	4.1	4.0	2.8
8	2.1	2.7	3.2	3.9	4.6	5.3	5.4	4.4	4.5	3.8	3.2	3.1
9	1.9	2.7	3.1	3.9	4.9	5.1	5.5	3.8	4.3	3.7	2.0	4.3
10	1.8	2.6	3.2	3.6	4.5	5.0	5.5	3.0	2.7	4.1	3.2	3.1
11	2.0	2.6	3.3	3.5	4.2	5.0	5.3	3.0	2.8	4.0	3.2	2.4
12	1.9	2.7	3.2	3.6	4.5	5.1	5.5	3.3	4.2	4.0	2.9	.00
13	1.9	2.8	3.3	3.4	4.4	5.1	5.6	3.0	2.3	3.4	2.4	.00
14	2.1	2.8	3.4	3.8	4.4	5.1	5.6	2.5	2.2	3.6	2.0	.00
15	2.0	2.8	3.2	4.1	4.5	5.1	5.4	2.5	2.4	4.0	1.6	.00
16	2.0	2.8	3.3	3.6	4.2	4.9	5.4	2.9	2.8	3.9	2.6	.00
17	2.1	2.9	3.2	3.9	4.5	5.0	5.4	3.4	2.8	2.5	1.5	.00
18	2.1	2.8	3.4	4.0	4.2	5.1	5.7	2.6	2.8	2.3	1.4	.00
19	2.1	2.4	3.4	4.2	4.2	5.1	5.6	2.6	8.0	3.7	3.5	.00
20	2.2	2.6	3.1	3.7	4.3	5.2	5.4	2.7	71	3.4	1.6	.00
21	2.2	2.7	3.1	4.2	4.9	5.1	5.5	3.0	5.8	3.7	2.1	.00
22	2.2	2.6	3.1	4.3	5.2	5.2	5.7	3.2	3.4	2.9	2.7	.00
23	2.2	2.6	3.2	3.8	5.8	5.5	5.5	3.3	2.7	3.0	1.9	.00
24	2.4	2.6	3.2	3.9	5.8	7.0	5.5	3.3	2.2	3.6	1.9	.00
25	2.4	2.9	3.3	3.9	5.6	5.8	5.5	3.4	2.6	7.7	2.4	.00
26	2.5	3.0	3.3	4.0	5.2	5.8	5.6	7.6	2.5	3.7	1.7	.00
27	2.5	2.9	3.4	3.9	5.1	5.7	5.6	8.4	2.8	3.3	2.3	.00
28	2.5	2.9	3.7	4.0	5.2	5.6	5.7	6.5	3.0	3.2	2.0	.00
29	2.6	2.9	3.8	4.1	5.2	5.5	5.7	6.2	2.8	4.0	1.6	.00
30	2.4	3.1	3.4	4.2	---	5.5	5.7	5.6	2.9	3.3	4.2	.00
31	2.5	---	3.5	4.3	---	5.5	---	5.4	---	2.6	3.5	---
TOTAL	67.2	81.4	101.7	118.5	136.2	164.0	165.8	131.5	178.4	120.2	89.0	32.60
MEAN	2.17	2.71	3.28	3.82	4.70	5.29	5.53	4.24	5.95	3.88	2.87	1.09
MAX	2.8	3.1	3.8	4.3	5.8	7.0	5.7	8.4	71	10	5.9	4.3
MIN	1.2	2.4	3.1	3.4	4.2	4.9	5.3	2.5	2.2	2.3	1.4	.00
AC-FT	133	161	202	235	270	325	329	261	354	238	177	65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

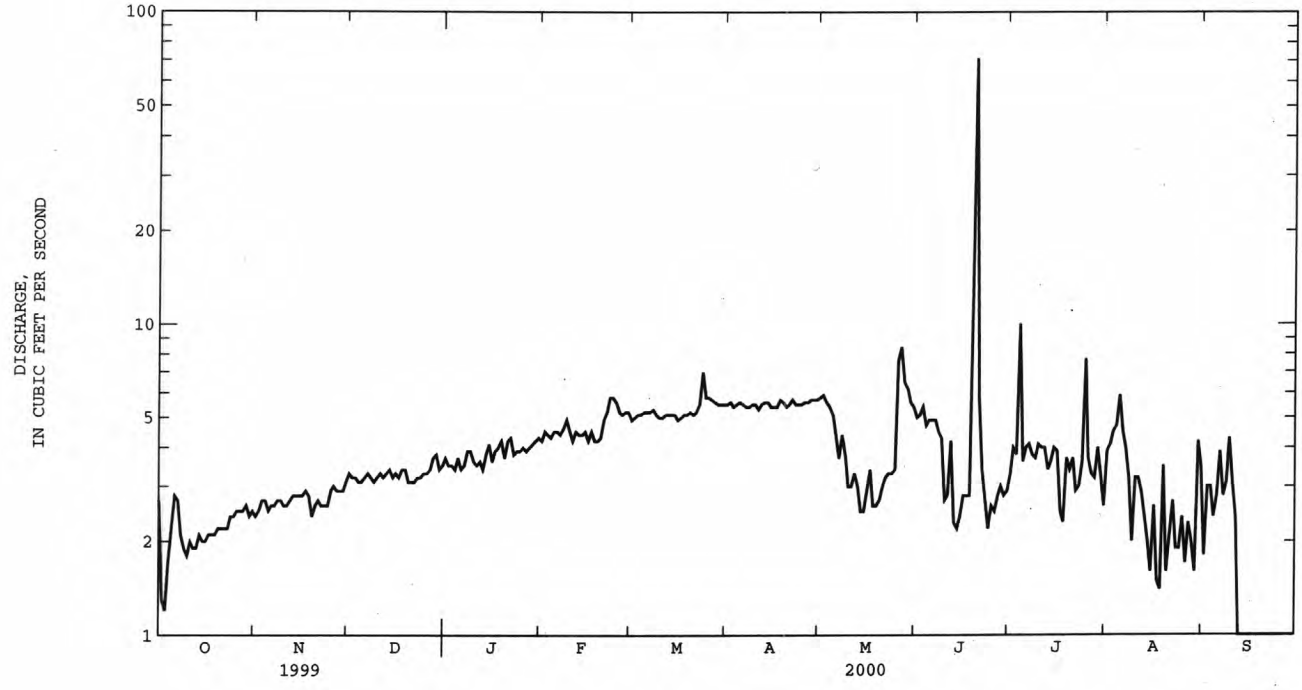
MEAN	4.36	6.94	6.11	5.23	6.21	7.26	9.76	10.7	12.4	6.44	4.83	1.98
MAX	6.60	11.5	8.26	6.95	8.53	10.1	19.4	17.5	20.4	14.3	11.0	5.26
(WY)	1997	1997	1998	1997	1997	1997	1998	1996	1996	1996	1996	1996
MIN	2.17	2.71	3.28	3.82	4.70	5.25	5.53	4.24	5.95	1.84	1.32	.51
(WY)	2000	2000	2000	2000	2000	1999	2000	2000	2000	1997	1997	1998

PLATTE RIVER BASIN

06770240 FORT KEARNEY SLOUGH NEAR NEWARK, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL TOTAL	1979.45		1386.50			
ANNUAL MEAN	5.42		3.79		6.23	
HIGHEST ANNUAL MEAN					8.82	1998
LOWEST ANNUAL MEAN					3.79	2000
HIGHEST DAILY MEAN	31	Jun 1	71	Jun 20	80	Jun 16 1996
LOWEST DAILY MEAN	.66	Sep 12	.00	Sep 12	.00	Mar 26 1996
ANNUAL SEVEN-DAY MINIMUM	.85	Sep 10	.00	Sep 12	.00	Sep 12 2000
INSTANTANEOUS PEAK FLOW			114	Jun 20	*140	Jun 16 1996
INSTANTANEOUS PEAK STAGE			7.70	Jun 20	7.70	Jun 20 2000
ANNUAL RUNOFF (AC-FT)	3930		2750		4520	
10 PERCENT EXCEEDS	9.8		5.5		13	
50 PERCENT EXCEEDS	4.7		3.4		5.3	
90 PERCENT EXCEEDS	2.2		2.0		1.7	

* Stage 6.19 ft.



PLATTE RIVER BASIN

06770253 PLATTE RIVER NEAR NEWARK, NE

LOCATION.--Lat 40°40'06",long 098°54'53", in NE ¼ NE ¼ sec.17, T.8 N., R.14 W., Buffalo County, Hydrologic Unit 10200101, on left bank, at Platte River Whooping Crane Maintenance Trust, 0.4 mi south of county road, 2 mi east of State Highway 10, and 3 mi east of Newark.

PERIOD OF RECORD.--April 1999 to current year (stage record only).

GAGE.--Water-stage recorder. Datum of gage is 2,076.42 ft above sea level.

REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum instantaneous gage height, 3.63 Feb. 23; minimum instantaneous gage height, 2.40 ft Sept. 19.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.41	3.26	3.22	3.44	3.25	3.30	3.16	3.08	2.88	2.64	2.81	2.55
2	3.44	3.27	3.18	3.40	3.01	3.37	3.22	3.09	2.83	2.65	2.66	2.54
3	3.45	3.24	3.18	3.40	3.48	3.41	3.24	3.05	2.86	2.63	2.56	2.53
4	3.50	3.29	3.23	3.36	3.54	3.41	3.21	3.04	2.84	2.92	2.55	2.51
5	3.48	3.32	3.24	3.44	3.52	3.41	3.17	3.01	2.85	3.44	2.56	2.56
6	3.54	3.31	3.23	3.34	3.50	3.33	3.14	2.91	2.87	3.31	2.54	2.58
7	3.58	3.30	3.25	3.33	3.45	3.33	3.06	2.86	2.87	3.09	2.51	2.60
8	3.53	3.27	3.25	3.38	3.13	3.42	3.07	2.93	2.85	2.95	2.50	2.43
9	3.49	3.22	3.25	3.40	3.29	3.37	3.05	2.98	2.81	2.85	2.52	2.61
10	3.47	3.27	3.29	3.40	3.29	3.32	3.13	2.99	2.68	2.82	2.54	2.59
11	3.44	3.20	3.33	3.38	3.41	3.22	3.18	3.03	2.64	2.74	2.47	2.57
12	3.08	3.23	3.32	3.39	3.46	3.30	3.21	3.06	2.77	2.74	2.46	2.58
13	3.34	3.26	3.31	3.39	3.49	3.36	3.19	3.03	2.67	2.69	2.47	2.57
14	3.37	3.27	3.28	3.38	3.42	3.41	3.15	2.99	2.59	2.64	2.48	2.55
15	3.28	3.30	3.23	3.39	3.40	3.31	3.12	2.99	2.60	2.61	2.48	2.55
16	3.24	3.36	3.28	3.37	3.39	3.23	3.13	2.97	2.56	2.65	2.48	2.49
17	3.18	3.30	3.25	3.36	3.28	3.18	3.12	2.95	2.54	2.65	2.45	2.47
18	3.08	3.21	3.26	3.33	3.26	3.17	3.11	2.82	2.55	2.66	2.47	2.45
19	3.10	3.19	3.27	3.26	3.29	3.29	3.06	2.65	2.64	2.64	2.52	2.42
20	3.13	3.26	3.20	3.22	3.38	3.28	2.99	2.64	3.10	2.63	2.54	2.48
21	3.18	3.28	3.15	3.22	3.42	3.22	3.02	3.08	3.14	2.62	2.56	2.56
22	3.23	3.28	3.19	3.24	3.42	3.18	3.04	3.02	3.03	2.62	2.56	2.56
23	3.15	3.25	3.27	3.27	3.56	3.24	3.06	2.81	2.96	2.63	2.52	---
24	3.11	3.21	3.34	3.24	3.44	3.11	3.07	2.69	2.88	2.64	2.50	---
25	3.17	3.22	3.41	3.25	3.34	3.15	3.11	2.65	2.75	2.74	2.54	---
26	3.23	3.28	3.38	3.23	3.30	3.24	3.04	2.86	2.71	2.65	2.56	2.58
27	3.25	3.33	3.40	3.21	3.37	3.27	3.02	2.95	2.69	2.64	2.50	2.60
28	3.30	3.32	3.42	3.24	3.40	3.34	3.04	2.96	2.62	2.66	2.49	2.58
29	3.33	3.27	3.49	3.24	3.38	3.34	3.03	2.92	2.60	2.79	2.57	2.68
30	3.27	3.28	3.52	3.30	---	2.91	3.06	2.86	2.62	2.84	2.58	2.62
31	3.27	---	3.50	3.32	---	2.71	---	2.86	---	2.86	2.54	---
MAX	3.58	3.36	3.52	3.44	3.56	3.42	3.24	3.09	3.14	3.44	2.81	2.68
MIN	3.08	3.19	3.15	3.21	3.01	2.71	2.99	2.64	2.54	2.61	2.45	2.42

PLATTE RIVER BASIN

06770375 PLATTE RIVER NEAR PROSSER, NE

LOCATION.--Lat 40°43'45",long 098°38'07", in SW ¼ SE ¼ sec.23, T.9 N., R. 12 W., Hall County, Hydrologic Unit 10200101, on right bank, at Platte River Whooping Crane Maintenance Trust, 0.4 mi north of Denman road. 3 mi west of Wood River road, and 3.5 mi northwest of Prosser.

PERIOD OF RECORD.--April 1999 to current year (stage record only).

GAGE.--Water-stage recorder. Elevation of gage is 1,975 ft above sea level.

REMARKS.--Records good.

EXTREMES FOR CURRENT YEAR.--Maximum instantaneous gage height, 3.65 ft Feb. 23,24; minimum instantaneous gage height, 2.18 ft Sept. 8.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	3.09	3.34	3.13	3.22	2.88	3.05	2.86	2.37	2.65	2.32
2	---	---	3.08	3.35	---	3.22	3.09	2.97	2.80	2.40	2.54	2.31
3	---	---	---	3.43	---	3.25	3.12	2.94	2.76	2.40	2.44	2.28
4	---	---	---	3.31	3.35	3.24	3.10	2.96	2.77	2.60	2.42	2.28
5	---	---	---	3.26	3.37	3.22	3.10	3.01	2.74	3.10	2.42	2.31
6	---	---	---	3.32	3.42	3.23	3.09	2.98	2.74	3.30	2.41	2.31
7	---	---	---	3.26	3.45	3.21	3.10	2.90	2.75	3.06	2.38	2.36
8	---	---	---	3.30	3.24	3.31	3.03	2.94	2.75	2.88	2.35	2.31
9	---	---	---	3.34	3.31	3.28	3.04	2.93	2.74	2.73	2.31	2.27
10	---	---	---	3.38	3.41	3.25	3.08	2.85	2.74	2.65	2.29	2.40
11	---	---	---	3.40	3.39	3.20	3.13	2.85	2.71	2.61	2.27	2.40
12	---	---	---	3.44	3.37	3.26	3.12	2.87	2.75	2.57	2.27	2.42
13	---	---	---	3.39	3.43	3.32	3.05	2.85	2.72	2.52	2.28	2.40
14	---	---	---	3.30	3.36	3.37	3.04	2.79	2.60	2.43	2.31	2.35
15	---	---	---	3.29	3.37	3.29	3.05	2.72	2.54	2.40	2.32	2.31
16	---	---	---	3.25	3.37	3.16	3.08	2.73	2.51	2.41	2.30	2.30
17	---	---	---	3.20	3.27	3.13	3.02	2.73	2.49	2.42	2.25	2.28
18	---	3.18	---	3.23	3.20	3.14	3.02	2.76	2.52	2.44	2.22	2.26
19	---	3.16	---	3.22	3.10	3.25	2.99	2.61	2.49	2.44	2.26	2.27
20	---	3.19	---	3.13	3.15	3.25	2.96	2.49	2.96	2.41	2.31	2.30
21	---	3.26	---	3.16	3.26	3.23	2.92	2.77	3.15	2.38	2.38	2.25
22	---	3.29	3.06	3.21	3.34	3.21	2.92	3.02	3.04	2.38	2.40	2.28
23	---	3.34	2.97	3.23	3.51	3.22	3.02	2.85	2.94	2.37	2.34	2.32
24	---	3.33	3.04	3.19	3.53	3.18	3.05	2.74	2.92	2.37	2.30	2.40
25	---	3.30	3.15	3.21	3.36	3.09	3.09	2.64	2.77	2.46	2.28	2.43
26	---	3.25	3.17	3.16	3.31	3.23	3.07	2.74	2.67	2.53	2.33	2.30
27	---	3.17	3.16	3.15	3.32	3.26	3.09	2.92	2.58	2.47	2.35	2.35
28	---	3.11	3.17	3.18	3.33	3.31	3.04	2.95	2.46	2.53	2.35	2.38
29	---	3.09	3.25	3.23	3.33	3.33	2.98	2.92	2.36	2.55	2.36	2.37
30	---	3.10	3.30	3.24	---	3.07	3.00	2.89	2.35	2.64	2.31	2.39
31	---	---	3.31	3.16	---	2.68	---	2.86	---	2.69	2.31	---
MAX	---	3.34	3.31	3.44	3.53	3.37	3.13	3.05	3.15	3.30	2.65	2.43
MIN	---	3.09	2.97	3.13	3.10	2.68	2.88	2.49	2.35	2.37	2.22	2.25

PLATTE RIVER BASIN

06770470 PLATTE RIVER NEAR DONIPHAN, NE

LOCATION.--Lat 40°47'18", long 098°26'17", in SE ¼ SE ¼ sec.33, T.10 N., R.10 W., Hall County, Hydrologic Unit 10200101, on left bank, at Platte River Whooping Crane Maintenance Trust, 3.2 mi west of U.S. Highway 281, and 3 mi northwest of Doniphan.

PERIOD OF RECORD.--April 1999 to current year (stage record only).

GAGE.--Water-stage recorder. Datum of gage is 1899.80 ft above sea level.

REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum instantaneous gage height, 3.19 ft Mar. 23; minimum instantaneous gage height, 2.07 ft Sept. 9, 18.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.90	2.72	2.78	3.02	---	2.99	2.42	2.73	2.50	2.21	2.46	2.16
2	2.95	2.74	2.80	2.97	---	2.89	2.72	2.73	2.43	2.20	2.39	2.14
3	2.94	2.76	2.83	2.88	---	2.90	2.75	2.70	2.41	2.19	2.29	2.15
4	2.96	2.76	2.89	2.77	---	2.87	2.74	2.65	2.44	2.38	2.22	2.14
5	2.96	2.74	2.94	2.80	---	2.85	2.69	2.62	2.46	2.65	2.23	2.15
6	2.99	2.69	2.91	2.96	---	2.86	2.69	2.58	2.46	2.97	2.22	2.16
7	3.03	2.68	2.83	2.92	---	2.89	2.65	2.56	2.43	2.82	2.20	2.17
8	3.03	2.72	2.77	2.90	---	2.99	2.64	2.60	2.44	2.69	2.17	2.19
9	3.04	2.72	2.78	2.97	2.86	2.99	2.65	2.65	2.41	2.57	2.15	2.10
10	3.01	2.70	2.79	3.02	2.86	2.92	2.67	2.65	2.32	2.47	2.19	2.21
11	2.98	2.74	2.80	2.99	2.83	2.84	2.69	2.64	2.30	2.41	2.19	2.25
12	2.85	2.75	2.82	2.99	2.81	2.81	2.73	2.66	2.35	2.32	2.17	2.25
13	2.70	2.79	2.77	2.94	2.82	2.83	2.74	2.67	2.40	2.31	2.18	2.25
14	2.88	2.81	2.71	2.91	2.82	2.88	2.73	2.65	2.31	2.25	2.17	2.20
15	2.92	2.80	2.73	2.91	2.85	2.85	2.75	2.60	2.23	2.20	2.16	2.16
16	2.94	2.78	2.75	2.89	2.88	2.78	2.79	2.57	2.24	2.16	2.16	2.15
17	2.93	2.74	2.77	2.82	2.84	2.74	2.72	2.57	2.25	2.22	2.12	2.13
18	2.89	2.70	2.77	2.88	2.89	2.75	2.72	2.51	2.27	2.25	2.11	2.10
19	2.82	2.68	2.80	2.88	2.81	2.84	2.72	2.39	2.24	2.23	2.16	2.11
20	2.79	2.68	2.81	2.84	2.79	2.91	2.65	2.19	2.49	2.23	2.15	2.16
21	2.77	2.69	2.73	2.80	2.89	2.92	2.61	2.29	2.74	2.23	2.15	2.15
22	2.76	2.69	2.77	2.82	2.94	2.95	2.63	2.66	2.75	2.28	2.18	2.14
23	2.74	2.69	2.84	---	3.04	3.06	2.63	2.57	2.65	2.23	2.20	2.16
24	2.75	2.67	3.00	---	3.03	3.06	2.67	2.43	2.64	2.25	2.20	2.22
25	2.78	2.67	3.01	---	2.86	2.82	2.73	2.38	2.57	2.28	2.17	2.25
26	2.79	2.68	3.02	---	2.80	2.83	2.75	2.44	2.49	2.37	2.18	2.23
27	2.80	2.68	3.00	---	2.87	2.91	2.71	2.61	2.43	2.25	2.23	2.21
28	2.76	2.73	2.98	---	2.95	2.93	2.69	2.65	2.35	2.32	2.24	2.25
29	2.80	2.77	3.01	---	2.98	2.92	2.68	2.62	2.28	2.33	2.20	2.25
30	2.79	2.79	3.03	---	---	2.81	2.67	2.56	2.21	2.45	2.20	2.25
31	2.77	---	3.02	---	---	2.42	---	2.52	---	2.52	2.18	---
MAX	3.04	2.81	3.03	3.02	3.04	3.06	2.79	2.73	2.75	2.97	2.46	2.25
MIN	2.70	2.67	2.71	2.77	2.79	2.42	2.42	2.19	2.21	2.16	2.11	2.10

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PLATTE RIVER BASIN

06770500 PLATTE RIVER NEAR GRAND ISLAND, NE

LOCATION.--Lat 40°52'28", long 098°16'54", in SW ¼ SW ¼ sec.31, T.11 N., R.8 W., Merrick County, Hydrologic Unit 10200101, on left bank 20 ft downstream from bridge on U.S. Highway 34, 2 mi upstream from Burlington Northern Inc. bridge, 5 mi southeast of Grand Island, and at mile 70.0.

DRAINAGE AREA.--57,650 mi^2., of which about 52,940 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--October 1933 to current year.

REVISED RECORDS.--WSP 956: 1935. WSP 1390: 1942. WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,831.90 ft above sea level (Nebraska Department of Highway's benchmark). Prior to Oct. 23, 1933, nonrecording gage at bridge 68 ft downstream, and Oct. 23, to Aug. 19, 1980, water-stage recorder at site 90 ft downstream, all at same datum. Data collection platform at station.

REMARKS.--Records good except for periods of estimated record, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs (since storage in Lake McConaughy in 1942), power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

EXTREMES OUTSIDE OF REGULATED PERIOS.--Maximum discharge, 30,000 ft^3/s June 6, 1935, gage height 5.99 ft, from rating curve extended above 18,000 ft^3/s; no flow at times during 1934-41.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3480	2810	3000	3260	3100	3000	1580	2330	1620	761	1220	473
2	3700	2780	2960	3200	2840	2700	2410	2350	1600	755	1080	461
3	3820	2760	2940	3320	2450	2840	2510	2150	1580	791	763	458
4	3830	2810	2970	3160	3330	2840	2620	1970	1530	1190	634	443
5	3940	2880	2970	2700	3390	2780	2520	1990	1520	1640	591	472
6	3950	2940	2870	3290	3420	2780	2450	1970	1490	2830	605	494
7	3960	3000	2770	3290	3480	2860	2400	1950	1430	2460	570	444
8	3980	2960	2720	3280	3400	3040	2350	2190	1420	1950	538	473
9	3880	2940	2670	3340	2640	3030	2310	2210	1420	1610	523	384
10	3710	2970	2650	3320	3000	2900	2450	2140	1320	1410	543	463
11	3560	3050	2740	3240	2960	2820	2500	2000	1210	1320	517	595
12	3230	3000	2840	3290	2890	2710	2500	2000	1180	1110	507	585
13	2450	3060	2740	3260	2870	2840	2460	2030	1260	1030	504	580
14	3010	3060	2620	3120	2900	3010	2440	1990	1120	860	504	492
15	3240	3110	2630	3050	2870	3040	2490	1830	987	742	496	472
16	3230	3110	2670	3150	2920	2780	2750	1720	937	730	502	453
17	3120	3030	2810	2970	2890	2600	2700	1710	921	764	481	420
18	3030	2900	2870	2970	2850	2580	2610	1690	949	775	433	383
19	2880	2840	2850	2980	2780	2670	2560	1520	933	764	495	373
20	2730	2850	2770	2850	2770	2940	2470	1150	1250	759	533	426
21	2720	2830	2350	2720	2960	2950	2330	1100	2180	789	544	468
22	2770	2900	2400	2830	3070	2890	2330	1940	2290	918	589	479
23	2880	3000	2660	2880	3300	3010	2240	1930	2020	819	611	479
24	2890	2910	3340	2870	3740	3190	2270	1520	1930	797	528	555
25	2800	2870	3300	2750	3260	2720	2380	1360	1720	769	508	632
26	2770	2860	3340	2810	2970	2790	2440	1400	1400	980	547	626
27	2800	2890	3200	2720	2990	3000	2330	1720	1260	855	565	500
28	2590	3000	3140	2830	3060	3040	2310	1800	1090	965	568	579
29	2680	2990	3160	2990	3060	3090	2300	1810	878	975	533	625
30	2750	3020	3160	3010	---	2980	2130	1710	793	1130	497	690
31	2780	---	3230	3070	---	2000	---	1620	---	1300	453	---
TOTAL	99160	88130	89340	94520	88160	88420	72140	56800	41238	34548	17982	14977
MEAN	3199	2938	2882	3049	3040	2852	2405	1832	1375	1114	580	499
MAX	3980	3110	3340	3340	3740	3190	2750	2350	2290	2830	1220	690
MIN	2450	2760	2350	2700	2450	2000	1580	1100	793	730	433	373
AC-FT	196700	174800	177200	187500	174900	175400	143100	112700	81800	68530	35670	29710

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2000, BY WATER YEAR (WY)

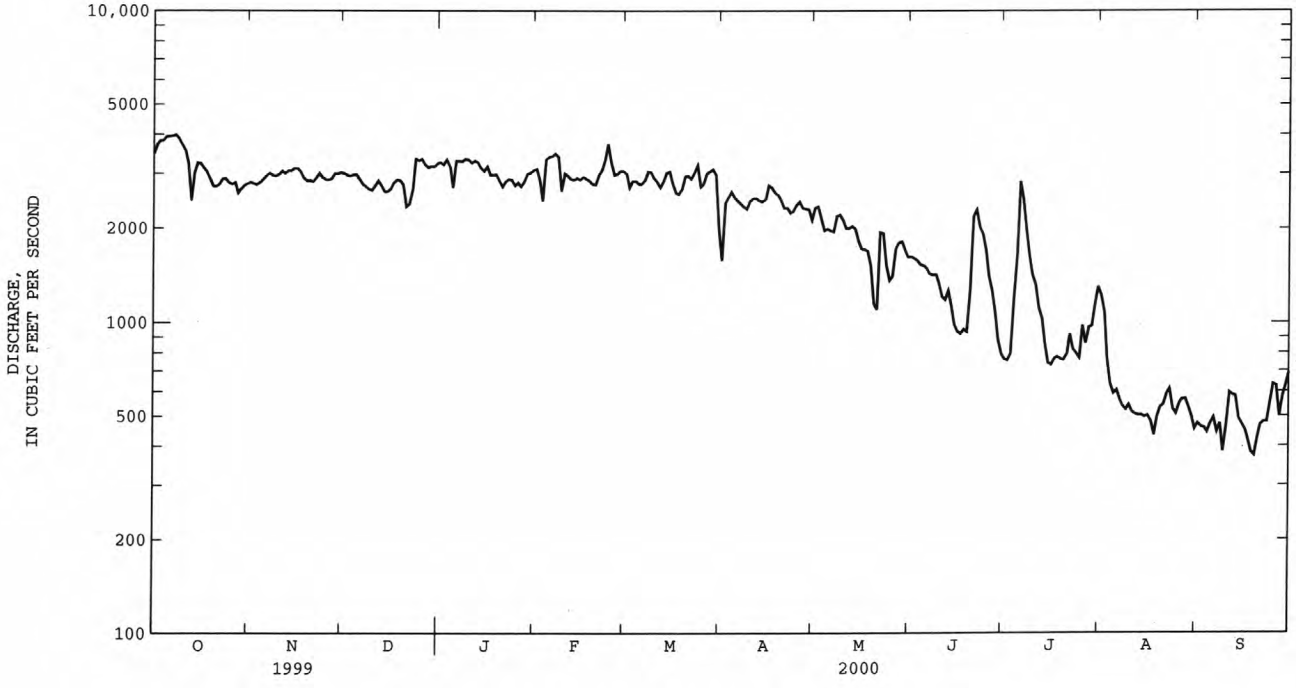
MEAN	1317	1409	1429	1531	2050	2419	2092	2307	2571	1208	624	984
MAX	6970	5250	4607	4955	7065	7051	9906	12190	17000	10810	5865	6575
(WY)	1974	1985	1985	1984	1984	1984	1984	1984	1983	1983	1983	1983
MIN	.000	.000	.000	37.0	418	769	544	148	20.0	.000	.000	.000
(WY)	1942	1942	1942	1942	1942	1957	1967	1955	1956	1953	1953	1953

PLATTE RIVER BASIN

06770500 PLATTE RIVER NEAR GRAND ISLAND, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1942 - 2000 a	
ANNUAL TOTAL	1173670		785415			
ANNUAL MEAN	3216		2146		1658	
MEDIAN OF ANNUAL MEANS					1340	
HIGHEST ANNUAL MEAN					5380	1983
LOWEST ANNUAL MEAN					414	1956
HIGHEST DAILY MEAN	11700	May 14	3980	Oct 8	23500	Jun 30 1983
LOWEST DAILY MEAN	746	Jul 31	373	Sep 19	*.00	Oct 1 1941
ANNUAL SEVEN-DAY MINIMUM	836	Jul 26	428	Sep 15	.00	Oct 1 1941
INSTANTANEOUS PEAK FLOW			**4040	Oct 7	***23900	Jun 30 1983
INSTANTANEOUS PEAK STAGE			2.91	Feb 24	****6.16	Mar 27 1960
ANNUAL RUNOFF (AC-FT)	2328000		1558000		1201000	
10 PERCENT EXCEEDS	5350		3210		3300	
50 PERCENT EXCEEDS	2800		2570		1190	
90 PERCENT EXCEEDS	1690		533		146	

e Estimated.
a Since beginning of storage in Lake McConaughy.
* No flow at times in many years.
** Stage 2.84 ft.
*** Stage 5.97 ft.
**** Backwater from ice.



PLATTE RIVER BASIN

06772775 WARM SLOUGH NEAR CENTRAL CITY, NE

LOCATION.--Lat 41°05'27", long 098°04'39", in SW ¼ SW ¼ sec.13, T.11 N., R.7 W., Merrick County, Hydrologic Unit 10200103, on downstream side of county road bridge, 4 mi southwest of Central City.

PERIOD OF RECORD.--May 1996 to current year.

REVISED RECORDS.--WSP 1310: 1902, 1906-7, 1948(P). WSP 1440: 1903-4. WDR CO-86-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,718 ft above sea level.

REMARKS.--Records fair except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	e.45	e.13	e3.8	3.8	4.2	4.5	.00	.00	.00
2	.00	.00	.00	e.45	e.09	4.1	3.9	4.5	4.0	.00	.00	.00
3	.00	.00	.00	e.40	e.10	4.2	3.5	4.4	3.7	.00	.00	.00
4	.00	.00	.00	e.30	e.11	4.2	3.4	4.1	3.8	.31	.00	.00
5	.00	.00	.00	e.20	e.11	4.2	3.7	4.0	3.4	.00	.00	.00
6	.00	.00	.00	e.21	e.12	4.1	3.4	3.8	3.2	.00	.00	.00
7	.00	.00	.19	e.23	e.14	3.9	3.3	4.0	3.1	.00	.00	.00
8	.00	.00	.76	e.24	e.15	4.5	3.1	4.1	2.9	.00	.00	.00
9	.00	.00	.00	e.25	e.17	3.7	3.1	3.9	2.5	.00	.00	.00
10	.00	.00	.00	e.26	e.18	3.7	3.2	4.0	1.7	.00	.00	.00
11	.00	.00	.29	e.24	e.16	3.7	2.8	4.1	.92	.00	.00	.00
12	.00	.00	1.1	e.22	e.15	3.8	2.7	3.7	.00	.00	.00	.00
13	.00	.00	.87	e.21	e.14	4.3	2.9	3.4	.42	.00	.00	.00
14	.00	.00	1.4	e.23	e.13	4.2	3.1	3.2	.81	.00	.00	.00
15	.00	.00	1.5	e.20	e.14	3.9	2.9	3.1	.45	.00	.00	.00
16	.00	.00	e1.0	e.20	e.30	3.4	3.6	3.2	.36	.00	.00	.00
17	.00	.00	e.90	e.22	e.25	3.4	3.9	3.3	.03	.00	.00	.00
18	.00	.00	e.80	e.23	e.23	3.7	4.9	3.4	.00	.00	.00	.00
19	.00	.00	e.50	e.23	e.20	3.9	5.5	3.0	.00	.00	.00	.00
20	.00	.00	e.30	e.25	e.25	4.3	5.5	3.0	.37	.00	.00	.00
21	.00	.00	e.29	e.23	e.30	4.6	5.2	3.3	.57	.00	.00	.00
22	.00	.00	e.30	e.21	e.40	4.6	5.4	3.3	.00	.00	.00	.00
23	.00	.00	e.35	e.21	e.55	5.1	5.1	3.2	.00	.00	.00	.00
24	.00	.00	e.40	e.19	e.90	5.5	4.8	2.9	.00	.00	.00	.00
25	.00	.00	e.45	e.19	e1.3	6.2	4.8	2.7	.00	.00	.00	.00
26	.00	.00	e.50	e.17	e1.7	6.2	4.3	3.4	.00	.00	.00	.00
27	.00	.00	e.50	e.16	e2.5	5.5	4.2	4.6	.00	.00	.00	.00
28	.00	.00	e.52	e.15	e3.0	5.2	4.2	4.4	.00	.00	.00	.00
29	.00	.00	e.52	e.15	e3.3	4.6	4.3	4.8	.00	.00	.00	.00
30	.00	.00	e.50	e.15	---	4.2	4.1	5.1	.00	.00	.00	.00
31	.00	---	e.40	e.15	---	3.8	---	4.7	---	.00	.00	---
TOTAL	0.00	0.00	14.34	7.18	17.20	134.5	118.6	116.8	36.73	0.31	0.00	0.00
MEAN	.000	.000	.46	.23	.59	4.34	3.95	3.77	1.22	.010	.000	.000
MAX	.00	.00	1.5	.45	3.3	6.2	5.5	5.1	4.5	.31	.00	.00
MIN	.00	.00	.00	.15	.09	3.4	2.7	2.7	.00	.00	.00	.00
AC-FT	.00	.00	28	14	34	267	235	232	73	.6	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

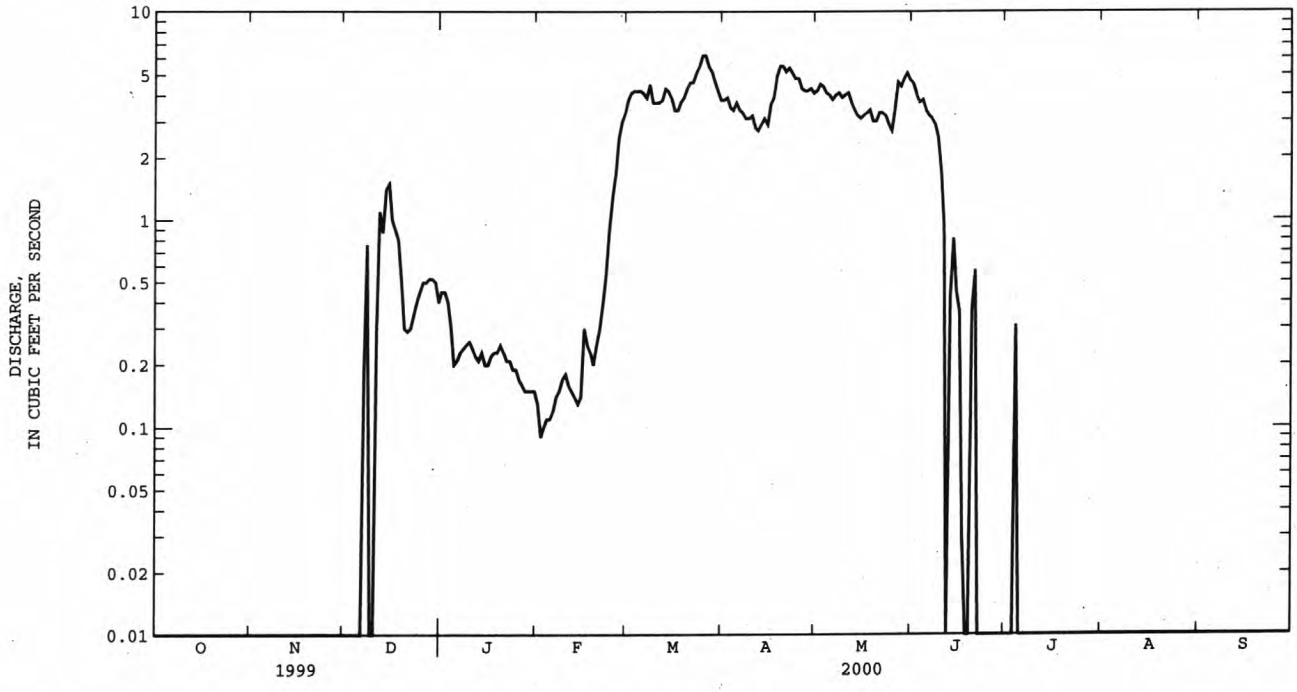
MEAN	4.88	8.66	5.86	4.53	6.89	11.1	24.0	23.1	29.7	3.11	.67	.45
MAX	19.4	23.1	14.4	9.50	14.0	23.2	66.7	36.8	68.2	10.8	2.73	2.26
(WY)	1998	1998	1998	1998	1998	1998	1998	1998	1998	1999	1997	1997
MIN	.000	.000	.46	.23	.59	4.34	.000	3.77	1.22	.010	.000	.000
(WY)	1997	2000	2000	2000	2000	2000	1996	2000	2000	2000	1996	1996

PLATTE RIVER BASIN

06772775 WARM SLOUGH NEAR CENTRAL CITY, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL TOTAL	3898.49		445.66			
ANNUAL MEAN	10.7		1.22		10.7	
HIGHEST ANNUAL MEAN					23.1	1998
LOWEST ANNUAL MEAN					1.22	2000
HIGHEST DAILY MEAN	135	Apr 16	6.2	Mar 25	413	Apr 8 1998
LOWEST DAILY MEAN	.00	Feb 1	.00	Oct 1	.00	Apr 1 1996
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 28	.00	Oct 1	.00	Apr 1 1996
INSTANTANEOUS PEAK FLOW			*6.7	Mar 26	443	Apr 8 1998
INSTANTANEOUS PEAK STAGE			**3.57	Feb 25	8.04	Apr 8 1998
ANNUAL RUNOFF (AC-FT)	7730		884		7720	
10 PERCENT EXCEEDS	29		4.2		25	
50 PERCENT EXCEEDS	2.8		.15		3.6	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated.
* Stage 3.48 ft.
** Backwater from ice.



PLATTE RIVER BASIN

06772898 SILVER CREEK, AT MILE 4, NEAR SILVER CREEK, NE

LOCATION.--Lat 41°17'51", long 097°42'50", in NW ¼ SW ¼ sec.6, T.15 N., R.3 W., Merrick County, Hydrologic Unit 10200103, on downstream side of county road bridge, 3 mi southwest of Silver Creek, and at mile 4.0.

DRAINAGE AREA.--160 mi^2, approximately.

PERIOD OF RECORD.--April 1996 to current year.

REVISED RECORDS.--WDR NE-99-1: 1998(M)

GAGE.--Water-stage recorder. Elevation of gage is 1,556 ft above sea level.

REMARKS.--Records fair except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.85	1.9	3.9	5.5	4.1	8.0	7.4	6.3	3.7	.00	.00	.00
2	.73	1.8	4.0	5.6	5.6	7.9	7.4	6.2	3.5	.00	.00	.00
3	.76	1.9	4.4	5.1	6.4	8.1	7.3	5.7	3.3	.14	.00	.00
4	.76	2.1	4.2	6.0	6.0	e8.0	7.3	5.5	3.2	.08	.00	.00
5	.78	2.3	3.6	5.7	6.6	e8.0	7.2	5.3	3.0	.00	.00	.00
6	.78	2.2	4.0	3.6	6.7	e8.0	6.9	5.3	2.8	.00	.00	.00
7	.79	2.2	4.2	4.1	6.6	e8.6	6.7	5.6	2.5	.00	.00	.00
8	.83	2.3	4.5	4.8	6.2	e8.6	6.7	6.3	2.3	.00	.00	.00
9	.84	2.4	4.1	5.4	6.8	e8.6	7.3	5.8	2.0	.00	.00	.00
10	.80	2.3	3.8	6.1	7.0	e8.0	7.1	5.6	1.8	.07	.00	.00
11	.80	2.3	4.1	5.9	5.4	e8.0	6.8	5.4	1.7	.00	.00	.00
12	.89	2.5	4.3	5.2	5.2	e8.0	6.7	4.8	1.7	.00	.00	.00
13	.92	2.6	4.1	6.2	5.7	e8.0	6.8	4.6	1.7	.00	.00	.00
14	1.1	2.6	4.7	4.5	6.6	e8.0	6.7	4.5	1.4	.00	.00	.00
15	1.1	2.8	3.5	5.6	7.6	e8.6	6.7	4.4	1.3	.11	.00	.00
16	1.0	2.9	4.1	4.8	6.5	e8.6	8.2	4.3	1.2	.00	.00	.00
17	1.1	3.1	4.2	5.3	7.1	8.4	7.5	4.3	1.1	.00	.00	.00
18	1.1	3.2	4.3	5.8	5.7	8.4	7.4	4.4	1.1	.00	.00	.00
19	1.2	3.0	4.6	6.2	6.5	8.4	7.3	4.2	1.0	.03	.00	.00
20	1.3	3.0	4.6	5.0	8.4	8.3	7.1	4.0	.96	.16	.00	.00
21	1.3	3.3	4.6	5.3	8.5	8.0	6.8	3.9	.84	.00	.00	.00
22	1.2	3.2	4.7	5.8	8.4	8.0	6.8	3.6	.67	.00	.00	.00
23	1.2	4.1	4.4	5.5	9.0	8.9	6.7	3.5	.49	.00	.00	.00
24	1.3	3.6	3.5	6.7	8.9	8.9	6.5	3.3	.60	.00	.00	.00
25	1.4	3.7	4.2	5.4	9.2	8.2	6.4	3.1	.58	.00	.00	.00
26	1.4	3.9	4.8	5.6	8.5	8.0	6.6	4.9	.40	.00	.00	.00
27	1.5	3.6	5.1	4.7	8.0	7.9	6.4	5.3	.27	.00	.00	.00
28	1.4	3.4	5.3	4.4	8.2	7.8	6.2	4.1	.38	.72	.00	.00
29	1.6	3.3	5.5	4.7	8.3	7.6	6.1	3.9	.09	.00	.00	.00
30	1.6	3.5	5.3	4.6	---	7.4	6.2	3.9	.00	.00	.00	.00
31	1.8	---	5.0	5.1	---	7.2	---	3.7	---	.00	.00	---
TOTAL	34.13	85.0	135.6	164.2	203.7	252.4	207.2	145.7	45.58	1.31	0.00	0.00
MEAN	1.10	2.83	4.37	5.30	7.02	8.14	6.91	4.70	1.52	.042	.000	.000
MAX	1.8	4.1	5.5	6.7	9.2	8.9	8.2	6.3	3.7	.72	.00	.00
MIN	.73	1.8	3.5	3.6	4.1	7.2	6.1	3.1	.00	.00	.00	.00
AC-FT	68	169	269	326	404	501	411	289	90	2.6	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

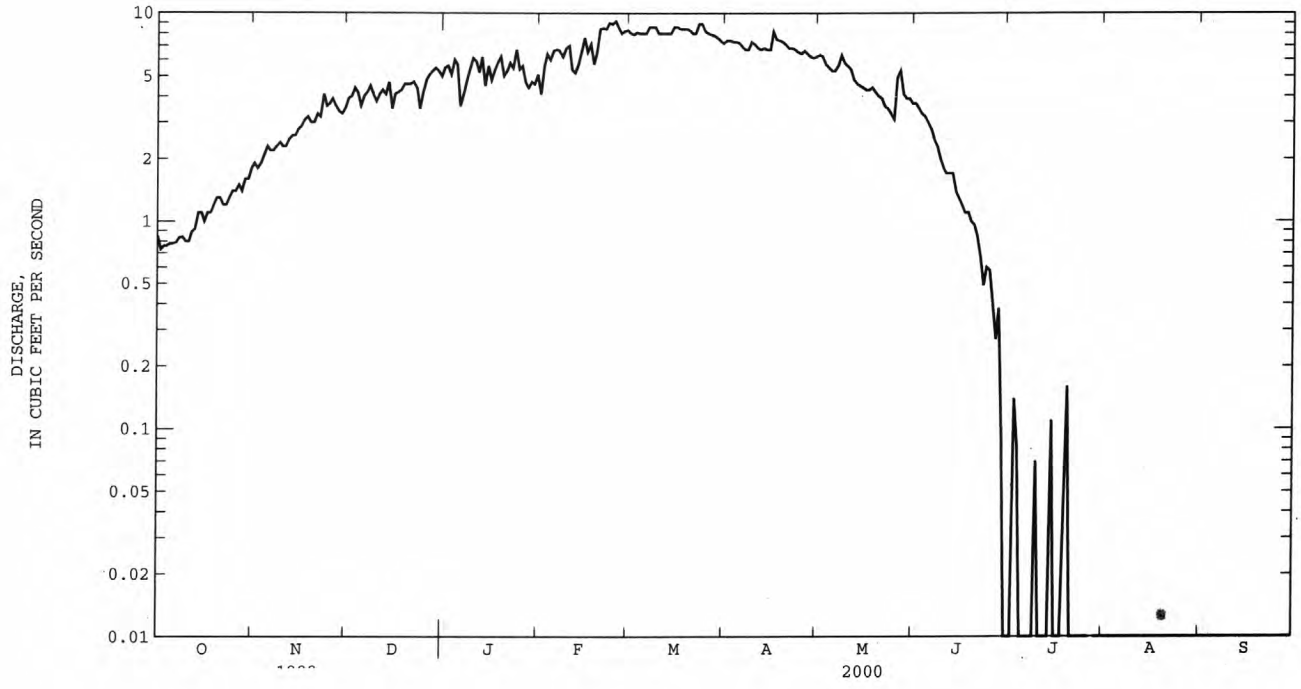
MEAN	4.81	19.1	12.0	10.7	16.1	30.0	78.2	48.4	113	17.8	6.09	2.47
MAX	6.44	31.0	16.6	14.6	21.4	68.1	197	113	307	52.6	16.2	7.15
(WY)	1997	1997	1997	1999	1999	1998	1998	1999	1999	1999	1996	1996
MIN	1.10	2.83	4.37	5.30	7.02	8.14	6.91	4.70	1.52	.042	.000	.000
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000

PLATTE RIVER BASIN

06772898 SILVER CREEK, AT MILE 4, NEAR SILVER CREEK, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL TOTAL	19230.57		1274.82			
ANNUAL MEAN	52.7		3.48		30.4	
HIGHEST ANNUAL MEAN					55.5	1999
LOWEST ANNUAL MEAN					3.48	2000
HIGHEST DAILY MEAN	2100	Jun 1	9.2	Feb 25	2100	Jun 1 1999
LOWEST DAILY MEAN	.73	Oct 2	.00	Jun 30	.00	Aug 27 1997
ANNUAL SEVEN-DAY MINIMUM	.77	Sep 28	.00	Jul 21	.00	Aug 27 1997
INSTANTANEOUS PEAK FLOW			18	Jul 28	3070	Jun 1 1999
INSTANTANEOUS PEAK STAGE			4.91	Jul 28	9.11	Jun 1 1999
ANNUAL RUNOFF (AC-FT)	38140		2530		22020	
10 PERCENT EXCEEDS	88		7.9		56	
50 PERCENT EXCEEDS	18		3.6		11	
90 PERCENT EXCEEDS	1.2		.00		.56	

e Estimated.



PLATTE RIVER BASIN

06773500 PRAIRIE CREEK NEAR SILVER CREEK, NE

LOCATION (REVISED).--Lat 41°19'43", long 097°40'30", in NW ¼ SW ¼ sec.28, T.16 N., R.3 W., Merrick County, Hydrologic Unit 10200103, on the downstream side of bridge on Nebraska Highway 34, 2 mi northwest of Silver Creek.

DRAINAGE AREA.--492 mi^2.

PERIOD OF RECORD.--August 1949 to September 1953. October 1996 to current year.

REVISED RECORDS.--WDR NE-97-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,550 ft above sea level.

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	9.4	13	18	21	16	14	13	8.9	.77	.15	.00
2	6.8	8.4	12	16	25	15	14	13	8.1	.67	.43	.00
3	6.9	9.1	13	14	26	14	13	13	7.7	.57	.29	.00
4	7.7	9.3	13	11	27	14	13	13	7.2	1.7	.30	.00
5	8.0	8.9	11	14	23	14	14	12	6.4	.60	.41	.00
6	8.0	8.6	13	17	20	14	13	12	6.1	.48	.16	.00
7	9.3	9.3	13	20	29	14	13	13	5.9	.38	.00	.00
8	8.0	9.9	13	21	28	15	12	13	5.2	25	.00	.00
9	8.4	11	12	22	19	14	13	13	4.4	23	.00	.00
10	8.1	9.6	11	22	18	13	12	13	4.1	12	.00	.00
11	7.9	9.9	11	23	16	14	12	13	3.6	5.7	.00	.00
12	8.4	10	12	22	19	16	12	12	4.1	2.4	.00	.00
13	7.5	10	11	30	19	14	13	11	3.9	.56	.00	.00
14	8.1	9.8	12	25	23	14	13	11	3.0	.61	.00	.00
15	8.3	10	10	25	18	14	11	11	2.2	.45	.00	.00
16	7.0	11	14	30	16	12	15	11	1.7	.51	.00	.00
17	7.0	11	15	28	18	13	15	11	1.4	.50	.00	.00
18	9.1	11	19	29	14	13	16	12	1.3	.10	.00	.00
19	8.0	10	18	27	18	14	19	11	1.1	.08	.15	.00
20	8.1	10	21	31	18	14	18	11	1.2	1.6	.00	.00
21	8.9	11	14	30	21	14	17	11	.79	.21	.00	.00
22	8.2	10	20	25	19	16	16	10	.95	.05	.00	.00
23	7.8	12	22	27	22	19	15	9.9	1.0	.34	.10	.00
24	8.9	12	22	28	22	20	15	9.0	2.2	.02	.00	.00
25	9.4	13	23	20	26	18	14	8.4	1.8	.30	.00	.00
26	9.2	13	23	23	25	18	14	11	1.2	.30	.00	.00
27	9.4	12	24	22	25	19	14	15	.97	.00	.00	.00
28	9.1	12	26	24	22	16	13	11	1.1	2.7	.00	.00
29	9.9	12	25	23	18	16	13	11	.79	.83	.00	.00
30	9.8	13	20	23	---	15	13	9.9	.72	.48	.00	.00
31	9.3	---	16	22	---	14	---	8.8	---	.25	.00	---
TOTAL	258.1	316.2	502	712	615	466	419	357.0	99.02	83.16	1.99	0.00
MEAN	8.33	10.5	16.2	23.0	21.2	15.0	14.0	11.5	3.30	2.68	.064	.000
MAX	9.9	13	26	31	29	20	19	15	8.9	25	.43	.00
MIN	6.8	8.4	10	11	14	12	11	8.4	.72	.00	.00	.00
AC-FT	512	627	996	1410	1220	924	831	708	196	165	3.9	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

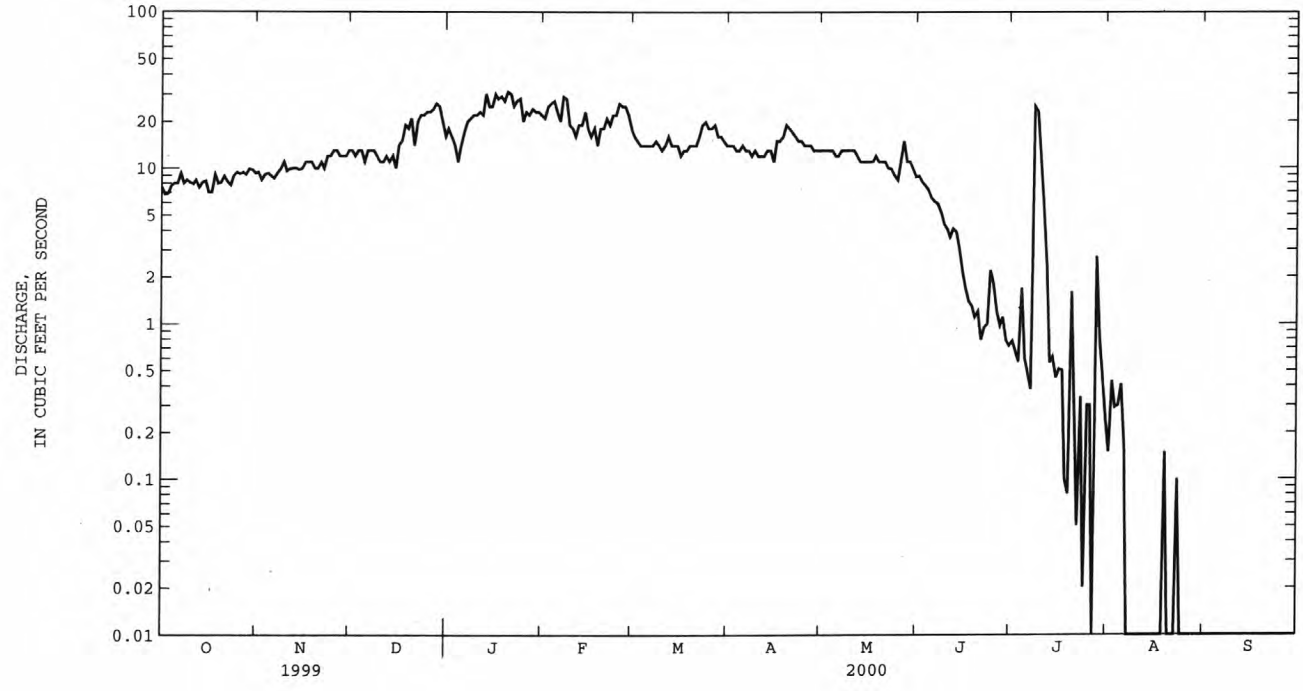
MEAN	30.5	48.3	24.3	24.2	30.4	53.1	128	100	185	61.2	34.3	26.5
MAX	90.0	80.8	36.9	29.7	38.6	133	435	182	415	146	55.3	86.8
(WY)	1998	1998	1998	1998	1998	1998	1998	1999	1999	1999	1999	1997
MIN	8.33	10.5	16.2	20.1	21.2	15.0	14.0	11.5	3.30	2.68	.064	.000
(WY)	2000	2000	2000	1997	2000	2000	2000	2000	2000	2000	2000	2000

PLATTE RIVER BASIN

06773500 PRAIRIE CREEK NEAR SILVER CREEK, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL TOTAL	32351.2		3829.47			
ANNUAL MEAN	88.6		10.5		63.6	
HIGHEST ANNUAL MEAN					113	1998
LOWEST ANNUAL MEAN					10.5	2000
HIGHEST DAILY MEAN	1460	Jun 28	31	Jan 20	1590	Apr 10 1998
LOWEST DAILY MEAN	6.8	Oct 2	*.00	Jul 27	*.00	Jul 27 2000
ANNUAL SEVEN-DAY MINIMUM	7.6	Sep 30	.00	Aug 7	.00	Aug 7 2000
INSTANTANEOUS PEAK FLOW			60	Feb 7	1640	Apr 10 1998
INSTANTANEOUS PEAK STAGE			3.41	Feb 7	9.29	Apr 10 1998
ANNUAL RUNOFF (AC-FT)	64170		7600		46050	
10 PERCENT EXCEEDS	202		22		132	
50 PERCENT EXCEEDS	30		11		27	
90 PERCENT EXCEEDS	9.3		.00		8.2	

* Many days.



PLATTE RIVER BASIN

06774000 PLATTE RIVER NEAR DUNCAN, NE

LOCATION.--Lat 41°22'04", long 097°29'40", in SE ¼ SW ¼ sec.12, T.16 N., R.2 W., Platte County, Hydrologic Unit 10200103, on left bank near northwest corner of county bridge, 1.5 mi south of Duncan, and 15.3 mi upstream from Loup River, and at mile 114.

DRAINAGE AREA.--59,300 mi^2, of which about 54,630 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--June 1895 to December 1909 (irrigation seasons only 1885-1900). July 1910 to December 1911 (gage heights and discharge measurements only), April 1912 to September 1915, June 1928 to current year. Published as "near Columbus" 1895-1915.

REVISED RECORDS.--WSP 956: 1935. WSP 1390: 1897, 1899-1901, 1903-05, 1929-32, 1935(M), 1936. WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 1,476.82 ft above sea level. June 1895 to December 1909, April 1912 to September 1915, and June to October 1928, nonrecording gage at site 7 mi downstream at different datums. Oct. 25, 1928, to Feb. 20, 1935, nonrecording gage, and Feb. 20, 1935 to Mar. 21, 1984, recording gage both at present site at 2.00 ft higher datum. Mar. 22, 1984, to Mar. 4, 1987, at site 300 ft downstream at present datum. Data collection platform at station.

REMARKS.--Records good except for periods of estimated record, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

EXTREMES PRIOR TO REGULATION.--Maximum discharge, 44,100 ft^3/s June 23, 1905, gage height 6.50 ft, site and datum than in use. No flow at times in 1896, 1902, 1904-05, 1910-11, 1913-14, 1928, all at site downstream, 1931, 1933-41.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3230	2980	2950	3530	3360	3950	2690	2020	1690	590	983	402
2	3310	2980	2950	3550	3580	3900	1870	2110	1700	492	1190	372
3	3620	3010	2990	3570	3600	3440	2050	2340	1720	460	1150	367
4	3770	2960	3040	3440	2740	3520	2420	2220	1580	599	1020	408
5	3770	2910	3060	2910	3250	3580	2520	2020	1510	1040	767	325
6	3810	2950	3080	2430	3810	3540	2560	1930	1480	1080	637	313
7	3790	3000	3030	3360	3930	3460	2480	1900	1440	2180	614	321
8	3710	3040	2990	3610	3910	3490	2540	1840	1350	2770	567	361
9	3710	3000	2930	3630	3880	3440	2550	2010	1340	2310	503	334
10	3610	2940	2940	3770	3070	3450	2460	1900	1270	1930	450	362
11	3560	3010	2930	3810	3220	3250	2330	1790	1170	1650	450	259
12	3450	3080	2930	3800	e2700	3070	2470	1630	1140	1360	424	374
13	3230	3100	2970	3740	e2400	2700	2490	1590	980	1110	375	518
14	2600	3090	2880	3790	e2800	2930	2520	1700	988	835	333	503
15	2600	3120	2760	3760	3580	3040	2400	1720	1030	728	247	472
16	2890	3160	2830	3540	3440	3060	2780	1680	873	556	223	409
17	2960	3150	2760	3580	3520	2790	3040	1680	803	557	209	350
18	3010	3090	2820	3530	3680	2530	2830	1670	830	674	221	290
19	2990	2840	2890	3520	3380	2680	2810	1760	800	695	371	252
20	2970	2820	2880	3450	3230	2780	2800	1670	776	876	452	248
21	2860	2820	2730	3360	3180	3240	2930	1410	736	694	386	275
22	2800	2810	2520	3300	3420	3400	2600	1050	1580	660	393	346
23	2760	3020	2680	3290	3860	3570	2480	1400	2270	735	507	351
24	2760	3040	3050	3250	4190	3690	2430	2050	2320	755	533	397
25	2760	2930	3740	3190	4740	3680	2500	1640	1990	649	481	469
26	2780	2840	3840	2730	4200	3120	2660	1620	1660	584	387	554
27	2820	2780	3790	2830	3890	2870	2730	1730	1290	601	372	592
28	2840	2760	3640	2670	3900	3190	2360	1700	1030	1130	430	560
29	2810	2810	3530	2600	3950	3310	2160	1880	902	841	456	439
30	2900	2860	3490	2740	---	3380	2040	1930	755	844	473	499
31	2990	---	3510	3000	---	3410	---	1810	---	766	415	---
TOTAL	97670	88900	95130	103280	102410	101460	75500	55400	39003	30751	16019	11722
MEAN	3151	2963	3069	3332	3531	3273	2517	1787	1300	992	517	391
MAX	3810	3160	3840	3810	4740	3950	3040	2340	2320	2770	1190	592
MIN	2600	2760	2520	2430	2400	2530	1870	1050	736	460	209	248
AC-FT	193700	176300	188700	204900	203100	201200	149800	109900	77360	60990	31770	23250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2000, BY WATER YEAR (WY)

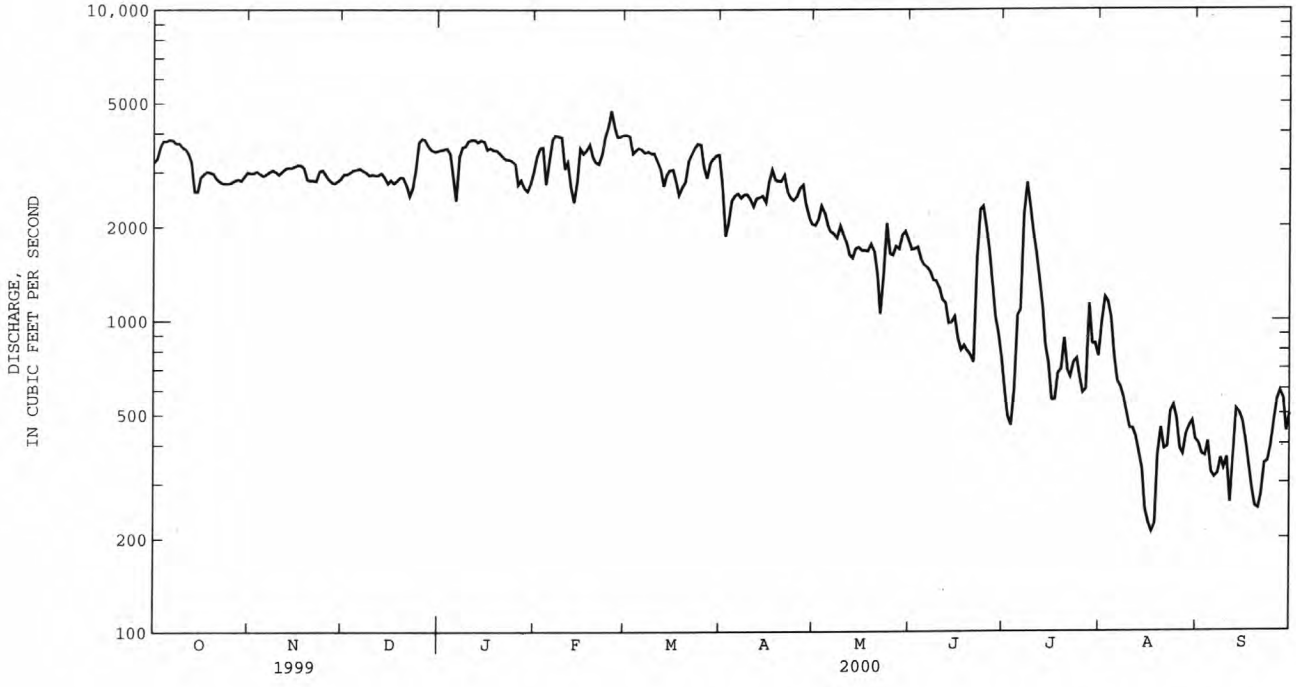
MEAN	1408	1561	1518	1578	2336	2960	2546	2655	2966	1472	671	984
MAX	6673	5617	5107	5603	8795	9531	13410	15450	18320	12590	6135	6785
(WY)	1974	1985	1985	1984	1984	1984	1984	1984	1983	1983	1983	1983
MIN	.000	.000	15.7	44.5	269	820	574	150	11.3	.000	.000	.000
(WY)	1957	1957	1942	1942	1942	1957	1967	1955	1956	1956	1956	1956

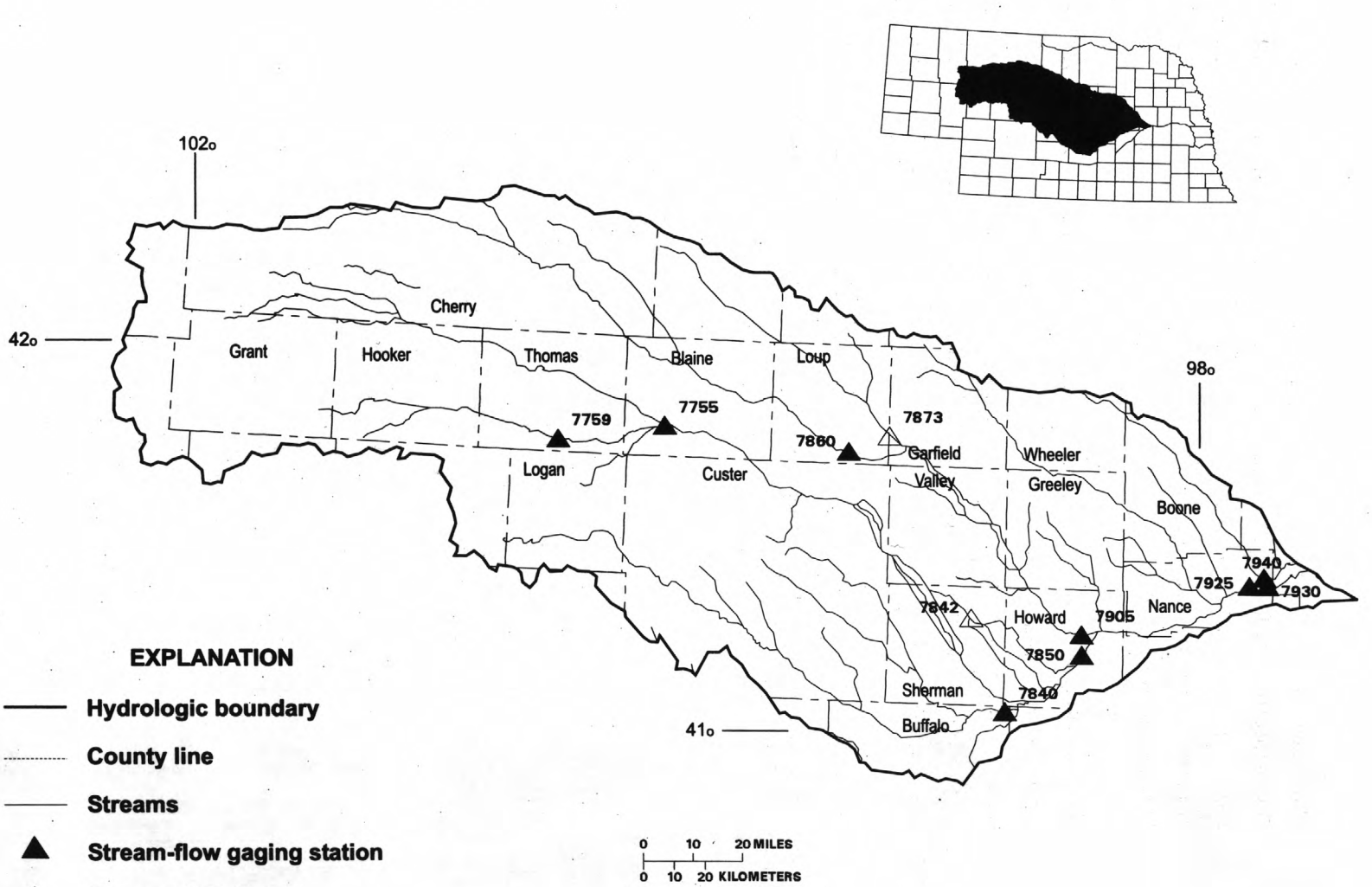
PLATTE RIVER BASIN

06774000 PLATTE RIVER NEAR DUNCAN, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1942 - 2000	
ANNUAL TOTAL	1312710		817245			
ANNUAL MEAN	3596		2233		1883	
MEDIAN OF ANNUAL MEANS					1430	
HIGHEST ANNUAL MEAN					6652	1984
LOWEST ANNUAL MEAN					494	1956
HIGHEST DAILY MEAN	11300	May 15	4740	Feb 25	23800	Jul 1 1983
LOWEST DAILY MEAN	1070	Aug 1	209	Aug 17	.00	Jan 4 1942
ANNUAL SEVEN-DAY MINIMUM	1170	Jul 29	283	Aug 13	.00	Oct 1 1943
INSTANTANEOUS PEAK FLOW			4890	Feb 25	*25400	Mar 28 1960
INSTANTANEOUS PEAK STAGE			5.09	Feb 25	**7.86	Mar 11 1993
ANNUAL RUNOFF (AC-FT)	2604000		1621000		1364000	
10 PERCENT EXCEEDS	6210		3600		3990	
50 PERCENT EXCEEDS	2950		2680		1300	
90 PERCENT EXCEEDS	2070		447		104	

e Estimated.
* Stage 6.36 ft.
** Backwater from ice.





EXPLANATION

- **Hydrologic boundary**
- **County line**
- **Streams**
- ▲ **Stream-flow gaging station**
- △ **Reservoir station**

NOTE: To change abbreviated station number to complete station number, prefix with "06" and add zero's required to give eight digits.

*Station number	Station name	Page
7755	Middle Loup River at Dunning	118
7759	Dismal River near Thedford	120
7840	South Loup River at St. Michael	122
7842	Sherman Reservoir near Loup City	125
7850	Middle Loup River at St. Paul	126
7860	North Loup River at Taylor	130
7873	Calamus Reservoir near Burwell	132
7905	North Loup River near St. Paul	134
7925	Loup River Power Canal near Genoa	138
7930	Loup River near Genoa	140
7940	Beaver Creek at Genoa	142

* NOTE: To change abbreviated station number to complete station number, prefix with "06" and add zeros required to give eight digits.

PLATTE RIVER BASIN

06775500 MIDDLE LOUP RIVER AT DUNNING, NE

LOCATION.--Lat 41°49'50", long 100°06'20", in NW ¼ SE ¼ sec.33, T.22 N., R.24 W., Blaine County, Hydrologic Unit 10210001, on left bank near upstream end of bridge on State Highway 2 at north edge of Dunning, 1.0 mi upstream from Dismal River, and at mile 204.

DRAINAGE AREA.--1,830 mi^2, of which about 79 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--September 1945 to current year.

REVISED RECORDS.--WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,604.14 ft above sea level. Prior to Sept. 12, 1946, nonrecording gage, and Sept. 12, 1946, to Sept. 30, 1962, water-stage recorder at site 0.2 mi upstream at datum 3.03 ft higher. Oct. 1, 1962, to May 15, 1989, at present site, and May 15, 1989, to Mar. 20, 1990, at site 0.2 mi upstream, both at datum 3.00 ft higher.

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	465	502	509	478	463	500	506	550	526	515	443	420
2	460	478	513	470	453	509	517	550	506	491	444	422
3	455	478	514	478	481	503	504	555	514	487	450	452
4	455	487	494	460	469	513	497	564	508	504	447	473
5	452	492	490	429	470	513	521	562	500	543	447	442
6	466	487	490	425	474	519	518	562	494	526	440	433
7	485	498	482	434	474	524	531	562	494	495	441	452
8	486	499	475	452	470	569	500	563	492	480	438	437
9	482	515	474	464	488	503	512	555	485	477	438	439
10	482	521	476	462	498	503	526	572	499	503	438	428
11	489	516	481	449	482	518	516	577	491	514	427	433
12	492	503	485	447	475	534	511	563	530	518	424	438
13	486	504	478	462	470	519	517	532	532	494	424	432
14	479	501	493	442	464	511	529	530	506	487	431	433
15	499	498	470	457	469	522	521	532	488	471	429	433
16	476	515	466	476	467	502	492	527	490	478	429	431
17	460	521	473	471	488	494	482	555	489	479	432	433
18	478	517	469	479	484	491	516	640	482	467	430	438
19	475	506	483	497	479	485	525	581	479	459	428	450
20	479	483	483	470	488	491	523	590	478	463	429	466
21	486	502	497	461	497	499	516	604	465	463	430	447
22	489	507	485	478	510	507	531	623	464	465	425	476
23	494	510	461	477	514	524	534	610	476	461	425	463
24	494	506	465	472	514	520	545	591	479	458	422	468
25	507	499	483	473	527	509	576	573	489	458	420	459
26	506	508	485	458	511	515	546	575	477	453	417	460
27	515	508	475	450	472	503	532	583	470	485	416	463
28	499	505	473	452	492	503	532	546	483	466	414	464
29	501	503	480	446	509	514	537	546	477	459	413	464
30	494	495	475	450	---	511	583	551	500	454	412	478
31	492	---	479	455	---	502	---	534	---	445	419	---
TOTAL	14978	15064	14956	14274	14052	15830	15696	17558	14763	14918	13322	13427
MEAN	483	502	482	460	485	511	523	566	492	481	430	448
MAX	515	521	514	497	527	569	583	640	532	543	450	478
MIN	452	478	461	425	453	485	482	527	464	445	412	420
AC-FT	29710	29880	29670	28310	27870	31400	31130	34830	29280	29590	26420	26630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2000, BY WATER YEAR (WY)

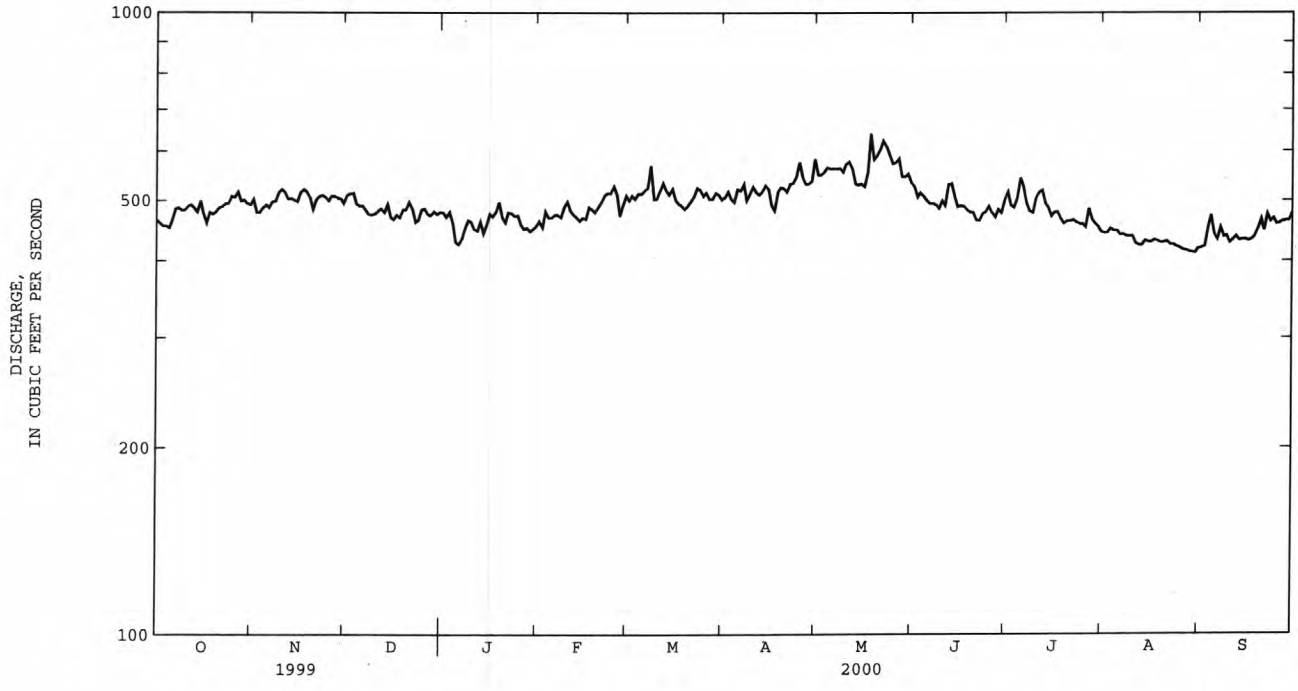
MEAN	410	420	416	410	430	456	456	445	422	397	398	401
MAX	519	517	509	494	526	544	553	590	545	491	490	504
(WY)	1997	1992	1994	1998	1998	1993	1995	1995	1995	1999	1998	1996
MIN	346	364	336	322	365	359	334	353	342	324	341	330
(WY)	1951	1948	1950	1949	1994	1968	1951	1948	1948	1970	1947	1955

PLATTE RIVER BASIN

06775500 MIDDLE LOUP RIVER AT DUNNING, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1946 - 2000	
ANNUAL TOTAL	180776		178838			
ANNUAL MEAN	495		489		422	
HIGHEST ANNUAL MEAN					498	1998
LOWEST ANNUAL MEAN					365	1950
HIGHEST DAILY MEAN	635	Jul 20	640	May 18	778	Apr 20 1971
LOWEST DAILY MEAN	380	Jan 3	412	Aug 30	100	Dec 5 1950
ANNUAL SEVEN-DAY MINIMUM	407	Jan 3	416	Aug 25	231	Jan 1 1949
INSTANTANEOUS PEAK FLOW			702	May 18	*2480	Mar 25 1996
INSTANTANEOUS PEAK STAGE			3.69	May 18	**7.02	Mar 31 1949
ANNUAL RUNOFF (AC-FT)	358600		354700		305400	
10 PERCENT EXCEEDS	535		533		501	
50 PERCENT EXCEEDS	491		486		415	
90 PERCENT EXCEEDS	462		438		351	

* Caused by ice jam release upstream, stage 6.15 ft.
** Backwater from ice.



PLATTE RIVER BASIN

06775900 DISMAL RIVER NEAR THEDFORD, NE
(Hydrologic bench-mark station)

LOCATION.--Lat 41°46'45", long 100°31'30", in SE ¼ NW ¼ sec.23, T.21 N., R.28 W., Thomas County, Hydrologic Unit 10210002, on right bank 1,400 ft downstream from bridge on U.S. Highway 83, 2 mi upstream from boundary of Nebraska National Forest (Bessey Division), 14 mi south of Thedford, and at mile 32.9.

DRAINAGE AREA.--966 mi^2, approximately, of which about 30 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--October 1966 to current year.

REVISED RECORDS.--WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,800.13 ft above sea level.

REMARKS.--Records fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	230	228	234	244	216	231	222	242	234	242	229	226
2	223	219	237	245	227	234	224	236	237	233	232	229
3	227	224	232	239	232	224	224	235	238	229	231	233
4	228	229	226	237	224	227	222	237	240	237	238	241
5	235	223	222	236	223	236	229	236	245	243	239	237
6	235	228	225	235	229	236	233	237	246	235	236	232
7	236	227	236	226	227	238	231	234	245	231	231	237
8	238	228	232	235	232	250	230	234	247	228	231	229
9	230	233	223	236	229	227	229	222	246	236	234	229
10	233	229	215	223	229	229	229	227	249	235	232	227
11	231	229	228	240	229	227	230	227	245	252	232	225
12	232	223	230	237	227	238	231	222	232	246	231	226
13	234	228	226	227	220	241	232	219	221	234	232	225
14	236	228	226	220	216	241	229	222	241	230	231	227
15	237	228	221	238	231	236	227	221	250	230	233	229
16	228	224	234	230	227	224	227	225	252	230	233	226
17	224	226	236	230	222	224	229	235	253	228	235	225
18	228	224	234	230	224	229	228	258	251	228	227	224
19	225	224	234	233	234	234	226	242	246	227	227	225
20	225	225	227	225	224	229	228	237	245	230	239	229
21	230	227	224	222	234	222	232	237	248	229	238	229
22	226	227	223	228	227	231	237	233	241	229	234	231
23	231	225	230	231	238	238	239	237	231	234	231	229
24	225	222	232	224	229	234	238	237	229	236	228	228
25	229	220	244	223	227	229	245	223	232	234	226	227
26	230	232	240	215	231	231	237	212	235	233	225	224
27	231	234	240	214	227	229	232	219	237	243	225	227
28	227	232	241	223	229	229	236	223	227	240	225	228
29	223	231	245	218	224	227	235	224	228	240	226	227
30	228	233	236	225	---	227	248	224	290	233	225	227
31	228	---	242	227	---	231	---	231	---	233	224	---
TOTAL	7123	6810	7175	7116	6588	7183	6939	7148	7261	7268	7160	6858
MEAN	230	227	231	230	227	232	231	231	242	234	231	229
MAX	238	234	245	245	238	250	248	258	290	252	239	241
MIN	223	219	215	214	216	222	222	212	221	227	224	224
AC-FT	14130	13510	14230	14110	13070	14250	13760	14180	14400	14420	14200	13600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2000, BY WATER YEAR (WY)

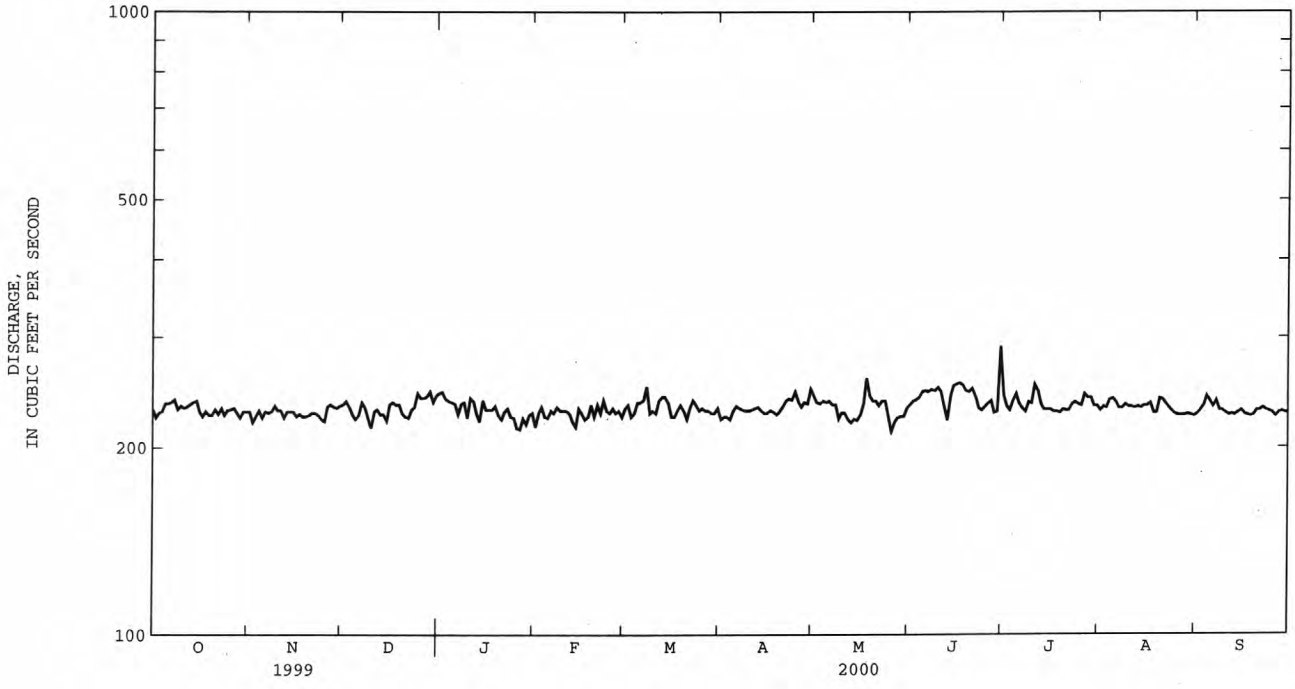
MEAN	200	204	202	201	203	208	210	208	202	200	197	198
MAX	235	237	231	230	251	239	254	246	242	245	234	237
(WY)	1998	1999	2000	1985	1997	1997	1995	1995	2000	1999	1998	1997
MIN	181	183	170	175	185	188	191	183	179	172	176	179
(WY)	1974	1970	1979	1972	1968	1971	1985	1967	1975	1980	1974	1974

PLATTE RIVER BASIN

06775900 DISMAL RIVER NEAR THEDFORD, NE--Continued
(Hydrologic bench-mark station)

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1967 - 2000	
ANNUAL TOTAL	82540		84629			
ANNUAL MEAN	226		231		203	
HIGHEST ANNUAL MEAN					231	2000
LOWEST ANNUAL MEAN					188	1970
HIGHEST DAILY MEAN	339	Jul 20	290	Jun 30	463	Aug 23 1983
LOWEST DAILY MEAN	176	Jan 9	212	May 26	125	Feb 3 1989
ANNUAL SEVEN-DAY MINIMUM	193	Jan 3	220	Jan 26	153	Dec 29 1982
INSTANTANEOUS PEAK FLOW			333	Jun 30	*1160	Aug 23 1983
INSTANTANEOUS PEAK STAGE			1.23	Jun 30	**5.10	Dec 18 1983
ANNUAL RUNOFF (AC-FT)	163700		167900		147000	
10 PERCENT EXCEEDS	244		241		229	
50 PERCENT EXCEEDS	226		230		200	
90 PERCENT EXCEEDS	212		223		182	

* Stage 3.83 ft.
** Backwater from ice.



PLATTE RIVER BASIN

06784000 SOUTH LOUP RIVER AT ST. MICHAEL, NE

LOCATION.--Lat 41°01'53", long 098°44'25", in NW ¼ NW ¼ sec.12, T.12 N., R.13 W., Buffalo County, Hydrologic Unit 10210004, 5 ft downstream and 30 ft shoreward from left downstream corner of county highway bridge, 0.6 mi northeast of St. Michael, 3.4 mi upstream from Sweet Creek, and at mile 9.0.

DRAINAGE AREA.--2,320 mi^2, of which about 1,590 mi^2 contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1943 to current year.

REVISED RECORDS.--WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,921.26 ft above sea level. Prior to June 22, 1947, water-stage recorder, and June 25 to Sept. 30, 1947, nonrecording gage, at present site at datum 2.00 ft higher. Oct. 1, 1947 to July 3, 1958, nonrecording gage at present site and datum. July 4, 1958 to Sept. 7, 1960, water-stage recorder at site 600 ft upstream at present datum. Sept. 8, 196 to June 24, 1968, water-stage recorder at site 100 ft upstream at present datum. June 25 to Nov. 21, 1968, nonrecording gage at present site and datum. Nov. 22, 1968 to May 19, 1981, water-stage recorder at site 40 ft upstream at present datum. May 20 to July 16, 1981, water-stage recorder at site 70 ft upstream at present datum. Data collection platform at station.

REMARKS.--Records good except for periods of estimated record, which are poor. Minor irrigation developments above station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	168	277	267	e170	304	197	273	226	77	113	71
2	148	177	272	255	e180	294	184	269	225	75	101	78
3	155	193	272	253	e200	298	180	253	207	79	86	66
4	154	206	265	e220	e220	294	171	240	178	525	71	61
5	155	206	250	e200	e220	291	176	216	171	448	71	53
6	157	211	247	219	e240	277	174	212	166	289	75	46
7	163	207	238	210	e260	261	177	209	164	164	68	42
8	175	207	233	216	275	290	172	257	164	132	73	39
9	176	212	236	236	278	284	183	247	164	130	69	36
10	179	211	234	262	276	290	185	237	164	126	60	36
11	170	206	245	269	252	277	185	213	164	121	56	35
12	169	206	259	271	230	260	181	193	161	110	48	33
13	165	216	250	229	e230	257	182	176	159	109	39	33
14	168	224	273	241	e240	244	180	169	159	101	38	35
15	155	230	288	254	e250	225	175	165	159	88	41	38
16	157	228	254	245	257	221	199	162	159	81	42	39
17	152	225	270	281	255	211	201	161	159	115	32	40
18	152	230	263	276	262	217	211	171	159	104	32	40
19	153	227	266	237	257	229	213	183	159	105	42	41
20	151	234	213	208	254	223	204	190	159	109	58	50
21	147	255	108	208	264	216	196	260	146	112	71	60
22	157	262	e160	205	271	216	193	242	129	165	71	74
23	176	272	e200	224	347	249	194	230	128	150	80	77
24	181	280	e270	226	388	305	192	228	119	118	67	100
25	182	281	e320	220	356	300	226	209	112	119	54	117
26	192	278	e330	231	331	277	245	232	95	112	67	116
27	199	267	e300	242	314	255	256	281	89	131	66	112
28	198	267	e290	234	295	231	240	267	87	149	64	105
29	199	267	e290	e210	301	208	236	241	88	113	59	101
30	184	272	e280	e190	---	208	253	238	79	121	54	98
31	173	---	e270	e170	---	204	---	234	---	120	49	---
TOTAL	5192	6925	7923	7209	7673	7916	5961	6858	4498	4498	1917	1872
MEAN	167	231	256	233	265	255	199	221	150	145	61.8	62.4
MAX	199	281	330	281	388	305	256	281	226	525	113	117
MIN	147	168	108	170	170	204	171	161	79	75	32	33
AC-FT	10300	13740	15720	14300	15220	15700	11820	13600	8920	8920	3800	3710

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2000, BY WATER YEAR (WY)

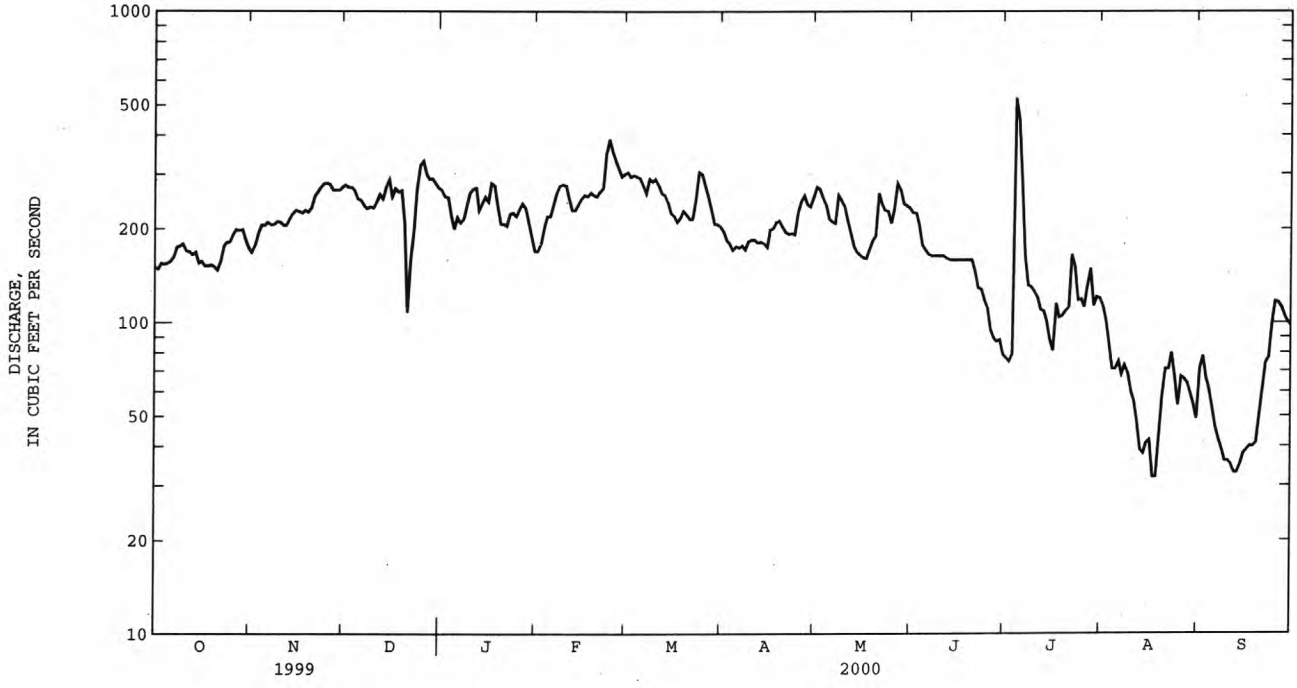
MEAN	175	193	182	185	261	351	277	303	419	222	151	149
MAX	619	276	275	281	543	1747	549	562	2741	1121	482	370
(WY)	1947	1999	1994	1973	1966	1978	1984	1951	1947	1993	1962	1949
MIN	87.5	129	116	96.5	138	201	171	176	126	26.5	21.3	51.0
(WY)	1957	1957	1956	1972	1989	1981	1992	1975	1981	1980	1955	1956

PLATTE RIVER BASIN

06784000 SOUTH LOUP RIVER AT ST. MICHAEL, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1944 - 2000	
ANNUAL TOTAL	96707		68442			
ANNUAL MEAN	265		187		239	
HIGHEST ANNUAL MEAN					483	1947
LOWEST ANNUAL MEAN					161	1955
HIGHEST DAILY MEAN	1390	Jun 11	525	Jul 4	28000	Jun 23 1947
LOWEST DAILY MEAN	103	Aug 27	32	Aug 17	.00	Aug 5 1980
ANNUAL SEVEN-DAY MINIMUM	112	Sep 10	35	Sep 9	.65	Aug 4 1980
INSTANTANEOUS PEAK FLOW			1020	Jul 4	*50000	Jun 22 1947
INSTANTANEOUS PEAK STAGE			5.07	Jan 5	12.00	Jun 22 1947
ANNUAL RUNOFF (AC-FT)	191800		135800		172900	
10 PERCENT EXCEEDS	419		277		340	
50 PERCENT EXCEEDS	235		199		193	
90 PERCENT EXCEEDS	139		67		104	

e Estimated.
* Estimated. Maximum computed discharge 27,500 ft^3/s, June 24, 1968, gage height 11.00 ft.



PLATTE RIVER BASIN

06784000 SOUTH LOUP RIVER AT ST. MICHAEL, NE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1946-53. 1974 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED SEDIMENT DISCHARGE: June 1946 to June 1953.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily, 19300 mg/L June 19, 1946; minimum daily, 13 mg/L Dec. 30, 31, 1951.
SEDIMENT LOADS: Maximum daily, 672,000 tons June 22, 1947; minimum daily, 6.1 tons Dec. 30, 31, 1951.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
NOV 09...	0850	207	--	--	--	11.0	104	8.4	464	12.0	9.0
DEC 09...	1035	237	--	--	--	13.9	105	8.4	475	3.5	1.0
JAN 19...	1310	232	--	--	--	12.7	105	8.4	461	2.0	4.0
MAR 07...	1020	251	.41	205	302	10.3	105	8.4	444	18.0	12.5
APR 25...	0925	228	--	--	--	10.5	114	8.4	421	13.0	15.5
JUN 06...	1345	165	--	--	--	10.9	140	8.7	397	26.0	24.0
JUL 11...	0830	123	.30	73.8	222	9.4	125	8.5	320	25.0	25.5
AUG 28...	1020	66	--	--	--	8.3	113	8.7	313	27.5	26.5

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
NOV 09...	--	--	--	--	--	--	--	--	--	--	--
DEC 09...	--	--	--	--	--	--	--	--	--	--	--
JAN 19...	--	--	--	--	--	--	--	--	--	--	--
MAR 07...	200	63.8	9.78	9.6	.4	12.9	12	211	5.6	.3	50.1
APR 25...	--	--	--	--	--	--	--	--	--	--	--
JUN 06...	--	--	--	--	--	--	--	--	--	--	--
JUL 11...	130	39.0	6.99	10.5	.4	10.9	15	147	4.9	.3	46.0
AUG 28...	--	--	--	--	--	--	--	--	--	--	--

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
NOV 09...	--	--	--	--	--	--	--	--	--	--	--
DEC 09...	--	--	--	--	--	--	--	--	--	--	--
JAN 19...	--	--	--	--	--	--	--	--	--	--	--
MAR 07...	18.8	<.020	.993	<.010	.389	.122	.127	1.6	47	<10	5
APR 25...	--	--	--	--	--	--	--	--	--	--	--
JUN 06...	--	--	--	--	--	--	--	--	--	--	--
JUL 11...	15.3	<.020	<.050	<.010	.215	.071	.070	.9	52	E10	E2
AUG 28...	--	--	--	--	--	--	--	--	--	--	--

06784200 SHERMAN RESERVOIR NEAR LOUP CITY, NE

LOCATION.--Lat 41°18'10", long 98°52'45", in SW¼ NW¼ sec. 1, T. 15 N., R. 14 W., Sherman County, Hydrologic Unit 10210003, in control house of outlet works of Sherman Dam, 5 mi northeast of Loup City.

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Mercury-column pressure gage read once daily. Datum of gage is sea level.

REMARKS.--Reservoir is formed by earthfill dam; closure date of dam, August 1960. First diversions from Middle Loup River, Nov. 8, 1962. Usable capacity, 65,237 acre-ft between elevations 2,118.5 ft, sill of canal outlet works, and 2,162.3 ft, crest of spillway. Dead and inactive storage, 3,839 acre-ft below elevation 2,118.5 ft. Figures given herein represent total contents. Water is used for irrigation of Farwell Unit of Bureau of Reclamation.

COOPERATION.--Records of elevations and capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 70,810 acre-ft June 25, 1989, elevation, 2,162.9 ft; minimum observed since appreciable storage was attained, 9,450 acre-ft Aug. 2, 1980, elevation, 2,127.7 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 70,520 acre-ft May 30, elevation, 2,162.8 ft; minimum observed, 34,910 acre-ft Sept. 2, elevation, 2147.7 ft.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	*Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep 30	2,155.8	52,000	--
Oct. 31	2,156.9	54,670	-2,670
Nov. 30	2,156.4	53,450	-1,220
Dec. 31	2,155.9	52,240	-1,210
CAL YR 1999	--	--	-240
Jan. 31	2,155.5	51,290	-950
Feb. 29	2,155.2	50,580	-710
Mar. 31	2,154.8	49,650	-930
Apr. 30	2,156.9	54,670	+5,020
May 31	2,162.8	70,520	+15,850
June 30	2,159.8	62,140	-8,380
July 31	2,156.8	54,430	-7,710
Aug. 31	2,147.9	35,280	-19,150
Sept. 30	2,155.3	50,820	+15,540
WTR YR 2000	--	--	-1,180

*Elevations read on or near last day of month.

PLATTE RIVER BASIN

06785000 MIDDLE LOUP RIVER AT ST. PAUL, NE

LOCATION.--Lat 41°12'13", long 098°26'46", in SE ¼ NW ¼ NE ¼ sec.10, T.14 N., R.10 W., Howard County, Hydrologic Unit 10210003, on left bank at St. Paul, 50 ft upstream from bridge on U.S. Highway 281, 6 mi upstream from confluence with North Loup River, and at mile 74.0.

DRAINAGE AREA.--8,075 mi^2, of which about 3,130 mi^2 contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1894 to September 1915, August 1928 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1036: 1943. WSP 1390: 1896, 1903, 1928(M), 1944. WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,776.61 ft above sea level. See WSP 1918 for history of changes prior to June 5, 1957. June 5, 1957, to Mar. 16, 1978, water-stage recorder on left bank approximately 410 ft upstream at same datum. Mar. 17 to May 31, 1978, nonrecording gage on railroad bridge immediately upstream at same datum. Data collection platform at station.

REMARKS.--Records fair except for periods of estimated record, which are poor. Diversions above station for irrigation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	714	1290	1310	1210	e1650	1680	1220	1210	1260	202	529	460
2	674	1560	1320	1350	1690	1750	1070	1410	1110	220	433	540
3	684	1390	1660	1330	1750	1570	1140	1060	1020	230	390	549
4	740	1330	1880	891	2040	1540	1190	997	864	2160	354	619
5	691	1360	1660	e960	1850	1430	1140	937	838	2550	370	627
6	708	1420	1550	e1020	1740	1380	1210	855	800	1220	362	826
7	689	1330	1460	1080	1560	1430	1130	876	774	649	431	840
8	803	1470	1350	1130	1470	1520	1150	1170	687	479	445	623
9	1300	1670	1350	976	1490	1470	1120	1020	583	414	405	547
10	1510	1770	1290	939	1470	1310	950	1070	482	430	364	506
11	1460	1850	1430	943	1360	1130	1040	975	462	521	329	509
12	1440	1630	1330	974	1450	1120	1130	920	456	493	326	502
13	1420	1480	1120	936	1750	1040	1100	862	509	474	287	505
14	1370	1430	1200	1070	1840	1140	1090	907	501	461	275	527
15	1290	1070	1400	1110	1930	1190	1070	858	758	390	317	535
16	1330	1280	1310	1130	1860	1110	966	751	545	327	368	845
17	1300	1340	1080	1370	1410	1070	872	766	420	394	354	778
18	1260	1570	1130	1700	1500	956	786	710	589	603	301	763
19	1200	1610	1380	1600	1820	1040	831	1310	441	564	497	779
20	1030	1480	1360	1190	1700	908	941	925	855	507	605	864
21	1250	1280	e700	1330	1650	768	892	778	519	437	632	921
22	1290	1220	e900	1440	1690	707	747	864	508	918	709	960
23	1460	1500	1060	1570	1920	853	831	857	316	1030	677	905
24	1460	1420	1500	1560	2110	1420	837	777	258	784	517	981
25	1340	1270	1790	1520	2090	1510	1090	728	273	656	544	1170
26	1510	1400	1510	1440	1830	1630	1340	777	359	555	532	1090
27	1410	1430	1340	1560	1750	1590	978	844	314	573	752	924
28	1540	1600	1340	1410	1680	1340	1030	908	261	972	634	855
29	1460	1530	1160	e1400	1570	1220	1030	849	245	827	483	848
30	1320	1390	941	e1500	---	1360	954	790	287	607	449	903
31	1390	---	1040	e1600	---	1400	---	1000	---	572	452	---
TOTAL	37043	43370	40851	39239	49620	39582	30875	28761	17294	21219	14123	22301
MEAN	1195	1446	1318	1266	1711	1277	1029	928	576	684	456	743
MAX	1540	1850	1880	1700	2110	1750	1340	1410	1260	2550	752	1170
MIN	674	1070	700	891	1360	707	747	710	245	202	275	460
AC-FT	73470	86020	81030	77830	98420	78510	61240	57050	34300	42090	28010	44230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2000, BY WATER YEAR (WY)

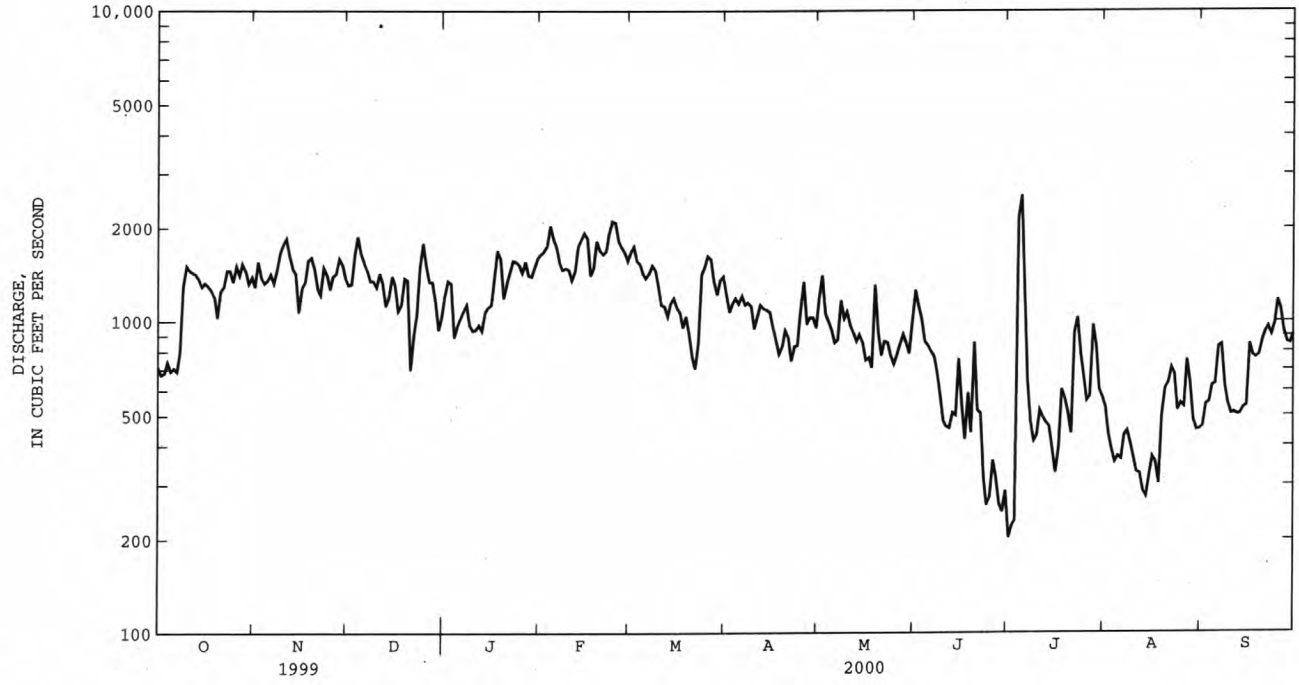
MEAN	1167	1302	1161	1176	1552	1759	1349	1151	1192	659	577	764
MAX	2444	1922	1836	1844	2478	4022	2291	2476	3253	3642	1171	1790
(WY)	1993	1999	1971	1990	1984	1978	1984	1995	1967	1993	1992	1985
MIN	404	771	686	770	969	1181	767	519	395	124	174	240
(WY)	1964	1965	1969	1972	1979	1970	1981	1975	1972	1980	1980	1980

PLATTE RIVER BASIN

06785000 MIDDLE LOUP RIVER AT ST. PAUL, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1963 - 2000	
ANNUAL TOTAL	550300		384278			
ANNUAL MEAN	1508		1050		1148	
HIGHEST ANNUAL MEAN					1832	1993
LOWEST ANNUAL MEAN					831	1970
HIGHEST DAILY MEAN	4980	Feb 5	2550	Jul 5	21800	Jun 12 1984
LOWEST DAILY MEAN	484	Aug 22	202	Jul 1	23	Aug 9 1980
ANNUAL SEVEN-DAY MINIMUM	525	Aug 21	251	Jun 27	31	Aug 4 1980
INSTANTANEOUS PEAK FLOW			4690	Jul 4	72000	Jun 23 1947
INSTANTANEOUS PEAK STAGE			3.85	Jul 4	12.69	Jun 23 1947
ANNUAL RUNOFF (AC-FT)	1092000		762200		831500	
10 PERCENT EXCEEDS	2320		1600		1860	
50 PERCENT EXCEEDS	1420		1050		1080	
90 PERCENT EXCEEDS	702		448		366	

e Estimated.



PLATTE RIVER BASIN

06785000 MIDDLE LOUP RIVER AT ST. PAUL, NE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	S. CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)
NOV										
03...	0920	1560	--	--	--	13.9	116	8.3	272	9.5
DEC										
06...	0935	1520	--	--	--	14.6	109	8.2	297	2.0
FEB										
01...	1120	1520	--	--	--	14.1	111	8.2	287	.0
MAR										
06...	0930	1610	.30	963	222	10.8	105	8.3	286	17.5
APR										
24...	0910	910	--	--	--	9.5	102	8.4	315	12.5
JUN										
05...	0950	932	--	--	--	9.8	108	8.5	276	17.5
JUL										
10...	0850	426	.32	273	237	7.7	103	8.7	334	25.0
AUG										
31...	0935	459	--	--	--	8.8	107	8.6	314	20.0

DATE	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
NOV										
03...	4.5	--	--	--	--	--	--	--	--	--
DEC										
06...	.5	--	--	--	--	--	--	--	--	--
FEB										
01...	2.5	--	--	--	--	--	--	--	--	--
MAR										
06...	10.5	120	38.2	6.17	7.8	.4	9.8	14	141	2.9
APR										
24...	15.0	--	--	--	--	--	--	--	--	--
JUN										
05...	17.0	--	--	--	--	--	--	--	--	--
JUL										
10...	26.0	140	43.1	7.12	10.6	.4	10.9	14	161	3.6
AUG										
31...	21.0	--	--	--	--	--	--	--	--	--

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)
NOV										
03...	--	--	--	--	--	--	--	--	--	--
DEC										
06...	--	--	--	--	--	--	--	--	--	--
FEB										
01...	--	--	--	--	--	--	--	--	--	--
MAR										
06...	.3	57.0	11.0	<.020	.841	<.010	.451	.143	.147	1.4
APR										
24...	--	--	--	--	--	--	--	--	--	--
JUN										
05...	--	--	--	--	--	--	--	--	--	--
JUL										
10...	.3	50.4	14.3	<.020	<.050	<.010	.423	.140	.138	.6
AUG										
31...	--	--	--	--	--	--	--	--	--	--

PLATTE RIVER BASIN

06785000 MIDDLE LOUP RIVER AT ST. PAUL, NE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)
NOV 03...	--	--	--	--	--	--	--	--	--	--
DEC 06...	--	--	--	--	--	--	--	--	--	--
FEB 01...	--	--	--	--	--	--	--	--	--	--
MAR 06...	--	--	--	--	--	--	38	--	--	--
APR 24...	--	--	--	--	--	--	--	--	--	--
JUN 05...	E0	--	--	--	--	--	--	--	--	--
JUL 10...	--	30	<1	8.9	136	<1	42	<1.0	<.8	<1
AUG 31...	--	--	--	--	--	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
NOV 03...	--	--	--	--	--	--	--	--	--	--
DEC 06...	--	--	--	--	--	--	--	--	--	--
FEB 01...	--	--	--	--	--	--	--	--	--	--
MAR 06...	--	E10	--	E2	--	--	--	--	--	--
APR 24...	--	--	--	--	--	--	--	--	--	--
JUN 05...	--	--	--	--	--	--	--	--	--	--
JUL 10...	3	E10	<1	3	3	4	<2.4	<1	10	3
AUG 31...	--	--	--	--	--	--	--	--	--	--

PLATTE RIVER BASIN

06786000 NORTH LOUP RIVER AT TAYLOR, NE

LOCATION.--Lat 41°46'37", long 099°22'45", in NE ¼ SE ¼ sec.22, T.21 N., R.18 W., Loup County, Hydrologic Unit 10210006, on left bank 25 ft downstream from bridge on U.S. Highway 183, 0.4 mi north of Taylor and at mile 80.6.

DRAINAGE AREA.--2,350 mi^2, of which about 186 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--November 1936 to current year.

REVISED RECORDS.--WSP 856: 1937. WSP 1310: 1939(M). WSP 1730: 1956-57(M). WSP 1918: 1952. WDR NE-75: 1974. WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,248.21 ft above sea level. Prior to Sept. 28, 1938, nonrecording gage at same site and datum. Sept. 28, 1938, to July 16, 1958, water-stage recorder at site 450 ft upstream at same datum.

REMARKS.--Records good except for periods of estimated record, which are poor. North Loup Public Power and Irrigation District canal began diversion from river in April 1939 at point 5 mi above station. Several smaller diversions above station for irrigation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	511	586	605	590	e600	692	576	639	565	401	400	319
2	495	529	613	593	e620	694	557	518	541	375	376	353
3	496	509	613	578	e620	701	538	540	523	323	366	378
4	506	528	584	514	e620	717	547	521	506	407	340	584
5	516	560	556	479	635	711	566	514	498	460	315	524
6	523	538	535	e580	663	718	548	514	488	742	287	458
7	560	547	533	e620	640	707	546	508	481	411	269	461
8	570	575	582	e640	648	754	497	517	446	290	239	493
9	553	594	521	651	671	744	542	496	428	254	232	460
10	552	571	514	642	668	678	569	487	431	264	232	427
11	524	547	538	632	583	661	539	475	482	273	233	466
12	555	563	564	600	598	670	494	474	543	293	220	547
13	542	529	549	578	631	659	504	442	640	323	217	538
14	555	524	571	639	584	623	516	433	573	265	227	547
15	561	535	543	656	618	650	489	431	516	234	214	521
16	548	537	553	648	657	625	477	438	483	242	224	504
17	517	524	532	618	654	619	480	493	480	265	297	487
18	496	539	524	605	631	593	509	752	477	307	236	495
19	495	514	545	572	640	622	566	791	468	262	249	512
20	512	525	442	572	656	665	572	633	460	267	287	521
21	530	528	336	629	709	674	579	640	399	297	282	512
22	534	524	393	623	743	690	530	645	355	375	272	556
23	538	523	e540	657	765	692	548	641	334	432	278	574
24	535	527	e580	623	775	705	567	603	371	368	272	583
25	564	506	e620	614	794	651	690	578	355	402	258	556
26	567	508	e620	624	791	648	739	599	354	406	267	529
27	573	552	611	647	706	591	636	607	348	413	303	521
28	550	551	577	e620	681	564	592	592	350	502	317	521
29	549	564	627	e620	699	565	585	574	357	496	318	512
30	575	558	639	e600	---	576	656	632	373	491	311	512
31	578	---	609	e600	---	579	---	575	---	442	310	---
TOTAL	16680	16215	17169	18864	19300	20438	16754	17302	13625	11282	8648	14971
MEAN	538	540	554	609	666	659	558	558	454	364	279	499
MAX	578	594	639	657	794	754	739	791	640	742	400	584
MIN	495	506	336	479	583	564	477	431	334	234	214	319
AC-FT	33080	32160	34050	37420	38280	40540	33230	34320	27030	22380	17150	29690

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2000, BY WATER YEAR (WY)

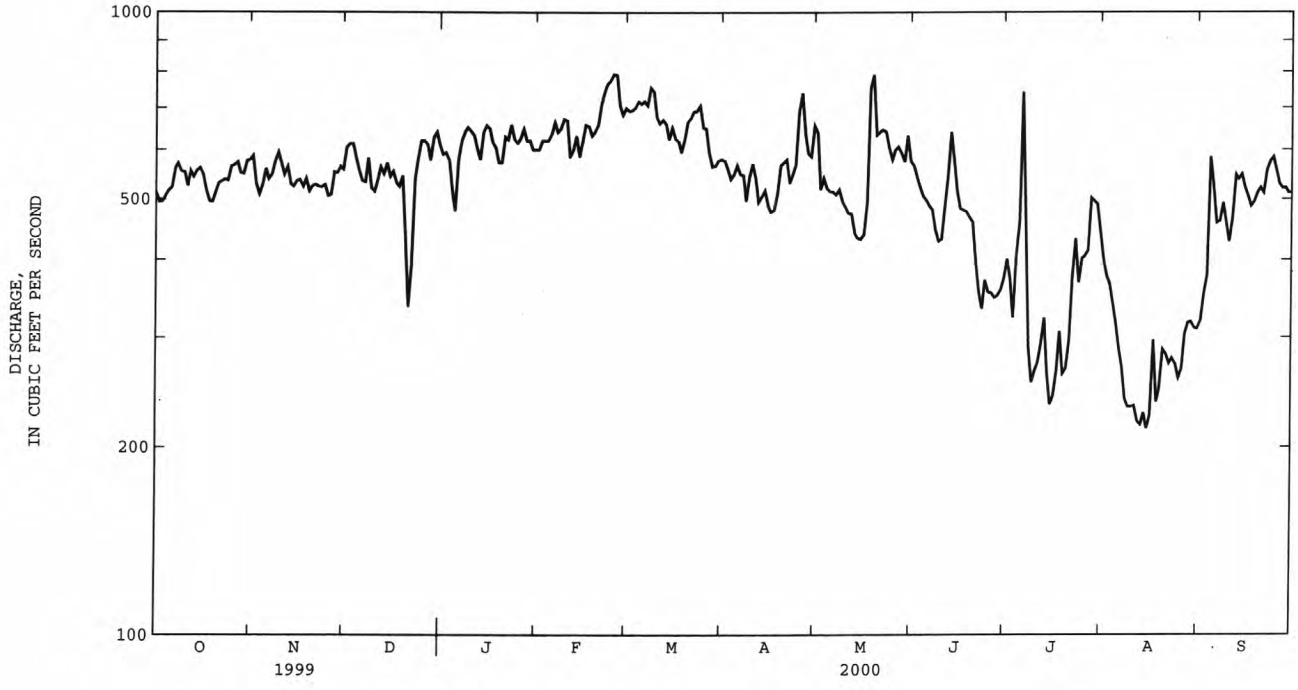
MEAN	486	515	485	490	564	621	601	547	488	323	305	393
MAX	706	730	669	738	863	896	836	1128	870	716	527	665
(WY)	1984	1987	1994	1941	1984	1993	1993	1995	1995	1962	1992	1951
MIN	295	373	365	331	402	454	404	300	284	119	143	200
(WY)	1941	1976	1979	1937	1939	1995	1940	1940	1940	1974	1969	1940

PLATTE RIVER BASIN

06786000 NORTH LOUP RIVER AT TAYLOR, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1937 - 2000	
ANNUAL TOTAL	214137		191248			
ANNUAL MEAN	587		523		485	
HIGHEST ANNUAL MEAN					644	1993
LOWEST ANNUAL MEAN					354	1940
HIGHEST DAILY MEAN	1030	May 5	794	Feb 25	2690	May 28 1995
LOWEST DAILY MEAN	278	Aug 17	214	Aug 15	45	Jul 26 1941
ANNUAL SEVEN-DAY MINIMUM	302	Aug 17	224	Aug 10	74	Jul 11 1981
INSTANTANEOUS PEAK FLOW			969	Jul 6	*3480	May 28 1995
INSTANTANEOUS PEAK STAGE			4.20	Jul 6	**9.50	Feb 25 1957
ANNUAL RUNOFF (AC-FT)	424700		379300		351400	
10 PERCENT EXCEEDS	759		657		684	
50 PERCENT EXCEEDS	575		542		479	
90 PERCENT EXCEEDS	408		311		270	

e Estimated.
* Stage 5.59 ft.
** From floodmark, ice jam.



06787300 CALAMUS RESERVOIR NEAR BURWELL, NE

LOCATION.--Lat 41°49'38", long 99°13'11", in $SW^1/_4$ $SW^1/_4$ sec.31, T.22 N., R.16W., Garfield County, Hydrologic Unit 10210008, near right bank in control house of outlet works of Calamus Dam on Calamus River, 4 mi upstream from mouth, 5.5 mi northwest of Burwell.

DRAINAGE AREA.--1,050 mi^2, approximately, of which about 110 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--November 1985 to current year.

GAGE.--Fluid gage with continuous recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by earthfill dam; storage began Oct. 1, 1985. Usable capacity, 102,750 acre-ft between elevations 2213.3 ft, bottom of conservation pool, and 2244.0 ft, top of inlet structure; inactive capacity, 23,830 acre-ft between elevations 2185.0 ft, sill of outlet gate, and 2213.3 ft. Dead storage 817 acre-ft below elevation 2185.0 ft. Figures given herein represent total contents. Water is used for irrigation of North Loup project of Bureau of Reclamation.

COOPERATION.--Records of elevations and capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 131,100 acre-ft June 25, 1988, elevation, 2244.71 ft; minimum observed since appreciable storage was attained, 51,830 acre-ft Sept. 30, 1999, elevation 2224.87 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 128,940 acre-ft May 23, elevation, 2244.30 ft; minimum observed, 51,860 acre-ft Oct. 2, elevation, 2224.88 ft.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date		*Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep	30	2,224.87	51,830	--
Oct.	31	2,225,08	52,440	+610
Nov.	30	2,229.31	65,740	+13,300
Dec.	31	2,234.33	83,950	+18,210
CAL YR 1999		--	--	-34,350
Jan.	31	2,238.51	101,260	+17,310
Feb.	29	2,242.18	118,300	+17,040
Mar.	31	2,243.81	126,430	+8,130
Apr.	30	2,244.01	127,450	+1,020
May	31	2,244.12	128,020	+570
June	30	2,243.62	125,460	-2,560
July	31	2,238.10	99,470	-25,990
Aug.	31	2,230.30	69,120	-30,350
Sept.	30	2,228.09	61,720	-7,400
WTR YR 2000		--	--	+9,890

*Elevations read on or near last day of month.

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PLATTE RIVER BASIN

06790500 NORTH LOUP RIVER NEAR ST. PAUL, NE

LOCATION.--Lat 41°15'48", long 098°26'56", in NW ¼ NW ¼ NE ¼ sec.22, T.15 N., R.10 W., Howard County, Hydrologic Unit 10210007, on right bank 310 ft downstream from bridge on U.S. Highway 281, 3 mi north of St. Paul, and 2.9 mi upstream from confluence with Middle Loup River.

DRAINAGE AREA.--4,302 mi^2, of which about 1,240 mi^2 contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1894 to September 1915, August 1928 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 976: 1942. WSP 1390: 1896. WDR NE-75-1: 1974. WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,759.29 ft, adjusted, above sea level. See WSP 1918 for history of changes prior to Oct. 1, 1954. Data collection platform at station.

REMARKS.--Records good except for period of estimated record, which is poor. Natural flow affected by diversions and ground-water withdrawals for irrigation and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1180	1120	840	709	e620	946	1110	1050	1070	265	915	915
2	1140	1100	858	708	e640	948	1120	1120	1080	624	883	913
3	1150	1050	859	733	e680	921	1110	964	905	850	824	878
4	1100	1020	901	589	e660	918	1040	885	754	861	800	893
5	1100	1060	925	e640	e660	888	1010	921	709	738	770	977
6	1090	1090	903	707	e660	880	954	857	690	807	677	1020
7	1110	1110	901	859	674	870	976	806	658	1030	647	967
8	1190	1110	861	989	675	960	979	815	629	1100	624	863
9	1100	1110	888	1020	717	1080	963	835	592	806	665	874
10	1110	924	924	996	772	1090	935	789	565	699	635	931
11	1090	866	935	1080	729	1020	959	707	567	671	639	892
12	1090	821	925	1040	652	946	884	665	589	653	634	827
13	1040	824	876	1060	655	930	826	620	695	602	653	852
14	1030	808	905	969	701	950	826	539	877	610	649	943
15	1050	816	877	968	780	1000	849	541	893	648	649	907
16	1020	844	869	943	721	1020	1050	501	811	575	590	878
17	977	826	895	1000	804	1030	999	504	746	561	518	806
18	997	809	863	1020	840	1040	962	504	729	537	497	838
19	981	813	857	842	804	1040	953	687	676	536	623	1050
20	997	821	680	801	814	1020	903	1040	777	562	702	1100
21	1020	840	e620	713	822	1030	868	865	1030	567	717	1070
22	1000	867	e560	756	871	1030	942	812	659	663	732	1130
23	986	882	e540	763	956	1090	974	878	526	1380	730	1150
24	1010	854	e580	667	1120	1250	858	927	475	1070	707	1200
25	1010	832	e640	688	1060	1190	927	920	466	847	655	1240
26	1020	828	e600	774	995	1200	993	941	475	801	804	1240
27	1050	806	e580	647	963	1150	1080	996	424	788	1050	1170
28	1080	779	e620	630	968	1140	1050	1040	321	2760	960	1120
29	1090	792	639	e620	997	1090	976	1030	275	2490	864	1080
30	1090	786	666	e620	---	1080	958	991	263	1150	849	1070
31	1090	---	690	e620	---	1120	---	1070	---	958	841	---
TOTAL	32988	27208	24277	25171	23010	31867	29034	25820	19926	27209	22503	29794
MEAN	1064	907	783	812	793	1028	968	833	664	878	726	993
MAX	1190	1120	935	1080	1120	1250	1120	1120	1080	2760	1050	1240
MIN	977	779	540	589	620	870	826	501	263	265	497	806
AC-FT	65430	53970	48150	49930	45640	63210	57590	51210	39520	53970	44630	59100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2000, BY WATER YEAR (WY)

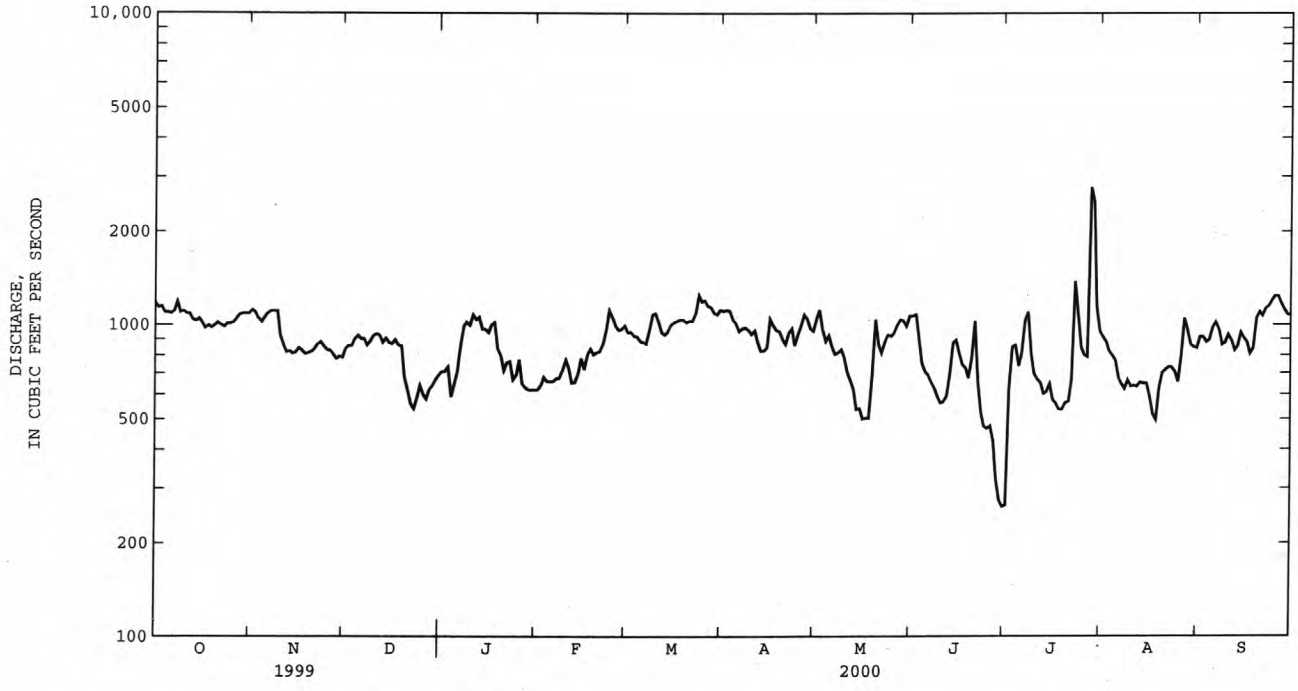
MEAN	892	928	874	882	1121	1262	1108	1061	1054	712	679	826
MAX	1224	1330	1385	1703	1861	2589	1843	1743	2516	2471	1812	1384
(WY)	1996	1999	1998	1998	1998	1936	1987	1995	1947	1993	1966	1965
MIN	568	647	433	517	603	787	702	576	606	199	221	326
(WY)	1940	1938	1930	1940	1942	1934	1946	1943	1934	1974	1941	1940

PLATTE RIVER BASIN

06790500 NORTH LOUP RIVER NEAR ST. PAUL, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1928 - 2000	
ANNUAL TOTAL	416122		318807			
ANNUAL MEAN	1140		871		948	
HIGHEST ANNUAL MEAN					1223	1993
LOWEST ANNUAL MEAN					668	1940
HIGHEST DAILY MEAN	3760	Jun 27	2760	Jul 28	21300	Jun 22 1947
LOWEST DAILY MEAN	540	Dec 23	263	Jun 30	85	Aug 8 1941
ANNUAL SEVEN-DAY MINIMUM	589	Dec 21	356	Jun 25	98	Aug 6 1941
INSTANTANEOUS PEAK FLOW			4410	Jul 28	90000	Jun 6 1896
INSTANTANEOUS PEAK STAGE			4.41	Jul 28	*14.90	Jun 6 1896
ANNUAL RUNOFF (AC-FT)	825400		632400		687000	
10 PERCENT EXCEEDS	1650		1100		1370	
50 PERCENT EXCEEDS	1090		876		894	
90 PERCENT EXCEEDS	707		620		509	

e Estimated.
* From floodmark, datum then in use.



PLATTE RIVER BASIN

06790500 NORTH LOUP RIVER NEAR ST. PAUL, NE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1946-53, 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1974 to September 1978.
WATER TEMPERATUES: July 1974 to September 1978.
SUSPENDED SEDIMENT DISCHARGE: April 1946 to June 1953.

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 426 microsiemens, Jan. 18, 1976; minimum daily, 138 microsiemens, Oct. 21, 1977.
WATER TEMPERATURES: Maximum, 34.0°C July 17, 1978; minimum, 0.0°C on many days during winter periods.
SEDIMENT CONCENTRATIONS: Maximum daily, 17,400 mg/L Apr. 27, 1951; minimum daily, not determined.
SEDIMENT LOADS: Maximum daily, 463,000 tons June 22, 1947; minimum daily, 20 tons Aug. 3, 1946, Feb. 22, 1953.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)
NOV										
03...	1440	1050	--	--	--	12.3	113	8.2	234	17.0
DEC										
06...	1330	888	--	--	--	13.5	103	8.2	270	7.0
JAN										
19...	0930	841	--	--	--	14.3	109	8.0	258	8.5
MAR										
06...	1355	873	.28	477	202	9.5	102	8.4	268	23.0
APR										
24...	1250	819	--	--	--	9.3	105	8.4	250	20.5
JUN										
05...	1305	678	--	--	--	9.8	119	8.7	247	19.5
JUL										
10...	1235	692	.21	286	153	7.8	109	8.8	222	27.0
AUG										
31...	1320	832	--	--	--	9.3	115	8.9	233	19.5

DATE	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)
NOV										
03...	8.5	--	--	--	--	--	--	--	--	--
DEC										
06...	1.0	--	--	--	--	--	--	--	--	--
JAN										
19...	1.0	--	--	--	--	--	--	--	--	--
MAR										
06...	15.0	110	35.2	5.94	8.0	.4	8.6	13	129	2.3
APR										
24...	17.5	--	--	--	--	--	--	--	--	--
JUN										
05...	22.0	--	--	--	--	--	--	--	--	--
JUL										
10...	28.5	88	27.7	4.57	7.1	.4	7.6	15	108	2.2
AUG										
31...	22.0	--	--	--	--	--	--	--	--	--

DATE	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)
NOV										
03...	--	--	--	--	--	--	--	--	--	--
DEC										
06...	--	--	--	--	--	--	--	--	--	--
JAN										
19...	--	--	--	--	--	--	--	--	--	--
MAR										
06...	.4	51.2	8.9	<.020	.992	<.010	.276	.082	.090	1.0
APR										
24...	--	--	--	--	--	--	--	--	--	--
JUN										
05...	--	--	--	--	--	--	--	--	--	--
JUL										
10...	.3	32.1	6.3	<.020	<.050	<.010	.046	<.050	.015	.3
AUG										
31...	--	--	--	--	--	--	--	--	--	--

PLATTE RIVER BASIN

06790500 NORTH LOUP RIVER NEAR ST. PAUL, NE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)
NOV 03...	--	--	--	--	--	--	--	--	--	--
DEC 06...	--	--	--	--	--	--	--	--	--	--
JAN 19...	--	--	--	--	--	--	--	--	--	--
MAR 06...	--	--	--	--	--	33	--	--	--	--
APR 24...	--	--	--	--	--	--	--	--	--	--
JUN 05...	--	--	--	--	--	--	--	--	--	--
JUL 10...	33	<1	5.9	100	<1	29	<1.0	E.7	<1	1
AUG 31...	--	--	--	--	--	--	--	--	--	--

DATE	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DISSOLVED (UG/L AS U) (22703)
NOV 03...	--	--	--	--	--	--	--	--	--
DEC 06...	--	--	--	--	--	--	--	--	--
JAN 19...	--	--	--	--	--	--	--	--	--
MAR 06...	E10	--	<2	--	--	--	--	--	--
APR 24...	--	--	--	--	--	--	--	--	--
JUN 05...	--	--	--	--	--	--	--	--	--
JUL 10...	E10	<1	2	2	3	<2.4	<1	9	2
AUG 31...	--	--	--	--	--	--	--	--	--

PLATTE RIVER BASIN

06792500 LOUP RIVER POWER CANAL NEAR GENOA, NE

LOCATION.--Lat 41°25'03", long 097°47'37", in NE ¼ NE ¼ sec.32, T.17 N., R.4 W., Nance County, Hydrologic Unit 10210009, at skimming weir on downstream end of settling basin on left bank, 2 mi downstream from point of diversion and 3.5 mi southwest of Genoa.

PERIOD OF RECORD.--December 1936 to current year.

GAGE.--Water-stage recorder and concrete weir. Datum of gage is 1,566.26 ft above sea level. Prior to Oct. 1, 1956, at datum 3.0 feet higher.

REMARKS.--Records good. Canal diverts from Loup River in sec.6, T.16 N., R.4 W.; water is used in powerplants near Monroe and Columbus and is returned to Platte River 1.5 mi downstream from Loup River. Diversion began Dec. 2, 1936.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1800	2560	2420	895	124	2130	2430	1820	1770	833	1850	1470
2	1790	2670	2540	1790	237	2130	2250	2070	2110	691	1730	1450
3	1790	2870	2560	1770	620	2110	2470	1920	2260	935	1570	1460
4	1810	2880	2870	226	680	2090	2330	1820	2190	1420	1420	1510
5	1740	2630	2870	52	124	2060	2120	1650	1950	2200	1360	1500
6	1770	2760	2850	204	744	2020	1960	1730	1920	2400	1270	1610
7	1770	2840	1690	371	997	2140	1970	1690	1840	2060	1170	1710
8	1820	2810	2450	159	908	2200	2140	1640	1790	1770	1120	1730
9	1920	2770	2420	466	1610	2370	2020	1900	1610	1650	1080	1560
10	2140	2740	2470	957	1640	2450	1940	1750	1510	1400	1060	1470
11	2300	2700	2410	254	389	2430	2010	1690	1400	1270	904	1440
12	2290	2710	2220	377	56	2320	1960	1520	1220	1320	907	1480
13	2270	2600	548	178	64	2300	1920	1520	1380	1200	894	1450
14	2330	2600	2240	97	29	2330	1740	1450	1510	1060	925	1450
15	2320	2580	169	472	635	2310	1950	1360	1830	1020	880	1480
16	2380	2400	19	226	790	2380	2290	1410	1850	1020	885	1470
17	2510	2540	6.7	80	1290	2350	2300	1360	1710	980	740	1580
18	2090	2510	38	459	471	2370	1910	1500	1570	958	653	1580
19	1920	2510	231	1220	510	2280	1840	1410	1500	1050	880	1570
20	2280	2830	248	164	850	1520	1890	2300	1450	1430	1280	1720
21	2390	2960	68	40	1670	1460	2020	2280	1700	1390	1380	1800
22	2370	2650	43	291	1920	1510	1800	1730	1800	1290	1380	1870
23	2400	2700	40	317	2050	1490	1650	2030	1390	1620	1520	1890
24	2540	2890	58	120	2200	1760	1640	1940	1280	2230	1470	1950
25	2430	2810	116	49	2250	2140	1630	1990	1190	1850	1360	2130
26	2440	2680	395	38	2220	2110	1880	1930	1080	1620	1290	2140
27	2430	2640	591	40	2220	2070	2060	1800	1260	1500	1270	2130
28	2370	2570	492	80	2210	2070	1950	1780	1030	2130	1210	2060
29	2600	2570	226	80	2150	2320	1890	1810	899	2820	1610	1990
30	2580	2500	712	90	---	2490	1820	1640	815	2650	1500	1900
31	2540	---	520	108	---	2220	---	1620	---	2110	1470	---
TOTAL	68130	80480	36530.7	11670	31658	65930	59780	54060	46814	47877	38038	50550
MEAN	2198	2683	1178	376	1092	2127	1993	1744	1560	1544	1227	1685
MAX	2600	2960	2870	1790	2250	2490	2470	2300	2260	2820	1850	2140
MIN	1740	2400	6.7	38	29	1460	1630	1360	815	691	653	1440
AC-FT	135100	159600	72460	23150	62790	130800	118600	107200	92860	94960	75450	100300

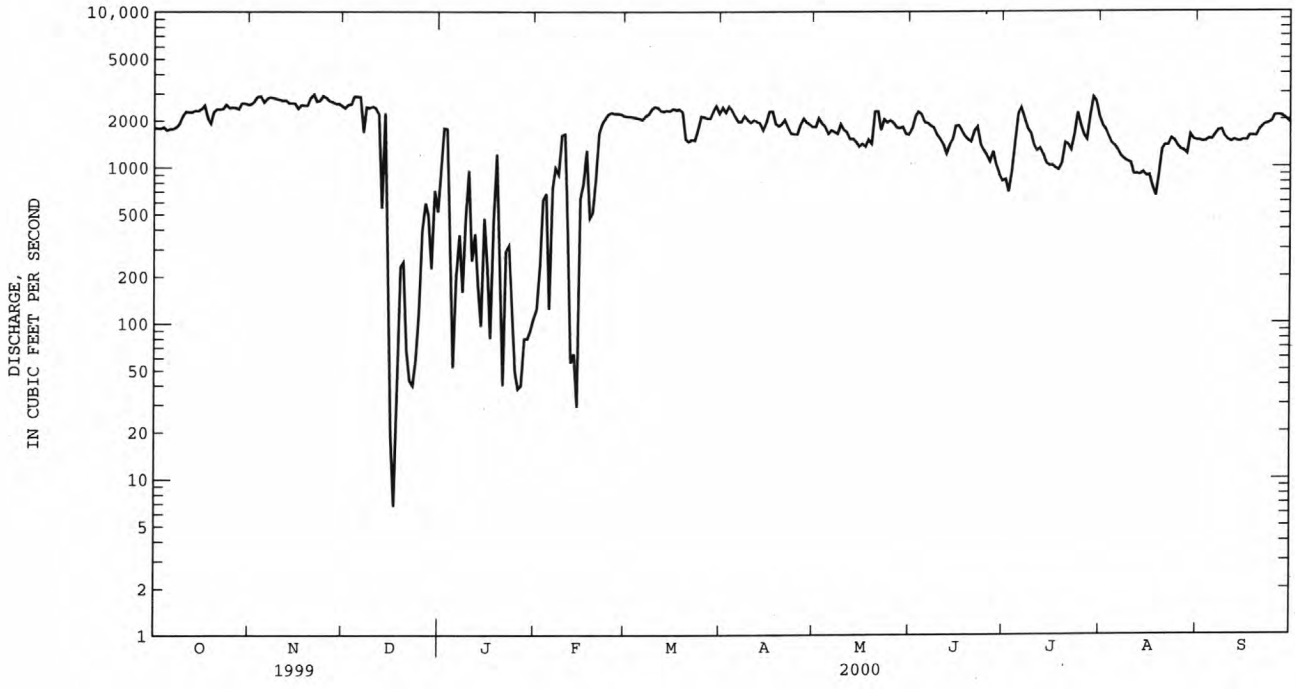
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2000, BY WATER YEAR (WY)

MEAN	1942	1853	992	1163	1529	1843	2137	1995	1943	1385	1253	1567
MAX	2730	2811	1886	2194	2375	2673	2778	2767	2944	2706	2382	2640
(WY)	1987	1999	1982	1983	1987	1990	1977	1957	1962	1962	1996	1951
MIN	544	508	155	129	438	506	537	378	534	309	417	526
(WY)	1938	1939	1975	1985	1958	1939	1939	1984	1938	1980	1971	1998

PLATTE RIVER BASIN

06792500 LOUP RIVER POWER CANAL NEAR GENOA, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1938 - 2000	
ANNUAL TOTAL	730705.7		591517.7			
ANNUAL MEAN	2002		1616		1632	
HIGHEST ANNUAL MEAN					2006	1999
LOWEST ANNUAL MEAN					585	1938
HIGHEST DAILY MEAN	3430	May 25	2960	Nov 21	3560	Nov 3 1994
LOWEST DAILY MEAN	6.7	Dec 17	6.7	Dec 17	.00	Aug 16 1966
ANNUAL SEVEN-DAY MINIMUM	93	Dec 16	69	Jan 25	11	Dec 3 1978
ANNUAL RUNOFF (AC-FT)	1449000		1173000		1182000	
10 PERCENT EXCEEDS	2820		2540		2580	
50 PERCENT EXCEEDS	2060		1740		1740	
90 PERCENT EXCEEDS	1160		252		519	



PLATTE RIVER BASIN

06793000 LOUP RIVER NEAR GENOA, NE

LOCATION.--Lat 41°25'05", long 097°43'25", in SW ¼ NE ¼ sec.25, T.17 N., R.4 W., Nance County, Hydrologic Unit 10210009, on right bank 12 ft downstream from bridge on State Highway 39, 2 mi south of Genoa, 3 mi upstream from Beaver Creek, 6 mi downstream from diversion dam of Loup River Public Power District and at mile 26.8.

DRAINAGE AREA .--14,320 mi^2, of which about 5,620 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--August 1928 to June 1932, October 1943 to current year (October 1953 to April 1955, monthly discharge only).

REVISED RECORDS.--WDR NE-94-1: Drainage area. WDR NE-99-1: 1993 (maximum stage).
NOTE: The maximum stage for the 1993 water year had been revised in 1994 and is listed in the peak flow file, but the change was never actually shown in the 1994 water year report. The stage was changed from 11.01 ft July 24, 1993, to 12.69 ft Mar.8, 1993, affected by backwater from ice.

GAGE.--Water-stage recorder. Datum of gage is 1,540.13 ft above sea level. Aug. 17, 1928, to June 30, 1932, nonrecording gage at present site at datum 1.49 ft higher. Oct. 1, 1943, to Sept. 16, 1974, (Apr. 26 to Dec. 22, 1949, wire-weight gage only), at present site and datum. Sept. 17, 1974, to Nov. 21, 1977, at site 300 ft upstream at present datum. Data collection platform at station.

REMARKS.--Records fair except for period of estimated record, which is poor. Natural flow of stream affected by power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas. Records do not include flow of Loup River power canal (station 06792500), which diverts at point 6 mi upstream and returns to Platte River below mouth of Loup River; diversion began Dec. 2, 1936.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	78	119	1670	e1500	789	422	143	123	42	38	80
2	44	136	85	1190	e1650	720	634	117	115	33	36	94
3	42	96	140	1060	e1450	749	514	367	138	72	28	100
4	43	78	47	e1170	e1300	667	548	101	68	65	51	121
5	135	77	79	e1650	e1750	651	262	149	82	219	34	115
6	45	50	39	e1500	e1660	634	196	56	68	169	37	113
7	40	39	537	e1950	e1800	448	257	55	94	38	32	121
8	40	32	114	e2250	e2090	582	487	105	47	20	41	96
9	47	31	83	e1950	e1290	808	307	60	82	70	30	75
10	87	30	115	e1450	e1160	1150	228	85	57	21	27	90
11	78	30	132	e2050	e2400	815	229	53	56	18	39	136
12	48	32	178	e2000	e2740	545	396	82	234	24	41	72
13	38	37	1090	e2200	2640	567	205	47	70	10	41	73
14	43	31	192	e2400	2510	566	274	49	100	8.6	34	66
15	38	40	1520	e2050	2020	442	186	73	57	27	33	59
16	36	161	e1580	e2470	1980	641	989	39	69	52	49	68
17	37	128	e1690	e2620	1180	686	696	58	46	55	107	101
18	252	103	e1760	e2140	1990	798	381	65	52	31	169	45
19	551	155	e1370	e1380	2030	908	361	80	103	51	104	67
20	275	124	e850	e2340	1670	1560	217	220	47	58	55	108
21	73	101	e1130	2390	808	1580	300	76	78	22	27	70
22	56	25	e1260	2080	618	1600	181	227	64	37	23	30
23	45	57	e1460	1800	691	1650	89	79	125	61	57	27
24	61	32	2260	1660	1000	1810	89	139	60	73	31	61
25	41	22	2430	1380	1080	1490	77	72	44	17	35	32
26	61	15	2700	1780	891	947	209	108	59	19	63	60
27	41	12	2320	1830	847	1020	426	103	61	17	107	23
28	34	21	2810	e1450	798	1150	293	90	42	356	513	15
29	71	34	2720	e1350	641	668	134	92	41	1530	76	14
30	104	96	e1700	e1100	---	346	94	150	37	626	61	23
31	73	---	e1750	e1050	---	561	---	76	---	45	78	---
TOTAL	2624	1903	34260	55360	44184	27548	9681	3216	2319	3886.6	2097	2155
MEAN	84.6	63.4	1105	1786	1524	889	323	104	77.3	125	67.6	71.8
MAX	551	161	2810	2620	2740	1810	989	367	234	1530	513	136
MIN	34	12	39	1050	618	346	77	39	37	8.6	23	14
AC-FT	5200	3770	67950	109800	87640	54640	19200	6380	4600	7710	4160	4270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2000, BY WATER YEAR (WY)

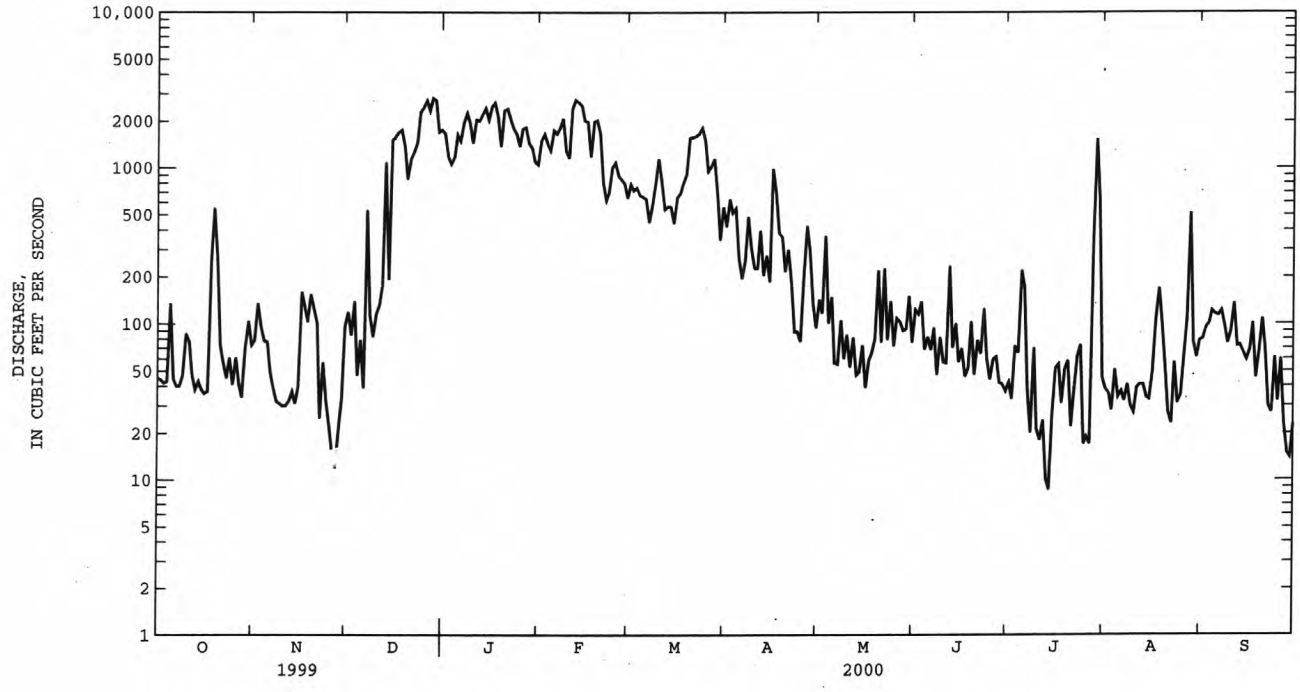
MEAN	149	431	1059	971	1382	1653	673	628	913	372	256	235
MAX	1084	1650	2533	2632	4762	5650	3745	4777	7365	6214	4253	2055
(WY)	1999	1992	1998	1990	1997	1978	1984	1984	1947	1993	1966	1998
MIN	3.76	41.1	177	67.5	72.4	95.0	18.5	8.18	7.54	.17	1.15	.000
(WY)	1977	1953	1956	1982	1955	1981	1981	1963	1981	1963	1970	1956

PLATTE RIVER BASIN

06793000 LOUP RIVER NEAR GENOA, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1944 - 2000	
ANNUAL TOTAL	393003		189233.6			
ANNUAL MEAN	1077		517		724	
HIGHEST ANNUAL MEAN					1993	1993
LOWEST ANNUAL MEAN					182	1963
HIGHEST DAILY MEAN	11500	Jun 28	2810	Dec 28	70800	Aug 13 1966
LOWEST DAILY MEAN	12	Nov 27	8.6	Jul 14	.00	Aug 20 1956
ANNUAL SEVEN-DAY MINIMUM	26	Nov 22	23	Jul 10	.00	Aug 20 1956
INSTANTANEOUS PEAK FLOW			*3370	Dec 26	129000	Aug 13 1966
INSTANTANEOUS PEAK STAGE			**7.05	Jan 10	13.93	Aug 13 1966
ANNUAL RUNOFF (AC-FT)	779500		375300		524300	
10 PERCENT EXCEEDS	2500		1750		2090	
50 PERCENT EXCEEDS	600		104		120	
90 PERCENT EXCEEDS	44		32		13	

e Estimated.
* Stage 6.67 ft.
** Backwater from ice; peak stage also occurred on Jan. 11 and Feb. 8.



PLATTE RIVER BASIN

06794000 BEAVER CREEK AT GENOA, NE

LOCATION.--Lat 41°26'32", long 097°44'11", in NE ¼ SE ¼ sec.14, T.17 N., R.4 W., Nance County, Hydrologic Unit 10210009, on left bank in city park at southwest corner of Genoa, 0.2 mi downstream from Union Pacific Railroad bridge, 0.2 mi upstream from bridge on State Highway 39, and 4.0 mi upstream from mouth.

DRAINAGE AREA .--677 mi^2, of which about 429 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--October 1940 to current year.

REVISED RECORDS.--WSP 1310: 1942(M). WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,542.13 ft above sea level. October 1940 to Nov. 5, 1942, nonrecording gage and Nov. 6, 1942, to Nov. 1, 1955, water-stage recorder, at site 0.4 mi upstream at datum 4.62 ft higher.

REMARKS.--Records fair except for periods of estimated record, which are poor. Natural flow affected slightly by ground-water and surface-water withdrawals for irrigation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	88	91	129	e106	139	106	105	201	80	45	38
2	72	85	95	117	e112	129	102	109	176	93	29	30
3	74	86	93	112	e114	125	100	117	161	85	24	32
4	80	86	91	e90	e110	125	102	110	146	97	28	41
5	87	88	88	e84	e100	125	108	101	129	83	32	43
6	83	87	87	e96	e96	122	105	96	117	882	34	61
7	78	85	85	e104	e110	122	97	96	112	741	25	54
8	85	88	87	e108	124	130	90	96	105	502	17	50
9	85	92	90	e114	118	125	92	96	98	365	17	47
10	83	91	92	e118	123	133	93	96	92	244	18	42
11	83	90	89	e120	104	127	91	94	81	183	17	40
12	83	86	90	e114	101	123	91	85	88	163	18	36
13	82	92	80	e116	108	115	92	80	83	162	18	38
14	82	92	83	e118	e106	117	93	73	75	135	15	37
15	85	89	83	e116	e104	116	87	72	77	122	12	45
16	92	89	82	e112	112	107	110	73	77	107	10	41
17	83	90	e78	e114	113	107	129	82	61	91	8.4	33
18	82	90	e74	e116	117	112	168	390	59	79	8.4	31
19	81	88	e68	e110	110	116	184	392	54	68	19	32
20	85	86	e58	e96	103	120	180	224	246	66	36	36
21	89	88	e54	e100	111	124	162	178	263	67	40	36
22	89	88	e76	e106	121	116	143	147	158	78	38	45
23	85	99	e82	e104	145	125	133	127	118	74	47	51
24	84	93	e90	e98	175	138	123	113	205	97	45	56
25	86	92	e92	e92	324	154	114	100	312	121	40	56
26	88	91	e94	e90	262	177	109	108	266	75	40	56
27	88	91	e96	e96	211	151	110	172	188	60	40	61
28	88	89	e102	e102	173	129	108	223	132	50	31	57
29	87	87	e106	e100	152	115	108	247	104	56	38	46
30	87	87	e114	e98	---	110	104	229	81	62	40	43
31	88	---	126	e96	---	111	---	253	---	52	39	---
TOTAL	2597	2673	2716	3286	3865	3885	3434	4484	4065	5140	868.8	1314
MEAN	83.8	89.1	87.6	106	133	125	114	145	136	166	28.0	43.8
MAX	92	99	126	129	324	177	184	392	312	882	47	61
MIN	72	85	54	84	96	107	87	72	54	50	8.4	30
AC-FT	5150	5300	5390	6520	7670	7710	6810	8890	8060	10200	1720	2610

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2000, BY WATER YEAR (WY)

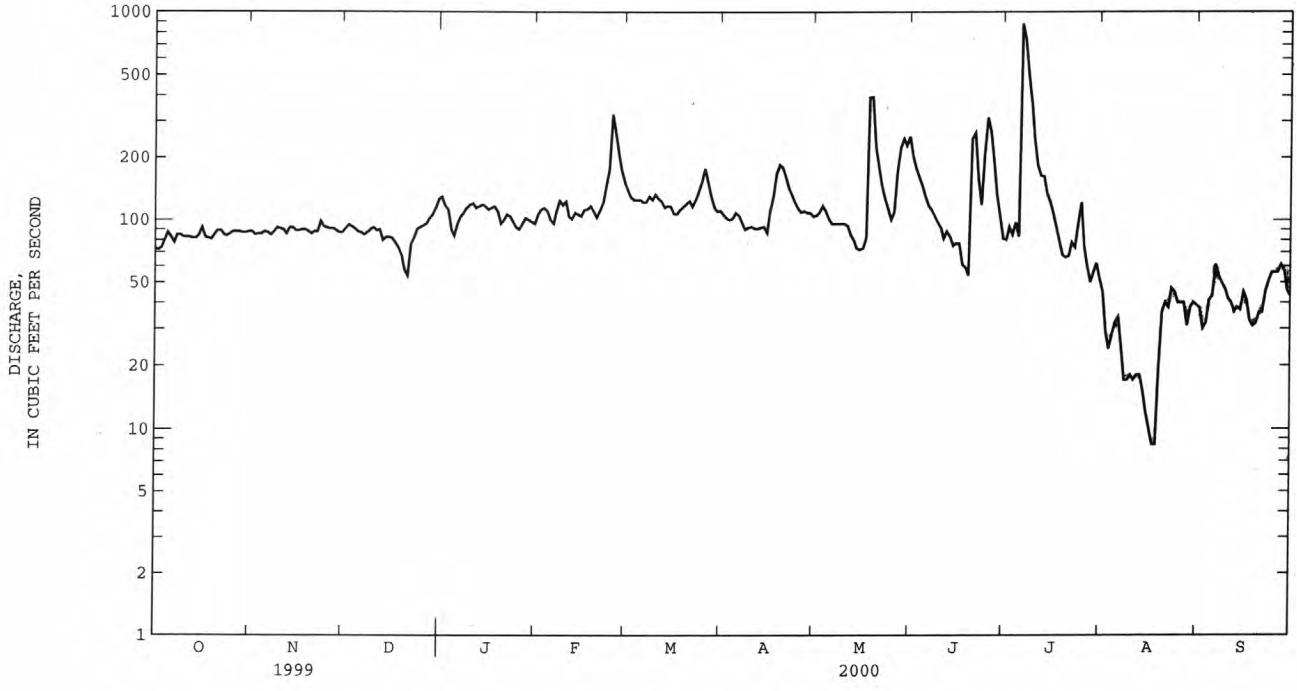
MEAN	81.7	88.4	85.3	84.1	136	198	168	177	234	142	94.7	81.0
MAX	184	173	150	197	537	688	519	432	808	1248	601	216
(WY)	1987	1983	1973	1973	1971	1993	1984	1984	1967	1950	1966	1993
MIN	43.4	47.6	42.2	48.0	57.4	78.0	74.2	67.3	64.0	12.9	8.72	29.8
(WY)	1981	1941	1977	1957	1979	1981	1981	1981	1980	1980	1976	1976

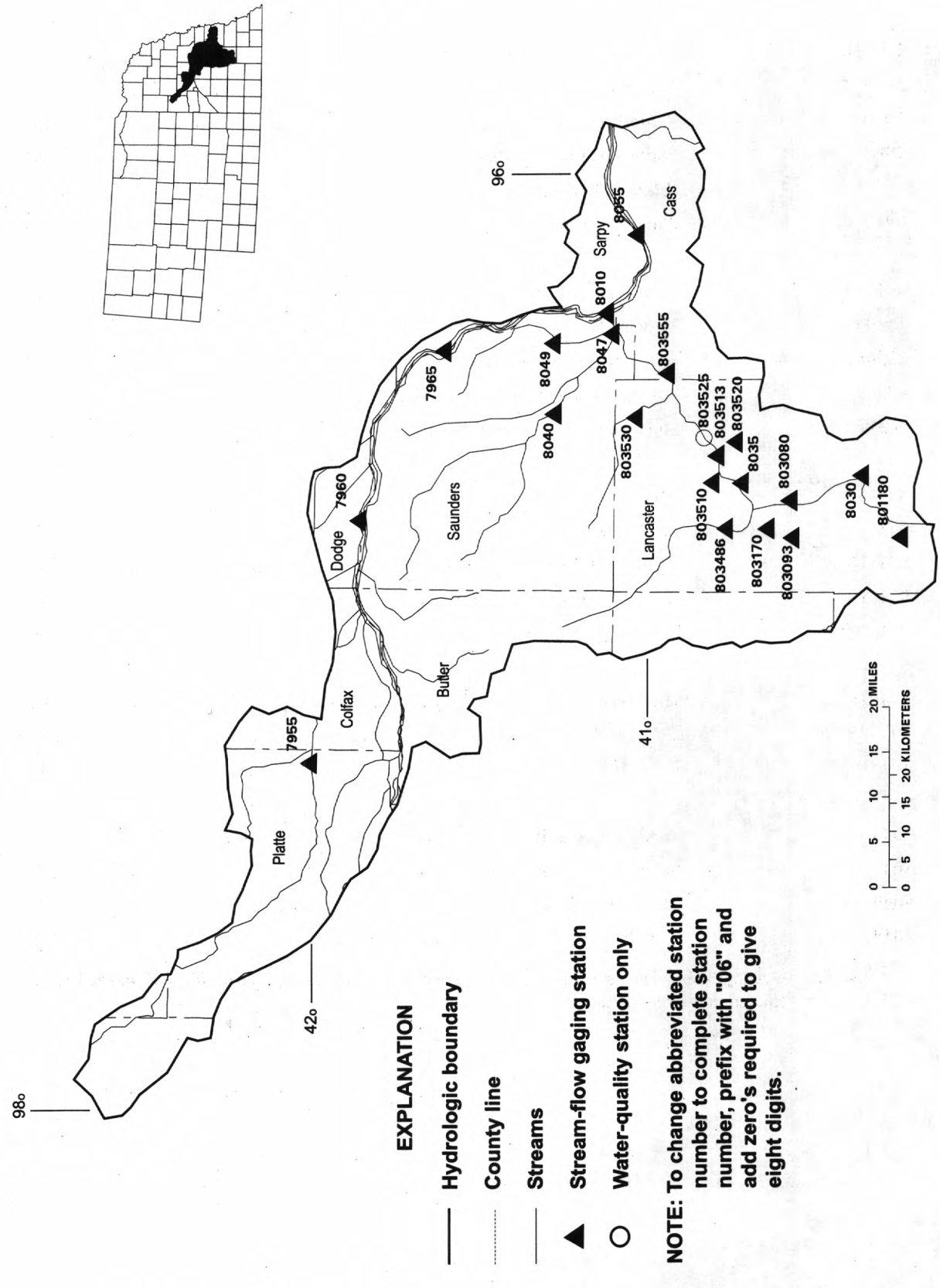
PLATTE RIVER BASIN

06794000 BEAVER CREEK AT GENOA, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1941 - 2000	
ANNUAL TOTAL	60555		38327.8			
ANNUAL MEAN	166		105		131	
HIGHEST ANNUAL MEAN					268	1993
LOWEST ANNUAL MEAN					70.9	1981
HIGHEST DAILY MEAN	1660	Jun 27	882	Jul 6	10000	Jul 19 1950
LOWEST DAILY MEAN	43	Aug 27	8.4	Aug 17	.41	Jul 25 1974
ANNUAL SEVEN-DAY MINIMUM	47	Aug 27	13	Aug 12	.90	Jul 24 1974
INSTANTANEOUS PEAK FLOW			1230	Jul 6	21200	Jul 19 1950
INSTANTANEOUS PEAK STAGE			9.09	Jul 6	*18.70	Jul 19 1950
ANNUAL RUNOFF (AC-FT)	120100		76020		94660	
10 PERCENT EXCEEDS	334		159		210	
50 PERCENT EXCEEDS	123		92		90	
90 PERCENT EXCEEDS	67		40		49	

e Estimated.
* Site and datum then in use.




98°
42°
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Platte
Colfax
Dodge
Saunders
Butler
Lancaster
Sarpy
Cass
7955
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803513
803520
8035
803080
803510
803486
803170
803093
8030
801180
EXPLANATION
Hydrologic boundary
County line
Streams
Stream-flow gaging station
Water-quality station only
NOTE: To change abbreviated station number to complete station number, prefix with "06" and add zero's required to give eight digits.
0 5 10 15 20 MILES
0 5 10 15 20 KILOMETERS

*Station number	Station name	Page
794650	Clear Creek 1.75 mi W of Polk County Line	146
7955	Shell Creek near Columbus	148
7960	Platte River at North Bend	150
7965	Platte River near Leshara	152
	(Elkhorn River Basin stations)	154-173
8010	Platte River near Ashland	174
801180	Olive Branch near Hallam	176
8030	Salt Creek at Roca	180
803080	Salt Creek at Pioneers Blvd at Lincoln	182
803093	Haines Branch at SW 56th St. at Lincoln	184
803170	Middle Creek at SW 40th St. at Lincoln	186
803486	Oak Creek at Air Park Rd. at Lincoln	188
8035	Salt Creek at Lincoln	190
803510	Little Salt Creek near Lincoln	192
803513	Salt Creek at 70th St. at Lincoln	194
803520	Stevens Creek near Lincoln	196
803525	Salt Creek below Stevens Creek, near Waverly	198
803530	Rock Creek near Ceresco	202
803555	Salt Creek at Greenwood	204
8040	Wahoo Creek at Ithaca	206
8047	Wahoo Creek at Ashland	208
8049	Johnson Creek near Memphis	210
8055	Platte River at Louisville	212

*NOTE: To change abbreviated station number to complete station number, prefix with "06" and add zeros required to give eight digits.

PLATTE RIVER BASIN

06794650 CLEAR CREEK 1.75 MILE WEST OF POLK COUNTY LINE, NE

LOCATION.--Lat 41°21'07", long 097°24'11", in SE ¼ SW ¼, sec.14, T.16 N., R.1 W., Polk County, Hydrologic Unit 10200103, on right bank of the upstream side of bridge, 1.75 mi west of Polk County line. (NOTE: Refer to map on page 74.)

PERIOD OF RECORD.--March 1996 to current year.

GAGE.--Water-stage recorder.

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	13	14	15	15	19	19	23	17	14	5.2	3.6
2	11	13	14	16	15	18	18	22	16	14	5.1	3.6
3	11	12	15	15	16	19	18	22	16	13	4.8	3.7
4	11	13	15	14	15	19	18	21	17	14	4.2	3.9
5	12	13	14	15	15	19	18	20	17	13	3.9	3.8
6	11	13	14	15	16	19	18	19	17	12	3.6	3.7
7	12	14	14	15	15	18	18	19	17	12	3.5	3.7
8	12	14	14	15	15	19	17	18	16	11	3.4	3.7
9	12	14	14	16	16	18	17	18	15	9.0	3.4	3.7
10	12	14	14	16	16	18	17	17	15	7.9	3.4	3.7
11	12	14	14	15	16	17	18	16	14	7.6	3.3	3.8
12	12	14	14	15	16	17	18	16	14	6.8	3.2	3.7
13	12	14	14	15	16	17	18	15	16	6.5	3.2	3.8
14	12	14	14	15	16	17	19	14	14	6.0	2.9	3.9
15	12	14	14	16	16	17	18	14	13	5.5	2.7	3.8
16	12	14	14	15	16	17	21	13	13	7.3	2.7	3.9
17	12	14	14	16	16	16	22	14	13	9.3	2.6	3.9
18	12	14	14	16	17	18	23	14	13	7.2	2.6	3.9
19	12	14	15	16	16	19	24	14	12	6.7	3.4	4.0
20	12	13	13	16	16	19	23	14	13	6.9	3.2	4.1
21	12	14	14	16	18	19	23	14	11	6.3	3.3	4.0
22	12	13	13	16	18	19	23	14	11	6.1	3.3	4.4
23	12	16	14	16	20	20	23	14	10	6.0	3.6	4.3
24	12	14	14	15	20	21	23	13	12	5.9	3.6	4.3
25	12	14	14	15	21	21	23	13	22	5.7	3.7	4.2
26	12	14	15	15	20	22	25	17	23	5.6	3.7	4.2
27	12	14	15	15	19	21	25	18	18	5.4	3.8	4.1
28	12	14	15	15	19	20	24	17	16	5.9	3.8	4.1
29	13	14	15	15	19	20	24	17	15	5.6	3.7	4.2
30	12	14	15	15	---	19	23	18	14	5.3	3.6	4.1
31	12	---	15	16	---	19	---	17	---	5.2	3.6	---
TOTAL	367	413	441	476	489	581	618	515	450	252.7	110.0	117.8
MEAN	11.8	13.8	14.2	15.4	16.9	18.7	20.6	16.6	15.0	8.15	3.55	3.93
MAX	13	16	15	16	21	22	25	23	23	14	5.2	4.4
MIN	10	12	13	14	15	16	17	13	10	5.2	2.6	3.6
AC-FT	728	819	875	944	970	1150	1230	1020	893	501	218	234

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

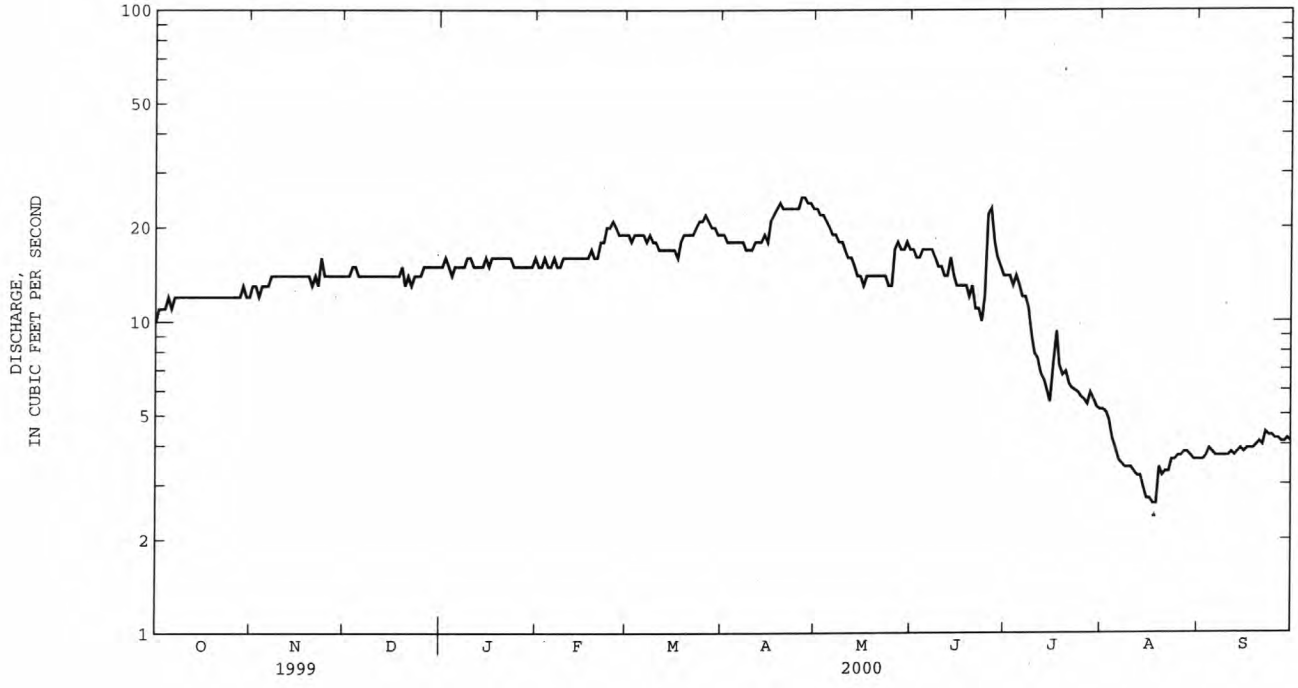
MEAN	11.3	19.5	19.3	16.4	20.4	24.6	51.0	41.6	83.9	22.8	12.7	7.95
MAX	13.2	26.0	25.0	20.1	24.1	33.5	114	75.5	234	58.6	25.8	15.2
(WY)	1997	1997	1997	1999	1999	1999	1998	1999	1999	1999	1996	1996
MIN	7.98	13.8	14.2	12.5	16.9	18.7	18.2	16.6	15.0	8.15	2.97	3.93
(WY)	1998	2000	2000	1998	2000	2000	1996	2000	2000	2000	1997	2000

PLATTE RIVER BASIN

06794650 CLEAR CREEK 1.75 MILE WEST OF POLK COUNTY LINE, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL TOTAL	17846.1		4830.5			
ANNUAL MEAN	48.9		13.2		28.3	
HIGHEST ANNUAL MEAN					50.3	1999
LOWEST ANNUAL MEAN					13.2	2000
HIGHEST DAILY MEAN	1160	Jun 2	25	Apr 26	1160	Jun 2 1999
LOWEST DAILY MEAN	9.7	Sep 14	2.6	Aug 17	2.5	Aug 23 1997
ANNUAL SEVEN-DAY MINIMUM	9.9	Sep 13	2.8	Aug 12	2.7	Aug 21 1997
INSTANTANEOUS PEAK FLOW			43	Jun 25	1360	Jun 2 1999
INSTANTANEOUS PEAK STAGE			4.78	Jun 25	*8.65	Jun 2 1999
ANNUAL RUNOFF (AC-FT)	35400		9580		20530	
10 PERCENT EXCEEDS	80		19		46	
50 PERCENT EXCEEDS	22		14		18	
90 PERCENT EXCEEDS	12		3.8		6.0	

* From floodmark.



PLATTE RIVER BASIN

06795500 SHELL CREEK NEAR COLUMBUS, NE

LOCATION.--Lat 41°31'33", long 097°16'55", in NE ¼ NW ¼ sec.23, T.18 N., R.1 E., Platte County, Hydrologic Unit 10200201, on right bank 80 ft upstream from county road bridge, 1 mi upstream from Loseke Creek, 7 mi northeast of Columbus, and at mile 32.2.

DRAINAGE AREA.--294 mi^2.

PERIOD OF RECORD.--August 1947 to September 1975, October 1977 to current year.

REVISED RECORDS.--WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,435 ft above sea level. Data collection platform at station.

REMARKS.--Records good except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	21	32	e30	e34	41	31	32	45	26	19	9.6
2	18	22	33	e30	e35	39	31	33	39	22	17	7.9
3	20	24	33	e30	e35	39	32	32	32	22	16	7.9
4	20	24	33	e32	e36	39	32	30	30	23	16	6.7
5	20	24	32	e35	e35	38	31	28	29	26	16	6.4
6	22	25	30	e36	e35	38	32	25	27	386	17	6.3
7	20	25	31	e36	e34	37	30	25	28	789	16	6.2
8	21	24	32	e36	e32	38	30	27	29	1290	15	4.9
9	22	25	32	e35	e30	42	30	32	25	620	16	4.8
10	22	25	31	e35	e27	39	31	31	24	116	13	5.4
11	21	25	31	e35	e25	37	31	28	22	66	12	6.8
12	21	26	33	e34	e22	35	32	29	21	52	14	4.4
13	21	28	33	e34	e24	35	31	27	20	116	13	3.4
14	22	30	32	e32	e26	35	32	26	18	59	12	4.9
15	21	32	e30	e32	e30	37	32	26	16	40	12	4.9
16	22	32	e28	e35	e32	34	34	26	15	34	9.8	6.0
17	24	32	e26	e36	e32	32	45	24	14	31	11	6.0
18	22	32	e24	e37	e34	34	44	81	12	28	9.7	6.5
19	22	30	e22	e38	e34	37	40	115	12	26	11	7.0
20	24	31	e20	e38	e35	39	37	120	11	26	11	6.6
21	24	31	e20	e36	39	37	35	47	188	24	14	8.2
22	24	31	e24	e36	42	37	34	39	121	24	13	9.6
23	25	34	e26	e34	48	37	34	31	28	23	11	9.2
24	24	36	e28	e34	58	45	33	31	51	21	13	11
25	25	33	e28	e34	60	48	32	28	628	20	12	11
26	26	32	e29	e33	55	40	33	29	670	21	11	10
27	26	33	e30	e33	50	37	34	60	135	20	12	9.7
28	24	32	e30	e32	44	34	34	52	47	21	9.8	9.5
29	25	31	e31	e30	41	33	32	41	35	20	8.8	9.4
30	23	31	e31	e32	---	33	32	37	30	19	7.4	9.0
31	22	---	e31	e33	---	32	---	39	---	22	9.3	---
TOTAL	692	861	906	1053	1064	1158	1001	1231	2402	4033	397.8	219.2
MEAN	22.3	28.7	29.2	34.0	36.7	37.4	33.4	39.7	80.1	130	12.8	7.31
MAX	26	36	33	38	60	48	45	120	670	1290	19	11
MIN	18	21	20	30	22	32	30	24	11	19	7.4	3.4
AC-FT	1370	1710	1800	2090	2110	2300	1990	2440	4760	8000	789	435

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2000, BY WATER YEAR (WY)

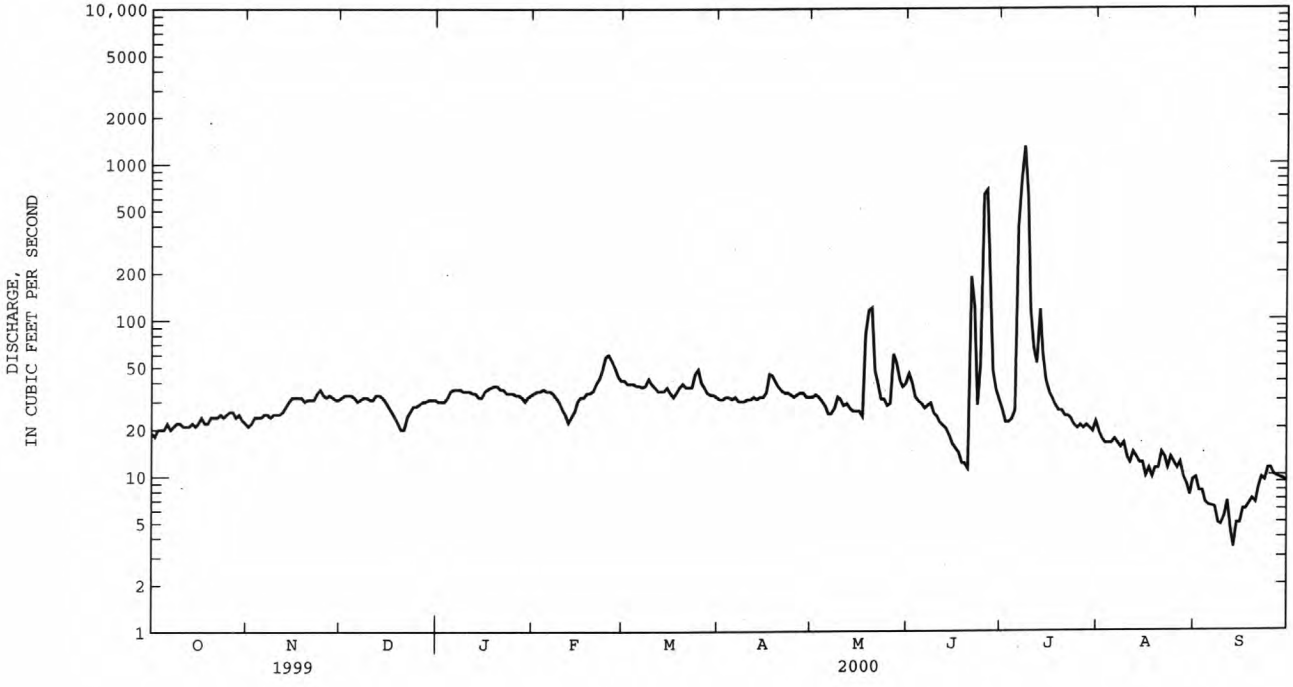
MEAN	18.0	17.7	15.5	19.0	52.0	94.6	42.9	68.7	126	67.0	39.3	24.3
MAX	74.6	62.9	42.2	84.7	322	469	210	552	702	515	202	195
(WY)	1983	1999	1994	1973	1971	1993	1984	1982	1990	1993	1951	1989
MIN	2.90	5.21	5.38	6.03	3.00	13.1	8.14	8.59	9.25	3.77	3.03	3.23
(WY)	1959	1959	1981	1957	1950	1981	1981	1981	1980	1974	1955	1980

PLATTE RIVER BASIN

06795500 SHELL CREEK NEAR COLUMBUS, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1948 - 2000	
ANNUAL TOTAL	33027		15018.0			
ANNUAL MEAN	90.5		41.0		48.7	
HIGHEST ANNUAL MEAN					136	1993
LOWEST ANNUAL MEAN					13.6	1980
HIGHEST DAILY MEAN	3710	Jun 6	1290	Jul 8	4900	Jun 17 1990
LOWEST DAILY MEAN	14	Sep 2	3.4	Sep 13	.40	Jul 27 1954
ANNUAL SEVEN-DAY MINIMUM	15	Aug 29	4.9	Sep 8	.86	Jul 22 1954
INSTANTANEOUS PEAK FLOW			1630	Jul 8	8000	Jun 17 1990
INSTANTANEOUS PEAK STAGE			13.30	Jul 8	22.76	Jun 17 1990
ANNUAL RUNOFF (AC-FT)	65510		29790		35300	
10 PERCENT EXCEEDS	128		41		68	
50 PERCENT EXCEEDS	35		30		17	
90 PERCENT EXCEEDS	19		11		6.0	

e Estimated.



PLATTE RIVER BASIN

06796000 PLATTE RIVER AT NORTH BEND, NE

LOCATION.--Lat 41°27'10", long 096°45'50", in SE ¼ sec. 7., T. 17 N., R. 6 E., Douglas County, Hydrologic Unit 10200202, on left bank 80 ft upstream from bridge on State Highway 79, 1 mi south of North Bend, 5 mi downstream from Shell Creek, and at mile 73.0.

DRAINAGE AREA.--70,400 mi^2, of which about 57,800 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--April 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,262.32 ft above sea level. Prior to Sept. 12, 1951, nonrecording gage and Sept. 12, 1951 to Sept. 30, 1970 water-stage recorder, at present site at datum 2.00 ft higher. Data collection platform at station.

REMARKS.--Records good except for periods of estimated record, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-wateer with-drawals and diversions for irrigation, and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5080	5920	5450	5450	4470	5880	5560	4500	4130	2100	3350	1790
2	5430	6490	5430	6300	4770	5530	5990	4960	4310	1690	2950	1820
3	5090	6320	5510	5710	5040	5230	4920	5100	4690	1420	2780	1960
4	5750	6030	5750	4920	5070	5130	5240	5020	4680	2020	2910	1500
5	5610	6160	5550	5300	4510	5450	5450	4940	4390	2730	2570	1820
6	5300	6050	5590	4630	4930	5000	5300	4110	4260	4440	1770	1720
7	5450	6020	5320	4000	5220	5900	4370	4530	4010	5580	1840	1940
8	5840	5980	5000	5540	4970	5700	4660	4350	3630	5740	1430	2080
9	5690	5770	5400	5940	5400	6060	4310	4190	3480	6090	2000	2190
10	5580	5980	5490	6620	5120	6490	5030	4960	3280	4300	1240	1870
11	5680	5840	5430	6690	4010	6990	4720	4390	3150	3310	1670	2010
12	5740	5890	5610	6470	4540	5770	4870	3990	2960	3070	1080	1810
13	5610	6280	4790	6960	4530	6970	4810	3790	3040	2590	940	2090
14	5280	6070	5170	6210	4870	5070	5330	3890	2400	3000	1010	2000
15	4470	5940	5500	6470	4740	5240	5000	3580	2970	1820	1370	2040
16	5420	6090	4990	6320	5340	5340	5380	3930	3280	1670	599	1990
17	5980	5730	4730	5390	5490	5470	6530	3300	3040	2150	1760	1700
18	5740	6220	4800	5960	5500	4580	6350	3760	3290	2300	632	2040
19	6570	6350	4720	6000	5660	5740	6070	3660	2430	1860	712	2610
20	5540	6000	5030	5870	5090	5880	5870	3420	2630	2740	1510	1470
21	6140	6490	4920	5780	4990	4960	4880	4920	2830	2280	2430	2180
22	5860	6350	4610	5950	4800	5420	5590	4070	3050	2720	1830	2130
23	5560	6510	3490	5910	4920	5980	5480	3350	2950	2430	1940	2320
24	5450	6580	4050	6020	5680	6440	4960	4230	3910	2800	1960	2250
25	5650	6350	5440	5670	6850	6300	4740	4360	4390	3370	2100	2150
26	5170	5690	7110	5460	7660	6490	5110	3970	4660	3220	2330	2600
27	5440	5980	7670	4160	6780	6120	5670	4790	4270	1930	1650	2640
28	5380	5700	6970	4100	6240	6240	5920	4750	3110	2500	1670	2940
29	5880	5440	6460	3990	5990	6320	5580	4310	2870	3320	1910	2610
30	5350	5480	6250	3970	---	5980	5120	4320	2150	5100	1860	2240
31	6010	---	5610	4100	---	6900	---	4260	---	4100	1960	---
TOTAL	172740	181700	167840	171860	153180	180570	158810	131700	104240	94390	55763	62510
MEAN	5572	6057	5414	5544	5282	5825	5294	4248	3475	3045	1799	2084
MAX	6570	6580	7670	6960	7660	6990	6530	5100	4690	6090	3350	2940
MIN	4470	5440	3490	3970	4010	4580	4310	3300	2150	1420	599	1470
AC-FT	342600	360400	332900	340900	303800	358200	315000	261200	206800	187200	110600	124000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2000, BY WATER YEAR (WY)

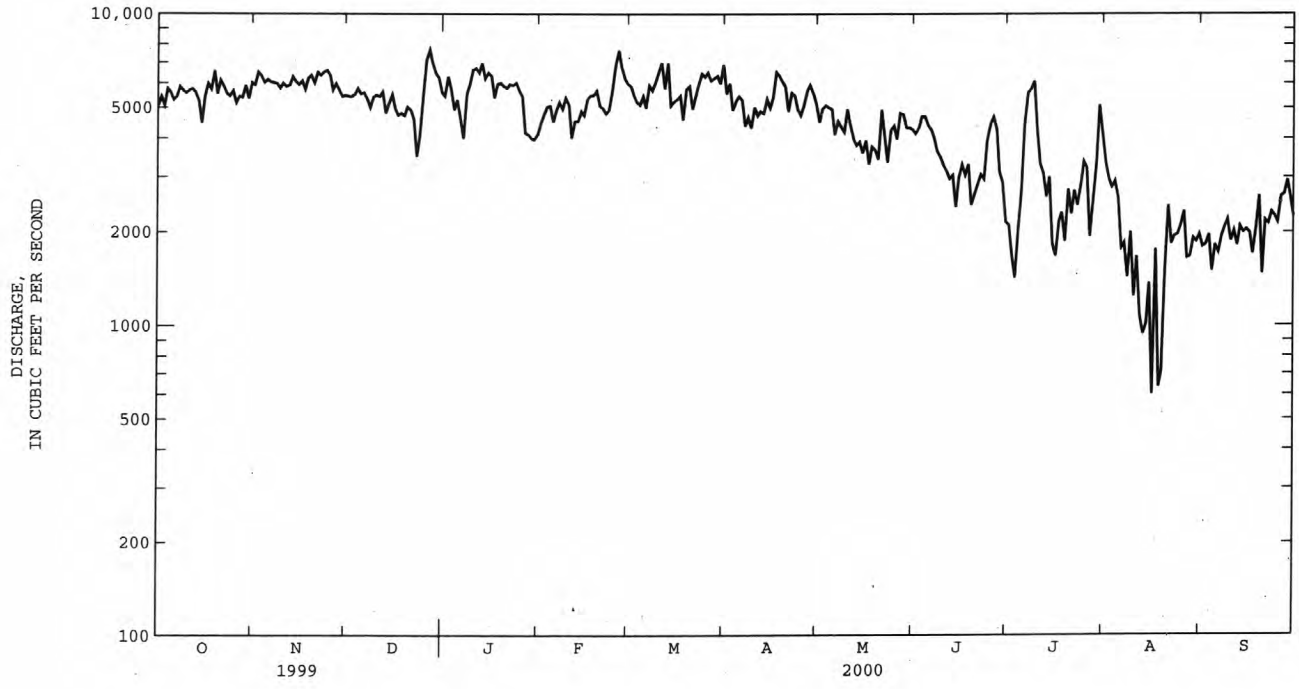
MEAN	3857	4211	3647	3507	5412	7477	6124	5993	6771	3784	2561	3110
MAX	10130	9462	8581	7361	11850	16870	19400	21770	25340	17070	8021	9022
(WY)	1974	1985	1985	1984	1984	1993	1984	1984	1983	1993	1983	1986
MIN	1624	1938	1413	1206	2689	3685	2881	1952	1932	381	442	936
(WY)	1980	1956	1956	1957	1979	1957	1967	1955	1981	1974	1955	1955

PLATTE RIVER BASIN

06796000 PLATTE RIVER AT NORTH BEND, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1949 - 2000	
ANNUAL TOTAL	2637790		1635303			
ANNUAL MEAN	7227		4468		4687	
HIGHEST ANNUAL MEAN					10070	1984
LOWEST ANNUAL MEAN					2168	1956
HIGHEST DAILY MEAN	38100	Jun 28	7670	Dec 27	82300	Mar 10 1993
LOWEST DAILY MEAN	1730	Aug 1	599	Aug 16	36	Jul 29 1974
ANNUAL SEVEN-DAY MINIMUM	2250	Jul 31	1000	Aug 13	146	Jul 24 1974
INSTANTANEOUS PEAK FLOW			8830	Feb 26	*112000	Mar 29 1960
INSTANTANEOUS PEAK STAGE			4.98	Feb 26	**15.55	Mar 19 1978
ANNUAL RUNOFF (AC-FT)	5232000		3244000		3395000	
10 PERCENT EXCEEDS	11800		6240		8470	
50 PERCENT EXCEEDS	6020		4950		3820	
90 PERCENT EXCEEDS	4130		1950		1440	

* Stage 10.04 ft.
** Ice jam.



PLATTE RIVER BASIN

06796500 PLATTE RIVER NEAR LESHARA, NE

LOCATION.--Lat 41°19'12", long 096°24'14", in NW ¼ sec.34, T.16 N., R.9 E., Douglas County, Hydrologic Unit 10200202, on left bank 250 ft downstream from bridge on Nebraska Highway 64, 1.0 mi southeast of Leshara, NE.

PERIOD OF RECORD.--June 1994 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,143.86 ft above sea level. Data collection platform at station.

REMARKS.--Records good except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5280	5680	5330	5270	e5000	6930	6930	4800	4410	2100	3770	1670
2	5800	6170	5820	6310	e5200	6410	6430	4230	4230	1970	2800	1630
3	5370	5750	5710	5840	e5600	6180	5490	4790	4080	1520	2850	1750
4	5570	6630	6280	6750	e6200	5960	5310	5050	4540	1200	2990	1810
5	6330	6150	6050	4810	e5800	5950	5810	5150	4210	2350	2390	1570
6	5640	6000	6060	4700	e6400	5800	5630	4990	3740	6530	2390	1820
7	6130	6090	6370	3490	e6800	5960	4930	4970	4110	7020	1570	1740
8	6180	5980	5380	4850	e6600	5940	5180	5020	3610	6250	1700	1930
9	6250	5520	5720	5630	e6800	6100	4350	5160	3580	7070	1260	2130
10	6140	5550	5590	6320	e6200	5810	6010	4920	3340	5380	1720	2000
11	6170	6040	5960	6040	e5800	6560	5730	5670	3160	4380	1130	1960
12	6180	5850	5550	5940	e6000	6650	4980	4790	2950	3580	1190	1880
13	5940	6070	5340	6510	e6000	6830	5820	4250	2740	3280	904	1850
14	5960	6120	4960	5800	6240	6420	5660	3680	2320	3030	783	1860
15	5310	5990	6130	6110	7010	6150	5290	3770	2200	2340	750	1880
16	4910	6190	4450	5920	7990	6120	5810	3860	2380	1540	971	1850
17	5820	5970	4680	4680	6340	6220	6250	3150	2450	1330	627	1780
18	6180	6080	4400	5390	6420	6250	6400	3750	2370	1680	1300	1680
19	6270	6220	4630	5520	6410	6100	5640	3910	2220	1460	599	1910
20	6160	5790	4860	4680	6370	6160	5310	3730	2160	1480	739	2230
21	5820	5580	e5100	4450	5210	6640	4290	4710	2540	2450	1510	1530
22	6240	5930	e4800	5120	5580	6550	5090	4540	2060	1730	1830	1950
23	5600	5680	e3800	4910	5910	7090	4590	3670	2540	1900	1790	2240
24	5570	6080	e5200	5150	6640	7530	4620	3710	3490	2170	1880	2310
25	5790	6330	e6200	5650	7430	7780	3890	4350	4170	2520	1900	2480
26	5300	5700	8560	5660	8050	7290	4940	4220	5040	2950	1980	2470
27	6260	5870	10400	4680	7640	7500	5090	4550	4760	2470	2170	2760
28	5770	5520	9920	4910	6820	6910	5610	4410	3450	1920	1450	3000
29	6140	5370	9430	5100	6690	7140	5360	4590	3000	2190	1320	2910
30	5940	5470	8530	5100	---	6860	4920	4730	2710	4690	1640	2700
31	5770	---	5840	4630	---	7380	---	4410	---	3970	1720	---
TOTAL	181790	177370	187050	165920	185150	203170	161360	137530	98560	94450	51623	61280
MEAN	5864	5912	6034	5352	6384	6554	5379	4436	3285	3047	1665	2043
MAX	6330	6630	10400	6750	8050	7780	6930	5670	5040	7070	3770	3000
MIN	4910	5370	3800	3490	5000	5800	3890	3150	2060	1200	599	1530
AC-FT	360600	351800	371000	329100	367200	403000	320100	272800	195500	187300	102400	121500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2000, BY WATER YEAR (WY)

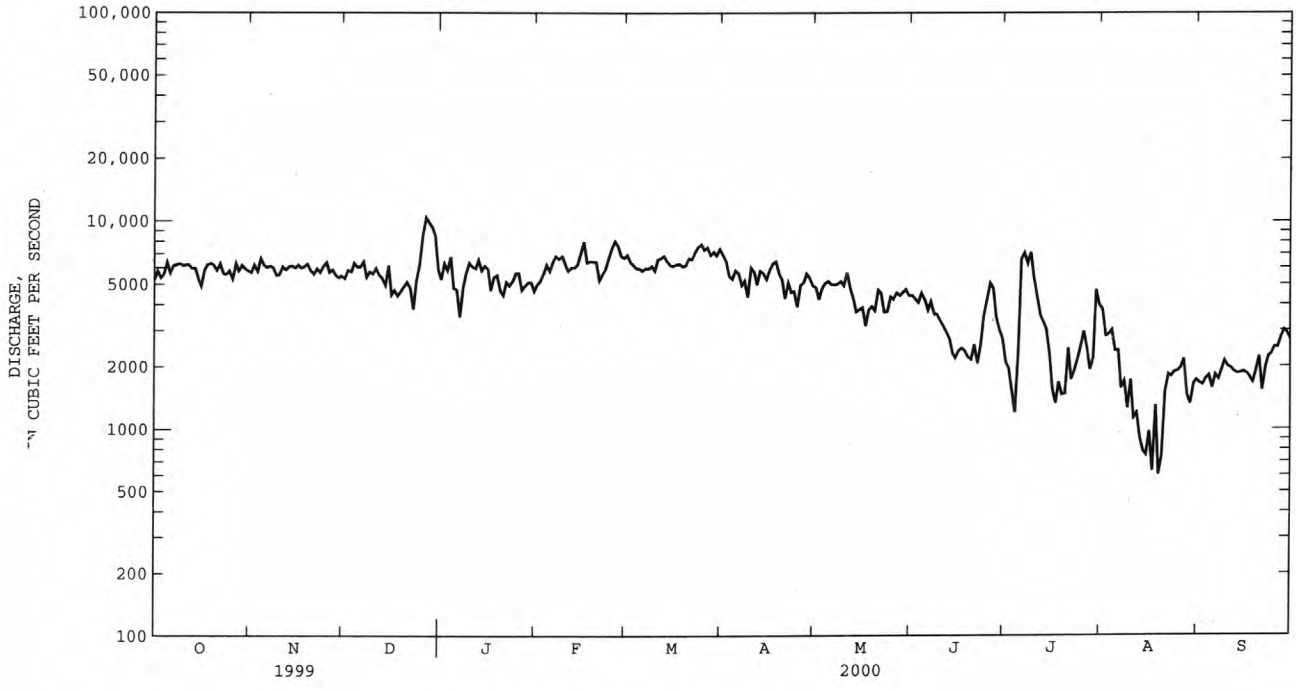
MEAN	5623	6154	5691	5307	7468	6744	7666	7660	10390	5685	4451	4287
MAX	6733	7784	6762	7552	10040	7960	11300	10650	17460	10540	7163	6793
(WY)	1998	1998	1998	1998	1997	1998	1998	1995	1995	1995	1996	1996
MIN	4022	4611	4487	3413	5648	5823	5379	4436	3285	3047	1665	2043
(WY)	1995	1995	1996	1996	1995	1996	2000	2000	2000	2000	2000	2000

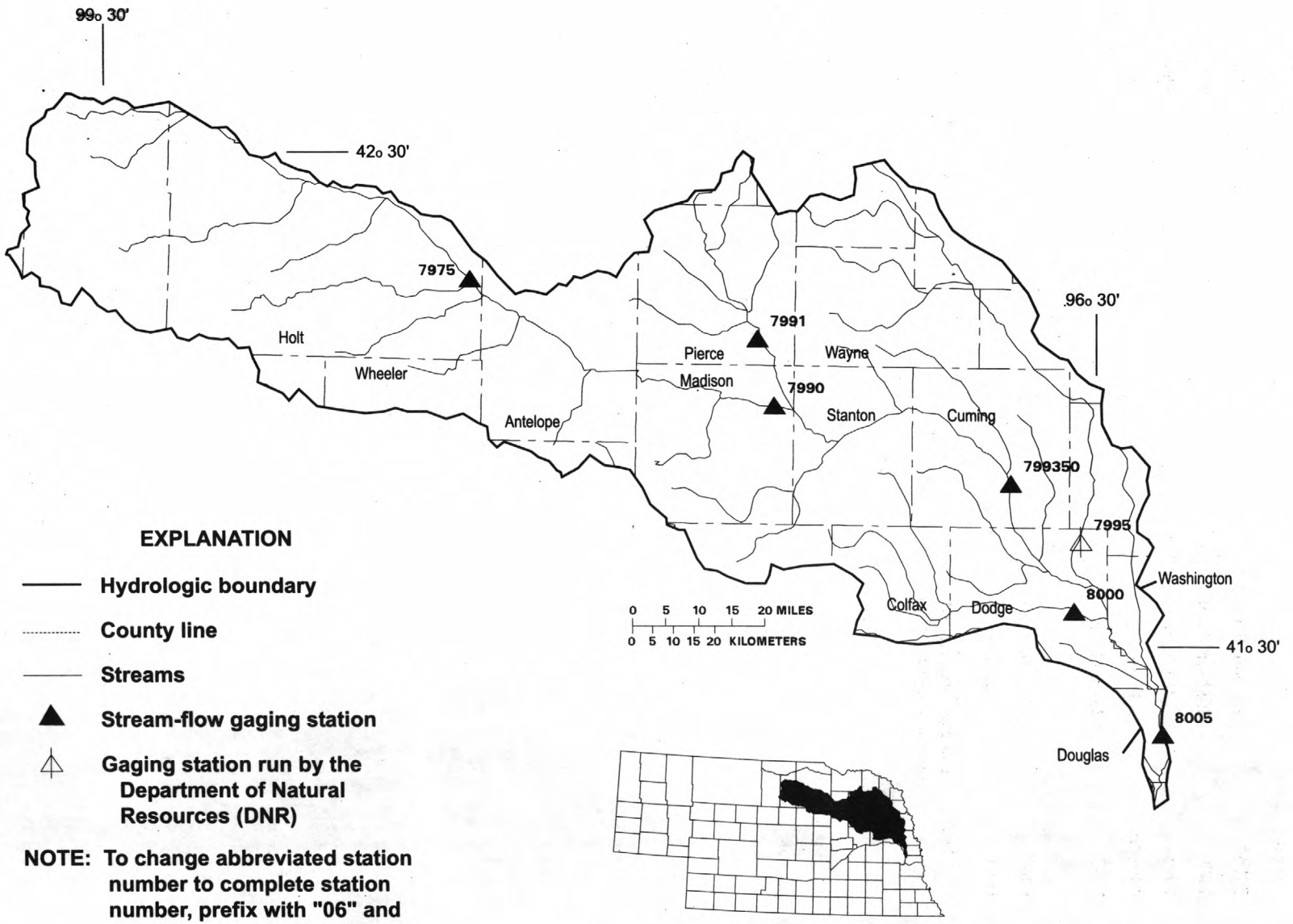
PLATTE RIVER BASIN

06796500 PLATTE RIVER NEAR LESHARA, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1994 - 2000	
ANNUAL TOTAL	2750080		1705253			
ANNUAL MEAN	7534		4659		6446	
HIGHEST ANNUAL MEAN					7444	1999
LOWEST ANNUAL MEAN					4659	2000
HIGHEST DAILY MEAN	29600	Jun 28	10400	Dec 27	29600	Jun 28 1999
LOWEST DAILY MEAN	2100	Aug 3	599	Aug 19	599	Aug 19 2000
ANNUAL SEVEN-DAY MINIMUM	3070	Jul 30	824	Aug 14	824	Aug 14 2000
INSTANTANEOUS PEAK FLOW			*8730	Jul 6	32600	Jun 2 1999
INSTANTANEOUS PEAK STAGE			**9.55	Feb 3	11.84	Feb 9 1996
ANNUAL RUNOFF (AC-FT)	5455000		3382000		4670000	
10 PERCENT EXCEEDS	12000		6540		9980	
50 PERCENT EXCEEDS	6260		5160		5820	
90 PERCENT EXCEEDS	4600		1800		2920	

e Estimated.
* Stage 5.08 ft.
** Floodmark, backwater from ice.




99o 30'
42o 30'
96o 30'
41o 30'
7975
7991
7990
799350
7995
8000
8005
Holt
Wheeler
Antelope
Pierce
Madison
Wayne
Stanton
Cuming
Colfax
Dodge
Washington
Douglas
0 5 10 15 20 MILES
0 5 10 15 20 KILOMETERS
EXPLANATION
Hydrologic boundary
County line
Streams
Stream-flow gaging station
Gaging station run by the Department of Natural Resources (DNR)
NOTE: To change abbreviated station number to complete station number, prefix with "06" and add zero's required to give eight digits.

*Station number	Station name	Page
7975	Elkhorn River at Ewing	156
7990	Elkhorn River at Norfolk	158
7991	N.F. Elkhorn near Pierce	160
799350	Elkhorn River at West Point	162
7995	Logan Creek near Uehling	164
8000	Maple Creek near Nickerson	166
8005	Elkhorn River at Waterloo	172

* NOTE: To change abbreviated station number to complete station number, prefix with "06" and add zeros required to give eight digits.

PLATTE RIVER BASIN

06797500 ELKHORN RIVER AT EWING, NE

LOCATION.--Lat 42°16'03", long 098°20'11", in NW ¼ SW ¼ sec.35, T.27 N., R.9 W., Holt County, Hydrologic Unit 10220001, on right bank 800 ft downstream from bridge on State. Highway L-45B, 0.8 mi north of Ewing, 1.5 mi upstream from South Fork Elkhorn River, and at mile 199.

DRAINAGE AREA.--1,400 mi^2, approximately, of which about 740 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--August 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,836.24 ft above sea level, levels by Nebraska Department of Roads. Prior to Oct. 22, 1952, at site 300 ft upstream at same datum.

REMARKS.--Records fair except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	52	65	e56	e70	113	89	97	186	46	24	10
2	40	50	64	e56	e80	111	87	102	168	45	23	10
3	41	50	63	e52	e78	111	84	101	150	41	21	9.8
4	43	52	66	e52	e76	111	83	99	135	43	21	11
5	45	54	e63	e58	e80	110	85	96	122	43	20	9.0
6	44	54	e54	e58	e80	106	81	93	112	68	18	8.5
7	46	54	e60	e68	e78	105	78	92	106	65	17	9.1
8	47	58	e68	e68	e90	106	79	92	95	47	16	7.9
9	45	56	e66	e66	e88	108	80	89	81	41	15	7.2
10	45	54	e64	e66	e84	108	80	87	76	38	14	7.1
11	43	53	e64	e66	e84	109	80	86	70	49	14	6.8
12	45	54	e66	e62	e86	110	79	82	69	45	13	6.4
13	44	55	e64	e64	e86	108	81	77	84	40	12	6.7
14	45	54	e64	e68	e86	108	80	76	90	37	11	6.5
15	46	55	e62	e66	e90	106	78	74	82	35	10	6.2
16	45	55	e56	e60	e90	100	101	74	81	33	10	6.1
17	45	56	e56	e64	e86	98	107	74	80	32	11	6.1
18	46	57	e54	e70	e82	98	126	90	77	31	10	5.5
19	47	58	e50	e66	e86	100	123	144	73	32	11	6.1
20	48	58	e44	e66	92	99	114	174	70	33	12	6.2
21	49	60	e46	e66	110	98	108	172	67	31	13	6.0
22	48	59	e48	e66	109	97	106	164	63	33	13	14
23	46	60	e49	e64	109	102	101	147	60	41	13	15
24	47	60	e52	e66	123	113	93	128	59	34	12	16
25	49	59	e56	e64	133	114	91	123	61	33	12	16
26	50	61	e56	e64	132	111	91	143	56	31	14	17
27	50	63	e56	e64	128	107	97	204	51	29	13	17
28	49	64	e58	e64	123	100	96	243	48	29	14	17
29	50	62	e60	e62	120	98	93	233	48	27	12	16
30	52	63	e58	e64	---	97	93	218	48	26	11	16
31	52	---	e60	e66	---	92	---	196	---	24	9.4	---
TOTAL	1431	1700	1812	1962	2759	3254	2764	3870	2568	1182	439.4	302.2
MEAN	46.2	56.7	58.5	63.3	95.1	105	92.1	125	85.6	38.1	14.2	10.1
MAX	52	64	68	70	133	114	126	243	186	68	24	17
MIN	39	50	44	52	70	92	78	74	48	24	9.4	5.5
AC-FT	2840	3370	3590	3890	5470	6450	5480	7680	5090	2340	872	599

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2000, BY WATER YEAR (WY)

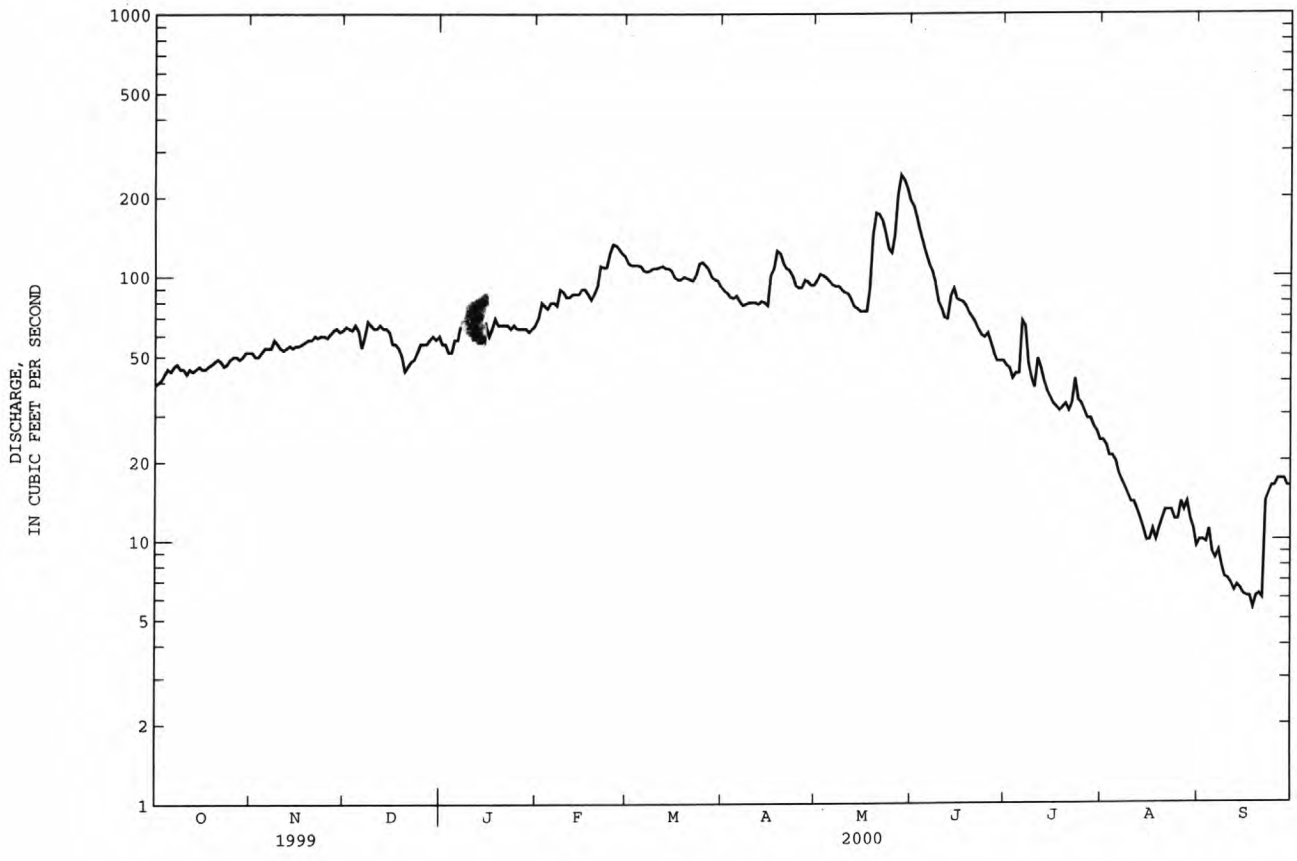
MEAN	90.2	95.0	81.6	71.4	143	356	493	414	321	167	77.2	78.1
MAX	671	443	250	226	1172	2144	2081	2243	2690	1993	444	882
(WY)	1952	1999	1952	1995	1952	1987	1987	1995	1962	1993	1993	1986
MIN	19.4	27.0	27.3	19.4	26.0	61.1	59.7	51.8	45.8	19.5	12.0	9.33
(WY)	1976	1977	1956	1977	1975	1981	1981	1981	1976	1976	1976	1975

PLATTE RIVER BASIN

06797500 ELKHORN RIVER AT EWING, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1947 - 2000	
ANNUAL TOTAL	106828		24043.6			
ANNUAL MEAN	293		65.7		199	
MEDIAN OF ANNUAL MEANS					140	
HIGHEST ANNUAL MEAN					543	1995
LOWEST ANNUAL MEAN					42.8	1981
HIGHEST DAILY MEAN	5930	May 7	243	May 28	8480	May 30 1995
LOWEST DAILY MEAN	33	Sep 2	5.5	Sep 18	5.2	Sep 6 1976
ANNUAL SEVEN-DAY MINIMUM	36	Aug 28	6.0	Sep 15	6.0	Sep 15 2000
INSTANTANEOUS PEAK FLOW			*254	May 28	9050	May 29 1995
INSTANTANEOUS PEAK STAGE			**4.99	Dec 21	11.09	May 29 1995
ANNUAL RUNOFF (AC-FT)	211900		47690		144100	
10 PERCENT EXCEEDS	678		110		421	
50 PERCENT EXCEEDS	159		62		79	
90 PERCENT EXCEEDS	44		13		31	

e Estimated.
* Stage 3.97 ft.
** Backwater from ice.



PLATTE RIVER BASIN

06799000 ELKHORN RIVER AT NORFOLK, NE

LOCATION.--Lat 42°00'14", long 97°25'31", in SW ¼ SW ¼ sec.34, T.24 N., R.1 W., Madison County, Hydrologic Unit 10220001, on left bank 200 ft downstream from U.S. Highway 81 bridge, 1 mi south of intersection of U.S. Highways 81 and 275, and 3.6 mi upstream from North Fork Elkhorn River, and at mile 129.

DRAINAGE AREA.--2,790 mi^2, approximately, of which about 1,790 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--July 1896 to November 1903 (no winter records), October 1945 to current year. Gage height records collected at site 200 ft upstream from May 10, 1941 to Sept. 26, 1945 are contained in reports of U.S. Weather Bureau. Published as "near Norfolk" from October 1957 to September 1977.

REVISED RECORDS.--WSP 1390: 1898-1900. WSP 1730: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,500.95 ft above sea level. See WSP 1918 for history of changes prior to Aug. 30, 1958. Aug. 30, 1958, to July 27, 1978, water-stage recorder at site 3.2 mi upstream at datum 19.88 ft higher and July 28, 1978 to Mar. 18, 1987, present site at datum 4.00 ft higher. Mar. 19, 1987, to Mar. 31, 1995, present site at datum 2.00 ft higher.Data collection platform at station.

REMARKS.--Records good except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	193	258	285	432	375	492	412	364	708	235	167	102
2	197	259	285	426	402	473	412	376	615	232	164	103
3	202	251	289	418	460	459	411	376	571	214	158	104
4	204	255	289	e330	430	446	390	371	537	204	157	107
5	216	267	291	e270	377	436	387	363	476	277	154	107
6	222	277	295	e330	404	427	385	354	436	2060	148	107
7	225	287	297	e400	425	424	383	349	401	1650	142	109
8	232	291	300	e450	437	427	369	352	370	831	135	105
9	245	297	299	471	458	436	365	350	333	485	130	105
10	250	304	302	443	467	436	358	358	307	351	125	103
11	235	307	304	319	403	425	357	360	289	724	122	101
12	235	309	304	363	e340	417	343	[illegible]46	279	1330	117	94
13	239	307	308	345	e300	414	343	[illegible]8	280	844	114	96
14	238	297	308	367	e290	412	332	[illegible]7	280	493	110	83
15	237	294	303	390	e310	398	324	321	286	372	108	72
16	244	299	313	379	e330	378	344	318	290	314	106	74
17	255	304	298	364	e350	370	410	316	285	279	107	75
18	242	306	265	403	e360	371	465	584	284	254	105	75
19	238	300	e260	420	e370	381	469	912	281	237	114	81
20	251	293	e240	398	380	385	468	583	287	223	130	87
21	260	293	e230	350	400	380	470	509	328	214	127	87
22	261	299	e240	332	400	388	454	490	261	210	131	106
23	264	299	e280	350	445	400	435	465	246	199	132	116
24	272	295	e330	364	556	449	417	435	366	205	129	126
25	264	294	e390	317	606	470	404	398	879	204	124	137
26	258	294	414	293	616	463	388	429	709	203	122	138
27	267	293	412	e300	576	443	380	585	376	196	116	139
28	270	296	410	e320	550	424	378	668	296	191	119	136
29	267	298	431	e330	526	412	374	648	265	179	125	131
30	272	285	438	e340	---	411	361	749	248	174	118	130
31	266	---	417	348	---	407	---	769	---	171	107	---
TOTAL	7521	8708	9827	11362	12343	13054	11788	14153	11569	13755	3963	3136
MEAN	243	290	317	367	426	421	393	457	386	444	128	105
MAX	272	309	438	471	616	492	470	912	879	2060	167	139
MIN	193	251	230	270	290	370	324	316	246	171	105	72
AC-FT	14920	17270	19490	22540	24480	25890	23380	28070	22950	27280	7860	6220

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2000, BY WATER YEAR (WY)

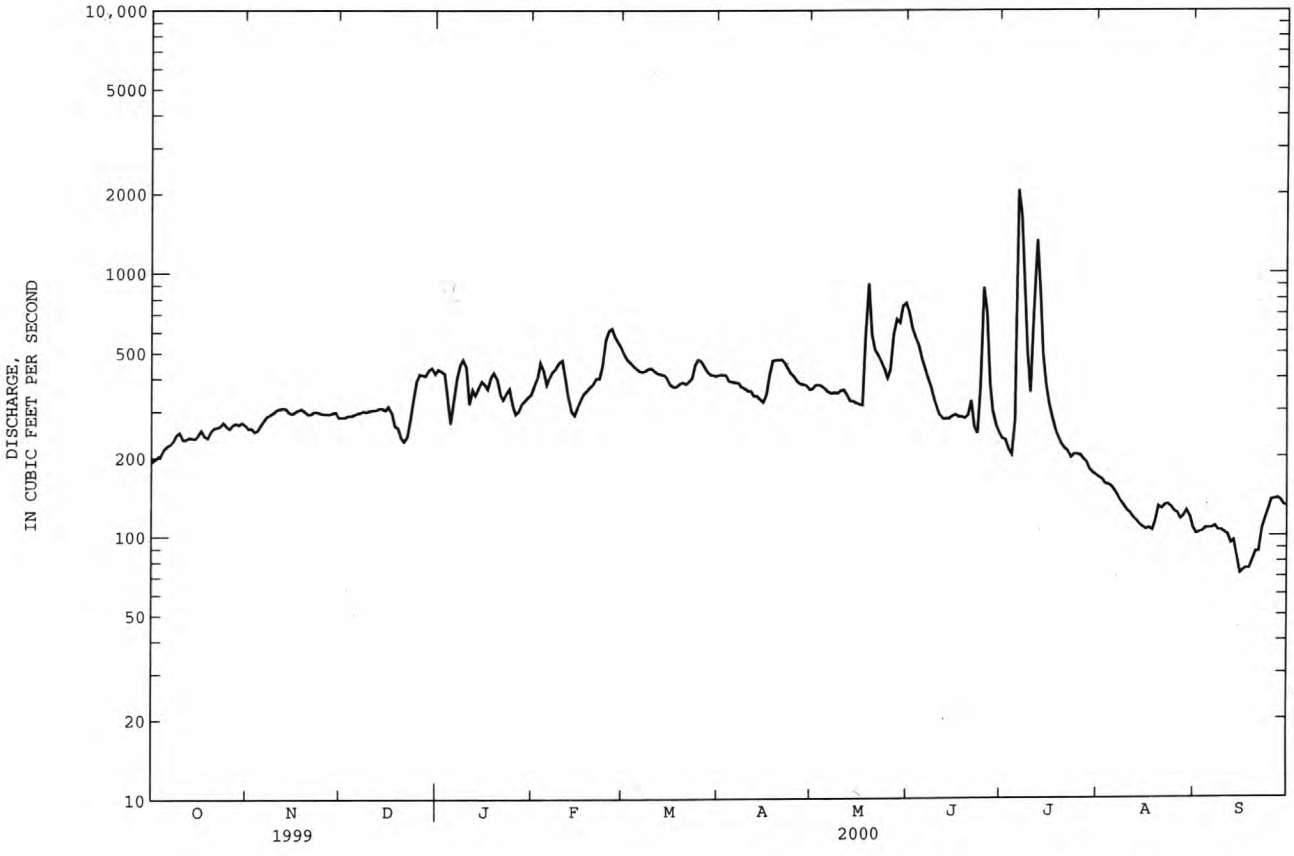
MEAN	323	338	305	292	496	891	1041	891	932	492	317	275
MAX	1418	985	609	624	1862	3819	3715	4615	4673	3663	1398	1444
(WY)	1952	1999	1996	1983	1952	1987	1984	1995	1962	1993	1951	1986
MIN	125	163	151	146	129	298	254	228	201	99.1	61.9	87.3
(WY)	1981	1979	1977	1977	1978	1981	1981	1981	1989	1980	1976	1956

PLATTE RIVER BASIN

06799000 ELKHORN RIVER AT NORFOLK, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1946 - 2000	
ANNUAL TOTAL	253062		121179			
ANNUAL MEAN	693		331		549	
MEDIAN OF ANNUAL MEANS					450	
HIGHEST ANNUAL MEAN					1355	1995
LOWEST ANNUAL MEAN					224	1981
HIGHEST DAILY MEAN	7530	May 8	2060	Jul 6	17500	May 31 1995
LOWEST DAILY MEAN	170	Sep 5	72	Sep 15	33	Aug 3 1980
ANNUAL SEVEN-DAY MINIMUM	178	Aug 30	78	Sep 14	40	Aug 24 1976
INSTANTANEOUS PEAK FLOW			3030	Jul 6	*16900	Jun 14 1967
INSTANTANEOUS PEAK STAGE			7.00	Jul 6	**15.63	Mar 11 1949
ANNUAL RUNOFF (AC-FT)	501900		240400		397500	
10 PERCENT EXCEEDS	1280		469		1070	
50 PERCENT EXCEEDS	480		308		317	
90 PERCENT EXCEEDS	206		122		164	

e Estimated.
* Stage 13.05 ft.
** Backwater from ice.



PLATTE RIVER BASIN

06799100 NORTH FORK ELKHORN RIVER NEAR PIERCE, NE

LOCATION--Lat 42°08'57", long 097°28'41", in NW ¼ sec.18, T.25 N., R.1 W., Pierce County, Hydrologic Unit 10220002, on right bank 4 ft downstream and 25 ft from end of bridge, 4.5 mi southeast of Pierce, and at mile 20.8.

DRAINAGE AREA .--701 mi^2, of which 671 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--August 1960 to current year.

REVISED RECORDS.--WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,542.88 ft above sea level (U.S. Weather Service levels). Aug. 19, 1960 to Oct. 7, 1997, water-stage recorder at site 2 mi upstream at datum 10.19 ft higher.

REMARKS.--Record good except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	41	51	59	56	113	81	72	e130	94	24	14
2	34	41	51	58	60	107	80	70	e120	85	23	14
3	35	40	52	58	63	103	80	68	e115	74	23	14
4	36	41	52	e32	56	101	77	63	e110	68	22	14
5	36	42	49	e40	e50	99	76	59	e120	62	23	13
6	36	42	44	e46	e56	96	74	56	e115	67	20	13
7	37	43	48	52	e54	95	70	55	e105	66	21	15
8	38	43	53	54	e60	96	68	54	e100	61	18	14
9	38	44	51	57	e58	104	70	56	e96	56	16	14
10	37	44	47	58	e54	111	69	54	e92	52	15	15
11	37	43	48	e45	e50	107	69	52	e90	73	15	15
12	37	42	50	e45	e52	100	69	48	e88	88	14	14
13	37	43	46	e43	e50	97	69	45	e84	64	14	14
14	38	42	52	e47	e50	96	69	43	e80	59	12	14
15	38	42	e40	e50	e56	92	66	42	e84	54	11	15
16	39	43	e34	e45	e54	88	76	43	e86	50	10	15
17	38	43	e37	e43	e54	87	112	43	e80	47	13	16
18	38	44	e40	e45	e52	88	132	182	e76	43	13	16
19	39	45	e40	e42	e58	90	114	518	e78	40	14	16
20	40	45	e32	e41	e64	91	98	293	e80	39	18	17
21	39	44	e35	e41	68	93	92	147	e74	38	20	18
22	40	45	e39	e43	79	93	88	136	e68	37	19	22
23	39	48	e44	e42	104	93	83	120	e64	36	18	22
24	39	49	e50	e43	174	113	78	111	e120	34	17	20
25	41	47	56	e42	209	126	74	102	e100	32	17	20
26	41	47	57	e40	172	115	73	117	204	33	19	20
27	40	51	57	e40	146	100	76	223	273	29	15	19
28	39	52	57	e42	130	91	78	267	169	26	15	19
29	41	51	59	e42	122	88	75	161	153	27	14	19
30	41	51	59	e45	---	86	72	251	113	27	14	19
31	41	---	59	e49	---	83	---	149	---	24	13	---
TOTAL	1183	1338	1489	1429	2311	3042	2408	3700	3267	1585	520	490
MEAN	38.2	44.6	48.0	46.1	79.7	98.1	80.3	119	109	51.1	16.8	16.3
MAX	41	52	59	59	209	126	132	518	273	94	24	22
MIN	34	40	32	32	50	83	66	42	64	24	10	13
AC-FT	2350	2650	2950	2830	4580	6030	4780	7340	6480	3140	1030	972

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2000, BY WATER YEAR (WY)

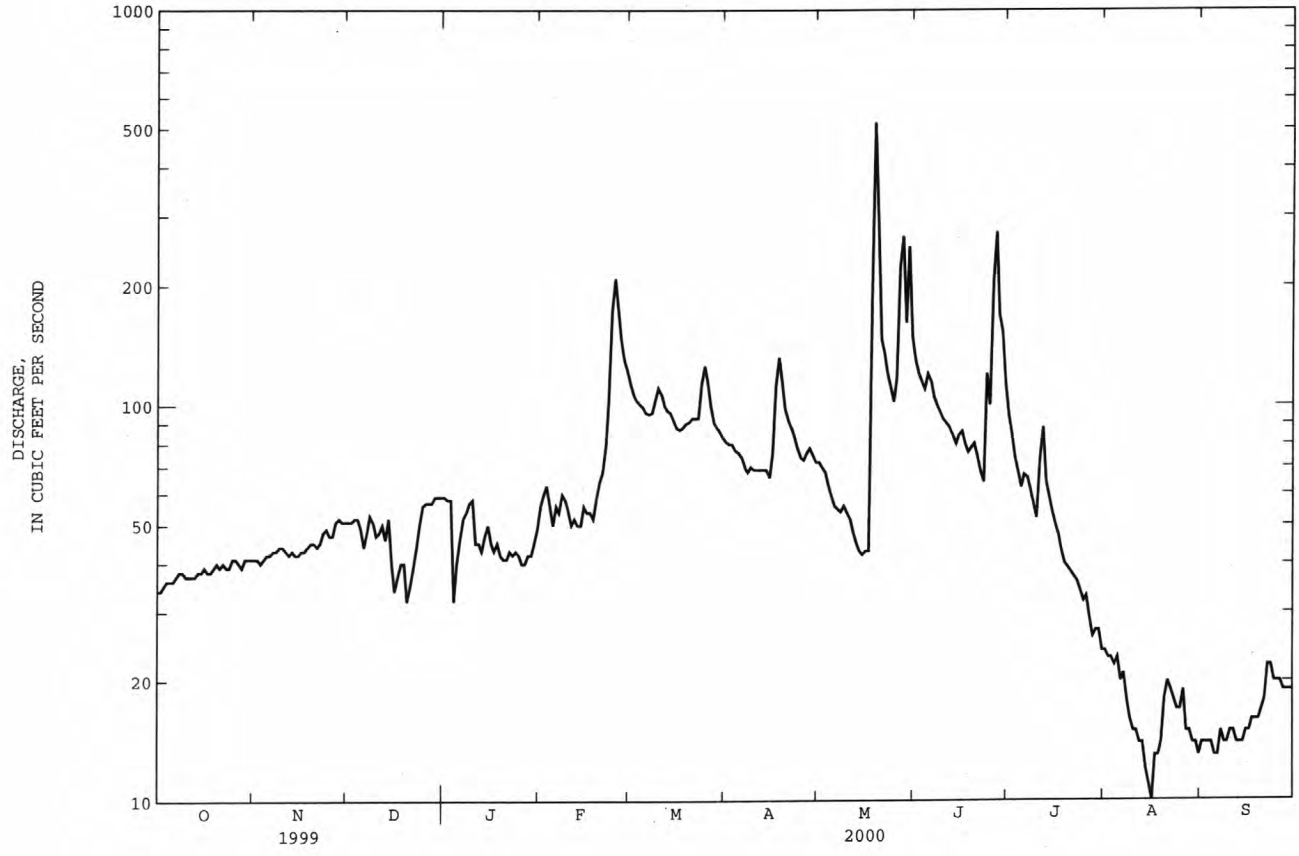
MEAN	54.4	61.0	52.4	48.7	118	205	193	162	189	100	55.7	47.4
MAX	241	233	141	111	834	1120	1004	663	799	834	226	191
(WY)	1996	1999	1996	1973	1971	1962	1984	1995	1967	1993	1996	1992
MIN	13.5	14.7	14.6	15.6	24.2	30.3	28.7	27.7	21.8	11.7	7.41	9.53
(WY)	1992	1992	1992	1992	1978	1990	1990	1981	1989	1989	1990	1990

PLATTE RIVER BASIN

06799100 NORTH FORK ELKHORN RIVER NEAR PIERCE, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1960 - 2000	
ANNUAL TOTAL	61602		22762			
ANNUAL MEAN	169		62.2		107	
MEDIAN OF ANNUAL MEANS					80	
HIGHEST ANNUAL MEAN					287	1993
LOWEST ANNUAL MEAN					21.5	1990
HIGHEST DAILY MEAN	1800	Jun 29	518	May 19	10400	Mar 28 1962
LOWEST DAILY MEAN	29	Sep 3	10	Aug 16	2.7	Jul 29 1989
ANNUAL SEVEN-DAY MINIMUM	29	Sep 8	12	Aug 12	3.7	Aug 15 1990
INSTANTANEOUS PEAK FLOW			617	May 19	15200	Feb 19 1971
INSTANTANEOUS PEAK STAGE			6.06	May 19	15.10	Feb 19 1971
ANNUAL RUNOFF (AC-FT)	122200		45150		77310	
10 PERCENT EXCEEDS	352		111		205	
50 PERCENT EXCEEDS	107		50		48	
90 PERCENT EXCEEDS	34		17		22	

e Estimated.



PLATTE RIVER BASIN

06799350 ELKHORN RIVER AT WEST POINT, NE

LOCATION.--Lat 41°50'22", long 096°43'38", in SW ¼ NW ¼ sec.34, T.22 N., R.6 E., Cuming County, Hydrologic Unit 10220003, on right bank near right downstream wingwall of bridge on State Highway 32, 1 mi west of West Point, and at mile 79.8.

DRAINAGE AREA.--5,100 mi^2, approximately, of which about 4,100 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--October 1972 to current year. March 1960 to September 1972 (no winter records 1960-68)in files of Corps of Engineers. Gage-height records collected since 1940 are in reports of U.S. Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 1,291.26 ft above sea level. Prior to May 18, 1976, at site on left bank 50 ft upstream from bridge at same datum. Data collection platform at station.

REMARKS.--Records good except for periods of estimated record, which are poor. Some small diversions above station for irrigation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	397	478	543	1040	e680	954	722	648	3290	524	418	214
2	410	457	545	958	e700	908	720	625	2170	433	402	210
3	425	458	561	e800	e680	876	716	627	1640	373	390	204
4	451	455	552	e400	e880	841	690	632	1380	376	374	205
5	458	451	548	e200	e700	827	683	599	1220	439	362	202
6	466	454	542	e230	e800	804	649	565	1100	4430	353	198
7	472	469	550	e300	e740	781	642	533	1020	8770	334	194
8	494	487	549	852	e700	821	639	543	917	3930	315	186
9	504	490	546	947	e660	821	621	528	e780	1730	295	182
10	499	484	550	954	e600	796	630	506	e660	971	298	171
11	500	488	576	845	e560	792	630	515	e540	733	267	165
12	496	497	572	822	e520	789	622	491	e460	3130	266	159
13	474	495	556	807	e520	756	604	431	378	2140	263	163
14	481	493	586	845	e500	740	608	407	334	1760	245	159
15	478	496	e500	e780	e500	732	577	393	386	1220	228	158
16	456	492	e450	e740	e520	700	718	366	383	934	209	156
17	449	491	e400	e760	e520	694	966	357	375	775	200	159
18	451	498	e430	e740	e540	726	1080	583	368	670	196	151
19	447	498	e400	e700	e560	755	1130	1790	357	634	205	160
20	451	495	e350	e600	e560	775	1010	1820	637	614	242	179
21	445	501	e340	e600	e600	759	992	1540	657	587	257	187
22	445	506	e330	e660	e700	752	956	982	637	555	255	215
23	447	568	e340	e700	867	774	890	824	449	575	267	250
24	464	583	e380	e700	1220	895	810	727	556	800	263	253
25	465	575	e450	e640	1470	977	752	649	2300	571	250	262
26	471	554	e500	e560	1530	981	734	691	4820	534	239	275
27	473	535	e700	e600	1330	910	791	1100	3900	514	239	267
28	465	536	e900	e640	1150	802	762	1560	2060	490	234	265
29	479	538	1040	e640	1050	752	694	2190	927	460	231	257
30	473	546	1060	e660	---	719	668	1740	643	438	241	234
31	478	---	1110	e600	---	708	---	2090	---	435	221	---
TOTAL	14364	15068	17456	21320	22357	24917	22706	27052	35344	40545	8559	6040
MEAN	463	502	563	688	771	804	757	873	1178	1308	276	201
MAX	504	583	1110	1040	1530	981	1130	2190	4820	8770	418	275
MIN	397	451	330	200	500	694	577	357	334	373	196	151
AC-FT	28490	29890	34620	42290	44350	49420	45040	53660	70100	80420	16980	11980

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2000, BY WATER YEAR (WY)

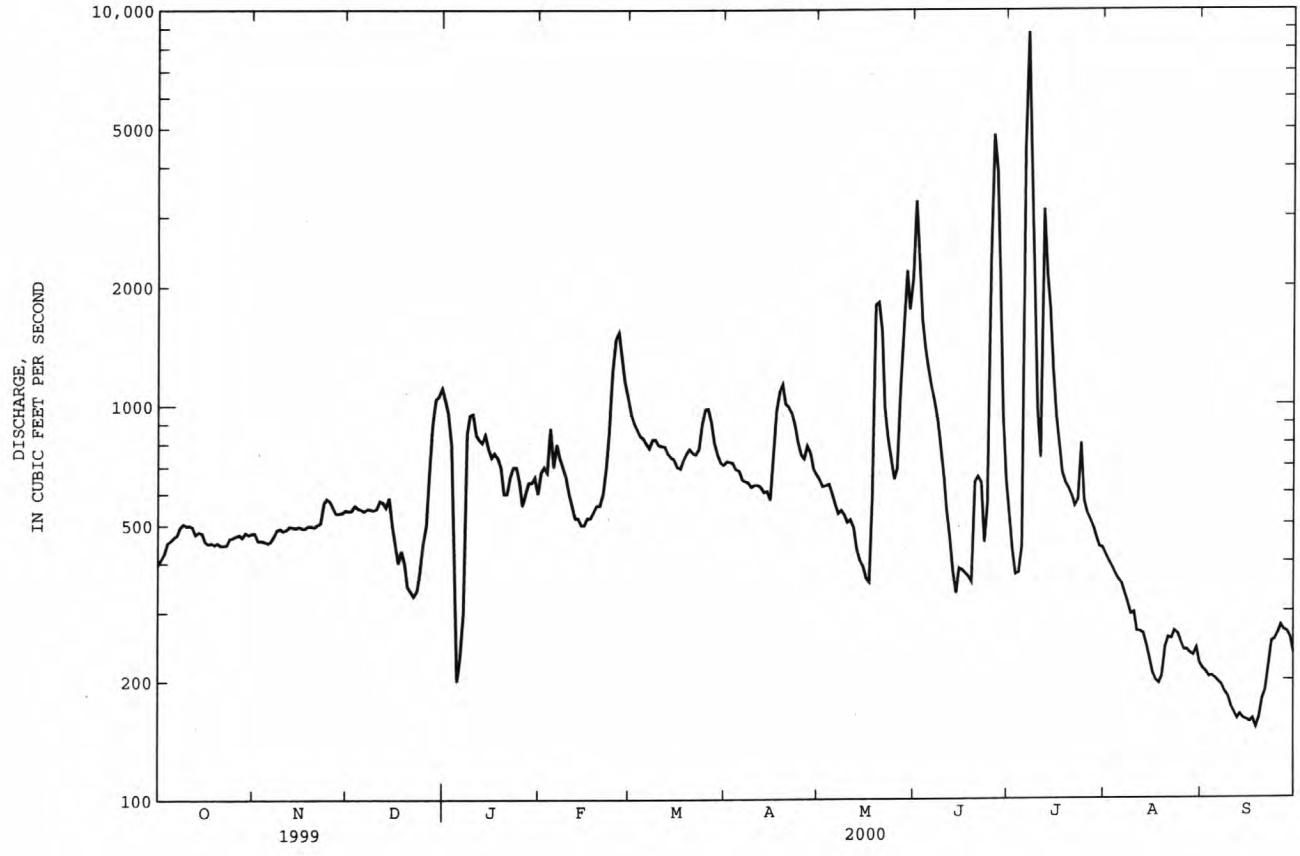
MEAN	563	640	589	550	1069	1831	1846	1629	1615	1041	622	487
MAX	1606	1802	1314	1106	2744	5256	6171	5618	3844	6945	1994	1646
(WY)	1987	1999	1994	1995	1983	1987	1984	1995	1995	1993	1993	1986
MIN	174	241	203	168	201	411	378	325	339	154	90.0	137
(WY)	1977	1979	1977	1977	1979	1981	1981	1981	1976	1976	1976	1976

PLATTE RIVER BASIN

06799350 ELKHORN RIVER AT WEST POINT, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1973 - 2000	
ANNUAL TOTAL	542259		255728			
ANNUAL MEAN	1486		699		1039	
MEDIAN OF ANNUAL MEANS					887	
HIGHEST ANNUAL MEAN					2253	1993
LOWEST ANNUAL MEAN					332	1981
HIGHEST DAILY MEAN	11600	Jun 5	8770	Jul 7	26000	Mar 9 1993
LOWEST DAILY MEAN	330	Dec 22	151	Sep 18	41	Aug 31 1976
ANNUAL SEVEN-DAY MINIMUM	362	Sep 19	158	Sep 12	45	Aug 27 1976
INSTANTANEOUS PEAK FLOW			10800	Jul 7	*33000	Jun 25 1969
INSTANTANEOUS PEAK STAGE			11.03	Jul 7	**18.60	Mar 9 1993
ANNUAL RUNOFF (AC-FT)	1076000		507200		752600	
10 PERCENT EXCEEDS	2800		1040		2100	
50 PERCENT EXCEEDS	1180		554		610	
90 PERCENT EXCEEDS	443		242		231	

e Estimated.
* Stage 13.21 ft.
** From floodmark, ice jam.



PLATTE RIVER BASIN

06799500 LOGAN CREEK NEAR UEHLING, NE

LOCATION.--Lat 41°42'46", long 096°31'18", in SE ¼ SE ¼ sec.9, T.20 N., R.8 E., Dodge County, Hydrologic Unit 10220004, near left bank on upstream side of bridge on county road, 2 mi southwest of Uehling and 8.8 mi upstream from mouth.

DRAINAGE AREA.--1,015 mi^2.

PERIOD OF RECORD.--March 1941 to current year.

REVISED RECORDS.--WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,208.73 ft above sea level. See WSP 1918 for history of changes prior to July 15, 1963. July 16, 1963 to Mar. 27. 1989, near right bank on downstream side of bridge at present site and datum. Mar. 28, 1989 to Mar. 22, 1990, 250 ft upstream on left bank at same datum. Data collection platform at station.

REMARKS.--Records good except for periods of estimated record, which are poor.

COOPERATION.--Records provided by Nebraska Department of Natural Resources and reviewed by the Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

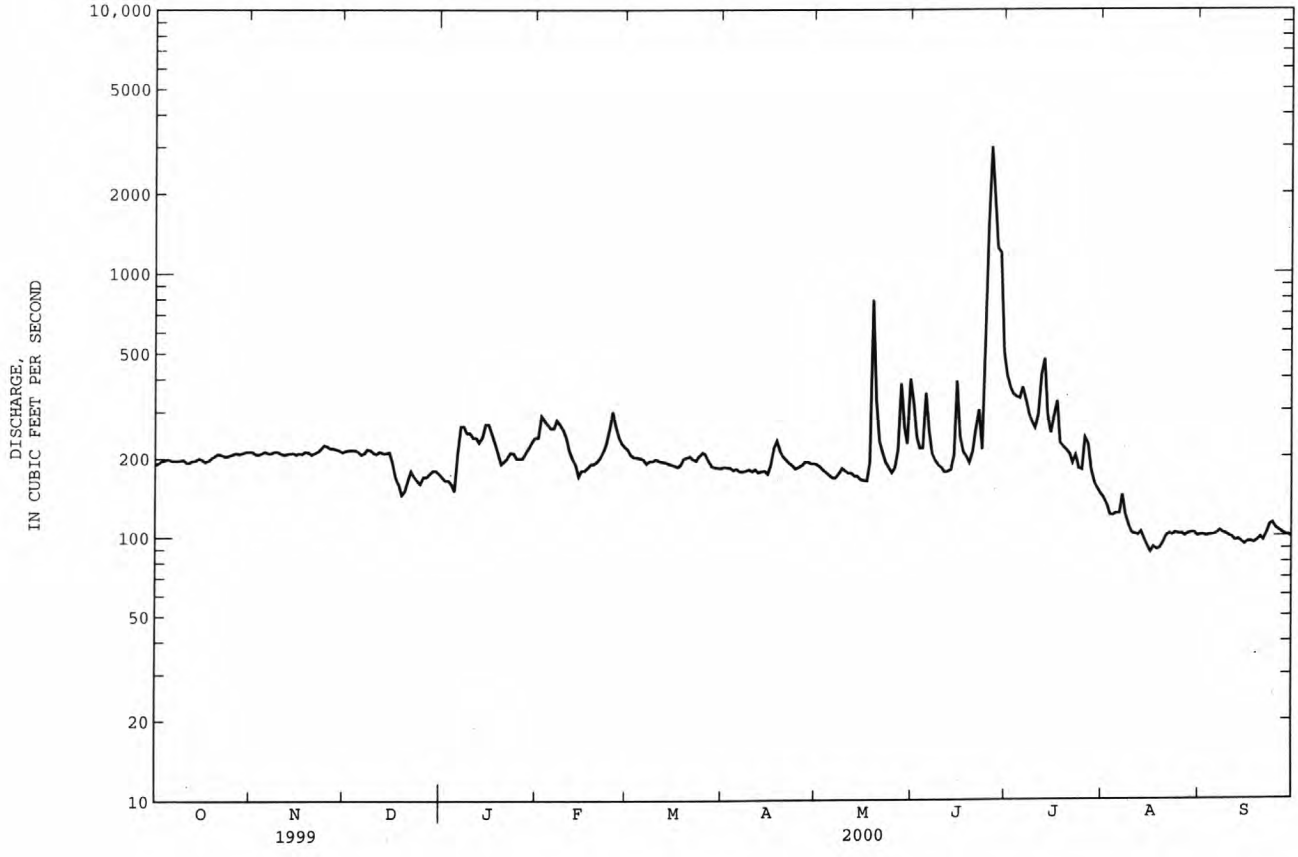
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	190	212	214	e170	e240	216	185	188	324	408	140	101
2	192	208	215	e165	e290	206	184	185	238	371	132	101
3	196	207	215	e165	e280	202	184	180	217	348	121	100
4	197	209	215	e160	e270	202	180	176	217	339	120	101
5	199	212	212	e150	e260	200	182	171	351	335	122	101
6	197	210	207	e210	e260	198	178	168	252	368	122	102
7	196	209	209	e265	e280	191	178	168	208	331	144	105
8	196	212	217	e265	e270	195	179	174	195	292	120	103
9	197	212	215	e250	e258	195	181	182	187	272	110	102
10	198	209	210	e250	e240	198	178	179	183	258	103	100
11	193	207	208	e240	e215	195	181	e175	176	289	102	99
12	193	208	212	e240	e200	194	176	e175	177	411	101	96
13	196	209	209	e230	e190	193	178	e170	179	472	104	97
14	197	210	210	e240	e170	191	179	e170	204	290	97	95
15	200	207	211	e270	e180	189	174	e165	389	247	92	93
16	198	209	194	e270	e180	187	188	164	239	286	87	95
17	194	208	e170	e250	e185	185	217	163	209	326	91	95
18	196	212	e160	e230	e190	188	232	193	201	226	89	94
19	201	211	e145	e210	e190	199	213	790	191	219	90	96
20	204	207	e150	e190	194	201	203	332	210	213	94	99
21	208	210	e165	e195	201	203	197	231	258	205	100	96
22	207	212	e180	e200	213	198	191	210	303	189	102	102
23	204	218	e170	e210	228	195	187	192	214	203	101	110
24	204	225	e165	e210	258	204	182	184	434	181	103	112
25	206	223	e160	e200	301	210	184	175	1510	179	e102	107
26	208	219	e170	e200	264	207	187	182	2990	238	e102	105
27	210	219	e170	e200	242	195	193	214	1900	225	e100	103
28	208	217	e175	e210	228	186	193	382	1240	178	e102	101
29	210	214	e180	e220	221	184	190	262	1190	160	103	101
30	212	211	e180	e230	---	184	190	225	500	152	103	99
31	212	---	e175	e240	---	183	---	398	---	145	100	---
TOTAL	6219	6356	5888	6735	6698	6074	5644	6923	15086	8356	3299	3011
MEAN	201	212	190	217	231	196	188	223	503	270	106	100
MAX	212	225	217	270	301	216	232	790	2990	472	144	112
MIN	190	207	145	150	170	183	174	163	176	145	87	93
AC-FT	12340	12610	11680	13360	13290	12050	11190	13730	29920	16570	6540	5970
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2000, BY WATER YEAR (WY)												
MEAN	122	115	99.2	109	267	408	288	317	504	261	168	128
MAX	499	453	337	583	2177	2388	1742	1417	2766	1843	1056	613
(WY)	1993	1999	1994	1973	1971	1962	1984	1984	1984	1993	1951	1993
MIN	32.8	38.2	31.9	34.1	38.1	57.4	42.8	39.9	56.6	17.3	15.0	31.6
(WY)	1944	1949	1944	1957	1979	1943	1957	1943	1976	1976	1976	1943

PLATTE RIVER BASIN

06799500 LOGAN CREEK NEAR UEHLING, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1942 - 2000	
ANNUAL TOTAL	169199		80289			
ANNUAL MEAN	464		219		232	
MEDIAN OF ANNUAL MEANS					190	
HIGHEST ANNUAL MEAN					710	1984
LOWEST ANNUAL MEAN					66.4	1943
HIGHEST DAILY MEAN	5280	Aug 7	2990	Jun 26	20100	Feb 20 1971
LOWEST DAILY MEAN	145	Dec 19	87	Aug 16	6.1	Jul 26 1976
ANNUAL SEVEN-DAY MINIMUM	162	Dec 18	91	Aug 14	8.8	Jul 12 1976
INSTANTANEOUS PEAK FLOW			4170	Jun 26	*25200	Feb 20 1971
INSTANTANEOUS PEAK STAGE			13.00	Jun 26	20.86	Feb 20 1997
ANNUAL RUNOFF (AC-FT)	335600		159300		167800	
10 PERCENT EXCEEDS	843		270		416	
50 PERCENT EXCEEDS	330		197		100	
90 PERCENT EXCEEDS	199		102		45	

e Estimated.
* Stage 20.15 ft, from floodmark.



PLATTE RIVER BASIN

06800000 MAPLE CREEK NEAR NICKERSON, NE
(National Water-Quality Assessment, NAWQA, station)

LOCATION.--Lat 41°33'39", long 096°32'27", in SW ¼ NW ¼ sec.4, T.18 N., R.8 E., Dodge County, Hydrologic Unit 10220003, on right bank 8 ft downstream from county road bridge 2 mi upstream from U.S. Highways 77 and 275, 5 mi northwest of Nickerson, and 4 mi upstream from mouth.

DRAINAGE AREA.--369 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1951 to current year.

REVISED RECORDS.--WSP 1630: 1957-58. WDR NE-98: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,211.62 ft above sea level. Prior to July 28, 1960, nonrecording gage at highway bridge, July 28, 1960 to July 28, 1987, water-stage recorder 180 ft upstream from highway bridge and July 29, 1987 to July 23, 1991 water-stage recorder 30 ft downstream from highway bridge. All at/near U.S. Highway 77 bridge, 2 mi downstream from present gage, at datum 17.06 ft lower.

REMARKS.--Records good except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

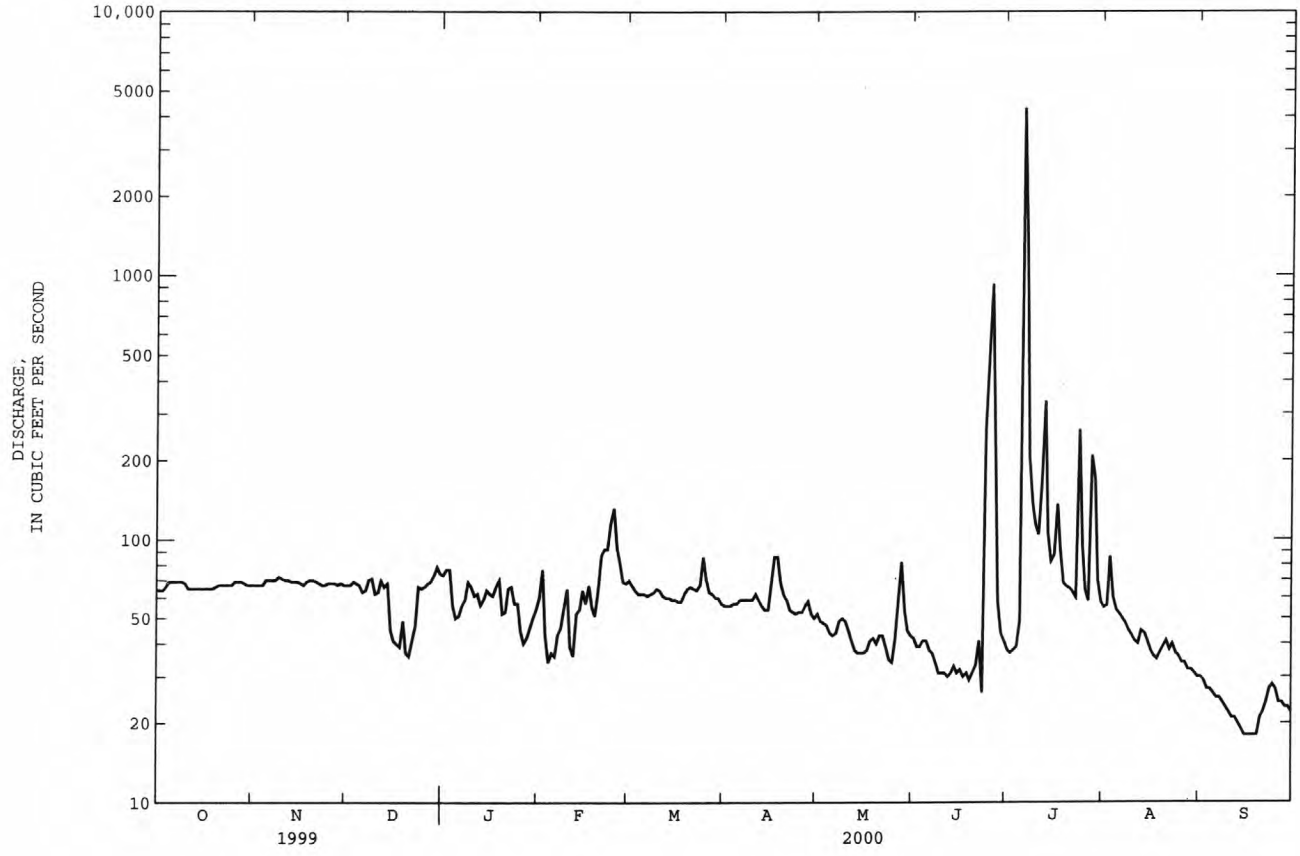
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	67	67	73	e60	70	56	52	42	38	55	30
2	64	67	67	77	77	67	56	49	39	37	56	29
3	64	67	69	77	43	64	56	48	39	38	86	27
4	66	67	68	e56	34	62	57	47	41	39	60	27
5	69	70	67	e50	37	62	57	44	41	49	54	26
6	69	70	63	e51	36	62	59	43	38	4300	52	25
7	69	70	64	e56	43	61	59	44	37	1300	50	25
8	69	70	70	e59	46	62	59	49	34	205	48	24
9	69	72	71	69	55	63	59	50	31	137	45	23
10	68	71	62	66	65	65	59	49	31	114	43	22
11	65	70	63	61	39	64	62	45	31	104	41	21
12	65	70	70	62	36	61	59	41	30	168	40	21
13	65	69	66	56	52	60	56	38	31	334	45	20
14	65	69	68	59	54	60	54	37	33	106	44	19
15	65	69	e45	64	64	59	54	37	31	82	41	18
16	65	68	e41	62	57	59	67	37	32	87	38	18
17	65	67	e40	61	67	58	86	38	30	136	36	18
18	65	69	e39	66	55	58	86	41	31	91	35	18
19	65	70	e49	70	51	62	68	42	29	68	37	18
20	66	70	e37	52	64	65	62	40	31	66	39	21
21	67	69	e36	53	87	66	59	43	33	65	41	22
22	67	68	e41	65	92	65	54	43	41	63	38	24
23	67	e67	e47	66	92	64	53	39	26	60	40	27
24	67	e67	66	57	116	67	52	35	263	261	37	28
25	67	e68	65	57	132	86	53	34	471	95	36	27
26	69	e68	66	e45	93	71	53	41	923	64	34	24
27	69	e68	68	e40	82	63	56	57	199	58	34	24
28	69	e67	69	e42	69	62	58	82	58	208	32	23
29	68	68	73	e46	68	60	52	54	44	170	32	23
30	67	67	79	e50	---	60	50	45	41	70	31	22
31	67	---	74	e54	---	57	---	43	---	58	30	---
TOTAL	2066	2059	1870	1822	1866	1965	1771	1387	2781	8671	1330	694
MEAN	66.6	68.6	60.3	58.8	64.3	63.4	59.0	44.7	92.7	280	42.9	23.1
MAX	69	72	79	77	132	86	86	82	923	4300	86	30
MIN	64	67	36	40	34	57	50	34	26	37	30	18
AC-FT	4100	4080	3710	3610	3700	3900	3510	2750	5520	17200	2640	1380
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2000, BY WATER YEAR (WY)												
MEAN	37.5	29.4	23.4	23.9	71.8	133	94.9	117	221	103	70.2	46.7
MAX	323	158	102	82.8	446	674	590	642	1252	1023	762	383
(WY)	1983	1999	1999	1999	1971	1962	1984	1984	1960	1993	1996	1965
MIN	.38	.66	.50	.42	.55	1.36	1.01	.72	3.00	1.19	.59	.26
(WY)	1982	1982	1981	1982	1979	1957	1981	1981	1956	1976	1976	1981

PLATTE RIVER BASIN

06800000 MAPLE CREEK NEAR NICKERSON, NE--Continued
(National Water-Quality Assessment, NAWQA, station)

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1952 - 2000	
ANNUAL TOTAL	66655		28282			
ANNUAL MEAN	183		77.3		80.9	
MEDIAN OF ANNUAL MEANS					66	
HIGHEST ANNUAL MEAN					264	1984
LOWEST ANNUAL MEAN					5.19	1956
HIGHEST DAILY MEAN	4020	Aug 7	4300	Jul 6	10400	Aug 6 1996
LOWEST DAILY MEAN	36	Dec 21	18	Sep 15	.10	Jan 15 1956
ANNUAL SEVEN-DAY MINIMUM	40	Dec 16	18	Sep 13	.19	Sep 17 1981
INSTANTANEOUS PEAK FLOW			7930	Jul 6	*13700	Aug 6 1996
INSTANTANEOUS PEAK STAGE			15.11	Jul 6	**17.65	Jun 17 1984
ANNUAL RUNOFF (AC-FT)	132200		56100		58620	
10 PERCENT EXCEEDS	296		77		131	
50 PERCENT EXCEEDS	109		59		23	
90 PERCENT EXCEEDS	67		31		1.4	

e Estimated.
* Stage 17.33 ft.
** Site and datum then in use.



PLATTE RIVER BASIN

06800000 MAPLE CREEK NEAR NICKERSON, NE--Continued
(National Water-Quality Assessment, NAWQA, station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1993-95, 1996 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
OCT												
13...	1130	65	.64	82.1	468	459	10.8	105	8.1	754	9.6	12.0
NOV												
17...	1130	67	.61	80.7	446	477	8.0	69	8.4	760	14.0	6.5
DEC												
14...	1100	67	.62	82.1	454	510	13.3	99	7.9	804	2.5	1.0
JAN												
20...	1100	44	.70	61.4	517	489	13.0	94	7.4	921	-3.0	.0
FEB												
15...	1100	62	.69	84.9	507	464	12.8	99	7.9	748	8.5	2.0
MAR												
23...	1015	64	.63	80.4	465	465	8.2	75	8.2	749	11.0	9.0
APR												
25...	1100	54	.52	55.7	382	373	8.6	85	8.1	571	13.5	13.0
MAY												
09...	1030	51	.60	60.3	438	425	9.9	102	8.3	679	14.5	14.5
23...	1045	40	--	--	--	--	10.2	116	8.2	647	22.0	19.0
JUN												
08...	1100	36	.47	33.9	349	335	9.4	117	8.3	575	28.0	23.5
22...	1045	42	--	--	--	--	9.3	120	8.0	664	26.5	25.5
JUL												
05...	1030	41	.50	41.0	370	351	8.9	114	8.3	595	26.0	25.0
18...	1000	88	--	--	--	--	10.1	121	8.0	344	19.0	22.0
AUG												
03...	1130	100	.50	98.8	366	347	8.0	96	8.1	599	24.9	22.5
16...	1400	37	--	--	--	--	13.0	176	8.5	518	34.0	28.5
SEP												
08...	1100	26	--	--	331	--	9.7	108	7.6	545	23.5	18.5
20...	1130	21	--	--	--	--	10.3	106	7.6	592	15.5	14.5

DATE	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
OCT												
13...	9	330	87.7	27.4	7.5	.7	28.2	15	323	394	0	8.8
NOV												
17...	41	370	101	28.9	6.8	.7	30.5	15	330	373	14	8.3
DEC												
14...	5	370	102	28.8	6.5	.7	30.2	15	367	379	34	9.7
JAN												
20...	22	360	99.9	27.4	6.6	.7	28.5	14	340	415	0	8.8
FEB												
15...	36	360	98.5	26.6	6.3	.6	28.0	14	320	390	0	7.8
MAR												
23...	12	350	94.3	27.4	6.8	.7	29.8	15	336	410	0	8.7
APR												
25...	--	260	63.9	25.3	7.1	.8	30.2	19	271	305	12	9.0
MAY												
09...	--	310	81.5	25.8	7.1	.7	28.2	16	316	351	17	8.1
23...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
08...	1	240	54.9	24.4	8.0	.8	28.9	20	236	268	10	8.4
22...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
05...	--	230	58.9	21.3	10.5	.8	26.8	19	248	278	12	9.1
18...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
03...	1	250	66.3	19.9	10.6	.6	23.0	16	246	300	0	8.3
16...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
08...	--	220	52.8	22.3	7.6	.8	26.0	20	--	--	--	8.7
20...	--	--	--	--	--	--	--	--	--	--	--	--

PLATTE RIVER BASIN

06800000 MAPLE CREEK NEAR NICKERSON, NE--Continued
(National Water-Quality Assessment, NAWQA, station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3) (71851)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2) (71856)
OCT												
13...	.4	20.8	54.2	.020	.30	.32	.03	6.9	6.62	29.3	6.65	.095
NOV												
17...	.4	18.6	55.6	<.020	.28	.58	--	6.9	6.60	29.2	6.63	.082
DEC												
14...	.3	21.8	57.2	.121	.43	.70	.16	7.8	7.38	32.7	7.41	.085
JAN												
20...	.4	23.1	54.2	.111	.36	.53	.14	8.3	7.87	34.9	7.90	.082
FEB												
15...	.3	20.6	52.8	.110	.39	.52	.14	7.4	6.95	30.8	6.98	.095
MAR												
23...	.4	18.4	53.0	<.020	.35	.58	--	5.9	5.53	24.5	5.55	.056
APR												
25...	.3	11.1	49.2	<.020	.43	.60	--	3.7	3.27	14.5	3.30	.095
MAY												
09...	.4	20.4	48.7	.033	.37	.63	.04	3.7	3.26	14.4	3.33	.200
23...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
08...	.3	8.8	51.8	<.020	.34	.75	--	2.1	1.70	7.53	1.74	.115
22...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
05...	.4	11.7	50.5	.028	.38	1.0	.04	3.2	2.74	12.2	2.77	.092
18...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
03...	.4	14.1	40.4	<.020	.48	3.0	--	4.1	3.60	15.9	3.63	.105
16...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
08...	.3	14.1	49.0	<.020	.27	.77	--	2.6	2.33	10.3	2.37	.112
20...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	2,6-DIETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)
OCT												
13...	.029	.28	.30	7.0	.435	.159	.142	.207	<10	39	<.003	<.002
NOV												
17...	.025	--	--	7.2	.328	.125	.107	.165	<10	58	<.003	<.002
DEC												
14...	.026	.31	.58	8.1	.534	.180	.174	.255	<10	193	<.003	E.002
JAN												
20...	.025	.25	.42	8.4	.616	.200	.201	--	E10	175	<.003	<.002
FEB												
15...	.029	.28	.41	7.5	.521	.189	.170	.234	<10	109	<.003	<.002
MAR												
23...	.017	--	--	6.1	.463	.179	.151	.225	<10	46	<.003	<.002
APR												
25...	.029	--	--	3.9	.316	.125	.103	.162	<10	40	<.003	.043
MAY												
09...	.061	.34	.60	4.0	.604	.222	.197	.288	<10	51	<.003	.270
23...	--	--	--	--	--	--	--	--	--	--	<.003	.232
JUN												
08...	.035	--	--	2.5	.251	.115	.082	.185	<10	39	<.003	.064
22...	--	--	--	--	--	--	--	--	--	--	<.003	.014
JUL												
05...	.028	.35	.97	3.8	.377	.143	.123	.292	<10	46	<.003	.043
18...	--	--	--	--	--	--	--	--	--	--	<.003	.136
AUG												
03...	.032	--	--	6.6	.601	.234	.196	1.08	<10	3	<.003	.028
16...	--	--	--	--	--	--	--	--	--	--	<.003	.008
SEP												
08...	.034	--	--	3.1	.169	.073	.055	.150	<10	83	<.003	E.004
20...	--	--	--	--	--	--	--	--	--	--	<.003	E.003

PLATTE RIVER BASIN

06800000 MAPLE CREEK NEAR NICKERSON, NE--Continued
(National Water-Quality Assessment, NAWQA, station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON, DISSOLVED (UG/L) (39572)
OCT												
13...	<.002	<.002	.063	<.002	<.002	<.003	<.003	<.004	.022	<.002	E.026	<.002
NOV												
17...	<.002	<.002	.047	<.002	<.002	E.005	<.003	<.004	.011	<.002	E.018	<.002
DEC												
14...	<.002	<.002	.044	<.002	<.002	<.003	<.003	<.004	.011	<.002	E.016	<.002
JAN												
20...	<.002	<.002	.041	<.002	<.002	<.003	<.003	<.004	.013	<.002	E.021	<.002
FEB												
15...	<.002	<.002	.032	<.002	<.002	E.005	<.003	<.004	.013	<.002	E.019	<.002
MAR												
23...	<.002	<.002	.028	<.002	<.002	E.012	<.003	<.004	<.010	<.002	E.016	<.002
APR												
25...	.006	<.002	.114	<.002	<.002	<.003	<.003	<.004	.013	<.002	E.028	<.002
MAY												
09...	.010	<.002	.238	<.002	<.002	<.003	<.003	.004	.021	<.002	E.042	<.002
23...	.006	<.002	.866	<.002	<.002	<.003	<.003	<.004	.013	<.002	E.073	.005
JUN												
08...	<.002	<.002	.532	<.002	<.002	<.003	<.003	<.004	.014	<.002	E.074	<.002
22...	.007	<.002	.186	<.002	<.002	<.003	<.003	<.004	.014	<.002	E.043	<.002
JUL												
05...	.005	<.002	.591	<.002	<.002	<.003	<.003	<.004	.041	E.002	E.093	<.002
18...	.007	<.002	.462	<.002	<.002	<.003	<.040	<.004	.026	<.002	E.11	E.002
AUG												
03...	<.002	<.002	.154	<.002	<.002	<.003	<.003	<.004	.010	<.002	E.067	<.002
16...	<.002	<.002	.085	<.002	<.002	<.003	<.003	<.004	.011	<.002	E.037	<.002
SEP												
08...	<.002	<.002	.057	<.002	<.002	<.003	<.003	<.004	.008	<.002	E.035	<.002
20...	<.002	<.002	.046	<.002	<.002	<.003	<.003	<.004	.007	<.002	E.038	E.002

DATE	DIELDRIN DISSOLVED (UG/L) (39381)	DISULFOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHALFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHOPROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARATHION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METOLACHLOR WATER DISSOLV (UG/L) (39415)
OCT												
13...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.018
NOV												
17...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.010
DEC												
14...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.010
JAN												
20...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.010
FEB												
15...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.010
MAR												
23...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.008
APR												
25...	<.001	<.017	<.004	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.100
MAY												
09...	<.001	<.017	.007	<.004	<.003	<.003	E.002	<.002	<.005	<.001	<.006	.160
23...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.141
JUN												
08...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.093
22...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.010	<.010	<.006	.043
JUL												
05...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.156
18...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.428
AUG												
03...	<.001	<.017	<.002	<.004	<.003	<.003	<.009	<.002	<.005	<.001	<.006	.108
16...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.029
SEP												
08...	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	E.004	<.001	<.006	.020
20...	<.005	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.017

PLATTE RIVER BASIN

06800000 MAPLE CREEK NEAR NICKERSON, NE--Continued
(National Water-Quality Assessment, NAWQA, station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)
OCT												
13...	<.004	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007
NOV												
17...	<.004	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.003	<.003	<.007
DEC												
14...	<.004	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.003	<.003	<.007
JAN												
20...	<.004	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.003	<.003	<.007
FEB												
15...	<.004	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007
MAR												
23...	<.004	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007
APR												
25...	<.004	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.009	<.003	<.007
MAY												
09...	<.004	<.004	<.003	<.006	<.004	<.004	.007	<.005	<.002	E.004	<.003	<.007
23...	<.004	<.004	<.003	<.006	<.004	<.004	.008	<.005	<.002	.061	<.003	<.007
JUN												
08...	<.004	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.012	<.003	<.007
22...	<.004	<.004	<.003	E.002	<.004	<.004	<.005	<.005	<.002	.119	<.003	<.007
JUL												
05...	.006	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.006	<.003	<.007
18...	.014	<.004	<.003	<.020	<.004	<.004	<.004	<.005	<.002	E.017	<.003	<.007
AUG												
03...	.006	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.009	<.003	<.007
16...	<.004	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.008	<.003	<.007
SEP												
08...	<.004	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.007	<.003	<.007
20...	<.004	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.005	<.003	<.007

DATE	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT												
13...	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002	54	173	30
NOV												
17...	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002	57	127	23
DEC												
14...	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002	60	157	28
JAN												
20...	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002	63	125	15
FEB												
15...	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002	70	172	29
MAR												
23...	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002	67	127	22
APR												
25...	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	.005	50	80	12
MAY												
09...	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	E.001	--	--	--
23...	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	E.002	--	--	--
JUN												
08...	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002	45	29	2.8
22...	<.004	<.013	.007	<.010	<.007	<.013	<.002	<.001	E.004	--	--	--
JUL												
05...	<.004	<.013	E.002	<.010	<.007	<.013	<.002	<.001	<.002	67	95	11
18...	<.004	<.013	.008	<.010	<.007	<.013	<.002	<.001	E.004	--	--	--
AUG												
03...	<.004	<.013	<.005	E.003	<.007	<.013	<.002	<.001	<.002	90	761	205
16...	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002	--	--	--
SEP												
08...	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	E.003	63	42	2.9
20...	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002	--	--	--

PLATTE RIVER BASIN

06800500 ELKHORN RIVER AT WATERLOO, NE

LOCATION.--Lat 41°17'37", long 096°17'00", in SW ¼ sec.3, T.15 N., R.10 E., Douglas County, Hydrologic Unit 10220003, on right bank at Nebraska Highway 64 bridge at north edge of Waterloo, 3.5 mi downstream from Rawhide Creek, and at mile 13.8.

DRAINAGE AREA.--6,900 mi^2, approximately, of which about 5,870 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--April 1899 to November 1903, May 1911 to September 1915, August 1928 to current year. Published as "at Arlington" 1899-1903, July 1913 to September 1915. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1390: 1914 (M), 1915, 1936, 1943(M). WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,104.73 ft above sea level. Oct. 1, 1960, to July 27, 1978, at datum 2.00 ft higher. See WSP 1918 for history of changes prior to Oct. 1, 1960. July 28, 1978 to Nov. 17, 1993, at site 800 ft downstream at present datum. Data collection platform at station.

REMARKS.--Records fair except for periods of estimated record, which are poor. Some small diversions above station for irrigation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	893	1100	1180	e1700	e1060	1760	1270	1260	1950	1420	949	527
2	892	1040	1190	e1600	e1200	1590	1250	1220	2410	1300	930	505
3	890	1040	1220	e1400	1280	1480	1240	e1250	1990	1220	914	498
4	901	1070	1260	e1100	1340	1450	1230	1140	1680	1230	906	490
5	933	1060	1250	e1140	1360	1420	1220	1120	1490	1550	858	473
6	961	1060	1220	e1160	1330	1400	1230	1100	1560	4260	834	454
7	975	1060	1200	e1100	1350	1380	1230	1080	1440	11000	807	450
8	973	1080	1200	e1300	1360	1390	1210	1080	1360	9380	804	450
9	984	1100	1210	e1400	1450	1370	1200	1100	1270	6400	765	446
10	990	1120	1200	e1200	1570	1370	1210	1100	1180	4940	726	435
11	989	1110	1180	e1250	1500	1360	1220	1100	1190	4410	697	428
12	986	1100	1190	e1350	1320	1330	1210	1050	1110	4540	686	417
13	988	1110	1210	e1300	1290	1320	1200	1010	1090	9270	672	401
14	984	1120	1190	e1400	1310	1320	1220	969	1050	6400	694	395
15	984	1120	1220	e1500	1380	1320	1230	946	1140	5120	656	388
16	993	1120	1200	e1400	1400	1290	1280	951	1280	4540	615	376
17	984	1130	1090	e1500	1430	1280	1370	969	1140	3760	582	377
18	974	1150	e1000	e1400	1410	1270	1540	1140	1040	2420	565	374
19	985	1160	e800	e1200	1320	1310	1680	1240	1020	e1700	560	371
20	964	1160	e900	e1000	1340	1340	1690	2560	947	1290	560	382
21	929	1160	e1200	e1040	1490	1350	1670	2000	954	1240	562	393
22	905	1170	e1260	e1140	1670	1350	1580	1660	1170	1170	587	410
23	866	1220	e1200	e1100	1640	1340	1480	1470	1230	1140	613	421
24	832	1250	e1150	e1140	1680	1360	1450	1300	1560	1140	621	438
25	814	1240	e1500	e1000	1880	1400	1420	1190	3010	1320	602	454
26	835	1230	e1400	e920	2060	1440	1410	1120	10500	1150	595	450
27	842	1220	e1500	e1020	1980	1430	1410	1180	6430	1110	577	449
28	860	1210	e1700	e1000	1820	1390	1430	1330	4110	1260	558	454
29	894	1190	e2000	e960	1670	1340	1460	1880	3320	1270	546	445
30	1200	1180	e1800	e1020	---	1310	1460	1950	2100	1100	541	429
31	1160	---	e1600	e1100	---	1290	---	1920	---	990	538	---
TOTAL	29360	34080	39420	37840	42890	42750	40700	40385	61721	99040	21120	12980
MEAN	947	1136	1272	1221	1479	1379	1357	1303	2057	3195	681	433
MAX	1200	1250	2000	1700	2060	1760	1690	2560	10500	11000	949	527
MIN	814	1040	800	920	1060	1270	1200	946	947	990	538	371
AC-FT	58240	67600	78190	75060	85070	84790	80730	80100	122400	196400	41890	25750

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2000, BY WATER YEAR (WY)

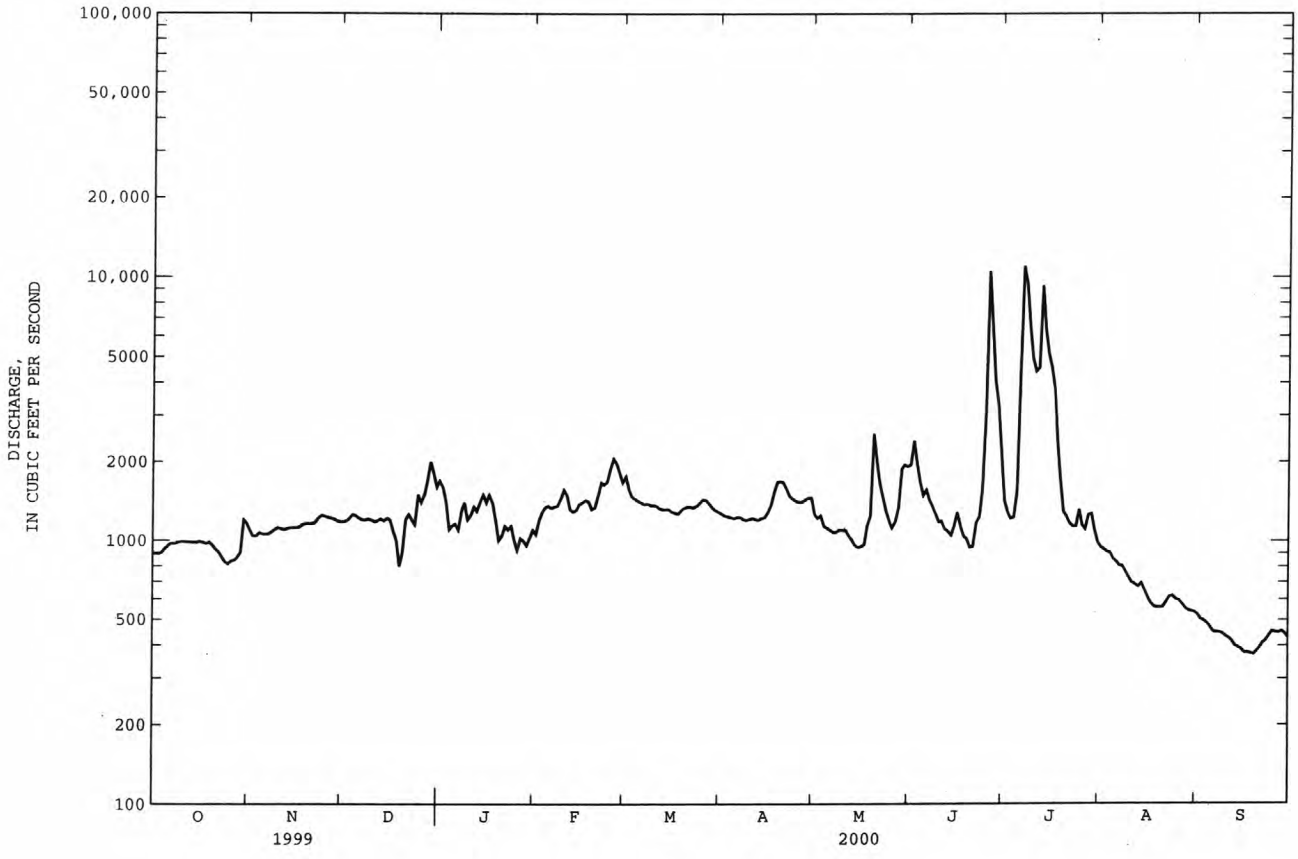
MEAN	728	752	655	616	1202	2269	2052	2030	2846	1445	961	731
MAX	2780	2792	1803	1650	6439	8082	10450	7565	11950	11470	4755	2705
(WY)	1987	1999	1994	1973	1971	1993	1984	1995	1984	1993	1951	1951
MIN	150	240	150	180	256	489	512	327	405	173	117	87.8
(WY)	1940	1940	1930	1977	1940	1981	1981	1934	1933	1936	1976	1939

PLATTE RIVER BASIN

06800500 ELKHORN RIVER AT WATERLOO, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1929 - 2000	
ANNUAL TOTAL	1035777		502286			
ANNUAL MEAN	2838		1372		1356	
MEDIAN OF ANNUAL MEANS					1092	
HIGHEST ANNUAL MEAN					3870	1993
LOWEST ANNUAL MEAN					417	1939
HIGHEST DAILY MEAN	21600	Aug 8	11000	Jul 7	93800	Jun 12 1944
LOWEST DAILY MEAN	800	Dec 19	371	Sep 19	64	Sep 16 1939
ANNUAL SEVEN-DAY MINIMUM	849	Oct 23	380	Sep 15	66	Sep 15 1939
INSTANTANEOUS PEAK FLOW			11900	Jul 7	100000	Jun 12 1944
INSTANTANEOUS PEAK STAGE			*9.11	Jul 7	**16.60	Jun 12 1944
ANNUAL RUNOFF (AC-FT)	2054000		996300		982200	
10 PERCENT EXCEEDS	5340		1700		2710	
50 PERCENT EXCEEDS	2000		1200		726	
90 PERCENT EXCEEDS	984		561		300	

e Estimated.
* From floodmark
** From floodmark, site and datum then in use.



PLATTE RIVER BASIN

06801000 PLATTE RIVER NEAR ASHLAND, NE

LOCATION.--Lat 41°03'44", long 096°19'28", in SE ¼ SW ¼ sec.29, T.13 N., R.10 E., Sarpy County, Hydrologic Unit 10200202, on left bank upstream side and 35 ft northeast of Highway 6 bridge, 3 mi northeast of Ashland, 2 mi upstream from Salt Creek, and at mile 27.9.

DRAINAGE AREA.--84,200 mi^2 from state base maps, scale 1:1,000,000.

PERIOD OF RECORD.--August 1928 to May 1953, July 1988 to current year.

REVISED RECORDS.--WDR NE-94-1: 1993 (M).

GAGE.--Water-stage recorder. Datum of gage is 1,040.00 ft above sea level. Prior to Oct. 1, 1929, chain gage at former highway bridge ½ mi upstream at datum 15.83 ft higher. Oct. 1, 1929 to Oct. 7, 1933 staff or chain gage at former bridge datum 14.79 ft higher. Oct. 14, 1933 to Dec. 10, 1938 water-stage recorder at site 950 ft upstream from former bridge at datum 14.79 ft higher. Dec. 11, 1938 to June 16, 1948 water-stage recorder at site of former bridge ½ mi upstream at datum 14.79 ft higher. June 17, 1948 to May 11, 1953 ½ mi downstream on Highway 6 bridge at datum 12.51 ft higher. Data collection platform at station.

REMARKS.--Records fair except for periods of estimated record which are poor. Natural flow of stream affected by storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6670	6780	6030	1700	e5000	9810	7870	6160	7480	4480	4760	2360
2	6400	6860	6480	1640	e5600	9580	6690	5570	7700	3950	4020	2210
3	6650	7070	6610	2550	e6200	9580	6570	5980	7280	3460	3700	2150
4	6540	7240	7080	2790	e7200	9130	5600	6090	7290	3140	3410	2280
5	7320	6560	6920	1610	e6800	8970	4470	6060	6990	3140	3560	2100
6	6860	6620	6870	1690	e6600	8890	6120	6030	6680	8720	3080	2160
7	6890	6730	7050	1050	e7200	8320	6070	5470	6290	18200	2370	2260
8	6900	6840	6300	1070	e7400	8870	5580	6080	5760	15100	2300	2350
9	7220	6900	6820	2430	e7600	8730	5940	5850	5270	11100	1950	2450
10	7290	6670	6680	2550	e7700	8750	6410	5690	4990	8770	2150	2590
11	7210	6950	6600	3020	e7800	9010	6540	6560	4840	6850	1800	2080
12	7420	6800	6330	3130	e7000	9290	5870	5980	4850	5930	2100	2270
13	7700	6880	6670	3780	e7400	8680	5820	5560	4760	7430	1470	2130
14	7890	7140	6180	4180	e7200	9290	5690	5370	4690	5970	1490	2220
15	7690	6800	6920	4060	e7600	8180	6070	5310	3700	5220	1390	2090
16	7080	6750	6500	4210	e7800	8210	6250	4890	4590	3500	1530	2220
17	7330	6580	6240	3810	e8200	8140	6650	5200	4650	3600	1180	2150
18	7100	6310	5470	3970	e8000	8250	7720	4980	4170	4450	1330	1820
19	6590	6660	6310	4510	e7800	7450	7460	5950	4430	3580	1450	2150
20	7050	6410	5620	4440	e7800	8150	7360	6470	3870	2680	971	2580
21	6060	6040	6290	3990	e7800	8430	6900	7040	3420	2850	1180	1860
22	6720	6700	5680	4610	e8000	7840	6300	7710	4130	2960	2260	2470
23	6130	6580	5230	e4300	e8200	8050	6510	6700	4540	2700	2000	2320
24	5900	6870	4660	e4200	8340	8420	6110	5430	5610	2570	2120	2680
25	5590	6930	1200	e4500	8780	8500	5560	6000	7350	3060	2090	2580
26	5730	6750	3120	e4200	9990	8090	5270	6380	15300	3590	2400	2630
27	5500	6550	3150	e4100	10100	8510	5880	6230	12200	3590	2520	2800
28	5680	6450	3940	e4200	9730	7800	6280	7070	9580	2810	2140	2850
29	5820	6130	3180	e4400	9760	7890	6540	7310	7190	3290	1970	3080
30	6310	6220	2960	e4200	---	7720	6380	7360	6420	3840	2040	2820
31	5990	---	2150	e4500	---	7420	---	7430	---	5570	2250	---
TOTAL	207230	200770	171240	105390	224600	263950	188480	189910	186020	166100	68981	70710
MEAN	6685	6692	5524	3400	7745	8515	6283	6126	6201	5358	2225	2357
MAX	7890	7240	7080	4610	10100	9810	7870	7710	15300	18200	4760	3080
MIN	5500	6040	1200	1050	5000	7420	4470	4890	3420	2570	971	1820
AC-FT	411000	398200	339700	209000	445500	523500	373900	376700	369000	329500	136800	140300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2000, BY WATER YEAR (WY)

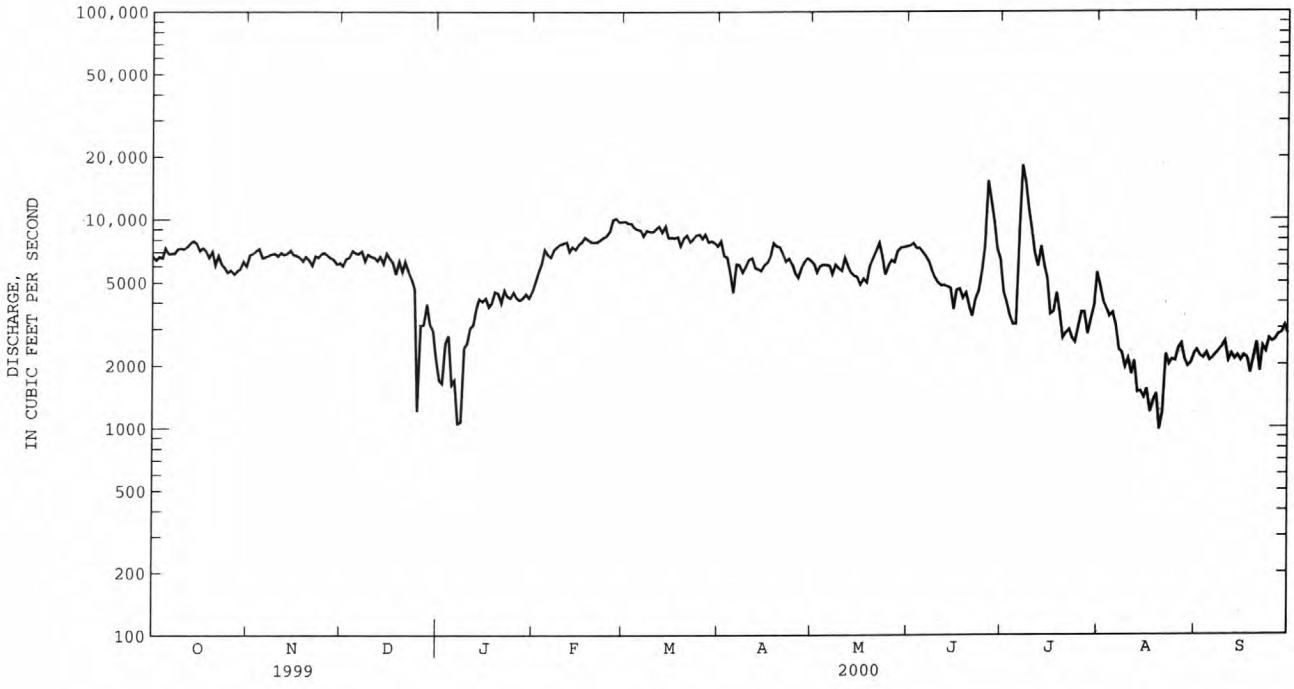
MEAN	5656	6216	5630	5195	7368	9735	8893	9005	12090	8414	5515	4993
MAX	8325	9403	8778	9022	11390	23190	15470	19330	23270	31980	10730	9825
(WY)	1998	1999	1998	1998	1997	1993	1998	1995	1995	1993	1996	1993
MIN	2433	3620	2879	2939	5128	5233	4618	2969	2928	2448	1288	1533
(WY)	1992	1989	1990	1991	1990	1991	1989	1989	1989	1991	1991	1991

PLATTE RIVER BASIN

06801000 PLATTE RIVER NEAR ASHLAND, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1989 - 2000	
ANNUAL TOTAL	3500060		2043381			
ANNUAL MEAN	9589		5583		*7386	
HIGHEST ANNUAL MEAN					11820	1993
LOWEST ANNUAL MEAN					4612	1989
HIGHEST DAILY MEAN	41400	Jun 28	18200	Jul 7	110000	Mar 10 1993
LOWEST DAILY MEAN	1200	Dec 25	971	Aug 20	662	Sep 2 1991
ANNUAL SEVEN-DAY MINIMUM	2810	Dec 25	1290	Aug 15	701	Aug 29 1991
INSTANTANEOUS PEAK FLOW			19900	Jul 7	**130000	Mar 10 1993
INSTANTANEOUS PEAK STAGE			***18.50	Feb 13	****23.05	Feb 20 1997
ANNUAL RUNOFF (AC-FT)	6942000		4053000		5351000	
10 PERCENT EXCEEDS	16800		8190		12100	
50 PERCENT EXCEEDS	7400		6060		6210	
90 PERCENT EXCEEDS	5310		2160		2700	

e Estimated.
* Average discharge for water years 1942-52, 5,961 ft^3/s.
** Estimated; discharge includes overbank flow, stage 19.23 ft., backwater from ice.
*** Backwater from ice.
**** Ice jam.



PLATTE RIVER BASIN

06801180 OLIVE BRANCH NEAR HALLAM, NE

LOCATION.--Lat 40°35'44", long 096°47'42", in NE ¼ NW ¼ sec.7, T.7 N., R.6 E., Lancaster County, Hydrologic Unit 10200203, on right bank, 4.75 mi west of U.S. Highway 77 on West Panama Road , south of Lincoln, and at mile 3.5.

DRAINAGE AREA.--37.8 mi^2 .

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1997 to current year.

GAGE.--Water-stage recorder, water temperature, and specific conductance sensors. Datum of gage is 1,273.75 ft above sea level. Data collection platform at station.

REMARKS.--Record good except for periods of estimated record which are poor.

CORRECTIONS.--The maximum discharge for water year 1998 is 495 ft^3/s Nov. 29, 1997, gage height, 7.55 ft: the previously published figure was not the maximum.

COOPERATION.--Station operated in cooperation with the Nebraska Public Power District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.91	1.0	1.5	1.1	e.90	.75	1.2	1.3	1.2	e2.0	.21	.66
2	.91	1.0	1.3	e1.0	e.90	.23	1.2	.91	1.2	e2.2	.25	.72
3	.91	1.0	1.4	e.80	e1.0	.36	1.2	.73	1.1	e4.0	1.2	.77
4	.91	1.1	1.4	e.50	e1.0	.13	1.2	.67	1.2	e20	1.2	.91
5	.91	1.2	1.3	e.50	e1.0	.26	1.2	1.0	1.2	e8.0	1.1	1.1
6	.91	1.2	.96	e1.0	e.90	.09	1.3	.96	1.1	2.4	1.0	.65
7	.91	1.3	1.2	1.3	e.90	.09	1.4	1.3	1.2	1.9	1.2	.54
8	.91	1.4	1.6	1.3	e.80	.70	1.2	1.5	1.1	e1.6	1.1	.57
9	.91	1.6	1.8	1.1	e.90	.10	1.2	1.6	1.1	e1.4	1.0	.52
10	.91	1.7	1.6	1.2	e.90	.16	1.3	1.2	1.1	e1.3	.88	.52
11	.93	1.7	1.9	1.3	e.80	.26	.86	1.1	1.1	e1.2	.70	e.50
12	.98	2.2	2.0	1.1	e.90	.38	.93	.74	1.1	e1.0	.64	e.50
13	1.0	2.1	1.9	1.3	e1.0	.35	1.4	.68	1.1	e1.0	.53	e.50
14	1.0	1.9	1.9	1.4	e1.1	.53	.74	.81	1.0	e1.0	.52	e.60
15	1.0	1.8	e1.4	1.1	e1.2	.46	.51	1.0	1.0	e1.0	.57	e.60
16	1.0	1.8	e1.1	e1.0	1.4	.48	1.1	.67	1.0	e1.2	.59	e.50
17	1.0	2.0	e.90	e1.0	1.5	.41	1.3	.81	1.0	e2.6	.53	e.50
18	1.0	1.5	e.60	e1.0	1.8	1.1	1.5	1.0	.93	e2.0	.52	e.50
19	1.0	1.1	e.40	e.90	1.7	1.6	1.5	.86	.83	e1.8	.62	.82
20	1.0	1.1	e.30	e.80	e2.2	1.4	1.5	1.1	.92	8.6	.60	.65
21	1.0	1.0	e.20	e.90	e1.8	1.1	1.4	1.3	.21	e5.0	.59	.66
22	1.0	1.3	e.40	e1.0	2.2	1.3	1.5	1.4	.06	e3.4	.58	.71
23	1.0	4.5	e.80	e.90	1.4	1.5	1.5	1.3	.10	e2.2	.59	.69
24	1.0	1.4	1.7	e.80	1.4	1.3	1.5	.98	.29	e1.6	.59	.71
25	1.0	1.1	2.0	e.70	.73	.78	1.5	1.2	74	e1.5	.59	.73
26	1.0	1.1	2.1	e.70	.08	.96	1.5	1.1	53	e1.4	.64	.74
27	1.2	1.3	2.1	e.60	.16	.83	1.4	1.2	2.8	e1.2	.60	.76
28	1.2	1.3	2.1	e.80	.14	1.3	1.5	.82	1.8	e1.2	.58	.78
29	1.0	1.3	2.1	e.90	.25	1.4	1.0	.65	1.7	e1.1	.52	.79
30	1.0	1.4	1.7	e1.0	---	1.4	.91	.97	e1.8	e1.0	.60	.81
31	1.0	---	1.2	e.90	---	1.3	---	.98	---	.92	.69	---
TOTAL	30.41	45.4	42.86	29.90	30.96	23.01	37.45	31.84	157.24	86.72	21.53	20.01
MEAN	.98	1.51	1.38	.96	1.07	.74	1.25	1.03	5.24	2.80	.69	.67
MAX	1.2	4.5	2.1	1.4	2.2	1.6	1.5	1.6	74	20	1.2	1.1
MIN	.91	1.0	.20	.50	.08	.09	.51	.65	.06	.92	.21	.50
AC-FT	60	90	85	59	61	46	74	63	312	172	43	40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

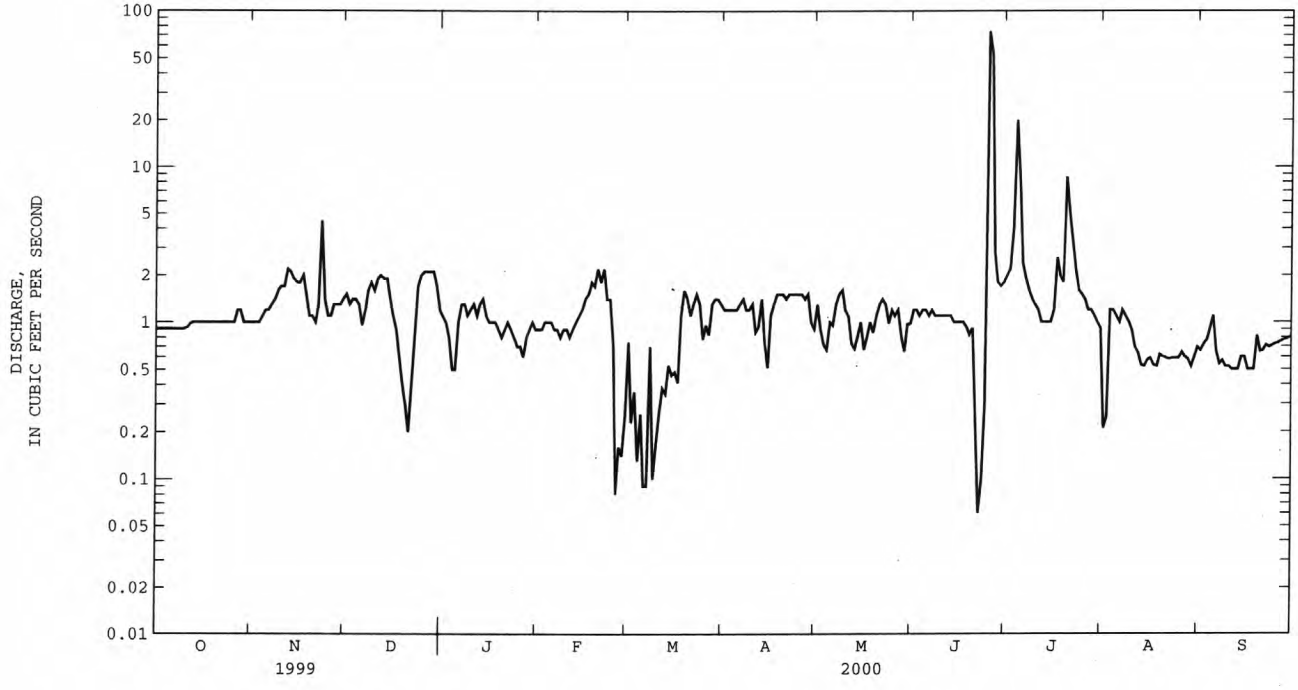
MEAN	7.50	16.3	4.68	2.56	7.38	11.5	21.1	8.72	12.1	5.73	3.01	2.91
MAX	17.2	35.6	6.37	4.21	18.1	28.6	33.1	15.2	26.0	7.46	7.73	8.21
(WY)	1999	1999	1999	1998	1998	1998	1999	1999	1998	1998	1998	1998
MIN	.98	1.51	1.38	.96	1.07	.74	1.25	1.03	5.24	2.80	.69	.67
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000

PLATTE RIVER BASIN

06801180 OLIVE BRANCH NEAR HALLAM, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL TOTAL	2460.28		557.33			
ANNUAL MEAN	6.74		1.52		8.74	
HIGHEST ANNUAL MEAN					13.4	1998
LOWEST ANNUAL MEAN					1.52	2000
HIGHEST DAILY MEAN	386	Apr 15	74	Jun 25	386	Apr 15 1999
LOWEST DAILY MEAN	.20	Dec 21	.06	Jun 22	.06	Jun 22 2000
ANNUAL SEVEN-DAY MINIMUM	.51	Dec 17	.22	Mar 4	.22	Mar 4 2000
INSTANTANEOUS PEAK FLOW			501	Jun 25	917	Apr 15 1999
INSTANTANEOUS PEAK STAGE			7.59	Jun 25	9.98	Apr 15 1999
ANNUAL RUNOFF (AC-FT)	4880		1110		6330	
10 PERCENT EXCEEDS	12		1.8		15	
50 PERCENT EXCEEDS	2.7		1.0		3.0	
90 PERCENT EXCEEDS	.91		.51		.82	

e Estimated.



PLATTE RIVER BASIN

06801180 OLIVE BRANCH NEAR HALLAM, NE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1997 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: May 1997 to current year.
WATER TEMPERATURES: May 1997 to current year.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	13.3	10.4	10.1	9.1	8.5	7.2	5.4	4.5	4.1	2.6	9.4	6.8
2	11.7	9.4	9.1	6.9	9.4	8.3	5.2	4.4	4.5	2.6	7.9	7.2
3	11.0	9.4	7.9	6.0	9.0	8.2	5.0	3.7	4.8	3.3	9.5	7.1
4	10.9	7.7	8.4	6.2	8.2	6.9	3.7	2.6	3.9	2.6	10.7	7.2
5	12.4	9.3	9.2	7.9	6.9	5.5	4.0	3.0	4.3	2.4	11.9	8.7
6	13.1	9.7	9.4	7.5	5.7	4.6	4.0	3.1	5.3	3.1	13.1	9.7
7	13.5	11.8	10.0	7.9	6.5	5.0	4.1	3.0	5.0	2.9	13.9	11.6
8	14.0	12.3	11.6	9.0	6.4	5.3	4.5	3.3	5.8	3.0	13.2	10.4
9	13.7	11.4	12.2	10.8	6.1	5.5	5.0	4.1	6.1	3.8	10.4	7.7
10	13.3	11.6	11.8	10.1	5.5	4.1	4.8	3.8	5.6	4.1	8.8	6.8
11	12.8	10.4	10.5	8.7	5.8	4.4	4.4	3.4	4.1	2.9	9.6	6.2
12	14.0	12.1	10.3	9.1	5.6	4.7	4.6	3.5	3.5	3.1	10.5	6.9
13	13.9	11.6	10.6	8.6	5.3	4.0	4.2	3.1	3.7	3.1	10.0	6.9
14	12.1	9.9	10.5	9.5	5.5	4.7	4.5	2.9	5.5	2.7	11.3	7.9
15	13.2	11.7	9.5	7.8	5.2	4.1	5.6	4.0	6.8	3.5	9.5	6.7
16	13.1	10.6	9.2	7.6	4.4	3.6	4.9	3.3	5.6	3.5	8.4	4.7
17	10.6	9.2	9.5	8.0	4.3	3.6	4.8	3.4	4.6	3.7	8.1	5.4
18	9.8	7.9	11.2	9.4	4.1	3.7	5.4	3.4	4.1	2.9	7.2	6.4
19	9.2	7.9	10.7	7.9	4.0	3.7	5.6	3.6	---	---	6.7	5.7
20	9.5	7.0	8.2	6.6	3.7	2.9	3.8	2.7	---	---	7.0	6.2
21	10.7	7.9	8.6	7.5	3.8	2.8	4.3	2.8	---	---	8.8	6.7
22	10.7	9.4	8.3	6.9	3.7	2.9	4.9	3.4	---	---	9.9	8.0
23	9.9	7.8	8.0	6.7	4.1	3.1	4.0	2.8	10.1	9.4	10.0	9.5
24	8.6	6.3	6.8	5.7	4.1	3.4	3.9	2.5	10.4	8.5	10.7	9.3
25	9.5	7.6	6.9	5.5	4.6	3.3	3.4	2.5	12.0	9.5	11.8	8.9
26	10.1	7.6	8.0	6.5	4.2	3.4	3.5	2.2	9.5	7.1	12.5	10.1
27	11.8	9.0	8.2	7.3	3.9	3.6	3.6	2.8	9.1	5.8	12.4	9.3
28	11.5	9.7	8.1	7.5	5.3	3.3	3.7	3.0	10.0	7.2	11.3	8.1
29	11.7	9.0	7.5	6.3	5.3	3.7	3.8	2.8	9.2	8.0	11.1	8.4
30	11.2	10.2	7.8	6.3	5.2	4.2	3.6	2.5	---	---	12.6	9.5
31	10.3	8.2	---	---	5.2	3.7	3.8	2.3	---	---	10.9	10.1
MONTH	14.0	6.3	12.2	5.5	9.4	2.8	5.6	2.2	12.0	2.4	13.9	4.7

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	12.2	9.7	14.7	13.7	18.6	18.0	16.6	14.0	21.1	18.0	19.1	17.1
2	11.5	9.9	16.9	13.1	18.4	17.1	18.3	15.0	20.1	17.0	19.3	16.7
3	11.2	9.5	17.3	15.3	18.1	16.7	---	---	22.9	18.5	19.3	17.2
4	10.6	8.4	18.3	15.3	18.1	17.2	---	---	21.7	19.7	19.2	17.0
5	12.2	9.6	18.7	16.3	18.0	16.2	---	---	23.5	19.9	19.0	16.6
6	12.6	10.9	17.9	16.8	17.1	15.9	26.3	19.6	24.1	20.3	18.0	16.2
7	12.2	9.6	17.7	17.0	17.5	16.1	---	---	22.0	19.1	18.0	16.2
8	10.0	7.9	17.7	16.4	18.6	16.9	26.2	20.0	22.8	18.6	17.6	15.0
9	11.6	9.0	17.0	15.3	18.6	17.4	26.0	20.3	21.8	18.8	18.1	16.7
10	11.6	10.5	16.7	15.3	19.1	18.2	25.4	20.1	21.6	17.7	18.3	17.7
11	11.1	9.3	18.8	16.2	19.1	18.4	24.9	20.3	21.6	18.2	18.3	17.4
12	12.0	9.5	18.6	16.8	19.4	18.5	24.9	19.8	21.9	18.6	17.8	15.2
13	13.7	9.9	16.9	14.6	19.5	19.1	24.7	18.3	22.3	18.8	16.9	14.9
14	15.6	11.9	15.5	14.1	19.1	17.8	26.3	18.7	21.3	18.2	17.0	15.7
15	14.0	10.4	15.7	13.9	18.2	16.9	25.6	19.4	20.3	17.6	16.1	13.9
16	10.4	8.3	16.3	14.5	18.0	17.2	22.4	19.8	20.1	18.4	15.3	13.8
17	10.4	8.2	16.9	16.2	18.0	16.9	23.2	18.8	19.5	17.6	16.1	14.9
18	12.1	10.2	16.9	15.5	18.0	16.5	21.9	19.4	18.2	15.9	16.6	16.1
19	14.6	12.1	15.9	14.6	18.8	17.2	19.9	18.4	18.6	16.2	16.7	16.4
20	14.2	11.1	16.1	14.5	20.6	18.6	21.4	18.0	20.8	17.5	16.4	14.3
21	12.8	10.0	17.0	15.4	20.6	19.3	22.7	17.7	20.2	17.6	15.7	14.3
22	14.4	12.2	17.7	16.2	19.7	18.3	22.8	18.4	19.8	17.7	16.3	15.1
23	14.6	13.6	18.4	16.8	19.2	17.9	21.9	18.3	20.8	17.7	16.2	14.0
24	15.4	13.6	18.3	17.2	18.8	17.8	21.8	17.7	20.2	17.7	14.0	12.7
25	15.0	14.1	18.1	16.2	18.7	17.3	22.6	18.0	20.2	17.1	13.9	12.3
26	14.6	13.1	17.5	16.4	18.7	17.5	23.1	19.1	22.4	18.3	14.7	13.1
27	13.9	12.9	16.8	16.1	18.1	16.2	23.3	19.1	21.5	19.8	15.2	14.7
28	16.3	12.5	17.4	15.7	16.6	15.0	22.4	20.7	21.4	18.9	15.7	15.1
29	16.8	13.4	18.7	16.6	15.8	13.4	22.7	19.2	20.4	18.3	15.9	15.6
30	15.2	14.3	20.0	17.9	16.3	13.6	22.6	18.8	20.7	17.9	16.4	15.9
31	---	---	19.9	17.9	---	---	22.5	19.1	19.9	17.5	---	---
MONTH	16.8	7.9	20.0	13.1	20.6	13.4	26.3	14.0	24.1	15.9	19.3	12.3
YEAR	26.3	2.2										

PLATTE RIVER BASIN

06801180 OLIVE BRANCH NEAR HALLAM, NE--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	622	833	818	800	749	627	667	852	746	665	678	827
2	647	824	817	798	748	632	664	829	757	653	733	807
3	663	823	819	796	740	641	666	757	762	661	760	813
4	665	822	827	794	733	650	670	740	737	---	750	819
5	666	816	828	791	730	653	676	767	739	632	753	828
6	670	811	827	790	724	662	676	809	721	623	759	830
7	679	820	825	788	720	668	678	845	718	629	751	848
8	698	818	827	784	715	663	668	865	726	650	751	799
9	715	816	828	781	706	662	680	870	725	666	761	838
10	737	816	827	777	695	666	704	868	735	680	765	790
11	759	819	826	777	685	671	722	871	744	695	763	897
12	778	821	825	776	675	678	742	864	753	726	754	909
13	793	820	824	778	665	683	764	839	758	747	760	888
14	803	823	822	782	663	689	790	821	763	742	787	885
15	817	823	824	781	663	691	791	808	763	731	794	840
16	830	824	823	777	658	689	760	787	762	719	802	814
17	844	823	822	778	651	686	738	766	760	715	813	783
18	843	812	821	780	646	684	732	755	757	697	814	772
19	848	807	819	778	640	681	729	754	752	691	820	807
20	849	806	820	779	---	678	717	757	751	649	816	871
21	839	804	819	780	---	674	721	763	745	673	779	930
22	836	805	818	778	621	666	728	765	721	685	759	947
23	841	807	818	777	610	659	733	769	708	679	757	920
24	854	811	818	776	601	656	747	772	681	686	741	880
25	851	811	816	773	593	656	768	770	697	700	---	826
26	855	810	815	772	598	655	797	764	721	697	737	763
27	863	814	812	769	607	654	832	760	729	694	726	724
28	871	820	810	762	616	657	881	756	730	676	776	807
29	879	826	807	755	621	662	873	750	752	649	810	871
30	867	824	806	750	---	669	857	741	734	632	842	893
31	835	---	804	749	---	667	---	735	---	632	828	---
MEAN	784	817	820	778	669	665	739	793	738	679	771	841
MAX	879	833	828	800	749	691	881	871	763	747	842	947
MIN	622	804	804	749	593	627	664	735	681	623	678	724

PLATTE RIVER BASIN

06803000 SALT CREEK AT ROCA, NE

LOCATION.--Lat 40°39'29", long 096°39'55", in NW ¼ SW ¼ sec.17, T.8 N., R.7 E., Lancaster County, Hydrologic Unit 10200203, on left bank 15 ft downstream from highway bridge at west edge of Roca, and at mile 54.2.

DRAINAGE AREA.--167 mi^2.

PERIOD OF RECORD.--May 1951 to current year.

REVISED RECORDS.--WDR NE-71: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,192.50 ft above sea level, Kansas City supplementary adjustment of 1943. Prior to May 16, 1956, nonrecording gage at present site and datum. Data collection platform at station.

REMARKS.--Records good. Flood flow affected by several detention dams.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	10	12	14	e9.0	12	16	17	11	15	9.8	5.1
2	7.2	10	12	e14	e8.8	18	17	17	10	14	8.3	5.3
3	7.6	10	13	e12	e9.2	16	20	15	11	23	7.8	4.9
4	7.8	11	13	9.0	e9.2	15	19	14	11	316	9.0	5.1
5	7.7	11	13	11	e9.0	14	18	14	10	65	9.5	5.6
6	7.8	11	12	11	e9.4	14	16	13	9.9	26	9.1	5.0
7	7.4	e12	12	11	e9.2	15	15	13	8.4	17	9.1	4.4
8	8.0	13	13	12	e9.0	17	15	15	7.3	14	8.9	4.6
9	7.6	12	13	12	e9.0	16	16	17	7.1	12	7.3	4.4
10	7.7	11	13	13	e9.2	16	19	14	6.7	11	6.4	4.6
11	8.3	11	13	12	e8.8	15	19	12	7.1	10	6.3	4.5
12	6.8	11	e13	12	e8.8	15	17	11	7.2	10	6.8	4.6
13	8.4	12	e13	11	e9.0	14	16	9.9	7.2	8.9	6.9	3.8
14	8.8	12	e14	12	12	14	18	9.6	8.3	8.5	6.0	4.1
15	10	12	e14	12	13	15	17	10	9.4	8.7	5.5	3.8
16	10	12	13	e11	13	14	36	11	11	8.6	5.3	3.8
17	10	13	e12	e10	13	14	51	11	11	8.6	5.4	3.5
18	10	13	e11	e9.8	15	15	33	12	10	18	5.4	2.9
19	11	12	e10	e9.6	e14	18	29	12	9.9	13	8.5	3.0
20	11	11	e9.6	e9.0	e13	19	25	12	17	128	14	4.9
21	15	12	e9.0	e9.0	15	19	23	12	13	27	9.6	5.1
22	38	13	e10	e9.2	19	20	21	12	9.5	15	8.1	4.6
23	25	26	e11	e9.4	23	21	19	12	8.9	12	7.7	4.7
24	24	21	e12	e9.4	21	27	18	12	21	11	7.2	5.7
25	25	13	13	e9.2	16	26	18	11	170	10	6.9	7.5
26	26	12	14	e9.0	12	21	21	16	532	8.9	9.5	23
27	23	13	13	e9.2	12	18	22	19	50	8.2	9.1	8.4
28	11	12	13	e9.4	11	15	21	15	27	17	8.3	6.8
29	11	12	14	e9.2	12	15	18	13	21	15	6.7	6.8
30	9.9	11	14	e9.2	---	15	15	12	16	11	5.5	5.9
31	10	---	14	e9.0	---	16	---	12	---	10	5.5	---
TOTAL	396.0	375	385.6	328.6	351.6	519	628	405.5	1058.9	880.4	239.4	166.4
MEAN	12.8	12.5	12.4	10.6	12.1	16.7	20.9	13.1	35.3	28.4	7.72	5.55
MAX	38	26	14	14	23	27	51	19	532	316	14	23
MIN	6.8	10	9.0	9.0	8.8	12	15	9.6	6.7	8.2	5.3	2.9
AC-FT	785	744	765	652	697	1030	1250	804	2100	1750	475	330

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2000, BY WATER YEAR (WY)

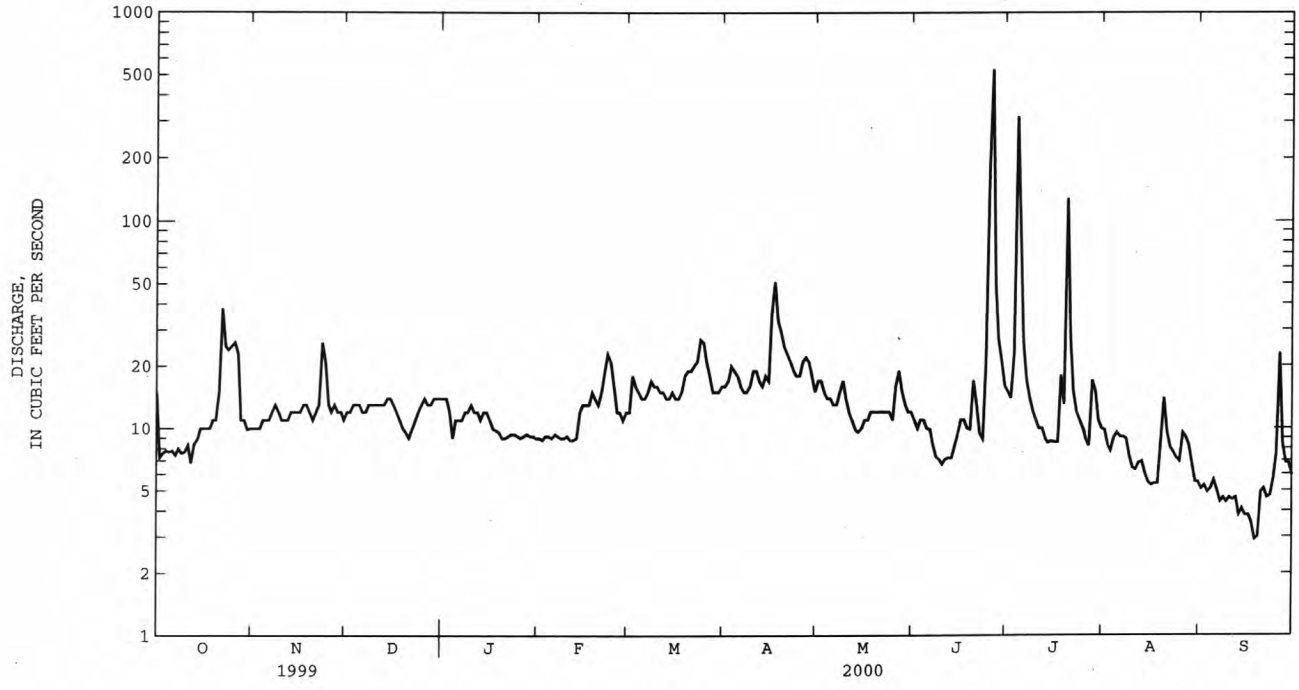
MEAN	40.9	21.4	16.6	18.9	38.2	86.2	69.4	92.2	90.5	81.1	31.3	23.5
MAX	617	167	108	140	180	641	356	587	666	789	496	220
(WY)	1974	1999	1987	1973	1958	1979	1987	1995	1984	1993	1954	1989
MIN	1.36	3.11	3.19	3.25	5.37	5.59	5.23	5.23	2.98	2.19	1.18	1.66
(WY)	1956	1956	1965	1954	1956	1956	1956	1955	1981	1955	1955	1991

PLATTE RIVER BASIN

06803000 SALT CREEK AT ROCA, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1952 - 2000	
ANNUAL TOTAL	19501.4		5734.4			
ANNUAL MEAN	53.4		15.7		50.9	
MEDIAN OF ANNUAL MEANS					41	
HIGHEST ANNUAL MEAN					200	1987
LOWEST ANNUAL MEAN					6.15	1981
HIGHEST DAILY MEAN	2460	Apr 15	532	Jun 26	6070	Jul 14 1952
LOWEST DAILY MEAN	6.8	Oct 12	2.9	Sep 18	.20	Jul 23 1955
ANNUAL SEVEN-DAY MINIMUM	7.6	Oct 2	3.6	Sep 13	.61	Sep 6 1955
INSTANTANEOUS PEAK FLOW			955	Jun 25	16700	Jul 10 1958
INSTANTANEOUS PEAK STAGE			8.42	Jun 25	22.70	Jul 10 1958
ANNUAL RUNOFF (AC-FT)	38680		11370		36900	
10 PERCENT EXCEEDS	88		21		79	
50 PERCENT EXCEEDS	25		12		11	
90 PERCENT EXCEEDS	9.5		6.8		4.0	

e Estimated.



PLATTE RIVER BASIN

06803080 SALT CREEK AT PIONEERS BOULEVARD AT LINCOLN, NE

LOCATION.--Lat 40°46'13", long 096°43'05", in SW ¼ SW ¼, sec.2, T.9 N., R.6 E., Lancaster County, Hydrologic Unit 10200203, on left bank downstream from bridge.

DRAINAGE AREA.--220 mi^2.

PERIOD OF RECORD.--August 1994 to current year. Published as "above Beal Slough", August-September 1994.

GAGE.--Water-stage recorder. Elevation of gage is 1,140 ft above sea level. Data collection platform at station.

REMARKS.--Record fair except for periods of estimated record which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	19	18	19	18	21	19	18	11	17	15	9.0
2	17	20	20	17	19	20	20	18	9.3	37	13	8.7
3	11	20	21	18	20	24	21	18	9.3	41	39	8.4
4	11	21	e20	11	20	23	22	17	9.9	326	13	10
5	12	22	e20	17	18	23	22	15	9.8	298	14	8.2
6	12	23	e19	16	21	21	21	15	9.9	53	14	9.2
7	12	24	e18	15	17	22	20	14	9.7	30	13	7.9
8	11	25	e17	16	19	23	19	26	8.0	23	12	8.8
9	12	25	e17	17	23	23	19	18	6.2	20	12	8.4
10	11	24	e17	16	23	22	20	19	5.6	18	12	7.0
11	11	24	e17	15	19	21	21	17	5.6	16	11	7.2
12	12	25	e16	17	18	21	21	15	6.2	18	11	7.0
13	9.6	25	e16	15	23	20	19	14	22	13	11	7.3
14	11	25	e16	18	16	20	19	13	7.5	11	12	7.4
15	12	26	e17	19	24	19	19	13	6.8	11	10	6.1
16	13	26	e16	14	21	20	80	13	8.5	12	9.6	6.0
17	15	26	e16	18	21	18	46	15	9.6	12	9.2	6.2
18	15	26	e15	15	21	19	34	14	9.9	32	9.6	5.5
19	15	e20	e15	19	22	20	27	14	9.3	27	52	5.4
20	15	e17	e16	12	21	22	24	16	83	251	15	11
21	16	e17	16	16	23	22	22	17	17	114	28	7.9
22	27	30	14	19	25	22	22	14	12	34	13	15
23	38	33	14	16	37	28	21	14	8.9	25	12	7.6
24	31	33	14	15	36	28	20	13	29	21	11	8.5
25	32	24	15	20	29	28	19	13	214	19	11	10
26	33	19	16	16	24	25	21	58	619	13	16	11
27	33	19	17	17	21	23	22	21	166	11	13	33
28	29	19	16	17	20	21	21	18	44	30	12	9.9
29	18	18	16	18	33	18	19	15	30	28	12	8.3
30	20	18	17	19	---	18	20	13	22	21	10	7.8
31	19	---	15	18	---	18	---	12	---	15	9.1	---
TOTAL	557.6	693	517	515	652	673	720	530	1419.0	1597	454.5	273.7
MEAN	18.0	23.1	16.7	16.6	22.5	21.7	24.0	17.1	47.3	51.5	14.7	9.12
MAX	38	33	21	20	37	28	80	58	619	326	52	33
MIN	9.6	17	14	11	16	18	19	12	5.6	11	9.1	5.4
AC-FT	1110	1370	1030	1020	1290	1330	1430	1050	2810	3170	902	543

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2000, BY WATER YEAR (WY)

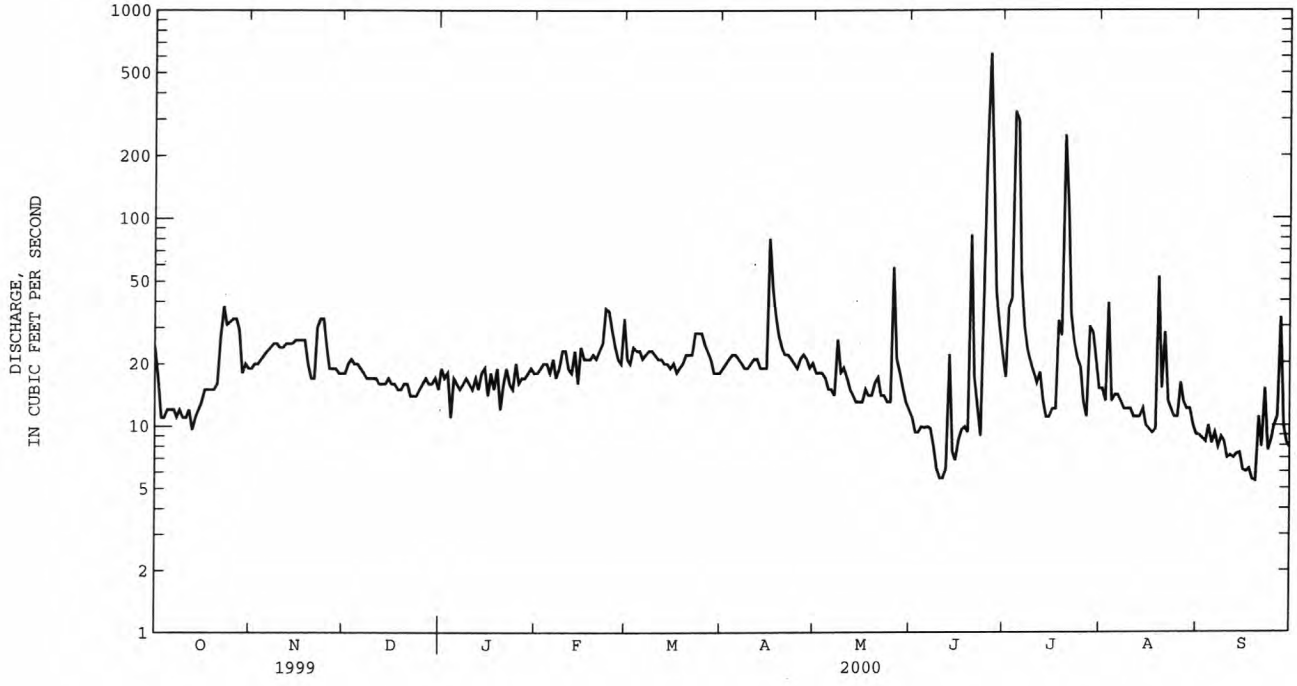
MEAN	32.5	78.8	41.6	31.6	63.3	71.2	121	293	151	90.8	35.9	29.5
MAX	83.8	172	97.1	49.5	194	202	272	689	276	220	90.6	55.8
(WY)	1999	1999	1998	1995	1998	1998	1998	1995	1998	1996	1996	1996
MIN	11.0	13.8	15.0	16.1	16.5	16.2	22.1	17.1	47.3	38.2	14.7	9.12
(WY)	1996	1996	1996	1996	1996	1996	1996	2000	2000	1995	2000	2000

PLATTE RIVER BASIN

06803080 SALT CREEK AT PIONEERS BOULEVARD AT LINCOLN, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1994 - 2000	
ANNUAL TOTAL	24255.6		8601.8			
ANNUAL MEAN	66.5		23.5		86.6	
HIGHEST ANNUAL MEAN					124	1998
LOWEST ANNUAL MEAN					23.5	2000
HIGHEST DAILY MEAN	1700	Apr 15	619	Jun 26	3380	May 9 1996
LOWEST DAILY MEAN	9.6	Oct 13	5.4	Sep 19	4.2	Feb 3 1996
ANNUAL SEVEN-DAY MINIMUM	11	Oct 8	6.3	Sep 13	5.4	Oct 17 1997
INSTANTANEOUS PEAK FLOW			1050	Jun 25	6360	Jul 20 1996
INSTANTANEOUS PEAK STAGE			9.50	Jun 25	22.92	Jul 20 1996
ANNUAL RUNOFF (AC-FT)	48110		17060		62740	
10 PERCENT EXCEEDS	134		29		164	
50 PERCENT EXCEEDS	33		18		31	
90 PERCENT EXCEEDS	14		9.3		13	

e Estimated.



PLATTE RIVER BASIN

06803093 HAINES BRANCH AT SW 56th ST. AT LINCOLN, NE

LOCATION.--Lat 40°45'59", long 096°47'48", in SE ¼ NE ¼, sec.12, T.9 N., R.5 E., Lancaster County, Hydrologic Unit 10200203, on right upstream bank.

DRAINAGE AREA.--60 mi^2.

PERIOD OF RECORD.--October 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,170 ft above sea level. Data collection platform at station.

REMARKS.--Records good except for periods of estimated record which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.89	1.6	3.4	5.1	3.4	4.8	4.3	4.0	.62	2.4	5.1	.18
2	.88	1.5	3.5	4.6	3.5	4.0	4.3	4.0	.58	11	1.5	.35
3	1.0	1.6	4.3	e4.5	e3.5	4.1	4.0	3.6	.69	48	1.2	.54
4	1.2	1.9	4.4	e4.4	e3.8	3.8	3.9	3.7	.92	149	1.2	.66
5	1.4	2.4	3.6	4.3	e2.8	3.9	4.4	3.7	.92	36	2.4	.34
6	1.6	2.2	3.4	4.1	e2.2	3.8	3.9	3.5	.85	19	1.4	.13
7	1.4	2.2	3.9	3.7	e2.5	4.0	4.1	3.6	.97	14	.69	.09
8	1.1	2.3	3.4	4.2	e3.0	4.6	3.9	5.1	.79	9.4	1.6	.09
9	1.7	2.5	3.3	4.6	e3.0	3.9	3.8	4.9	.64	7.0	.48	.09
10	1.2	2.6	2.8	7.9	e2.8	3.3	4.1	3.5	.61	4.5	.35	.09
11	1.3	2.7	4.6	8.1	e3.1	3.6	4.6	2.7	.60	3.4	.36	.08
12	1.5	3.3	4.1	7.3	e3.2	3.6	4.0	2.1	.77	3.1	.24	.08
13	1.4	3.1	4.1	5.5	e3.3	3.7	3.8	1.5	.96	2.5	.18	.09
14	1.8	3.0	e3.5	3.7	e3.4	3.9	3.9	1.5	1.5	2.1	.16	.13
15	2.6	2.8	e3.2	4.6	5.4	3.9	4.0	1.6	1.1	1.5	.27	.31
16	2.3	3.5	e3.2	5.5	6.4	3.9	6.4	1.5	.99	1.6	.32	.13
17	2.2	2.9	e3.1	4.6	4.0	3.7	6.7	1.6	.78	1.9	.32	.09
18	2.3	2.8	e3.0	6.6	4.3	4.4	4.9	1.8	.81	4.7	.34	.09
19	2.1	2.7	e2.8	4.0	7.5	4.9	3.8	1.6	1.1	3.5	3.9	.04
20	2.0	2.8	e2.5	2.8	7.4	4.8	3.5	1.3	4.4	38	3.3	.18
21	1.6	3.1	e2.4	3.0	5.3	4.6	3.1	1.3	2.2	11	1.6	.32
22	1.6	3.3	e2.6	4.3	5.1	4.5	3.2	1.0	1.1	5.1	1.5	.38
23	1.8	5.6	e2.9	4.3	5.7	5.1	3.2	.96	1.7	3.4	1.7	.53
24	2.8	4.2	e3.4	3.1	5.4	6.1	3.1	.96	2.7	2.0	1.5	.80
25	2.3	3.2	4.2	e2.8	5.2	5.0	3.0	.77	72	1.3	1.0	.90
26	1.8	3.3	4.3	e2.5	4.1	4.6	2.9	2.3	73	1.6	17	.80
27	1.5	3.2	4.5	e2.6	4.0	4.4	3.1	2.5	7.1	1.2	6.2	.90
28	1.7	3.8	5.0	e2.7	3.9	4.0	3.2	1.8	9.6	18	2.4	1.0
29	1.5	3.1	7.5	e2.8	4.6	4.3	2.9	1.2	4.7	13	1.3	1.0
30	1.5	3.4	6.9	e2.9	---	4.4	3.2	1.0	2.6	2.7	.49	.80
31	1.4	---	5.5	3.1	---	4.1	---	.71	---	1.8	.34	---
TOTAL	51.37	86.6	119.3	134.2	121.8	131.7	117.2	71.30	197.30	423.7	60.34	11.21
MEAN	1.66	2.89	3.85	4.33	4.20	4.25	3.91	2.30	6.58	13.7	1.95	.37
MAX	2.8	5.6	7.5	8.1	7.5	6.1	6.7	5.1	73	149	17	1.0
MIN	.88	1.5	2.4	2.5	2.2	3.3	2.9	.71	.58	1.2	.16	.04
AC-FT	102	172	237	266	242	261	232	141	391	840	120	22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2000, BY WATER YEAR (WY)

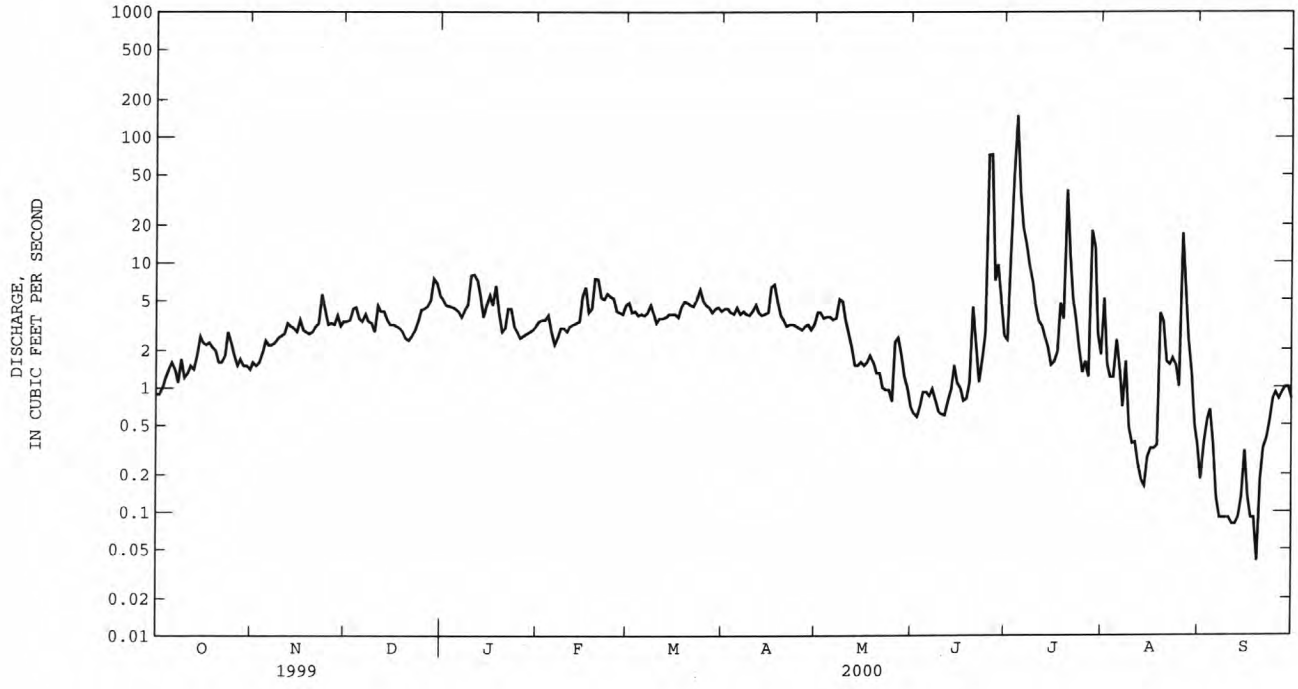
MEAN	4.22	10.7	6.04	5.90	10.7	11.9	18.4	51.4	29.7	13.5	6.33	4.15
MAX	12.2	34.8	10.9	9.65	25.6	31.9	37.4	139	74.0	17.2	19.2	9.46
(WY)	1999	1999	1999	1999	1998	1998	1998	1995	1998	1998	1998	1996
MIN	1.66	2.73	3.85	3.46	3.75	3.23	3.91	2.30	6.58	7.95	1.95	.37
(WY)	2000	1995	2000	1996	1996	1996	2000	2000	2000	1995	2000	2000

PLATTE RIVER BASIN

06803093 HAINES BRANCH AT SW 56th ST. AT LINCOLN, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1994 - 2000	
ANNUAL TOTAL	4872.78		1526.02			
ANNUAL MEAN	13.4		4.17		14.4	
HIGHEST ANNUAL MEAN					22.2	1998
LOWEST ANNUAL MEAN					4.17	2000
HIGHEST DAILY MEAN	325	Apr 15	149	Jul 4	786	May 8 1995
LOWEST DAILY MEAN	.88	Oct 2	.04	Sep 19	.04	Sep 19 2000
ANNUAL SEVEN-DAY MINIMUM	1.2	Aug 29	.09	Sep 7	.09	Sep 7 2000
INSTANTANEOUS PEAK FLOW			446	Jun 25	1780	May 7 1995
INSTANTANEOUS PEAK STAGE			6.62	Jun 25	12.06	May 7 1995
ANNUAL RUNOFF (AC-FT)	9670		3030		10460	
10 PERCENT EXCEEDS	24		5.4		28	
50 PERCENT EXCEEDS	8.7		3.0		5.5	
90 PERCENT EXCEEDS	1.6		.61		1.6	

e Estimated.



PLATTE RIVER BASIN

06803170 MIDDLE CREEK AT SW 40th ST. AT LINCOLN, NE

LOCATION.--Lat 40°48'20", long 096°46'39", in NW ¼ SW ¼, sec.29, T.10 N., R.6 E., Lancaster County, Hydrologic Unit 10200203, on right downstream side of bridge.

DRAINAGE AREA.--94 mi^2.

PERIOD OF RECORD.--October 1994 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,144.45 ft above sea level. Data collection platform at station.

REMARKS.--Records good except for periods of estimated record which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	3.7	4.5	4.6	e4.0	5.6	4.6	4.3	3.7	2.5	2.7	2.0
2	3.2	3.8	4.6	4.6	e4.2	5.6	4.5	3.9	3.5	2.7	2.7	1.9
3	3.3	3.8	5.0	4.5	e4.2	4.6	4.4	3.8	3.4	38	2.9	1.9
4	3.4	3.9	5.1	e4.0	e4.4	4.5	4.4	3.8	3.2	118	2.7	1.9
5	3.4	4.1	4.7	e3.8	e4.4	4.3	4.1	3.8	3.2	10	2.7	1.8
6	3.3	4.3	4.4	e30	e4.4	4.3	4.1	3.9	3.1	4.3	2.6	1.8
7	3.4	4.3	4.4	e25	e4.2	4.5	4.1	4.3	3.0	3.3	2.4	1.7
8	3.2	4.5	4.5	21	e4.2	4.6	4.5	4.4	2.9	3.0	2.2	1.8
9	3.3	4.4	4.3	17	e4.0	4.7	4.3	4.5	2.4	2.8	2.2	1.7
10	3.2	4.3	4.8	17	e4.0	4.7	4.1	4.2	2.6	2.8	2.2	1.7
11	3.1	4.2	4.3	16	e4.2	4.3	4.5	4.2	2.5	2.9	2.2	1.7
12	3.4	4.3	4.3	17	e4.0	4.2	4.2	4.1	3.7	2.7	2.3	1.7
13	3.3	4.2	5.2	20	e4.0	4.3	4.4	4.1	3.9	2.6	2.1	1.7
14	3.6	4.2	4.3	27	5.6	4.5	4.5	4.2	2.9	2.6	2.1	1.6
15	3.8	4.2	e4.1	9.7	4.7	4.4	4.3	4.5	2.5	2.6	2.0	1.7
16	3.7	4.2	e3.6	9.1	4.6	4.5	6.5	4.5	2.4	2.8	2.0	1.7
17	3.3	4.2	e3.8	9.5	4.6	4.3	7.1	4.6	2.4	2.8	2.0	1.7
18	3.5	4.3	e4.0	9.1	6.2	4.6	5.4	4.5	2.2	4.0	2.1	1.7
19	3.6	4.1	e3.9	e6.4	4.9	5.2	4.6	4.8	2.3	3.5	3.5	1.8
20	3.8	4.3	e3.5	e5.0	4.9	5.2	4.1	4.7	3.8	52	3.1	2.1
21	6.6	4.2	e3.0	e4.2	4.8	4.9	4.4	4.9	2.9	7.4	3.4	2.0
22	19	4.5	e3.1	e4.2	5.1	4.8	3.7	4.4	2.6	3.2	2.7	2.0
23	19	6.0	e3.5	e4.4	5.8	5.1	3.7	4.2	2.3	2.7	2.2	2.0
24	19	5.2	4.8	e4.4	5.7	5.7	3.7	4.2	2.7	2.6	2.1	2.1
25	19	4.7	5.1	e4.2	5.2	5.3	3.7	4.1	47	2.7	2.1	1.9
26	18	4.6	4.7	e3.8	4.6	4.7	3.8	6.1	89	2.6	2.1	2.0
27	15	4.4	4.7	e3.6	4.4	4.4	3.9	7.8	5.0	2.6	2.0	4.9
28	3.9	4.4	4.7	e4.0	4.3	4.3	3.9	6.1	3.1	3.4	2.0	5.0
29	3.7	4.2	4.9	e4.4	4.6	4.3	3.7	4.8	2.7	4.9	1.9	4.8
30	3.7	4.3	4.7	e4.2	---	4.3	3.8	4.1	2.5	3.1	1.9	4.7
31	3.8	---	4.9	e4.0	---	4.3	---	3.8	---	2.8	1.9	---
TOTAL	199.0	129.8	135.4	305.7	134.2	145.0	131.0	139.6	219.4	303.9	73.0	67.0
MEAN	6.42	4.33	4.37	9.86	4.63	4.68	4.37	4.50	7.31	9.80	2.35	2.23
MAX	19	6.0	5.2	30	6.2	5.7	7.1	7.8	89	118	3.5	5.0
MIN	3.1	3.7	3.0	3.6	4.0	4.2	3.7	3.8	2.2	2.5	1.9	1.6
AC-FT	395	257	269	606	266	288	260	277	435	603	145	133

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2000, BY WATER YEAR (WY)

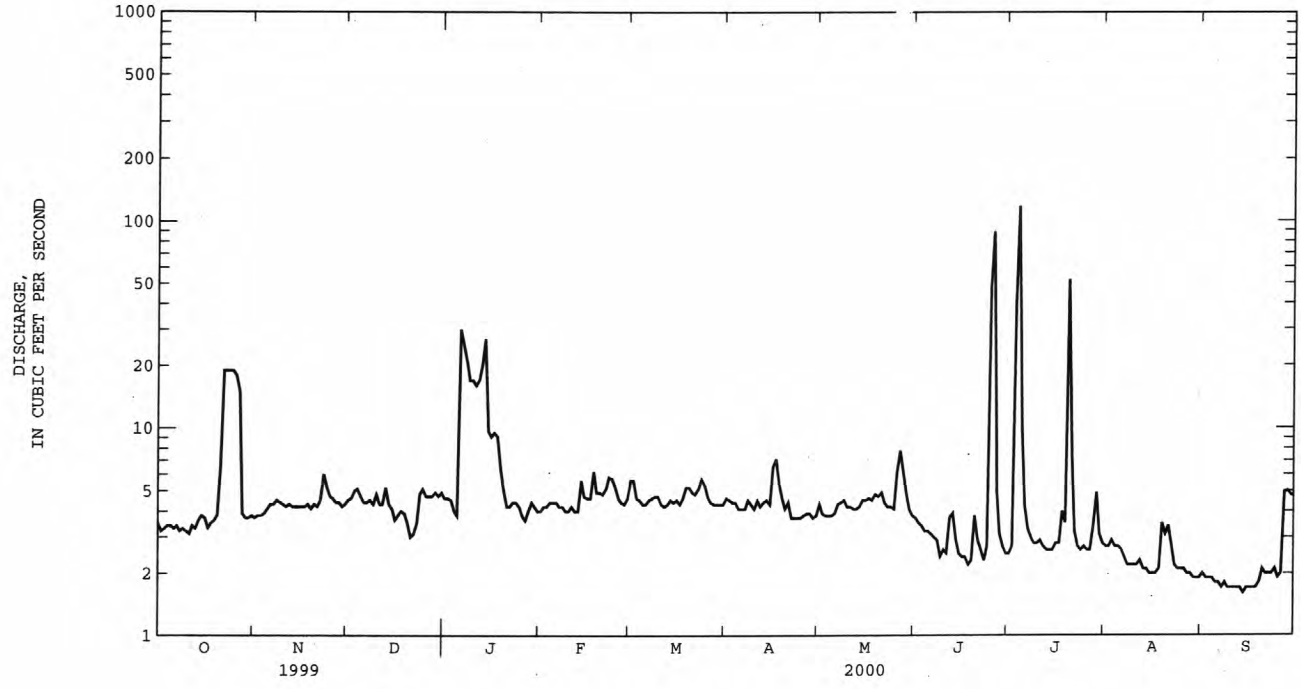
MEAN	7.74	9.87	8.26	7.84	9.80	12.0	17.9	71.3	55.9	21.3	8.21	8.59
MAX	13.0	17.7	19.8	9.86	14.3	23.1	37.4	136	151	56.7	17.0	16.4
(WY)	1997	1999	1998	2000	1998	1998	1998	1995	1998	1999	1998	1996
MIN	5.12	3.98	4.05	4.03	4.63	3.40	1.98	4.50	7.31	7.29	2.35	2.23
(WY)	1995	1996	1996	1996	2000	1996	1996	2000	2000	1995	2000	2000

PLATTE RIVER BASIN

06803170 MIDDLE CREEK AT SW 40th ST. AT LINCOLN, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1994 - 2000	
ANNUAL TOTAL	8661.9		1983.0			
ANNUAL MEAN	23.7		5.42		19.9	
HIGHEST ANNUAL MEAN					32.6	1998
LOWEST ANNUAL MEAN					5.42	2000
HIGHEST DAILY MEAN	423	Jul 1	118	Jul 4	1840	Jun 14 1998
LOWEST DAILY MEAN	3.0	Dec 21	1.6	Sep 14	.92	Aug 29 1995
ANNUAL SEVEN-DAY MINIMUM	3.2	Sep 15	1.7	Sep 9	1.2	Apr 21 1996
INSTANTANEOUS PEAK FLOW			352	Jul 4	4030	Jun 14 1998
INSTANTANEOUS PEAK STAGE			5.05	Jul 4	16.25	Jun 14 1998
ANNUAL RUNOFF (AC-FT)	17180		3930		14440	
10 PERCENT EXCEEDS	55		5.7		37	
50 PERCENT EXCEEDS	11		4.2		7.1	
90 PERCENT EXCEEDS	3.7		2.1		3.4	

e Estimated.



PLATTE RIVER BASIN

06803486 OAK CREEK AT AIR PARK ROAD AT LINCOLN, NE

LOCATION.--Lat 40°51'20", long 096°46'46", in NE ¼ NE ¼, sec.7, T.10 N., R.6 E., Lancaster County, Hydrologic Unit 10200203, on left bank at downstream of bridge on Air Park Road immediately west of NW 42nd Street in West Lincoln Industrial Park.

DRAINAGE AREA.--240 mi^2.

PERIOD OF RECORD.--October 1999 to September 2000.

GAGE.--Water-stage recorder. Elevation of gage is 1,142.86 ft above sea level. Nebraska Department of Natural Resources operated gage May 1987 to March 25, 1999 at present site and March 26, 1999 to March 14, 2000 at temporary site 1.0 mi downstream, both at same datum. Data collection platform at station.

REMARKS.--Record good except for periods of estimated record which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 8,730 ft^3/s, July 24, 1993, gage height 22.66 ft; minimum daily discharge, 2.6 ft^3/s July24, 1990, during period of gage operation by Nebraska Department of Natural Resources.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	97	28	29	e27	29	24	34	17	23	25	7.5
2	28	96	28	30	e28	31	25	34	15	23	24	6.6
3	28	94	30	29	e23	24	25	33	14	39	25	7.1
4	27	97	32	20	e26	23	23	31	14	48	23	9.5
5	27	99	30	28	30	22	22	32	12	23	20	9.8
6	27	99	28	32	24	23	22	33	11	19	20	8.6
7	28	99	27	34	18	22	22	34	11	17	21	7.6
8	27	100	28	62	18	23	e21	40	10	15	19	7.6
9	27	101	27	60	24	22	e21	33	9.8	13	16	8.0
10	26	101	26	62	22	22	21	19	8.9	11	12	8.0
11	25	101	25	66	20	20	23	17	8.6	19	6.5	7.3
12	26	100	26	56	16	19	24	15	18	55	5.6	7.2
13	27	100	24	60	e14	20	23	14	16	36	6.3	6.6
14	27	99	25	e70	e16	20	21	14	16	28	7.7	6.3
15	28	99	27	62	e19	18	e21	14	13	27	6.6	6.1
16	26	99	24	54	e18	20	e22	15	16	28	6.3	7.2
17	27	98	e23	54	e17	20	e23	16	15	29	5.9	5.8
18	26	98	e24	56	e17	20	e23	18	14	36	6.3	6.0
19	26	39	e23	56	19	22	24	20	13	34	17	5.2
20	27	29	e22	43	19	21	e23	22	27	33	14	7.4
21	26	29	e23	e38	24	22	23	17	25	29	27	6.6
22	83	31	e24	e45	25	22	e22	17	14	25	19	8.7
23	93	36	26	e42	28	24	e22	16	7.5	24	17	7.4
24	93	34	28	e38	28	27	e23	15	17	27	15	8.7
25	94	30	29	e35	27	e25	27	15	109	29	12	8.0
26	94	30	30	e33	23	e23	27	28	371	25	14	7.6
27	95	29	29	e34	20	19	28	32	92	23	12	6.9
28	94	29	29	e30	20	20	30	28	41	22	13	6.9
29	95	28	30	e28	25	21	30	20	30	23	9.9	6.0
30	95	28	30	e26	---	22	32	18	25	20	8.4	6.0
31	97	---	29	e25	---	23	---	18	---	20	7.4	---
TOTAL	1498	2149	834	1337	635	689	717	712	1010.8	823	441.9	218.2
MEAN	48.3	71.6	26.9	43.1	21.9	22.2	23.9	23.0	33.7	26.5	14.3	7.27
MAX	97	101	32	70	30	31	32	40	371	55	27	9.8
MIN	25	28	22	20	14	18	21	14	7.5	11	5.6	5.2
AC-FT	2970	4260	1650	2650	1260	1370	1420	1410	2000	1630	877	433

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2000, BY WATER YEAR (WY)

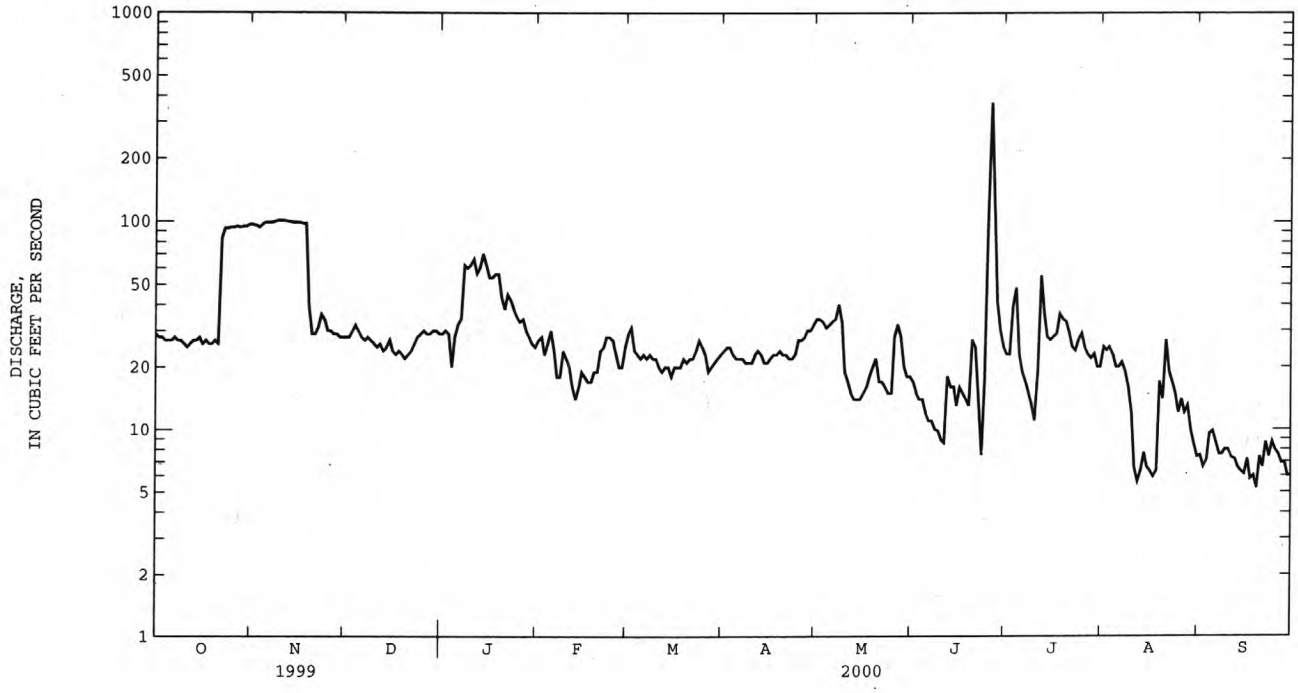
MEAN	48.3	71.6	26.9	43.1	21.9	22.2	23.9	23.0	33.7	26.5	14.3	7.27
MAX	48.3	71.6	26.9	43.1	21.9	22.2	23.9	23.0	33.7	26.5	14.3	7.27
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MIN	48.3	71.6	26.9	43.1	21.9	22.2	23.9	23.0	33.7	26.5	14.3	7.27
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000

PLATTE RIVER BASIN

06803486 OAK CREEK AT AIR PARK ROAD AT LINCOLN, NE--Continued

SUMMARY STATISTICS	FOR 2000 WATER YEAR	
ANNUAL TOTAL	11064.9	
ANNUAL MEAN	30.2	
HIGHEST DAILY MEAN	371	Jun 26
LOWEST DAILY MEAN	5.2	Sep 19
ANNUAL SEVEN-DAY MINIMUM	6.2	Sep 13
INSTANTANEOUS PEAK FLOW	584	Jun 26
INSTANTANEOUS PEAK STAGE	4.16	Jun 26
ANNUAL RUNOFF (AC-FT)	21950	
10 PERCENT EXCEEDS	61	
50 PERCENT EXCEEDS	24	
90 PERCENT EXCEEDS	8.5	

e Estimated.



PLATTE RIVER BASIN

06803500 SALT CREEK AT LINCOLN, NE

LOCATION.--Lat 40°50'49", long 096°40'54", in NW ¼ SW ¼ sec.7, T.10 N., R.7 E., Lancaster County, Hydrologic Unit 10200203 on right bank 135 ft downstream from bridge on North 27th Street at north edge of Lincoln, 1 mi downstream from Oak Creek and at mile 31.0.

DRAINAGE AREA.--685 mi^2.

PERIOD OF RECORD.--October 1949 to current year.

REVISED RECORDS.--WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,113.90 ft above sea level. Prior to July 27, 1979, water-stage recorder for stages above 6.2 ft on downstream side of bridge pier, 135 ft upstream at same datum, and nonrecording gage read twice daily. Data collection platform at station.

REMARKS.--Records good. Flood flow affected by several detention dams.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	173	89	78	126	138	107	121	99	116	108	82
2	106	168	91	79	106	122	100	114	93	113	103	76
3	95	166	119	80	105	110	100	106	89	354	150	72
4	96	165	103	e78	95	101	101	100	88	887	110	133
5	99	167	97	97	85	98	103	93	77	473	104	77
6	99	170	94	115	103	96	110	92	69	227	103	74
7	98	164	90	110	92	98	105	88	68	155	103	69
8	95	169	89	128	91	124	104	201	65	129	97	67
9	96	168	89	147	107	105	99	132	63	114	93	67
10	94	167	86	144	100	104	105	109	58	110	86	62
11	91	166	84	139	92	97	108	92	55	105	76	66
12	92	169	85	139	87	95	110	85	210	236	72	64
13	89	171	84	132	99	94	109	82	164	137	70	67
14	89	163	85	138	92	94	109	76	110	114	74	67
15	93	163	86	148	109	91	107	80	75	101	73	66
16	91	162	78	133	102	92	390	80	93	102	72	66
17	90	162	79	134	104	89	193	95	73	102	70	65
18	90	165	e82	138	118	122	160	98	72	264	68	64
19	90	111	e86	141	123	112	139	96	75	155	296	62
20	95	100	e74	97	122	102	129	104	409	495	120	148
21	98	94	78	110	128	101	129	117	121	297	301	71
22	171	147	84	140	121	98	120	92	92	164	128	131
23	227	249	87	120	218	151	115	89	77	146	110	73
24	214	140	90	87	144	150	118	85	178	132	100	77
25	216	113	84	124	131	118	113	87	608	138	95	71
26	216	99	92	103	115	108	119	365	1440	118	108	69
27	215	94	98	129	106	100	127	154	450	112	105	103
28	193	94	94	129	102	94	113	127	202	177	96	80
29	181	94	94	123	210	91	108	113	152	159	89	73
30	175	90	94	122	---	92	139	104	127	121	84	67
31	174	---	77	112	---	95	---	100	---	106	80	---
TOTAL	3987	4423	2742	3694	3333	3282	3789	3477	5552	6159	3344	2329
MEAN	129	147	88.5	119	115	106	126	112	185	199	108	77.6
MAX	227	249	119	148	218	151	390	365	1440	887	301	148
MIN	89	90	74	78	85	89	99	76	55	101	68	62
AC-FT	7910	8770	5440	7330	6610	6510	7520	6900	11010	12220	6630	4620

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2000, BY WATER YEAR (WY)

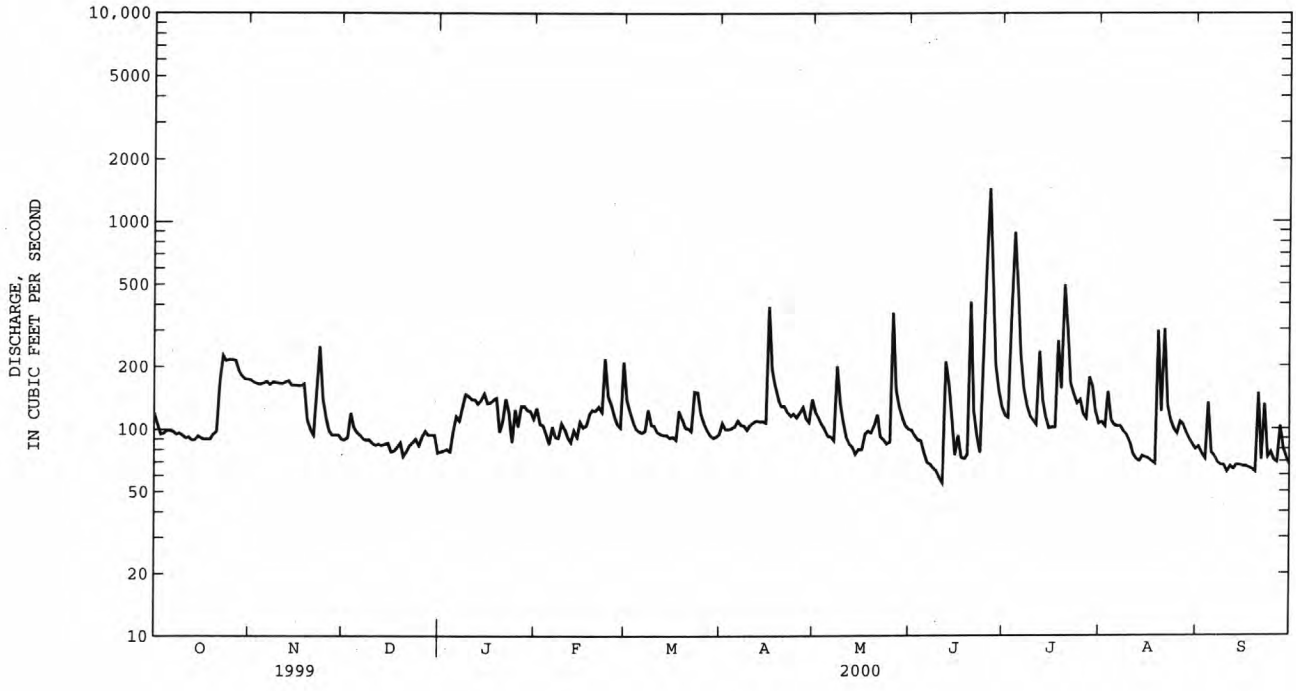
MEAN	174	117	97.3	106	173	334	284	400	502	343	187	175
MAX	1621	442	349	350	577	1972	1383	1693	3061	3205	704	1075
(WY)	1974	1999	1987	1974	1958	1987	1987	1996	1951	1993	1987	1989
MIN	35.2	36.3	30.6	33.6	39.9	45.5	52.6	49.9	58.8	48.8	44.6	47.0
(WY)	1956	1956	1957	1957	1957	1957	1956	1955	1958	1955	1955	1953

PLATTE RIVER BASIN

06803500 SALT CREEK AT LINCOLN, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1950 - 2000	
ANNUAL TOTAL	108156		46111			
ANNUAL MEAN	296		126		241	
HIGHEST ANNUAL MEAN					721	1987
LOWEST ANNUAL MEAN					81.4	1970
HIGHEST DAILY MEAN	4800	Apr 15	1440	Jun 26	22100	Jun 2 1951
LOWEST DAILY MEAN	74	Dec 20	55	Jun 11	21	Jul 10 1977
ANNUAL SEVEN-DAY MINIMUM	80	Dec 16	65	Jun 5	26	May 19 1956
INSTANTANEOUS PEAK FLOW			1960	Jun 26	28400	Jul 24 1993
INSTANTANEOUS PEAK STAGE			6.89	Jun 26	26.52	Jul 24 1993
ANNUAL RUNOFF (AC-FT)	214500		91460		174700	
10 PERCENT EXCEEDS	518		171		397	
50 PERCENT EXCEEDS	166		103		98	
90 PERCENT EXCEEDS	92		74		51	

e Estimated.



PLATTE RIVER BASIN

06803510 LITTLE SALT CREEK NEAR LINCOLN, NE

LOCATION.--Lat 40°53'36", long 096°40'52", in NW ¼ SW ¼ sec.30, T.11 N., R.7 E., Lancaster County, Hydrologic Unit 10200203, on left bank 10 ft downstream from county road bridge, 0.4 mi north of intersection of Interstate Highway 80 and North 27th Street north of Lincoln, and at mile 1.6.

DRAINAGE AREA.--43.6 mi^2.

PERIOD OF RECORD.--January 1969 to current year.

REVISED RECORDS.--WDR NE-77-1: 1969-73 (M).

GAGE.--Water-stage recorder. Datum of gage is 1,114.73 ft above sea level. Prior to Oct. 10, 1980, water-stage recorder at present site and datum 3.00 ft higher.

REMARKS.--Records fair except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	6.8	5.7	5.4	e3.7	12	8.0	8.7	1.8	4.2	3.1	2.9
2	1.7	6.9	5.4	e5.0	e3.8	8.1	8.6	8.2	1.7	4.4	3.0	2.8
3	1.8	7.6	6.5	e4.8	4.1	7.4	7.1	8.2	1.6	18	2.9	2.8
4	2.0	7.8	7.3	e4.4	4.5	6.8	7.1	8.4	1.5	22	2.9	3.1
5	2.0	7.6	6.0	e4.2	4.9	6.5	6.7	6.4	1.3	7.5	2.8	3.5
6	2.0	7.1	5.9	e4.5	4.8	6.4	6.1	5.2	1.4	4.9	2.6	3.2
7	2.1	7.2	5.9	e4.7	4.9	5.5	7.1	6.0	1.5	4.3	2.5	2.8
8	1.7	7.8	5.9	5.2	5.1	5.4	8.3	8.0	1.3	4.0	2.3	3.0
9	1.7	6.9	6.0	6.2	5.9	4.7	8.8	7.4	1.6	3.7	2.2	2.7
10	1.7	6.2	6.2	6.7	5.7	3.8	8.7	5.8	1.8	3.4	2.0	2.6
11	1.8	5.9	6.2	6.4	5.3	3.9	9.4	4.9	1.8	3.5	2.1	2.3
12	2.2	6.0	6.1	6.7	5.3	4.4	10	4.3	2.9	30	2.1	2.2
13	4.1	5.9	6.2	6.7	5.3	5.5	10	3.7	4.4	7.3	2.1	2.4
14	4.2	5.9	6.2	6.9	5.3	6.2	9.8	4.0	4.5	4.3	2.1	2.3
15	4.4	5.7	e5.2	6.9	6.4	6.2	9.6	3.9	2.5	4.0	2.4	2.5
16	4.7	5.8	e4.6	7.3	6.8	5.7	18	3.2	2.0	3.9	2.3	2.6
17	5.2	6.2	e4.8	6.7	6.0	5.9	16	2.9	2.1	4.0	2.5	2.8
18	5.6	6.6	e4.4	6.3	6.2	6.7	11	2.8	2.4	5.3	2.3	2.6
19	5.9	6.1	e4.2	6.1	6.8	9.3	8.7	3.7	2.3	5.1	4.4	2.6
20	6.2	6.4	e3.8	5.4	7.1	7.3	7.1	3.5	6.9	4.7	4.2	3.4
21	6.6	6.3	e4.5	5.0	9.0	7.0	8.1	3.1	3.9	4.3	3.8	3.3
22	6.4	6.6	e5.0	e4.6	10	7.3	9.0	4.0	1.8	3.8	3.2	4.0
23	6.4	10	5.4	e4.3	13	8.1	8.6	4.2	1.6	4.4	4.9	3.8
24	6.2	6.0	5.4	e4.1	11	11	8.7	3.6	6.8	4.3	3.9	3.7
25	6.2	4.3	5.4	e4.0	9.0	8.2	7.5	3.4	82	3.8	3.6	3.2
26	6.4	4.4	5.3	e3.8	6.8	6.9	8.4	7.5	100	3.7	3.2	3.5
27	7.0	4.5	5.4	e3.4	6.6	5.2	7.9	10	9.5	3.5	3.2	3.5
28	7.3	4.6	5.5	e3.2	7.0	4.4	8.1	5.7	5.6	3.6	3.3	3.6
29	7.4	4.6	6.4	e3.4	7.9	4.9	8.0	4.3	4.8	3.5	3.1	3.6
30	6.9	5.2	6.1	e3.5	---	6.1	7.9	3.2	4.2	3.4	2.6	3.6
31	7.1	---	5.7	e3.6	---	5.9	---	2.2	---	3.1	3.0	---
TOTAL	136.9	188.9	172.6	159.4	188.2	202.7	268.3	160.4	267.5	189.9	90.6	90.9
MEAN	4.42	6.30	5.57	5.14	6.49	6.54	8.94	5.17	8.92	6.13	2.92	3.03
MAX	7.4	10	7.3	7.3	13	12	18	10	100	30	4.9	4.0
MIN	1.7	4.3	3.8	3.2	3.7	3.8	6.1	2.2	1.3	3.1	2.0	2.2
AC-FT	272	375	342	316	373	402	532	318	531	377	180	180

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2000, BY WATER YEAR (WY)

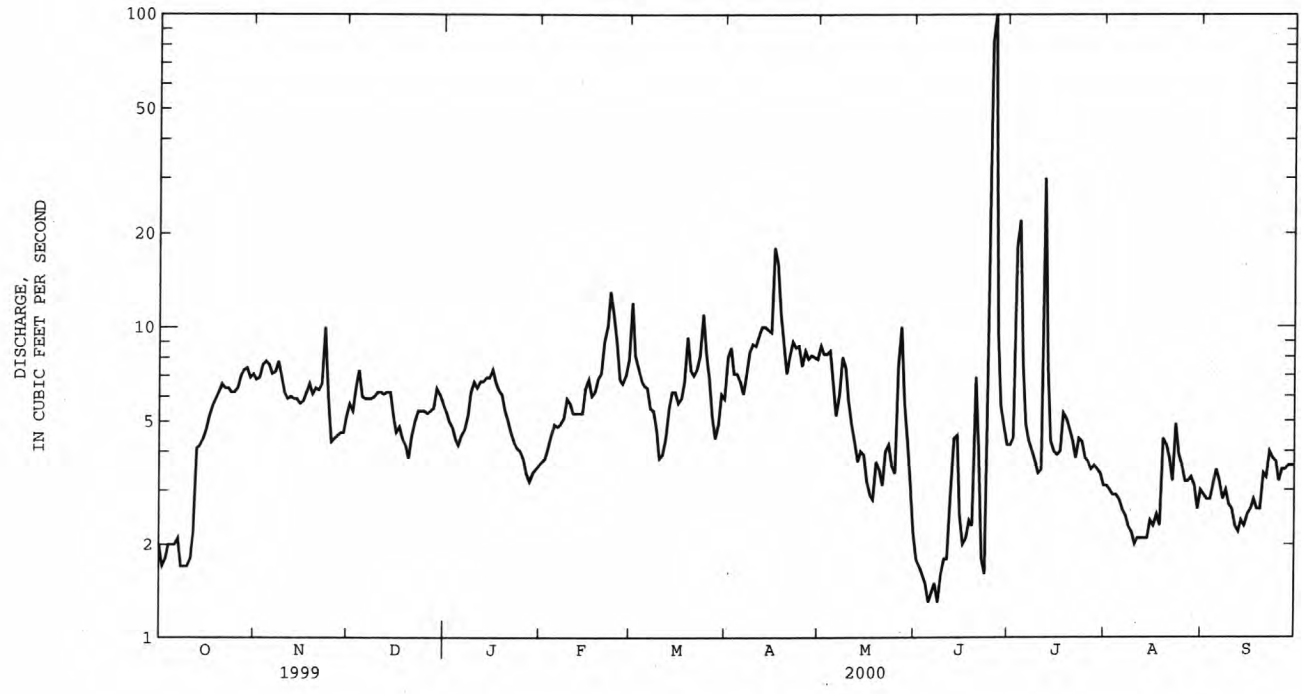
MEAN	10.1	7.62	6.62	7.23	12.0	25.4	17.2	23.0	24.9	26.9	11.6	10.1
MAX	87.5	20.5	16.8	25.3	42.3	134	68.6	85.3	180	379	110	87.2
(WY)	1987	1973	1987	1973	1971	1979	1987	1996	1984	1993	1987	1989
MIN	2.13	2.32	1.69	2.28	3.10	3.57	3.86	3.54	2.42	1.60	1.74	.96
(WY)	1977	1977	1977	1977	1972	1972	1970	1989	1981	1970	1976	1971

PLATTE RIVER BASIN

06803510 LITTLE SALT CREEK NEAR LINCOLN, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1969 - 2000	
ANNUAL TOTAL	5660.0		2116.3			
ANNUAL MEAN	15.5		5.78		15.3	
HIGHEST ANNUAL MEAN					51.7	1993
LOWEST ANNUAL MEAN					3.59	1970
HIGHEST DAILY MEAN	697	Jun 30	100	Jun 26	5020	Jul 24 1993
LOWEST DAILY MEAN	1.7	Oct 2	1.3	Jun 5	.20	Sep 29 1969
ANNUAL SEVEN-DAY MINIMUM	1.9	Oct 5	1.5	Jun 3	.28	Sep 28 1969
INSTANTANEOUS PEAK FLOW			460	Jun 25	8480	Jul 24 1993
INSTANTANEOUS PEAK STAGE			5.98	Jun 25	20.58	Jul 24 1993
ANNUAL RUNOFF (AC-FT)	11230		4200		11120	
10 PERCENT EXCEEDS	17		8.2		19	
50 PERCENT EXCEEDS	7.1		5.0		5.8	
90 PERCENT EXCEEDS	3.9		2.3		2.3	

e Estimated.



PLATTE RIVER BASIN

06803513 SALT CREEK AT 70th STREET AT LINCOLN, NE

LOCATION.--Lat 40°53'10", long 096°37'26", in SW ¼ SW ¼ sec. 27, T.11 N., R.7 W., Lancaster County, Hydrologic Unit 10200203, on left bank downstream from bridge.

DRAINAGE AREA.--753 mi^2.

PERIOD OF RECORD.--August 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,095.85 ft above sea level. Data collection platform at station.

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	158	100	108	152	172	110	135	98	120	113	82
2	122	157	101	109	142	143	101	121	91	119	112	80
3	114	157	129	110	135	137	101	115	89	379	195	76
4	117	153	113	102	130	126	104	109	86	906	130	128
5	114	152	111	117	121	120	100	103	84	439	114	80
6	112	155	108	133	132	115	102	102	79	230	110	77
7	110	152	106	131	123	110	100	101	90	155	111	73
8	108	157	105	142	119	135	103	229	76	129	107	73
9	106	158	105	157	128	117	98	141	74	114	102	72
10	104	156	105	158	125	118	101	123	72	111	93	67
11	105	156	104	156	121	112	106	107	69	109	88	68
12	104	155	104	158	120	106	106	99	238	369	83	68
13	101	155	105	150	121	107	103	91	167	151	77	68
14	101	151	105	154	116	109	102	85	155	122	81	66
15	105	151	112	165	124	104	102	89	95	114	81	67
16	103	150	111	155	120	106	432	87	108	112	82	67
17	102	151	109	153	118	104	199	94	91	116	80	65
18	105	153	113	158	133	129	159	103	86	297	78	66
19	106	124	117	160	139	133	137	103	88	162	320	66
20	107	104	100	138	138	118	127	100	450	443	140	145
21	107	100	103	137	143	116	124	121	135	284	331	83
22	142	120	110	162	140	113	117	96	105	165	141	132
23	195	295	110	150	239	153	114	93	101	150	117	84
24	187	139	114	128	167	172	115	91	195	136	105	88
25	189	119	108	150	153	127	113	93	871	136	99	86
26	191	106	112	140	134	116	110	407	1460	123	100	82
27	190	101	117	150	126	110	132	184	460	118	102	99
28	175	100	115	151	124	105	111	131	201	172	93	90
29	167	101	118	149	231	103	109	113	155	160	88	84
30	160	101	120	146	---	98	139	106	134	128	84	80
31	159	---	108	142	---	100	---	101	---	116	81	---
TOTAL	4043	4287	3398	4419	4014	3734	3777	3773	6203	6385	3638	2462
MEAN	130	143	110	143	138	120	126	122	207	206	117	82.1
MAX	195	295	129	165	239	172	432	407	1460	906	331	145
MIN	101	100	100	102	116	98	98	85	69	109	77	65
AC-FT	8020	8500	6740	8770	7960	7410	7490	7480	12300	12660	7220	4880

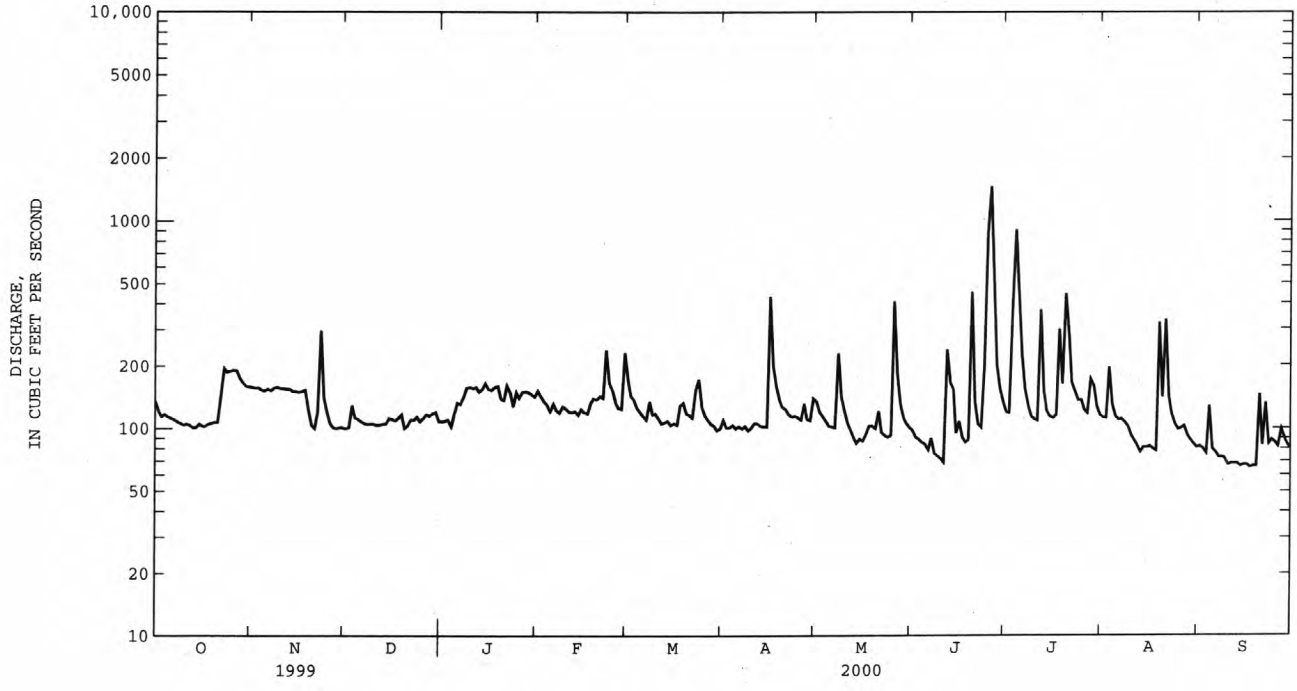
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2000, BY WATER YEAR (WY)

MEAN	155	239	148	147	206	227	343	821	639	356	193	158
MAX	307	471	220	162	327	455	621	1644	1199	628	367	279
(WY)	1999	1999	1998	1998	1998	1998	1998	1995	1998	1999	1996	1996
MIN	96.4	99.3	107	115	138	120	126	122	207	204	114	82.1
(WY)	1996	1996	1996	1996	2000	2000	2000	2000	2000	1995	1995	2000

PLATTE RIVER BASIN

06803513 SALT CREEK AT 70th STREET AT LINCOLN, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1994 - 2000	
ANNUAL TOTAL	115543		50133			
ANNUAL MEAN	317		137		303	
HIGHEST ANNUAL MEAN					400	1998
LOWEST ANNUAL MEAN					137	2000
HIGHEST DAILY MEAN	4980	Jul 1	1460	Jun 26	10200	Jun 14 1998
LOWEST DAILY MEAN	100	Nov 21	65	Sep 17	65	Sep 17 2000
ANNUAL SEVEN-DAY MINIMUM	101	Nov 26	66	Sep 13	66	Sep 13 2000
INSTANTANEOUS PEAK FLOW			3190	Jun 25	15800	Jun 14 1998
INSTANTANEOUS PEAK STAGE			11.44	Jun 25	23.65	Jun 14 1998
ANNUAL RUNOFF (AC-FT)	229200		99440		219300	
10 PERCENT EXCEEDS	546		167		528	
50 PERCENT EXCEEDS	175		114		161	
90 PERCENT EXCEEDS	109		84		99	



PLATTE RIVER BASIN

06803520 STEVENS CREEK NEAR LINCOLN, NE

LOCATION.--Lat 40°51'25", long 096°35'42", in NW ¼ NE ¼ sec.11, T.10 N., R.7 E., Lancaster County, Hydrologic Unit 10200203, on left bank 10 ft upstream, 20 ft west from county road bridge on Havelock Avenue, 1.6 mi east of 70th Street at east edge of Lincoln, and at mile 3.2.

DRAINAGE AREA.--47.8 mi^2.

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,123.57 ft above sea level. Oct. 1968 to Aug. 14, 1997 at present site and datum 2.0 ft higher. Data collection platform at station.

REMARKS.--Records fair except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	3.3	4.7	4.7	e4.5	5.3	3.5	4.0	2.4	3.6	.88	.85
2	2.4	3.3	4.8	e4.5	24	4.8	3.6	4.1	2.2	3.3	.74	.82
3	2.6	3.3	5.0	e4.4	13	4.3	3.3	3.6	2.1	3.9	1.0	.74
4	2.7	3.5	4.8	e3.9	5.7	4.1	3.2	3.6	2.1	10	1.6	.90
5	2.8	3.4	4.5	e3.6	7.2	4.0	3.4	3.4	2.0	9.5	1.1	.99
6	2.8	3.4	4.6	e4.0	4.2	3.8	3.3	3.2	2.0	5.6	.94	1.0
7	2.7	3.5	4.7	4.5	4.3	3.7	3.1	3.3	2.0	3.6	.89	.81
8	2.7	3.7	4.8	4.8	4.3	4.3	3.4	4.0	2.0	2.8	.89	.82
9	2.7	3.7	4.6	5.0	4.6	3.8	3.4	4.3	1.9	2.3	.93	.76
10	2.7	3.7	4.7	5.1	4.4	3.5	3.3	4.1	1.8	2.0	.73	.77
11	2.6	3.6	4.6	4.7	3.9	3.6	3.5	3.8	1.9	1.8	.88	.71
12	2.7	3.5	4.7	4.4	3.9	3.5	3.4	3.4	2.1	29	.95	.68
13	2.7	3.6	4.6	4.8	4.2	3.5	3.4	3.0	2.2	7.0	.83	.72
14	2.7	3.6	4.6	4.4	4.1	3.6	3.4	2.8	3.4	2.9	.89	.71
15	2.8	3.5	e4.4	4.5	4.4	3.6	3.3	2.9	2.1	2.1	.88	.64
16	2.8	3.6	e4.3	4.4	4.1	3.3	6.5	2.8	1.8	1.7	.93	.63
17	2.7	3.7	e4.2	4.5	4.0	3.1	7.8	2.9	1.8	1.7	.90	.65
18	2.8	3.8	e4.1	4.6	4.1	3.4	5.4	2.8	1.8	9.7	.82	.63
19	2.9	3.5	e3.8	4.5	4.2	4.1	5.2	2.7	1.8	5.3	2.1	.58
20	3.0	3.5	e3.5	4.3	4.3	4.3	4.5	3.0	14	6.2	1.7	.82
21	3.1	3.5	e3.3	4.2	5.3	3.8	4.1	3.1	9.7	7.6	3.3	.79
22	3.1	3.9	e3.7	4.3	6.2	3.8	3.9	2.8	4.9	2.6	2.3	.93
23	3.1	8.3	e4.1	4.3	8.9	4.0	3.9	2.9	4.0	1.8	1.6	.87
24	3.1	5.9	4.6	e4.0	8.4	4.6	4.0	2.5	10	1.4	1.2	.79
25	3.2	4.5	5.0	e3.8	6.1	4.3	3.8	2.4	146	1.3	1.2	.93
26	3.1	4.2	5.1	e3.5	4.8	3.9	3.8	4.4	275	1.1	1.1	.82
27	3.2	4.1	4.9	e3.0	4.5	3.4	4.0	3.8	21	.98	.99	.63
28	3.1	4.1	4.9	e3.5	4.3	3.2	4.1	3.1	11	1.1	.97	.61
29	3.4	3.9	5.2	e3.8	4.7	3.2	3.9	2.8	5.8	2.6	.91	.65
30	3.1	4.1	5.1	e3.9	---	3.2	3.7	2.5	4.3	1.5	.86	.64
31	3.1	---	4.7	e4.0	---	3.2	---	2.4	---	1.0	.84	---
TOTAL	88.9	117.2	140.6	131.9	170.6	118.2	119.1	100.4	545.1	136.98	35.85	22.89
MEAN	2.87	3.91	4.54	4.25	5.88	3.81	3.97	3.24	18.2	4.42	1.16	.76
MAX	3.4	8.3	5.2	5.1	24	5.3	7.8	4.4	275	29	3.3	1.0
MIN	2.4	3.3	3.3	3.0	3.9	3.1	3.1	2.4	1.8	.98	.73	.58
AC-FT	176	232	279	262	338	234	236	199	1080	272	71	45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2000, BY WATER YEAR (WY)

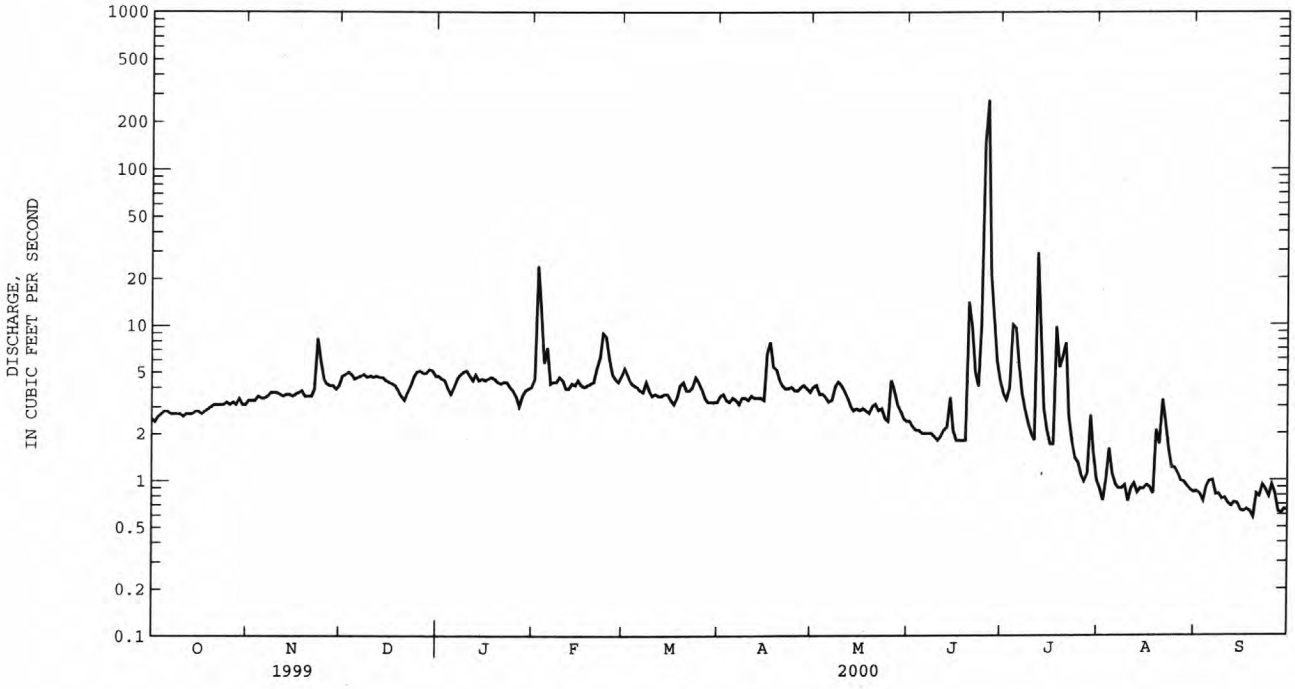
MEAN	13.8	7.08	6.49	7.26	13.3	30.9	26.2	38.6	32.5	32.8	11.8	16.6
MAX	151	29.9	30.7	34.9	59.9	192	118	239	228	402	89.6	260
(WY)	1974	1997	1987	1974	1983	1979	1987	1995	1984	1993	1982	1989
MIN	.28	.57	.64	.83	1.13	1.33	1.28	1.29	.41	.27	.066	.13
(WY)	1977	1977	1977	1982	1978	1981	1981	1981	1981	1976	1976	1976

PLATTE RIVER BASIN

06803520 STEVENS CREEK NEAR LINCOLN, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1969 - 2000	
ANNUAL TOTAL	9438.9		1727.72			
ANNUAL MEAN	25.9		4.72		19.8	
MEDIAN OF ANNUAL MEANS					18	
HIGHEST ANNUAL MEAN					69.3	1993
LOWEST ANNUAL MEAN					1.84	1976
HIGHEST DAILY MEAN	838	Apr 15	275	Jun 26	4810	Sep 8 1989
LOWEST DAILY MEAN	2.0	Sep 27	.58	Sep 19	.00	Jul 31 1977
ANNUAL SEVEN-DAY MINIMUM	2.3	Sep 26	.65	Sep 13	.00	Jul 29 1977
INSTANTANEOUS PEAK FLOW			909	Jun 26	*12900	Sep 8 1989
INSTANTANEOUS PEAK STAGE			9.43	Jun 26	19.57	Jun 13 1984
ANNUAL RUNOFF (AC-FT)	18720		3430		14350	
10 PERCENT EXCEEDS	38		5.1		25	
50 PERCENT EXCEEDS	9.2		3.5		4.2	
90 PERCENT EXCEEDS	3.0		.89		.88	

e Estimated.
* Stage 19.42 ft.



PLATTE RIVER BASIN

06803525 SALT CREEK BELOW STEVENS CREEK, NEAR WAVERLY, NE

LOCATION.--Lat 40°54'18", long 096°35'09", in NW ¼ SW ¼ sec.24, T.11 N., R.7 E., Lancaster County, Hydrologic Unit 10200203, at bridge 0.5 mi north of Interstate Highway 80 and 3 mi southwest of Waverly.

DRAINAGE AREA.--815 mi^2.

PERIOD OF RECORD.--Water years 1971-1992, January 1994 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)
OCT											
14...	1415	112	5.12	1140	3770	9.0	99	7.9	6770	21.5	16.8
NOV											
15...	1230	160	3.42	1090	2520	12.4	118	7.4	4620	19.0	10.5
DEC											
08...	1200	110	4.41	963	3240	10.9	93	7.9	5560	7.0	6.0
JAN											
24...	0900	110	3.61	788	2650	12.1	88	8.5	4970	-3.0	.0
FEB											
16...	1400	140	4.32	1200	3180	14.1	120	8.3	5360	5.5	6.5
MAR											
22...	1130	105	--	--	--	10.4	100	7.6	5260	14.5	11.5
APR											
26...	1300	115	4.48	1020	3300	11.8	135	7.7	6010	25.5	19.0
MAY											
22...	1100	85	4.72	796	3470	10.7	128	6.8	6550	28.0	21.0
JUN											
07...	1100	112	5.50	1220	4040	10.9	130	6.9	6880	26.5	21.0
JUL											
06...	0930	310	2.07	1270	1520	5.3	66	7.6	2800	28.0	23.5
AUG											
02...	1030	100	4.55	903	3340	11.9	148	7.8	5190	22.0	23.5
SEP											
05...	1030	74	5.22	767	3840	12.5	148	7.9	6400	20.0	20.5

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)
OCT											
14...	370	95.5	31.2	16.6	28	1230	87	344	1810	.8	23.4
NOV											
15...	320	84.8	27.2	10.9	20	822	84	276	1160	.6	16.5
DEC											
08...	360	97.2	29.5	13.2	24	1040	86	345	1530	.7	24.6
JAN											
24...	330	86.5	26.7	11.9	20	834	84	307	1220	.6	22.2
FEB											
16...	360	96.5	29.5	2.7	23	1000	86	325	1530	.6	24.7
MAR											
22...	--	89.1	E28.2	13.5	--	971	--	307	1440	.8	23.2
APR											
26...	360	93.8	30.3	13.4	25	1080	86	288	1570	.8	23.9
MAY											
22...	350	91.2	28.9	13.9	27	1150	87	273	1690	.7	24.9
JUN											
07...	360	91.2	31.7	16.0	32	1410	89	288	1950	.9	22.6
JUL											
06...	210	60.4	15.3	14.4	14	465	81	156	702	.5	18.6
AUG											
02...	310	79.4	27.4	15.2	27	1110	88	247	1640	.8	19.5
SEP											
05...	340	87.1	30.1	14.0	31	1320	89	240	1880	.8	22.0

PLATTE RIVER BASIN

06803525 SALT CREEK BELOW STEVENS CREEK, NEAR WAVERLY, NE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4) (71846)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3) (71851)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT										
14...	329	4.77	6.3	6.14	1.20	5.30	1.66	1.52	.462	1.5
NOV										
15...	216	1.70	2.7	2.18	1.02	4.52	1.24	.720	.219	.98
DEC										
08...	275	6.88	11	8.86	1.54	6.83	1.87	1.08	.329	4.0
JAN										
24...	250	3.27	4.2	4.21	2.23	9.87	2.56	1.08	.330	.92
FEB										
16...	274	4.63	6.0	5.97	2.22	9.81	2.54	1.06	.323	1.4
MAR										
22...	261	6.28	8.6	8.08	1.21	5.34	1.52	1.03	.312	2.3
APR										
26...	287	6.03	7.4	7.77	1.38	6.10	1.96	1.91	.581	1.4
MAY										
22...	289	3.88	5.6	4.99	1.01	4.48	1.72	2.31	.703	1.7
JUN										
07...	336	9.05	10	11.6	.764	3.38	1.42	2.14	.652	.99
JUL										
06...	138	1.88	3.9	2.43	1.99	8.81	2.42	1.42	.432	2.0
AUG										
02...	284	6.37	8.4	8.20	.982	4.35	1.61	2.06	.628	2.0
SEP										
05...	319	6.36	8.0	8.18	.599	2.65	1.26	2.17	.659	1.7

DATE	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)
OCT										
14...	7.9	3.34	1.09	1.71	8.9	9.4	1100	1100	--	--
NOV										
15...	3.9	1.85	.602	.813	22	5.3	2300	1400	5	115
DEC										
08...	13	4.18	1.36	1.66	9.0	27	>1400	>920	--	--
JAN										
24...	6.7	2.10	.685	.854	1.8	6.9	1100	1000	--	--
FEB										
16...	8.5	3.35	1.09	1.28	2.9	7.5	1800	3900	3	96.8
MAR										
22...	10	4.30	1.40	1.77	16	9.3	800	2400	--	--
APR										
26...	9.4	3.78	1.23	1.64	10	8.9	2900	760	--	--
MAY										
22...	7.3	3.31	1.08	1.40	84	9.3	3100	2300	7	35.1
JUN										
07...	11	3.05	.994	1.18	69	11	3400	1900	--	--
JUL										
06...	6.3	1.72	.561	1.01	7.4	18	3600	880	--	--
AUG										
02...	10	4.96	1.62	2.16	7.4	9.9	4900	2500	7	38.8
SEP										
05...	9.3	3.87	1.26	1.50	6.2	9.4	5100	2300	--	--

PLATTE RIVER BASIN

06803525 SALT CREEK BELOW STEVENS CREEK, NEAR WAVERLY, NE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
OCT										
14...	--	--	--	--	--	--	--	--	--	--
NOV										
15...	E.1	<1	2	570	<1	256	<.1	E2	<1	<31
DEC										
08...	--	--	--	--	--	--	--	--	--	--
JAN										
24...	--	--	--	--	--	--	--	--	--	--
FEB										
16...	E.1	<1	3	320	E1	457	<.3	E2	<1	<31
MAR										
22...	--	--	--	--	--	--	--	--	--	--
APR										
26...	--	--	--	--	--	--	--	--	--	--
MAY										
22...	<.1	1	3	150	2	493	<.3	E1	<1	E27
JUN										
07...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	--	--	--	--	--	--	--	--	--	--
AUG										
02...	<.4	E1	3	1100	2	52	<.3	E2	<1	<31
SEP										
05...	--	--	--	--	--	--	--	--	--	--

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PLATTE RIVER BASIN

06803530 ROCK CREEK NEAR CERESCO, NE

LOCATION.--Lat 41°00'56", long 096°32'39", in NE ¼ NE ¼ sec.17, T.12 N., R.8 E., Lancaster County, Hydrologic Unit 10200203, on right bank 20 ft downstream from bridge on east-west county road, 5.7 mi southeast of Ceresco, and at mile 7.6.

DRAINAGE AREA.--120 mi^2.

PERIOD OF RECORD.--April 1970 to current year.

REVISED RECORDS.--WDR NE-76-1: 1975(M). WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,109.18 ft above sea level. Apr. 1970 to Feb. 6, 1980 at present site and datum 6.0 ft higher; Feb 7, 1980 to July 13, 1981 at present site and datum 3.0 ft higher; July 14, 1981 to Feb. 29, 1984 on left bank 30 ft downstream from bridge at datum 3.0 ft higher; Mar. 1, 1984 to May 28, 1984 wire weight gage only, at datum 3.0 ft higher; May 28, 1984 to Apr. 4, 1997 at datum 3.0 ft higher.

REMARKS.--Record fair except for estimated periods which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

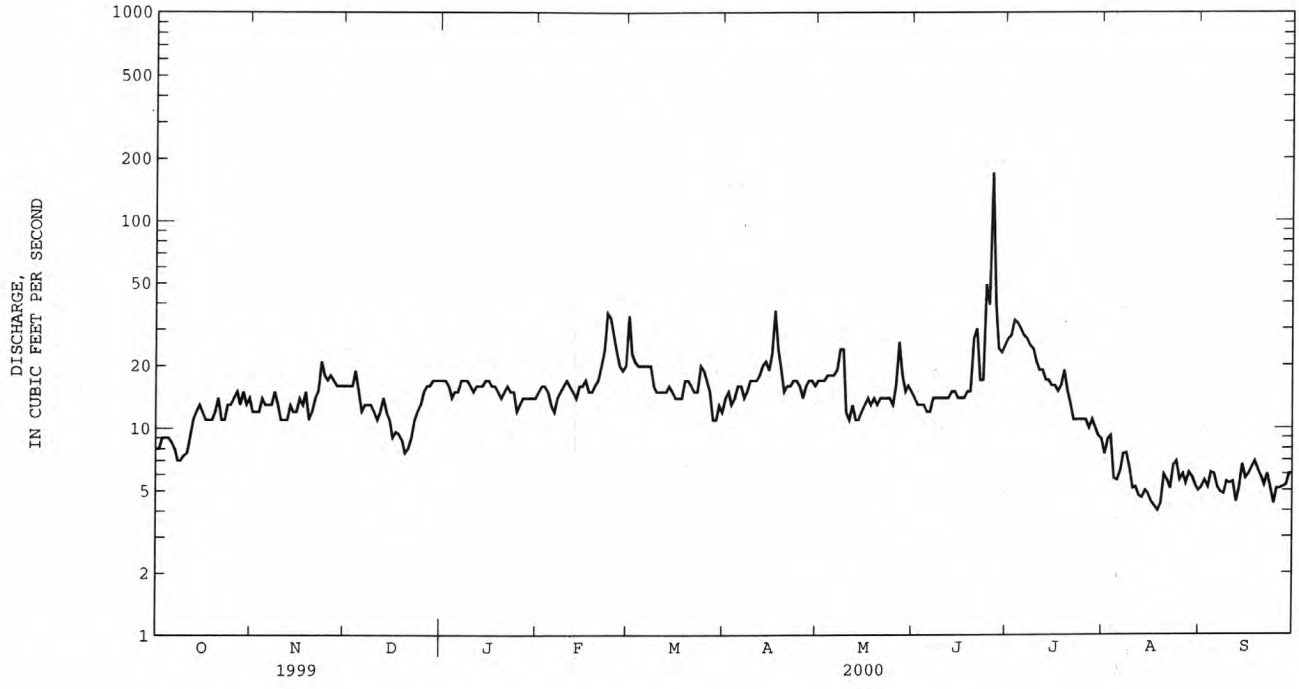
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e8.0	12	16	e17	e15	35	14	17	14	27	7.5	5.2
2	e8.0	12	16	e17	e16	23	15	17	13	28	8.9	5.6
3	e9.0	12	16	e16	e16	21	13	17	13	33	9.2	5.2
4	e9.0	14	19	e14	e15	20	14	18	13	32	5.7	6.1
5	e9.0	13	15	e15	e13	20	16	18	12	30	e5.6	6.0
6	e8.6	13	12	e15	e12	20	16	18	12	28	e6.2	5.2
7	e8.0	13	13	e17	e14	20	14	19	14	27	7.5	4.9
8	e7.0	15	13	e17	e15	20	15	24	14	25	7.6	4.8
9	e7.0	13	13	e17	e16	16	17	24	14	24	6.4	5.5
10	e7.4	11	12	16	e17	15	17	12	14	21	5.1	5.4
11	e7.6	11	11	15	e16	15	17	11	14	19	5.2	5.5
12	e9.0	11	12	16	e15	15	18	13	14	19	4.7	4.4
13	11	13	14	e16	e14	15	20	11	15	e17	4.6	5.1
14	12	12	12	e16	e16	16	21	11	15	17	5.0	6.7
15	13	12	e11	e17	e16	15	19	12	14	16	4.8	5.7
16	12	14	e9.0	e17	e17	14	23	13	14	16	4.4	6.0
17	11	13	e9.6	e16	15	14	37	14	14	15	4.2	6.4
18	11	15	e9.4	e16	15	14	24	13	15	16	4.0	6.9
19	11	11	e8.8	e15	16	17	19	14	15	19	4.3	6.3
20	12	12	e7.6	e14	17	17	15	13	27	15	6.0	5.8
21	14	14	e8.0	e15	20	16	16	14	30	13	5.6	5.3
22	11	15	e9.0	e16	24	15	16	14	17	11	5.1	6.0
23	11	21	e11	e15	36	15	17	14	17	11	6.6	5.1
24	13	18	e12	e15	34	20	17	14	49	11	6.9	4.3
25	13	17	e13	e12	28	19	16	13	39	11	5.6	5.1
26	14	18	e15	e13	23	17	14	16	170	11	6.0	5.1
27	15	17	e16	e14	20	15	16	26	39	10	5.4	5.2
28	13	16	e16	e14	19	11	17	18	24	11	6.1	5.3
29	15	16	e17	e14	20	11	17	15	23	10	5.8	6.0
30	13	16	e17	e14	---	13	16	16	25	9.2	5.3	6.0
31	14	---	e17	e14	---	12	---	15	---	8.9	5.0	---
TOTAL	336.6	420	400.4	475	530	526	526	484	723	561.1	180.3	166.1
MEAN	10.9	14.0	12.9	15.3	18.3	17.0	17.5	15.6	24.1	18.1	5.82	5.54
MAX	15	21	19	17	36	35	37	26	170	33	9.2	6.9
MIN	7.0	11	7.6	12	12	11	13	11	12	8.9	4.0	4.3
AC-FT	668	833	794	942	1050	1040	1040	960	1430	1110	358	329
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2000, BY WATER YEAR (WY)												
MEAN	23.1	16.9	14.8	15.6	32.9	56.7	43.0	64.8	71.3	56.1	47.1	24.0
MAX	191	45.5	44.8	63.3	116	260	236	237	272	648	527	128
(WY)	1987	1978	1985	1973	1983	1979	1984	1996	1998	1993	1987	1989
MIN	3.85	5.23	5.26	3.93	7.92	8.41	7.40	10.2	5.34	3.07	2.08	3.86
(WY)	1977	1977	1977	1977	1979	1972	1971	1976	1976	1976	1976	1971

PLATTE RIVER BASIN

06803530 ROCK CREEK NEAR CERESCO, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1971 - 2000	
ANNUAL TOTAL	16135.6		5328.5			
ANNUAL MEAN	44.2		14.6		38.9	
MEDIAN OF ANNUAL MEANS					32	
HIGHEST ANNUAL MEAN					123	1987
LOWEST ANNUAL MEAN					8.68	1976
HIGHEST DAILY MEAN	1590	Jun 27	170	Jun 26	11400	Aug 25 1987
LOWEST DAILY MEAN	7.0	Sep 28	4.0	Aug 18	.25	Jul 13 1976
ANNUAL SEVEN-DAY MINIMUM	7.6	Sep 24	4.5	Aug 13	1.1	Jul 11 1976
INSTANTANEOUS PEAK FLOW			269	Jun 26	*23300	Aug 25 1987
INSTANTANEOUS PEAK STAGE			5.62	Jun 26	20.50	May 22 1998
ANNUAL RUNOFF (AC-FT)	32000		10570		28180	
10 PERCENT EXCEEDS	54		20		46	
50 PERCENT EXCEEDS	20		14		13	
90 PERCENT EXCEEDS	10		5.7		6.0	

e Estimated.
* Includes road overflow; stage 19.60 ft, from floodmark.



PLATTE RIVER BASIN

06803555 SALT CREEK AT GREENWOOD, NE

LOCATION.--Lat 40°57'56", long 096°27'01", at center of sec.31, T.12 N., R.9 E., Cass County, Hydrologic Unit 10200203, on right bank just downstream from county road bridge, 0.5 mi west of Greenwood, and at mile 13.0.

DRAINAGE AREA.--1,050 mi^2.

PERIOD OF RECORD.--November 1951 to current year. Records furnished by Corps of Engineers prior to Oct. 1, 1972.

REVISED RECORDS.--WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,068.14 ft above sea level. Prior to Nov. 5, 1964, nonrecording gage at same site and datum. Data collection platform at station.

REMARKS.--Records fair except for period of estimated record, which is poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	219	232	188	210	192	430	161	169	141	194	156	111
2	192	221	187	205	192	407	159	170	133	177	146	110
3	176	220	187	202	192	366	158	167	125	340	140	105
4	170	223	191	199	186	332	156	164	121	887	159	104
5	169	228	189	193	181	305	153	161	114	791	154	114
6	166	225	184	195	177	284	151	158	110	423	152	112
7	166	225	185	201	175	271	148	155	107	285	147	108
8	162	228	187	204	173	258	146	161	108	224	142	104
9	159	230	184	208	169	255	145	178	103	199	141	102
10	157	230	177	213	164	247	144	177	99	183	136	94
11	154	228	174	215	165	239	144	175	96	173	131	89
12	153	228	175	218	165	227	143	169	104	435	126	87
13	152	230	172	218	163	215	144	158	150	308	120	87
14	149	231	171	216	161	208	144	153	180	205	117	89
15	152	226	171	216	165	202	139	146	153	178	112	92
16	154	229	171	216	165	191	179	142	124	164	110	92
17	150	234	169	215	165	188	313	146	121	155	109	94
18	150	240	e170	214	171	181	308	151	115	209	107	94
19	152	235	e160	215	177	183	290	149	112	334	119	97
20	158	217	e130	212	180	180	255	145	415	323	287	110
21	162	206	e140	204	184	176	228	144	293	476	209	115
22	164	196	e180	200	207	170	212	145	174	277	312	159
23	170	233	e200	201	314	165	202	139	141	207	172	128
24	189	268	e250	197	410	177	194	133	208	191	146	108
25	208	251	278	191	410	185	189	130	580	178	128	113
26	228	230	244	192	386	183	184	147	3600	170	126	101
27	246	213	233	193	367	174	181	306	1040	160	123	102
28	255	202	228	195	346	166	177	234	378	150	122	120
29	253	192	225	194	331	162	174	186	254	159	120	100
30	249	188	224	191	---	161	170	165	217	163	117	94
31	234	---	218	192	---	160	---	149	---	159	110	---
TOTAL	5618	6739	5942	6335	6433	7048	5491	5072	9616	8477	4496	3135
MEAN	181	225	192	204	222	227	183	164	321	273	145	104
MAX	255	268	278	218	410	430	313	306	3600	887	312	159
MIN	149	188	130	191	161	160	139	130	96	150	107	87
AC-FT	11140	13370	11790	12570	12760	13980	10890	10060	19070	16810	8920	6220

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2000, BY WATER YEAR (WY)

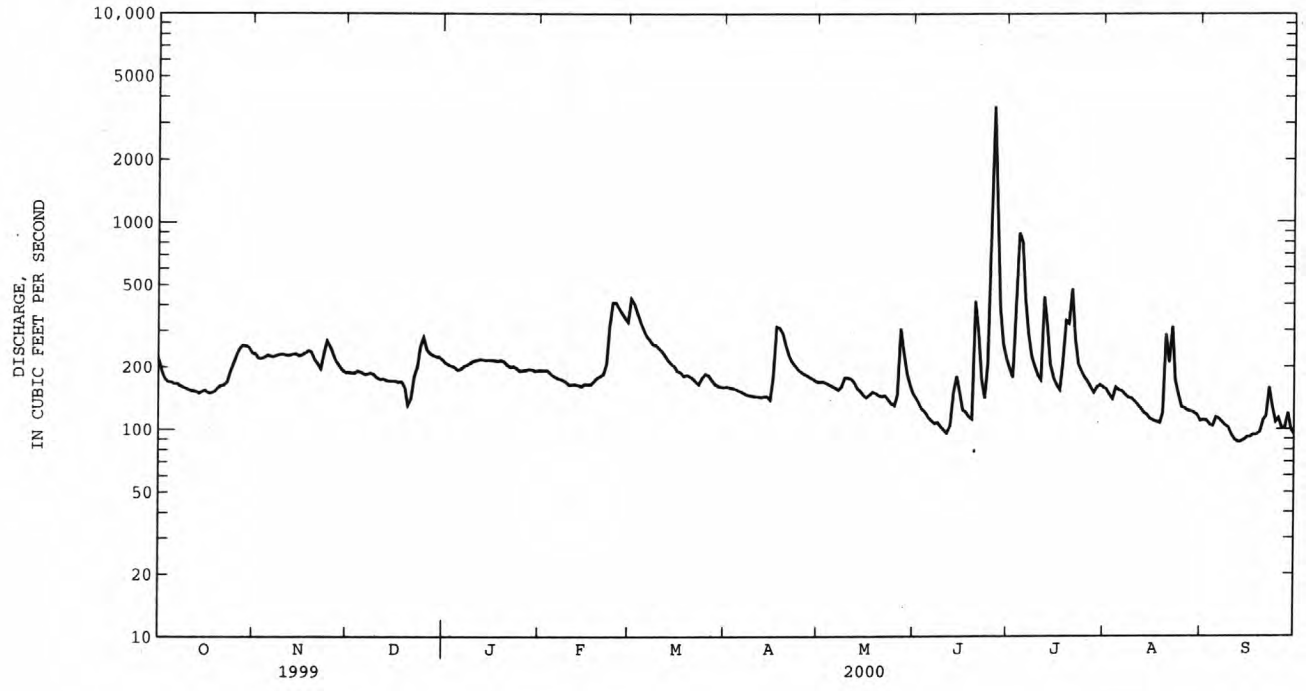
MEAN	255	178	148	160	268	512	418	586	716	532	318	259
MAX	2681	638	465	520	952	3481	2023	2383	4101	5461	1748	1534
(WY)	1974	1999	1987	1974	1983	1979	1984	1996	1984	1993	1987	1989
MIN	36.4	35.1	37.3	26.2	40.6	51.3	58.1	54.7	65.6	55.6	42.8	52.9
(WY)	1956	1956	1956	1957	1957	1957	1956	1955	1958	1955	1955	1953

PLATTE RIVER BASIN

06803555 SALT CREEK AT GREENWOOD, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1952 - 2000	
ANNUAL TOTAL	184777		74402			
ANNUAL MEAN	506		203		361	
MEDIAN OF ANNUAL MEANS					289	
HIGHEST ANNUAL MEAN					1054	1987
LOWEST ANNUAL MEAN					107	1953
HIGHEST DAILY MEAN	10400	Jul 1	3600	Jun 26	37100	Jun 13 1984
LOWEST DAILY MEAN	130	Dec 20	87	Sep 12	14	Jan 10 1957
ANNUAL SEVEN-DAY MINIMUM	141	Sep 14	90	Sep 10	17	Jan 10 1957
INSTANTANEOUS PEAK FLOW			5410	Jun 26	*46800	Jun 13 1984
INSTANTANEOUS PEAK STAGE			8.21	Jun 26	26.57	Jul 24 1993
ANNUAL RUNOFF (AC-FT)	366500		147600		261500	
10 PERCENT EXCEEDS	832		277		586	
50 PERCENT EXCEEDS	241		177		147	
90 PERCENT EXCEEDS	160		112		72	

e Estimated.
* Stage 26.50 ft.



PLATTE RIVER BASIN

06804000 WAHOO CREEK AT ITHACA, NE

LOCATION.--Lat 41°08'40", long 096°32'10", in NW 1/4 NW 1/4 sec.33, T.14 N., R.8 E., Saunders County, Hydrologic Unit 10200203, on right bank 16 ft downstream from bridge on State Highway 63, 0.5 mi south of Ithaca, and at mile 20.3.

DRAINAGE AREA.--273 mi^2, of which 268 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--October 1949 to current year.

REVISED RECORDS.--WDR NE-78-1: 1977(P). WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,110.48 ft above sea level. Prior to Oct. 27, 1959, nonrecording gages at same site and datum. Oct. 28, 1959 to Feb. 22, 1961 nonrecording gage at site 1.5 mi upstream at datum 8.21 ft higher. Data collection platform at station.

REMARKS.--Records good except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	58	62	61	e50	144	57	56	45	47	42	28
2	54	58	67	e58	e50	90	56	55	42	45	43	27
3	54	58	70	e54	e52	72	52	52	41	46	42	26
4	55	58	77	e50	e46	68	51	51	41	49	39	26
5	55	59	74	e52	e44	65	50	50	40	51	38	25
6	56	59	68	e56	e46	63	49	49	39	555	39	25
7	55	59	66	64	52	64	49	50	39	256	38	24
8	55	59	68	64	51	63	50	59	38	68	37	24
9	54	60	68	64	59	63	52	56	37	56	35	24
10	54	60	66	65	e52	58	52	52	35	52	35	24
11	53	60	65	62	e48	58	63	50	51	49	34	24
12	53	59	67	59	e46	56	59	46	41	94	33	22
13	54	59	66	e50	e46	56	53	44	42	68	32	23
14	54	59	64	e45	e47	55	53	44	40	50	33	24
15	55	59	e62	60	e48	55	50	45	36	47	33	23
16	56	59	e60	62	58	54	70	44	35	45	31	23
17	54	59	e58	59	55	53	82	43	34	45	30	24
18	55	60	e54	e54	56	55	67	79	34	65	29	24
19	55	60	e50	e48	57	62	62	325	35	54	32	23
20	55	60	e48	e46	54	64	59	60	44	48	36	26
21	55	60	e46	e50	63	60	57	50	40	45	34	24
22	55	61	e42	e52	67	56	55	45	34	44	31	26
23	55	76	e39	e54	77	59	54	42	36	43	31	26
24	55	77	e34	e52	81	67	54	43	89	42	33	27
25	55	68	e30	e50	77	68	53	44	146	42	32	27
26	56	66	e33	e42	71	58	54	52	808	41	30	27
27	57	66	e40	e46	62	55	57	76	110	40	29	26
28	57	65	e54	e48	58	56	56	64	63	89	28	26
29	57	64	e56	e50	62	57	54	51	54	149	29	27
30	57	62	e56	e48	---	57	53	49	49	49	28	25
31	58	---	e57	e48	---	56	---	48	---	43	28	---
TOTAL	1707	1847	1767	1673	1635	1967	1683	1874	2218	2417	1044	750
MEAN	55.1	61.6	57.0	54.0	56.4	63.5	56.1	60.5	73.9	78.0	33.7	25.0
MAX	58	77	77	65	81	144	82	325	808	555	43	28
MIN	53	58	30	42	44	53	49	42	34	40	28	22
AC-FT	3390	3660	3500	3320	3240	3900	3340	3720	4400	4790	2070	1490

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2000, BY WATER YEAR (WY)

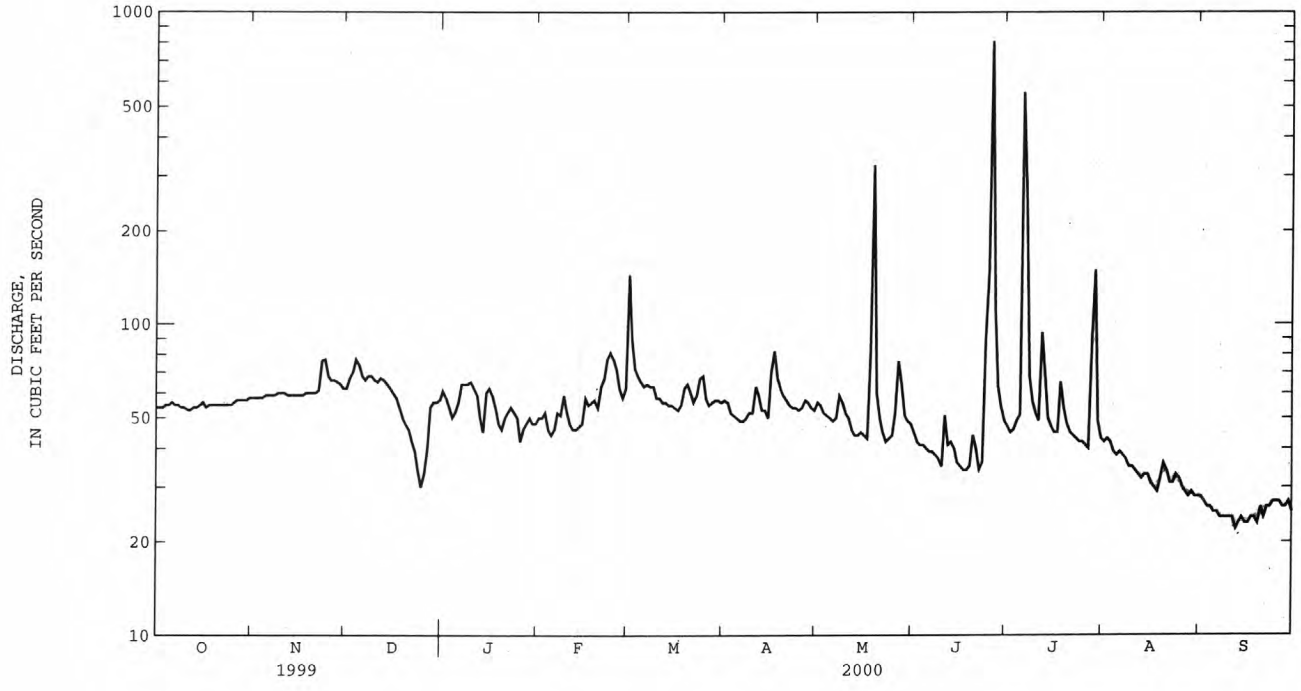
MEAN	51.1	40.6	35.7	39.5	73.2	121	90.3	121	227	89.7	96.8	70.8
MAX	343	110	96.3	125	276	518	430	401	1051	728	640	663
(WY)	1987	1987	1985	1983	1983	1979	1978	1984	1963	1993	1959	1965
MIN	8.39	11.3	10.1	10.7	13.2	16.6	19.6	16.3	18.6	10.6	9.27	6.95
(WY)	1956	1956	1977	1957	1957	1957	1956	1955	1976	1956	1956	1956

PLATTE RIVER BASIN

06804000 WAHOO CREEK AT ITHACA, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1950 - 2000	
ANNUAL TOTAL	51502		20582			
ANNUAL MEAN	141		56.2		87.9	
MEDIAN OF ANNUAL MEANS					77	
HIGHEST ANNUAL MEAN					207	1987
LOWEST ANNUAL MEAN					15.3	1956
HIGHEST DAILY MEAN	2350	Jun 11	808	Jun 26	22100	Jun 24 1963
LOWEST DAILY MEAN	30	Dec 25	22	Sep 12	3.3	Jun 11 1955
ANNUAL SEVEN-DAY MINIMUM	38	Dec 21	23	Sep 10	4.4	Oct 12 1955
INSTANTANEOUS PEAK FLOW			1130	Jul 15	77400	Jun 24 1963
INSTANTANEOUS PEAK STAGE			11.99	Jul 15	22.93	Jun 24 1963
ANNUAL RUNOFF (AC-FT)	102200		40820		63710	
10 PERCENT EXCEEDS	215		67		115	
50 PERCENT EXCEEDS	72		54		36	
90 PERCENT EXCEEDS	55		30		18	

e Estimated.



PLATTE RIVER BASIN

06804700 WAHOO CREEK AT ASHLAND, NE

LOCATION.--Lat 41°03'13", long 096°22'04", in SE ¼ NE ¼ sec.35, T.13 N., R.9 E., Saunders County, Hydrologic Unit 10200203, at right upstream side of bridge near end of guard rail on State Highway 63, 1 mi north of Ashland, and at mile 2.6.

DRAINAGE AREA.--416 mi^2.

PERIOD OF RECORD.--September 1990 to current year.

REVISED RECORDS.--WDR NE-99-1: Datum.

GAGE.--Water-stage recorder. Datum of gage is 1,048.77 ft above sea level.

REMARKS.--Records good except for estimated periods, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

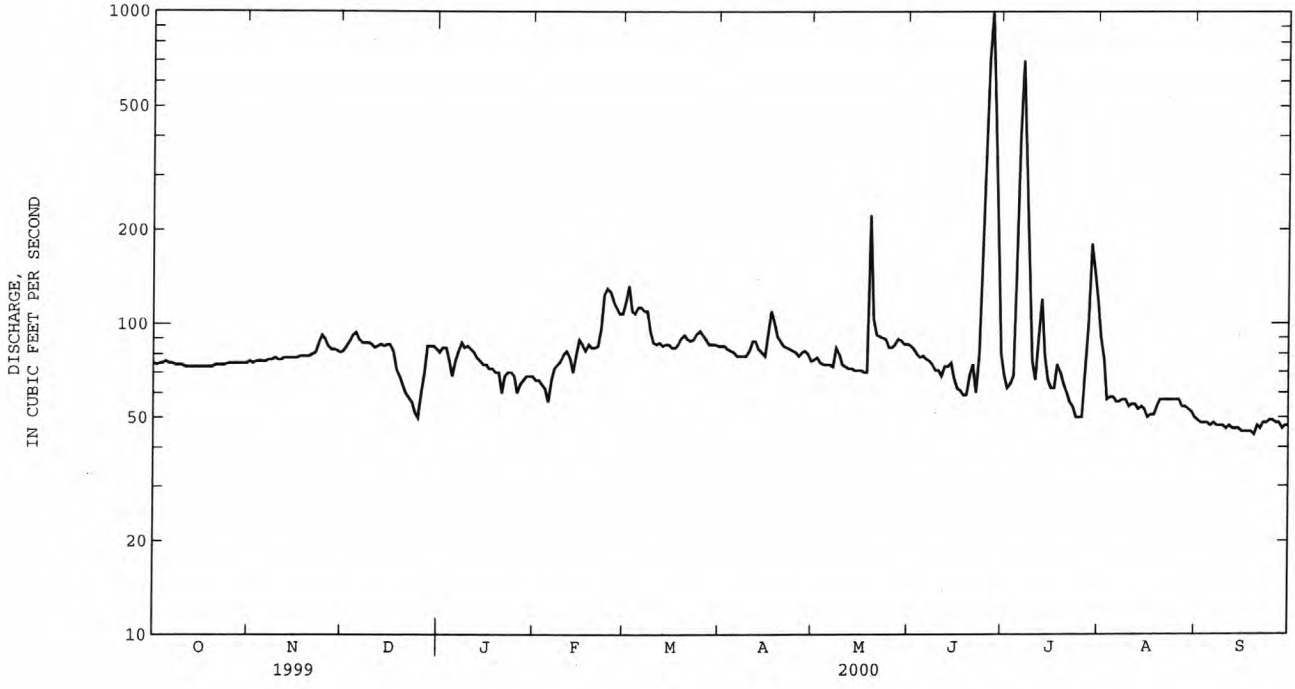
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	76	82	81	e66	119	85	77	85	e68	e90	49
2	74	75	85	84	e66	133	85	78	83	e62	77	48
3	75	76	88	84	e64	110	83	75	80	e64	57	48
4	75	76	92	e76	e62	108	82	74	78	e68	58	48
5	76	76	94	e68	e56	113	81	74	79	e150	58	47
6	75	76	89	e76	e66	113	79	74	77	e400	56	48
7	75	77	87	e82	e72	110	79	73	76	e700	56	47
8	74	77	87	87	e74	110	79	84	74	e300	57	47
9	74	78	87	84	e76	94	79	80	71	e150	57	47
10	74	77	86	85	e80	87	82	74	71	e76	54	46
11	73	77	84	83	e82	86	88	73	68	e66	55	47
12	73	78	85	81	e78	87	88	72	73	e90	55	46
13	73	78	86	e78	e70	85	83	72	73	e120	53	46
14	73	78	85	e76	e80	86	81	71	75	e80	54	46
15	73	78	86	e74	e89	86	79	71	67	e66	53	45
16	73	78	86	e74	e86	84	92	71	62	e62	50	45
17	73	79	82	e72	82	84	110	70	61	e62	51	45
18	73	79	e72	e72	86	86	101	70	59	e74	51	45
19	73	79	e68	e70	84	90	91	223	59	e70	54	44
20	73	79	e64	e70	84	92	88	104	e68	e64	57	47
21	74	80	e60	e60	85	89	85	92	e74	e60	57	46
22	74	81	e58	e68	97	88	84	91	e60	e56	57	48
23	74	87	e56	e70	124	89	83	90	e80	e54	57	48
24	74	92	e52	e70	130	93	82	89	e130	e50	57	49
25	75	89	e50	e68	127	95	81	84	e300	e50	57	49
26	75	85	e60	e60	118	92	79	84	e700	e50	57	48
27	75	83	e70	e64	113	89	81	86	e1000	e70	54	48
28	75	83	85	e66	108	86	82	89	e500	e100	54	46
29	75	82	85	e68	108	86	80	88	e200	e180	53	47
30	75	81	85	e68	---	86	76	86	e80	e150	52	47
31	75	---	83	e68	---	85	---	86	---	e120	50	---
TOTAL	2298	2390	2419	2287	2513	2941	2528	2625	4563	3732	1758	1407
MEAN	74.1	79.7	78.0	73.8	86.7	94.9	84.3	84.7	152	120	56.7	46.9
MAX	76	92	94	87	130	133	110	223	1000	700	90	49
MIN	73	75	50	60	56	84	76	70	59	50	50	44
AC-FT	4560	4740	4800	4540	4980	5830	5010	5210	9050	7400	3490	2790
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2000, BY WATER YEAR (WY)												
MEAN	58.5	71.1	62.8	65.4	97.4	147	128	205	394	244	114	65.2
MAX	98.2	125	85.9	91.5	199	580	247	552	1031	1032	341	150
(WY)	1994	1999	1999	1995	1997	1993	1999	1995	1991	1993	1998	1993
MIN	36.0	42.5	40.1	40.4	42.8	57.3	64.4	67.5	55.9	69.8	39.1	28.0
(WY)	1992	1991	1993	1993	1992	1992	1992	1997	1992	1997	1997	1990

PLATTE RIVER BASIN

06804700 WAHOO CREEK AT ASHLAND, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1990 - 2000	
ANNUAL TOTAL	61384		31461			
ANNUAL MEAN	168		86.0		138	
HIGHEST ANNUAL MEAN					223	1993
LOWEST ANNUAL MEAN					63.9	1992
HIGHEST DAILY MEAN	2910	Jun 28	1000	Jun 27	7000	Jun 15 1991
LOWEST DAILY MEAN	50	Dec 25	44	Sep 19	21	Sep 16 1990
ANNUAL SEVEN-DAY MINIMUM	57	Dec 20	45	Sep 13	24	Sep 11 1990
INSTANTANEOUS PEAK FLOW			e1500	Jun 27	7000	Jun 15 1991
INSTANTANEOUS PEAK STAGE					20.50	Jun 15 1991
ANNUAL RUNOFF (AC-FT)	121800		62400		99960	
10 PERCENT EXCEEDS	250		96		190	
50 PERCENT EXCEEDS	99		76		74	
90 PERCENT EXCEEDS	74		51		41	

e Estimated.



PLATTE RIVER BASIN

06804900 JOHNSON CREEK NEAR MEMPHIS, NE

LOCATION.--Lat 41°08'48", long 096°23'12", in NW 1/4 NW 1/4 sec.35, T.14 N., R.9 E., Saunders County, Hydrologic Unit 10200203, on left downstream bank on Saunders County road No. 37, 3.5 mi north and 2 mi east of Memphis, and at mile 0.9.

DRAINAGE AREA.--21.5 mi^2.

PERIOD OF RECORD.--September 1990 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,070.00 ft above sea level.

REMARKS.--Records fair except those for period Sept. 2 to Sept. 30, and periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.4	1.4	1.8	1.8	2.1	1.7	1.2	2.7	2.4	2.2	1.7
2	1.2	1.4	1.4	1.9	1.8	1.9	1.6	.88	2.7	2.3	2.3	2.0
3	1.3	1.5	1.5	1.9	1.8	1.8	1.6	.97	2.7	2.6	2.5	2.0
4	1.3	1.5	1.4	1.8	1.7	1.7	1.4	1.1	3.0	2.6	2.5	1.9
5	1.3	1.5	1.5	1.8	1.7	1.7	1.5	1.1	3.0	2.6	2.4	1.7
6	1.4	1.5	1.5	1.8	1.7	1.7	1.4	1.2	3.0	5.4	2.2	1.5
7	1.4	1.5	1.5	1.8	1.7	1.7	1.4	1.2	3.1	3.0	2.0	1.5
8	1.5	1.5	1.8	1.9	1.7	1.7	1.2	6.3	3.1	2.6	1.9	1.5
9	1.4	1.5	1.7	1.9	1.7	1.7	1.2	1.7	3.2	2.4	1.9	1.6
10	1.5	1.5	1.7	2.0	1.6	1.6	1.3	1.2	3.3	2.4	1.6	1.7
11	1.5	1.4	1.6	2.1	1.6	1.5	1.3	1.3	3.3	2.3	1.5	1.5
12	1.5	1.4	1.7	2.2	1.6	1.5	1.1	1.2	3.7	2.4	1.5	1.4
13	1.6	1.4	1.6	2.1	1.6	1.5	1.2	1.1	4.3	2.3	1.6	1.5
14	1.6	1.3	1.7	2.2	1.6	1.8	1.1	1.1	6.7	2.2	1.7	1.5
15	1.5	1.3	1.7	2.2	1.6	1.5	1.1	1.1	4.4	2.1	1.5	1.7
16	1.5	1.4	1.7	2.1	1.5	1.5	1.3	1.2	4.3	2.2	1.4	1.7
17	1.5	1.3	1.7	e2.1	1.5	1.4	1.3	1.3	4.1	2.3	1.5	1.7
18	1.4	1.3	1.7	e2.0	1.6	1.5	1.1	1.4	4.0	2.4	1.5	1.6
19	1.5	1.3	1.7	e1.9	1.6	1.6	1.1	1.4	3.8	2.6	1.6	1.6
20	1.5	1.3	1.7	e1.8	1.6	1.6	1.0	1.4	4.2	2.5	1.7	1.8
21	1.5	1.3	1.7	e1.9	1.6	1.5	1.0	1.5	3.9	2.4	1.5	1.9
22	1.4	1.3	1.7	e1.9	1.7	1.6	1.1	1.6	3.7	2.2	1.4	2.0
23	1.4	1.6	1.7	e1.8	1.9	1.7	1.1	1.7	3.7	2.1	1.4	1.9
24	1.4	1.4	1.7	e1.6	1.9	1.7	.94	1.8	23	2.1	1.3	2.1
25	1.4	1.4	1.8	e1.5	2.0	1.6	1.0	1.8	14	2.1	1.2	2.3
26	1.4	1.5	1.8	e1.4	2.0	1.6	1.0	2.1	40	1.9	1.1	2.0
27	1.4	1.4	1.8	e1.5	1.9	1.5	1.1	2.3	4.3	2.0	1.1	2.3
28	1.4	1.3	1.8	e1.6	1.9	1.5	.97	2.2	3.2	2.5	1.5	2.4
29	1.4	1.4	1.8	e1.6	1.9	1.5	.97	2.2	2.9	2.6	1.6	2.3
30	1.4	1.4	1.8	e1.7	---	1.6	1.1	2.5	2.6	2.3	1.7	2.0
31	1.4	---	1.8	e1.7	---	1.6	---	2.6	---	2.2	1.8	---
TOTAL	44.1	42.2	51.6	57.5	49.8	50.4	36.18	51.65	173.9	76.0	52.6	54.3
MEAN	1.42	1.41	1.66	1.85	1.72	1.63	1.21	1.67	5.80	2.45	1.70	1.81
MAX	1.6	1.6	1.8	2.2	2.0	2.1	1.7	6.3	40	5.4	2.5	2.4
MIN	1.2	1.3	1.4	1.4	1.5	1.4	.94	.88	2.6	1.9	1.1	1.4
AC-FT	87	84	102	114	99	100	72	102	345	151	104	108

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2000, BY WATER YEAR (WY)

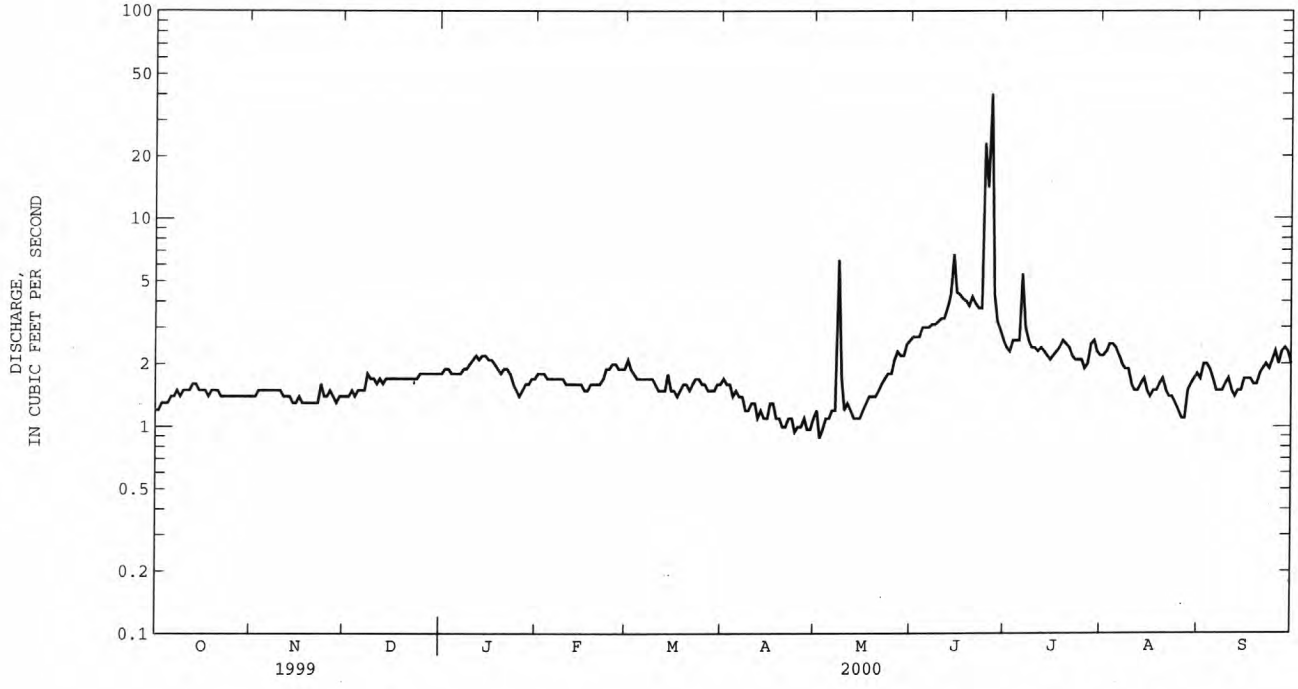
MEAN	1.66	1.84	1.86	1.75	2.40	4.11	2.97	3.12	11.2	5.56	2.98	2.31
MAX	2.56	3.04	3.82	2.24	5.20	17.8	7.67	6.38	26.9	26.1	11.1	5.11
(WY)	1994	1998	1998	1998	1998	1993	1999	1999	1991	1993	1998	1999
MIN	1.02	1.22	1.40	1.34	1.52	1.54	1.21	1.42	2.15	1.21	.84	.72
(WY)	1993	1991	1991	1999	1992	1992	2000	1997	1992	1991	1991	1992

PLATTE RIVER BASIN

06804900 JOHNSON CREEK NEAR MEMPHIS, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1991 - 2000	
ANNUAL TOTAL	1224.26		740.23			
ANNUAL MEAN	3.35		2.02		3.46	
HIGHEST ANNUAL MEAN					6.79	1993
LOWEST ANNUAL MEAN					1.75	1992
HIGHEST DAILY MEAN	73	Sep 5	40	Jun 26	240	Jul 23 1993
LOWEST DAILY MEAN	.55	Sep 10	.88	May 2	.36	Jul 22 1995
ANNUAL SEVEN-DAY MINIMUM	.60	Sep 9	1.0	Apr 23	.60	Sep 9 1999
INSTANTANEOUS PEAK FLOW			157	Jun 25	*269	Jun 14 1991
INSTANTANEOUS PEAK STAGE			8.95	Jun 25	10.49	Jun 1 1994
ANNUAL RUNOFF (AC-FT)	2430		1470		2510	
10 PERCENT EXCEEDS	6.5		2.6		3.8	
50 PERCENT EXCEEDS	1.9		1.6		1.8	
90 PERCENT EXCEEDS	1.0		1.2		1.1	

e Estimated.
* Stage 10.25 ft.



PLATTE RIVER BASIN

06805500 PLATTE RIVER AT LOUISVILLE, NE
(National Stream-Quality Accounting Network, NASQAN, station)
(National Water-Quality Assessment, NAWQA, station)

LOCATION.--Lat 41°00'55", long 096°09'28", in NW ¼ NW ¼ sec.14, T.12 N., R.11 E., Sarpy County, Hydrologic Unit 10200202, on the left bank at the upstream side of bridge on Nebraska Highway 50, 1 mi north of Louisville, and at mile 16.5.

DRAINAGE AREA.--85,370 mi^2, approximately, of which about 71,000 mi^2 contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1953 to current year. October 1961 to September 1973 published as Platte River at South Bend.

REVISED RECORDS.--WDR NE-97-1: Drainage area; 1995.

GAGE.--Water-stage recorder. Datum of gage is 1,007.10 ft above sea level. Dec. 5, 1961 to Sept. 30, 1973 at site 7 mi upstream at datum 31.43 ft higher. Data collection platform at station.

REMARKS.--Records good except for periods of estimated record, which are poor. Natural flow of stream affected by storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7670	7450	7240	9130	6100	10100	8560	6680	7520	5850	4980	2610
2	6920	7100	7350	8870	6380	9700	7510	6330	7750	5130	4570	2490
3	7320	7510	7490	9400	7770	9250	7660	6300	7830	5020	4070	2420
4	6660	7420	7710	8620	9890	8830	6760	6400	7440	4850	3930	2530
5	6970	7190	7690	6950	8950	8590	6900	6310	7270	5140	3950	2550
6	7200	7500	7560	e6000	8530	8520	7250	6210	6730	7700	3310	2270
7	6900	7100	7760	e5000	e9000	7950	7270	5640	6420	19000	3080	2510
8	7280	8370	7610	6610	e9600	8500	6680	6260	6490	15500	2690	2370
9	7510	7960	7530	8320	e10000	8290	7170	6000	5740	11100	2760	2440
10	7420	7360	7550	8510	e9900	8490	6520	5760	5540	9310	2470	2560
11	7320	7510	7430	9070	e9400	8670	7820	6070	5440	7520	2740	2140
12	7470	7510	7350	8820	8940	8800	7140	6010	5390	6770	2380	2190
13	7580	7410	7460	8590	9420	8070	6790	5380	5650	7460	2210	2110
14	7460	7690	6950	8600	9150	8960	7030	5350	5610	7070	2130	2090
15	7190	7440	7340	8240	8900	7500	7220	5190	4640	6000	1970	2010
16	6440	7450	7580	9070	8800	7650	7190	5080	5060	4720	1920	2110
17	6620	7470	6790	8740	8720	7520	8150	5410	5230	4410	2050	2080
18	7040	7310	6320	8070	9080	7710	8540	4840	5040	5610	1610	1990
19	7070	7620	6700	8520	8630	7220	8500	6190	5020	5130	2470	2080
20	7460	7500	6570	8430	8850	7840	8130	6020	4750	3930	1920	2480
21	6810	7190	6430	7650	8900	8090	7790	6900	4350	4320	1720	2540
22	7120	7530	6000	7650	9320	7550	6710	7590	4470	4500	2880	2380
23	7170	7810	3880	7830	9300	7870	7470	6710	4610	3820	2800	2610
24	6990	7660	5940	7490	9260	8490	6870	5430	6950	3600	2750	2920
25	7100	7700	6810	7810	9520	8580	6430	5850	7670	3970	2680	2850
26	7320	7840	8060	7970	10900	8410	5840	6390	16000	4450	2770	2980
27	6830	7510	11800	7420	10900	8430	6600	6650	13600	4440	2890	2990
28	7380	7660	13700	6540	9970	7990	6690	6910	10200	3840	2870	3180
29	7050	7400	13000	5560	9710	7940	7130	6960	7710	4150	2330	3400
30	7400	7290	11500	4960	---	7920	6940	7330	7290	4230	2180	3130
31	7010	---	10100	5320	---	7650	---	7640	---	5990	2520	---
TOTAL	221680	225460	243200	239760	263790	257080	217260	191790	203410	194530	85600	75010
MEAN	7151	7515	7845	7734	9096	8293	7242	6187	6780	6275	2761	2500
MAX	7670	8370	13700	9400	10900	10100	8560	7640	16000	19000	4980	3400
MIN	6440	7100	3880	4960	6100	7220	5840	4840	4350	3600	1610	1990
AC-FT	439700	447200	482400	475600	523200	509900	430900	380400	403500	385900	169800	148800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2000, BY WATER YEAR (WY)

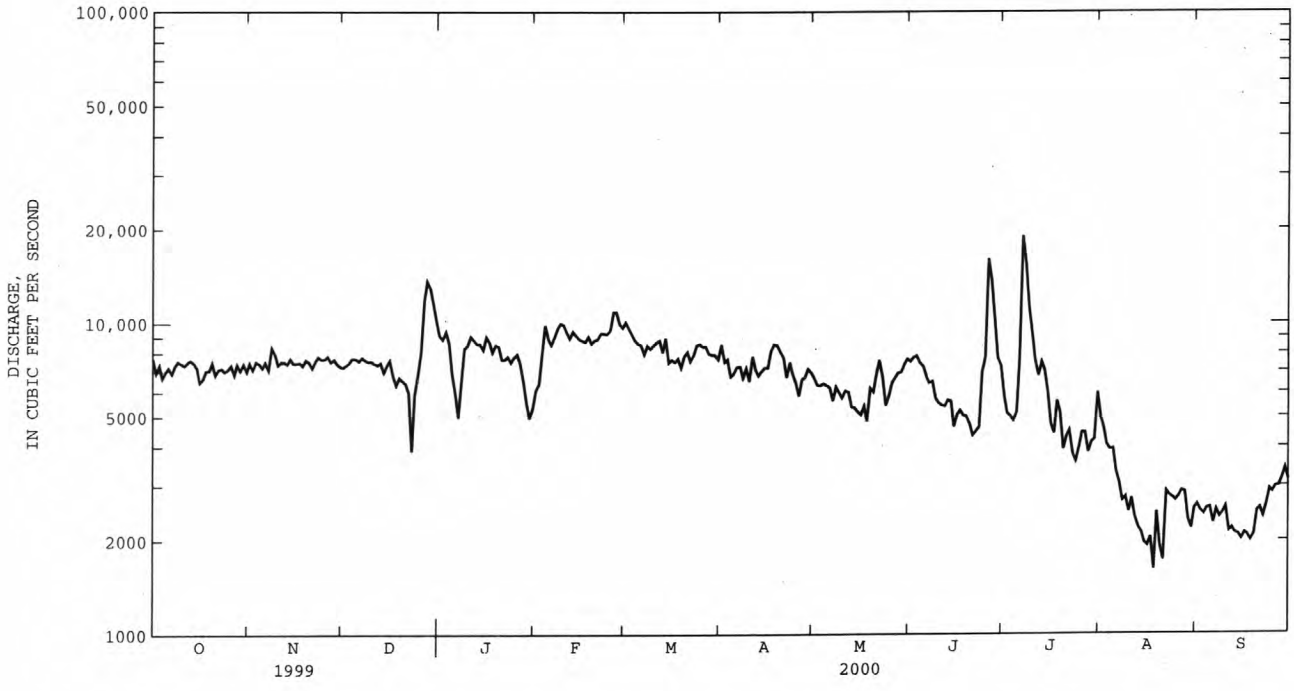
MEAN	5218	5555	4940	4815	7645	11210	10010	9869	11500	6426	4218	4338
MAX	15630	10580	10910	10810	17270	27010	34250	35350	39430	43440	13890	12870
(WY)	1987	1987	1985	1998	1984	1993	1984	1984	1984	1993	1993	1993
MIN	1604	2234	1456	1822	3237	4898	3701	2548	2493	978	519	975
(WY)	1957	1956	1956	1957	1955	1957	1967	1955	1981	1974	1955	1955

PLATTE RIVER BASIN

06805500 PLATTE RIVER AT LOUISVILLE, NE--Continued
(National Stream-Quality Accounting Network, NASQAN, station)
(National Water-Quality Assessment, NAWQA, station)

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1953 - 2000	
ANNUAL TOTAL	4174650		2418570			
ANNUAL MEAN	11440		6608		7158	
HIGHEST ANNUAL MEAN					16210	1984
LOWEST ANNUAL MEAN					2885	1956
HIGHEST DAILY MEAN	50500	Jun 28	19000	Jul 7	138000	Jul 25 1993
LOWEST DAILY MEAN	3880	Dec 23	1610	Aug 18	131	Sep 3 1976
ANNUAL SEVEN-DAY MINIMUM	5400	Jul 31	1950	Aug 15	159	Aug 29 1976
INSTANTANEOUS PEAK FLOW			22300	Jul 7	*160000	Jul 25 1993
INSTANTANEOUS PEAK STAGE			6.38	Jul 7	12.45	Mar 30 1960
ANNUAL RUNOFF (AC-FT)	8280000		4797000		5186000	
10 PERCENT EXCEEDS	20700		8970		13000	
50 PERCENT EXCEEDS	8330		7140		5370	
90 PERCENT EXCEEDS	6400		2610		2020	

e Estimated.
* Stage 11.90 ft.



06805500 PLATTE RIVER AT LOUISVILLE, NE--Continued
(National Stream-Quality Accounting Network, NASQAN, station)
(National Water-Quality Assessment, NAWQA, station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1974 to September 1981.
WATER TEMPERATURES: November 1974 to September 1981.
SUSPENDED SEDIMENT DISCHARGE: October 1971 to September 1981.

REMARKS.--Prior to July 1, 1971, sediment records were obtained by the U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 3,450 microsiemens Sept. 1, 1976; minimum daily, 254 microsiemens Aug. 7, 1981.
WATER TEMPERATURES: Maximum, 36.0°C July 24, 1977, Aug. 19, 1979; minimum 0.0°C on many days during winter periods.
SEDIMENT CONCENTRATIONS: Maximum daily, 11,600 mg/L May 19, 1974; minimum daily, 60 mg/L July 19, 1976.
SEDIMENT LOADS: Maximum daily, 1,180,000 tons Mar. 21, 1978; minimum daily, 64 tons July 19, 1976.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)
OCT												
12...	1230	8160	.69	11200	507	507	120	12.1	140	8.3	728	26.0
NOV												
23...	1030	7900	.65	10200	478	473	30	10.6	87	7.5	632	3.5
DEC												
16...	1100	7790	.66	10200	485	441	31	14.1	102	7.4	620	-4.0
JAN												
21...	1100	7690	.72	11100	533	511	--	13.9	99	7.1	512	-3.0
FEB												
17...	1100	8980	.68	12200	502	484	34	13.8	98	7.9	765	1.0
MAR												
21...	1030	8080	.62	9880	453	434	45	12.2	99	7.7	640	6.0
APR												
27...	1130	6450	.53	6770	389	386	30	12.3	127	9.0	628	16.0
MAY												
10...	1030	6080	.52	6280	382	371	27	9.5	103	8.9	525	15.0
19...	1530	6900	.66	9040	485	475	91	10.5	119	8.5	522	24.0
JUN												
02...	0930	7640	.53	8040	390	386	64	7.8	90	8.4	563	20.0
21...	0900	4330	.55	4760	407	388	56	10.4	126	8.6	566	20.0
26...	1000	17600	.38	13400	283	273	560	4.6	54	7.5	438	19.5
JUL												
14...	1030	6800	.43	5860	319	308	310	6.6	88	8.1	448	29.5
AUG												
04...	0900	3580	.63	4500	466	452	56	9.3	117	8.5	468	22.0
SEP												
14...	1000	2000	.59	2330	431	431	27	9.2	107	8.5	480	20.0

DATE	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	HARD-NESS NONCARB DISSOLV LAB AS CACO3 (MG/L) (00905)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
OCT												
12...	20.0	.068	--	67	61	220	56.2	20.4	10.1	2	73.5	40
NOV												
23...	5.5	.052	.038	54	44	230	63.9	17.4	8.2	2	63.7	36
DEC												
16...	.5	.052	.038	28	27	230	63.1	16.9	7.0	1	48.5	31
JAN												
21...	.2	--	--	53	--	250	69.6	19.2	8.6	2	63.8	34
FEB												
17...	.0	.050	.036	49	44	240	67.2	17.6	7.9	2	56.4	33
MAR												
21...	5.0	.069	.050	46	37	230	64.0	17.0	8.3	1	48.5	31
APR												
27...	15.0	.068	.049	44	40	180	45.8	16.6	8.8	2	56.9	39
MAY												
10...	17.0	.071	.052	40	38	180	44.4	16.9	9.3	2	54.3	38
19...	19.0	.068	.040	41	36	190	46.5	17.7	8.7	3	91.3	50
JUN												
02...	20.5	.150	.114	19	16	190	52.5	15.3	10.2	2	48.7	34
21...	23.0	.108	.087	32	17	160	40.5	14.5	9.9	2	66.7	46
26...	22.0	.173	.132	14	17	120	33.3	9.73	8.5	2	41.6	40
JUL												
14...	27.5	.565	.505	18	18	180	50.9	12.2	10.8	1	31.5	26
AUG												
04...	24.5	.109	.080	19	16	170	45.0	13.9	10.5	3	86.8	51
SEP												
14...	20.5	.078	.057	--	11	170	43.8	14.4	9.6	3	83.0	50

PLATTE RIVER BASIN

06805500 PLATTE RIVER AT LOUISVILLE, NE--Continued
(National Stream-Quality Accounting Network, NASQAN, station)
(National Water-Quality Assessment, NAWQA, station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ALKALINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)
OCT												
12...	164	158	164	14	50.2	.5	22.8	176	<.020	.38	.45	--
NOV												
23...	188	178	217	0	54.9	.4	32.8	116	.027	.22	.87	.03
DEC												
16...	201	200	244	0	31.1	.4	32.8	110	.069	.31	.91	.09
JAN												
21...	--	200	244	0	44.9	.4	32.8	141	.079	.26	.72	.10
FEB												
17...	197	192	234	0	45.1	.4	31.7	130	.135	.35	.90	.17
MAR												
21...	194	184	203	11	32.9	.4	31.8	110	.028	.24	.91	.04
APR												
27...	143	138	112	28	41.5	.5	15.4	116	<.020	.28	1.6	--
MAY												
10...	143	142	156	8	36.1	.3	14.3	110	<.020	.26	1.0	--
19...	154	148	165	8	89.3	.4	15.9	114	<.020	.25	1.8	--
JUN												
02...	179	175	155	29	33.7	.4	20.4	93.9	<.020	.48	2.6	--
21...	145	135	131	13	60.4	.3	21.9	95.6	<.020	.28	1.4	--
26...	107	110	134	0	39.4	.3	13.6	52.2	.258	.89	9.0	.33
JUL												
14...	160	160	195	0	22.9	.4	19.4	54.3	.021	.53	4.6	.03
AUG												
04...	154	152	156	14	99.1	.4	19.7	83.3	<.020	.31	1.3	--
SEP												
14...	158	--	--	--	82.0	.4	25.1	77.7	<.020	.28	1.1	--

DATE	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3) (71851)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2) (71856)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)
OCT												
12...	.69	.298	1.32	.313	.049	.015	--	--	.76	.012	.016	.004
NOV												
23...	2.0	1.75	7.75	1.76	.036	.011	.19	.85	2.6	.534	.179	.174
DEC												
16...	2.5	--	--	2.16	--	<.010	.24	.84	3.1	.626	.197	.204
JAN												
21...	2.7	2.38	10.6	2.40	.046	.014	.18	.64	3.1	.576	.204	.188
FEB												
17...	2.8	2.46	10.9	2.47	.036	.011	.22	.76	3.4	.632	.238	.206
MAR												
21...	2.3	--	--	2.08	--	<.010	.21	.89	3.0	.586	.182	.191
APR												
27...	--	--	--	<.050	--	<.010	--	--	--	.031	.010	.010
MAY												
10...	--	--	--	<.050	--	<.010	--	--	--	.009	.008	.003
19...	.48	.196	.868	.229	.108	.033	--	--	2.0	.080	.041	.026
JUN												
02...	1.5	.989	4.38	1.01	.072	.022	--	--	3.6	.313	.126	.102
21...	--	--	--	<.050	--	<.010	--	--	--	.107	.046	.035
26...	2.6	1.53	6.76	1.67	.460	.140	.63	8.8	11	.362	.145	.118
JUL												
14...	2.4	1.74	7.71	1.87	.417	.127	.51	4.6	6.5	.908	.355	.296
AUG												
04...	.52	.188	.832	.217	.095	.029	--	--	1.5	.598	.178	.195
SEP												
14...	--	--	--	<.050	.036	.011	--	--	--	.230	.082	.075

PLATTE RIVER BASIN

06805500 PLATTE RIVER AT LOUISVILLE, NE--Continued
(National Stream-Quality Accounting Network, NASQAN, station)
(National Water-Quality Assessment, NAWQA, station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS SEDI-MENT SUSP. PERCENT (30292)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	CARBON SED. SUSP. PERCENT (30244)	CARBON, ORGANIC SUS-PENDED, TOTAL PERCENT (50465)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)
OCT												
12...	.159	--	3.5	>5.0	--	--	--	--	5.3	--	--	111
NOV												
23...	.298	--	2.5	.4	--	--	--	--	5.2	--	--	93
DEC												
16...	.339	.035	2.6	3.7	1.8	1.2	2	<1	5.1	120	<1	82
JAN												
21...	.315	--	--	--	--	--	--	--	--	--	--	--
FEB												
17...	.377	.049	2.6	1.1	2.3	1.4	5	<1	5.2	126	<1	86
MAR												
21...	.385	.078	2.9	3.7	3.0	1.9	1	<1	5.4	121	<1	78
APR												
27...	.340	--	3.7	4.2	--	--	--	--	4.8	--	--	89
MAY												
10...	.325	--	3.4	>5.0	--	--	--	--	5.6	--	--	94
19...	.648	--	3.6	>5.0	--	--	--	--	4.5	--	--	113
JUN												
02...	.663	.11	5.2	>5.0	3.2	2.5	7	<1	6.8	114	<1	75
21...	.463	--	4.2	>5.0	--	--	--	--	5.3	--	--	90
26...	3.45	--	6.3	>5.0	--	--	--	--	3.7	--	--	61
JUL												
14...	1.86	--	6.7	>5.0	--	--	--	--	7.9	--	--	70
AUG												
04...	.490	.13	3.8	>5.0	4.1	3.0	5	<1	7.9	108	<1	102
SEP												
14...	.421	--	3.7	>5.0	--	--	--	--	7.8	--	--	95

DATE	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)
OCT												
12...	--	--	--	--	210	--	28.0	--	--	--	2.5	--
NOV												
23...	--	--	--	--	<10	--	25.6	--	--	--	E2.0	--
DEC												
16...	<1.0	<.8	<1	10	<10	4	20.8	7	3	1	3.4	<1
JAN												
21...	--	--	--	--	<10	--	--	7	--	--	--	--
FEB												
17...	<1.0	<1.0	<1	11	<10	<1	23.4	10	4	3	3.5	<1
MAR												
21...	<1.0	<1.0	<1	5	<10	<1	22.6	3	3	<1	2.6	<1
APR												
27...	--	--	--	--	<10	--	24.0	--	--	--	3.5	--
MAY												
10...	--	--	--	--	<10	--	22.9	--	--	--	3.2	--
19...	--	--	--	--	<10	--	28.0	--	--	--	4.0	--
JUN												
02...	<1.0	<.8	<1	6	<10	<1	22.8	<1	4	3	3.6	<1
21...	--	--	--	--	<10	--	21.3	--	--	--	E2.0	--
26...	--	--	--	--	E10	--	13.7	--	--	--	2.6	--
JUL												
14...	--	--	--	--	<10	--	15.5	--	--	--	4.3	--
AUG												
04...	<1.0	<.8	<1	4	E10	<1	23.1	<1	5	2	3.2	<1
SEP												
14...	--	--	--	--	<10	--	25.0	--	--	--	3.1	--

PLATTE RIVER BASIN

06805500 PLATTE RIVER AT LOUISVILLE, NE--Continued
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WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	VANADIUM, DISSOLVED (UG/L AS V) (01085)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	ALUMINUM SED, SUS PERCENT (30221)	ANTIMONY SED. SUSP. (UG/G) (29816)	ARSENIC SED. SUSP. (UG/G) (29818)	BARIUM SED. SUSP. (UG/G) (29820)	BERYLLIUM SED. SUSP. (UG/G) (29822)	CADMIUM SED. SUSP. (UG/G) (29826)	CHROMIUM SED. SUSP. (UG/G) (29829)	COBALT SEDIMENT SUSP. (UG/G) (35031)	COPPER SED. SUSP. (UG/G) (29832)
OCT												
12...	529	E7	--	--	--	--	--	--	--	--	--	--
NOV												
23...	487	E6	--	--	--	--	--	--	--	--	--	--
DEC												
16...	457	<10	43	4.1	2.6	3.1	670	1	.3	51	5	11
JAN												
21...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
17...	509	E7	37	4.6	1.4	4.8	700	1	.3	93	5	17
MAR												
21...	472	E7	22	4.3	1.8	6.4	680	1	.1	63	9	13
APR												
27...	394	E8	--	--	--	--	--	--	--	--	--	--
MAY												
10...	406	E9	--	--	--	--	--	--	--	--	--	--
19...	429	<10	--	--	--	--	--	--	--	--	--	--
JUN												
02...	389	12	13	5.6	1.3	9.3	720	1	.6	53	11	24
21...	358	E9	--	--	--	--	--	--	--	--	--	--
26...	250	E6	--	--	--	--	--	--	--	--	--	--
JUL												
14...	280	E7	--	--	--	--	--	--	--	--	--	--
AUG												
04...	346	E9	7	4.9	1.5	7.1	620	2	.8	58	12	33
SEP												
14...	372	10	--	--	--	--	--	--	--	--	--	--

DATE	IRON SEDIMENT SUSP. PERCENT (30269)	LEAD SED. SUSP. (UG/G) (29836)	LITHIUM SEDIMENT SUSP. (UG/G) (35050)	MANGANESE SED. SUSP. (UG/G) (29839)	MERCURY SED. SUSP. (UG/G) (29841)	MOLYBDENUM SED. SUSP. (UG/G) (29843)	NICKEL SED. SUSP. (UG/G) (29845)	SELENIUM SED. SUSP. (UG/G) (29847)	SILVER SED. SUSP. (UG/G) (29850)	STRONTIUM SEDIMENT SUSP. (UG/G) (35040)	THALLIUM SUS SED (UG/G) (49955)	TITANIUM SEDIMENT SUSP. PERCENT (30317)
OCT												
12...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
23...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
16...	.90	13	21	340	.03	5	52	1	<1	310	<50	.13
JAN												
21...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
17...	1.4	20	22	520	<.01	<10	52	1	<1	380	<100	.18
MAR												
21...	1.4	15	26	450	.04	<10	33	2	<1	520	<100	.18
APR												
27...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
10...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
02...	2.3	23	27	1800	.05	<5	31	2	<1	280	<50	.25
21...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
14...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
04...	2.3	24	31	1500	.09	3	33	2	<1	290	<100	.29
SEP												
14...	--	--	--	--	--	--	--	--	--	--	--	--

PLATTE RIVER BASIN

06805500 PLATTE RIVER AT LOUISVILLE, NE--Continued
(National Stream-Quality Accounting Network, NASQAN, station)
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WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	VANADIUM SED. SUSP. (UG/G) (29853)	ZINC SED. SUSP. (UG/G) (29855)	2,6-DIETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)
OCT												
12...	--	--	<.003	<.002	<.002	<.002	.097	<.002	<.002	<.003	<.003	<.004
NOV												
23...	--	--	<.003	<.002	<.002	<.002	.066	<.002	<.002	<.003	<.003	<.004
DEC												
16...	31	120	<.003	<.002	<.002	<.002	.046	<.002	<.002	<.003	<.003	<.004
JAN												
21...	--	--	<.003	<.002	<.002	<.002	.068	<.002	<.002	E.006	<.003	<.004
FEB												
17...	45	250	<.003	<.002	<.002	<.002	.044	<.002	<.002	<.003	<.003	<.004
MAR												
21...	46	180	<.003	<.002	<.002	<.002	.044	<.002	<.002	<.003	<.003	<.004
APR												
27...	--	--	<.003	.056	.014	<.002	.142	<.002	<.002	<.003	<.003	<.004
MAY												
10...	--	--	<.003	.111	.033	<.002	.241	<.002	<.002	<.003	<.003	<.004
19...	--	--	<.003	.402	.032	<.002	2.37	<.002	<.002	<.003	<.003	<.004
JUN												
02...	80	190	<.003	.132	.026	<.002	1.37	<.002	<.002	<.003	<.003	<.004
21...	--	--	<.003	.051	.014	<.002	.758	<.002	<.002	E.004	<.003	<.004
26...	--	--	<.003	.623	.101	<.002	3.14	<.002	<.002	E.013	E.034	.015
JUL												
14...	--	--	<.003	.066	.009	<.002	.543	<.002	<.002	<.003	E.051	<.004
AUG												
04...	78	310	<.003	.008	.007	<.002	.337	<.002	<.002	<.003	<.003	<.004
SEP												
14...	--	--	<.003	<.002	<.002	<.002	.090	<.002	<.002	<.003	<.003	<.004

DATE	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	DISULFOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHALFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHOPROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)
OCT											
12...	.008	E.004	E.043	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004
NOV											
23...	<.004	<.002	E.032	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004
DEC											
16...	.008	<.002	E.035	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004
JAN											
21...	.007	<.002	E.046	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004
FEB											
17...	.006	<.002	E.031	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004
MAR											
21...	<.004	<.002	E.039	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004
APR											
27...	.011	<.002	E.059	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004
MAY											
10...	.017	<.002	E.051	E.002	<.001	<.017	E.003	<.004	<.003	<.003	<.004
19...	.018	<.002	E.11	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004
JUN											
02...	.128	<.002	E.18	<.002	<.001	<.017	<.006	<.004	<.003	<.003	<.004
21...	.029	E.001	E.099	.024	<.001	<.017	<.002	<.004	<.003	<.003	<.004
26...	.377	E.001	E.43	.039	<.001	<.017	.004	<.004	<.003	<.003	<.004
JUL											
14...	.057	<.002	E.12	.015	<.001	<.017	<.002	<.004	<.003	<.003	<.004
AUG											
04...	.014	<.002	E.095	E.003	<.001	<.017	<.002	<.004	<.003	<.003	<.004
SEP											
14...	<.004	<.002	E.043	.004	<.001	<.017	<.002	<.004	<.003	<.003	<.004

PLATTE RIVER BASIN

06805500 PLATTE RIVER AT LOUISVILLE, NE--Continued
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DATE	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)
OCT											
12...	<.002	<.005	<.001	<.006	.013	<.004	<.004	<.003	<.006	<.004	<.004
NOV											
23...	<.002	<.005	<.001	<.006	.010	<.004	<.004	<.003	<.006	<.004	<.004
DEC											
16...	<.002	<.005	<.001	<.006	.010	<.004	<.004	<.003	<.006	<.004	<.004
JAN											
21...	<.002	<.005	<.001	<.006	.014	<.025	<.004	<.003	<.006	<.004	<.004
FEB											
17...	<.002	<.005	<.001	<.006	.010	<.004	<.004	<.003	<.006	<.004	<.004
MAR											
21...	<.002	<.005	<.001	<.006	.009	<.004	<.004	<.003	<.006	<.004	<.004
APR											
27...	<.002	<.005	<.001	<.006	.061	<.004	<.004	<.003	<.006	<.004	<.004
MAY											
10...	<.002	<.005	<.001	<.006	.114	E.003	<.004	<.003	E.002	<.004	<.004
19...	<.002	<.005	<.001	<.006	.983	<.004	<.004	<.003	<.006	<.004	<.004
JUN											
02...	<.002	<.005	<.001	<.006	.528	<.004	<.004	<.003	<.006	<.004	<.004
21...	<.002	<.005	<.001	<.006	.269	.010	<.004	<.003	<.006	<.004	<.004
26...	<.007	<.005	<.001	<.006	1.41	.095	<.004	<.003	<.006	<.004	<.004
JUL											
14...	<.002	<.005	<.001	<.006	.336	.013	<.004	<.003	<.006	<.004	<.004
AUG											
04...	<.002	<.005	<.001	<.006	.077	<.004	<.004	<.003	<.006	<.004	<.004
SEP											
14...	<.002	<.005	<.001	<.006	.011	<.004	<.004	<.003	<.006	<.004	<.004

DATE	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
OCT											
12...	<.004	<.005	<.002	E.011	<.003	<.007	<.004	<.013	.006	E.005	<.007
NOV											
23...	<.004	<.005	<.002	E.014	<.003	<.007	<.004	<.013	<.005	<.010	<.007
DEC											
16...	<.004	<.005	<.002	E.008	<.003	<.007	<.004	<.013	.006	E.004	<.007
JAN											
21...	<.004	<.005	<.002	E.009	<.003	<.007	<.004	<.013	E.004	<.010	<.007
FEB											
17...	<.004	<.005	<.002	E.007	<.003	<.007	<.004	<.013	E.003	E.003	<.007
MAR											
21...	<.004	<.005	<.002	E.007	<.003	<.007	<.004	<.013	E.004	<.010	<.007
APR											
27...	<.004	<.005	<.002	E.011	<.003	<.007	<.004	<.013	.014	E.007	<.007
MAY											
10...	<.004	<.005	<.002	E.015	<.003	<.007	<.004	<.013	.005	<.010	<.007
19...	<.020	<.005	<.002	E.015	<.003	E.005	<.004	<.013	.012	<.010	<.007
JUN											
02...	<.004	<.005	<.002	.021	<.003	<.007	<.004	<.013	.015	E.004	<.007
21...	.008	<.005	<.002	.031	<.003	<.007	<.004	<.013	.009	<.010	<.007
26...	.018	<.005	<.002	.035	<.003	<.007	<.004	<.013	.021	.019	<.007
JUL											
14...	<.004	<.005	<.002	.024	<.003	<.007	<.004	<.013	.012	<.010	<.007
AUG											
04...	<.004	<.005	<.002	E.011	<.003	<.007	<.004	<.013	.008	<.010	<.007
SEP											
14...	<.004	<.005	<.002	E.008	<.003	<.007	<.004	<.013	.010	<.010	<.007

PLATTE RIVER BASIN

06805500 PLATTE RIVER AT LOUISVILLE, NE--Continued
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(National Water-Quality Assessment, NAWQA, station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TER-BUTHYL-AZINE, WATER, DISS, REC (UG/L) (04022)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	URANIUM SEDI-MENT SUSP. (UG/G) (35046)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT SUSP., FLOW-THROUGH CENTRIF (MG/L) (50279)
OCT											
12...	<.013	E.002	<.002	<.001	<.002	--	--	47	638	14100	--
NOV											
23...	<.013	--	<.002	<.001	<.002	--	--	28	558	11900	--
DEC											
16...	<.013	--	<.002	<.001	<.002	12	<50	30	597	12600	376
JAN											
21...	<.013	--	<.002	<.001	<.002	--	--	9	1270	26400	--
FEB											
17...	<.013	--	<.002	<.001	<.002	14	<100	32	488	11800	263
MAR											
21...	<.013	--	<.002	<.001	<.002	12	<100	32	769	16800	333
APR											
27...	<.013	.010	<.002	<.001	<.002	--	--	36	460	8010	--
MAY											
10...	<.013	E.014	<.002	<.001	<.002	--	--	43	391	6420	--
19...	<.013	.011	<.002	<.001	E.003	--	--	24	1910	35600	--
JUN											
02...	<.013	E.023	<.002	<.001	<.002	9	<50	78	505	10400	367
21...	<.013	E.017	<.002	<.001	<.002	--	--	59	275	3220	--
26...	<.013	E.020	<.002	<.001	.010	--	--	66	5020	239000	--
JUL											
14...	<.013	E.059	<.002	<.001	.004	--	--	89	1540	28300	--
AUG											
04...	<.013	E.004	<.002	<.001	<.002	6	<100	82	237	2290	178
SEP											
14...	<.013	E.019	<.002	<.001	<.002	--	--	46	282	1520	--

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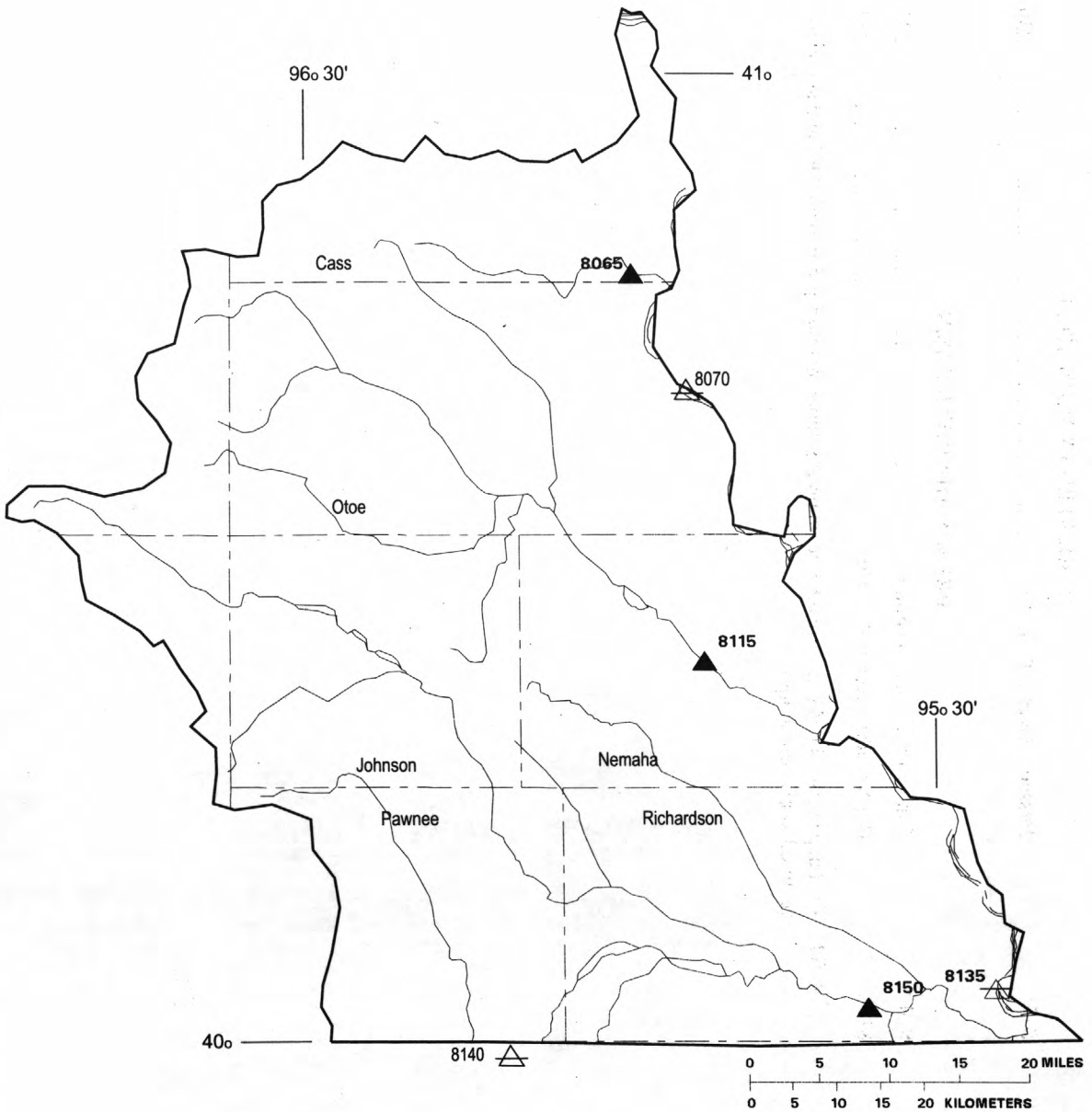
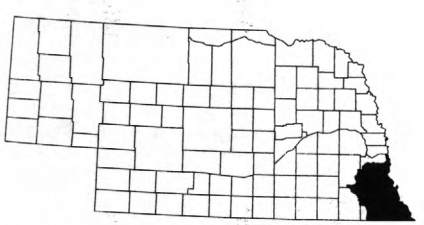


EXPLANATION

- Hydrologic boundary
- County line
- Streams
- Stream-flow gaging station
- Gaging station run by neighboring state

NOTE: To change abbreviated station number to complete station number, prefix with "06" and add zero's required to give eight digits.



*Station number	Station name	Page
	WEEPING WATER CREEK BASIN	
8065	Weeping Water Creek at Union	224
	MISSOURI RIVER MAIN STEM	
8070	Missouri River at Nebraska City, NE	226
	LITTLE NEMAHA RIVER BASIN	
8115	Little Nemaha River at Auburn	228
	MISSOURI RIVER MAIN STEM	
8135	Missouri River at Rulo, NE	230
	BIG NEMAHA RIVER BASIN	
8140	Turkey Creek near Seneca, KS	232
8150	Big Nemaha River at Falls City	234

*NOTE: To change abbreviated station number to complete station number, prefix with "06" and add zeros required to give eight digits.

WEEPING WATER CREEK BASIN

06806500 WEEPING WATER CREEK AT UNION, NE

LOCATION.--Lat 40°47'35", long 095°54'40", in SW ¼ NW ¼ sec.36, T.10 N., R.13 E., Cass County, Hydrologic unit 10240001, on left bank near downstream side of bridge on U.S. Highways 73 and 75, 1.5 mi southeast of Union, 2.8 mi downstream from South Branch Weeping Water Creek, and at mile 6.2.

DRAINAGE AREA.--241 mi^2.

PERIOD OF RECORD.--February 1950 to current year.

REVISED RECORDS.--WSP 2118: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 926.72 ft above sea level. Prior to May 14, 1951, nonrecording gage at site 2 mi upstream at different datum. May 15, 1951 to Aug. 22, 1968 water-stage recorder for stages above 7.9 ft and nonrecording gage, Aug. 23, 1968 to Aug. 22, 1980 water-stage recorder on downstream side of bridge pier, Aug. 23, 1980 to Nov. 4, 1980 at present site, all at datum 3.00 ft higher. Nov. 5, 1980 to Aug. 23, 1984 at present site and datum. Aug. 24, 1984 to Mar. 5, 1986 on left bank 200 ft upstream at present datum. Data collection platform at station.

REMARKS.--Records good except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e47	57	55	54	e33	61	40	37	21	70	34	20
2	e45	54	58	52	e33	58	41	37	19	68	32	20
3	e44	54	57	e40	e32	53	39	38	17	329	32	20
4	e45	56	57	e34	e34	51	36	35	17	114	32	20
5	e46	58	56	e37	e36	50	39	36	17	100	32	19
6	e48	57	53	e40	e37	49	37	33	15	133	32	18
7	e50	59	53	e42	e39	48	38	32	15	119	30	17
8	53	60	55	e43	e40	49	34	36	14	74	29	17
9	53	60	53	e44	e37	47	36	35	12	62	28	17
10	53	59	51	e43	e35	44	37	30	12	55	26	16
11	52	58	51	e42	e35	41	36	31	11	51	23	16
12	52	58	52	e40	e34	40	35	31	15	51	22	15
13	51	59	51	e38	e34	40	34	23	65	65	21	14
14	50	59	52	e46	e33	40	37	21	143	51	20	15
15	54	58	e48	e44	e34	42	37	23	57	47	20	14
16	54	59	e48	e36	e35	41	39	24	35	45	21	13
17	51	59	e46	e36	e35	40	45	24	28	43	19	14
18	52	59	e44	e37	e36	41	46	24	25	260	20	14
19	53	58	e38	e36	e38	47	45	23	23	101	25	14
20	55	53	e35	e35	40	47	42	23	40	66	33	16
21	57	56	e40	e36	43	45	39	25	60	56	32	17
22	57	58	e45	e36	48	44	39	24	36	49	29	19
23	54	84	49	e35	67	44	39	23	258	45	32	19
24	53	88	51	e35	76	60	38	21	3440	43	33	17
25	57	65	52	e34	74	53	36	19	865	44	28	17
26	56	59	53	e34	71	47	34	23	3280	42	26	17
27	57	57	54	e35	57	43	38	29	316	71	24	16
28	57	58	55	e34	53	44	40	28	143	45	23	15
29	56	54	56	e34	52	44	36	26	97	42	22	14
30	57	54	56	e33	---	41	34	24	79	39	21	13
31	56	---	55	e32	---	39	---	22	---	36	20	---
TOTAL	1625	1787	1579	1197	1251	1433	1146	860	9175	2416	821	493
MEAN	52.4	59.6	50.9	38.6	43.1	46.2	38.2	27.7	306	77.9	26.5	16.4
MAX	57	88	58	54	76	61	46	38	3440	329	34	20
MIN	44	53	35	32	32	39	34	19	11	36	19	13
AC-FT	3220	3540	3130	2370	2480	2840	2270	1710	18200	4790	1630	978

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2000, BY WATER YEAR (WY)

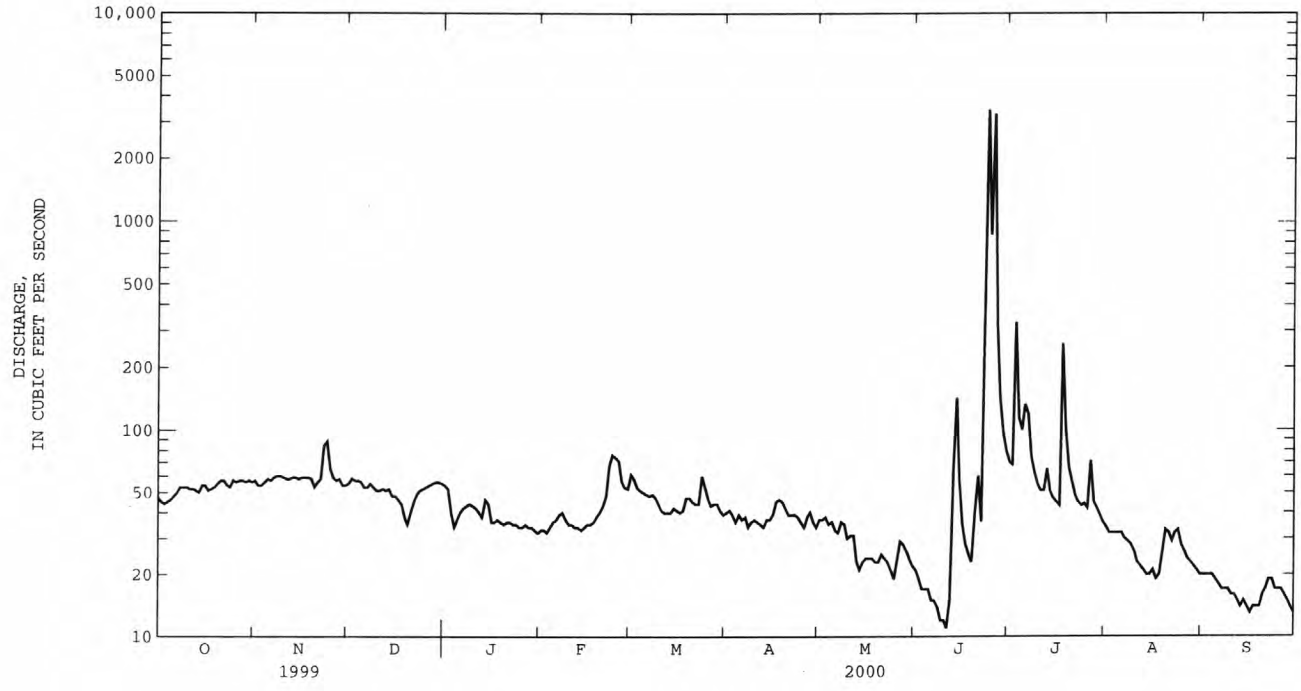
MEAN	62.0	46.6	40.6	41.8	83.4	128	115	177	209	190	91.2	70.3
MAX	579	148	136	177	301	1049	437	678	1603	2688	507	470
(WY)	1987	1974	1987	1974	1971	1979	1999	1987	1984	1993	1987	1989
MIN	.55	1.26	2.09	2.01	4.16	7.57	4.60	3.15	2.39	1.49	.70	2.21
(WY)	1957	1957	1957	1957	1957	1956	1956	1956	1956	1954	1955	1976

WEEPING WATER CREEK BASIN

06806500 WEEPING WATER CREEK AT UNION, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1951 - 2000	
ANNUAL TOTAL	78067		23783			
ANNUAL MEAN	214		65.0		105	
MEDIAN OF ANNUAL MEANS					76	
HIGHEST ANNUAL MEAN					433	1993
LOWEST ANNUAL MEAN					19.9	1956
HIGHEST DAILY MEAN	8390	Jun 27	3440	Jun 24	34000	Jul 23 1993
LOWEST DAILY MEAN	35	Dec 20	11	Jun 11	.10	Sep 10 1955
ANNUAL SEVEN-DAY MINIMUM	42	Dec 16	13	Jun 6	.13	Sep 9 1955
INSTANTANEOUS PEAK FLOW			7730	Jun 26	65100	Jul 23 1993
INSTANTANEOUS PEAK STAGE			24.41	Jun 26	30.97	Jul 23 1993
ANNUAL RUNOFF (AC-FT)	154800		47170		75830	
10 PERCENT EXCEEDS	306		59		172	
50 PERCENT EXCEEDS	96		40		40	
90 PERCENT EXCEEDS	53		19		9.4	

e Estimated.



MISSOURI RIVER MAIN STEM

06807000 MISSOURI RIVER AT NEBRASKA CITY, NE

LOCATION.--Lat 40°40'55", long 95°50'48", in NW¼ NE¼ sec.9, T.8 N., R.14 E., Otoe County, Hydrologic Unit 10240001, on right bank 1.0 mi upstream from Highway 2 Bridge at Nebraska City, and at mile 562.6.

DRAINAGE AREA.--410,000 mi^2, approximately. The 3,959 mi^2 in Great Divide basin are not included.

PERIOD OF RECORD.--August 1929 to current year. Gage-height records collected in this vicinity from August 1878 to December 1899 are contained in reports of Missouri River Commission.

REVISED RECORDS.--WSP 761: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 905.36 ft above sea level, supplementary adjustment of 1954. See WSP 1918 or 1919 for history of changes prior to Apr. 1, 1963.

REMARKS.--Records good. Flow regulated by upstream main-stem reservoirs. Fort Randall Dam was completed in July 1952, with storage beginning in December 1952. Gavins Point Dam was completed in July 1955, with storage beginning in December 1955. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water quality data. U.S. Army Corps of Engineers rain gage and satellite data collection platform at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 414,000 ft^3/s Apr. 19, 1952; maximum gage height, 27.66 ft Apr. 18, 1952; minimum discharge, 1,600 ft^3/s Dec. 31, 1946 (discharge measurement); minimum gage height observed, -0.28 ft Dec. 24, 1960, result of freezeup.

COOPERATION.--Records provided by U.S. Geological Survey, Iowa District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53200	51800	52300	34200	25500	30700	38900	37300	45600	42800	40700	35200
2	52900	52100	52400	33800	26000	30600	38200	37200	45200	41100	39600	35700
3	52800	52300	52700	33900	26300	29600	36700	37200	44900	43500	38900	36600
4	52800	52200	53200	33800	27600	28900	36600	37500	44500	41400	38600	37000
5	52200	52100	53300	33600	28200	28600	36400	37300	43800	40600	37700	36800
6	52700	51700	51400	31600	27300	28200	36500	37400	43300	45900	37100	36300
7	52100	52000	48800	31200	27100	28300	36600	37400	43200	49500	37100	36200
8	52300	52200	45800	31000	28500	28100	36600	38300	42500	52600	36500	36500
9	52700	52500	42400	31000	29900	28600	36600	38600	41700	47200	35800	36400
10	52800	52600	40500	32400	30500	28600	37000	38200	41400	45100	36300	36700
11	52700	52900	38500	32700	29900	28600	37700	38100	40500	43200	37000	37300
12	52600	53600	36400	32700	28300	28400	37100	38700	41100	42600	36200	37000
13	52900	53600	34700	31900	27400	27700	37100	39700	41400	42100	36100	37200
14	53400	53700	33900	31400	28200	26800	37800	41900	43300	44300	36100	37200
15	53400	54000	33200	31700	27600	27400	38000	43100	41600	41500	35800	37400
16	53400	54200	33900	31800	27500	26800	39100	43300	42800	40700	35400	37300
17	53000	54500	33700	32500	27800	27100	40000	42900	42100	39600	35900	37200
18	53500	54400	33000	31700	28200	27300	40500	43000	41000	41200	35800	37200
19	53500	54600	32200	30400	28700	27500	40500	44100	40700	41500	36700	36900
20	53300	54700	32100	32000	27900	27400	39400	46100	41800	39600	37700	37200
21	53200	54400	32000	32100	28300	30400	39600	46000	41200	39000	36500	37900
22	52700	54000	31200	30400	28600	32900	39500	45600	41100	39600	36600	37800
23	52800	55000	29000	30200	29500	34900	39600	46900	41400	38900	37900	38000
24	52600	54900	28600	30500	30100	37700	39300	46800	47900	38400	37700	38200
25	52600	54400	31000	30700	30900	38600	38400	45800	44300	39000	37000	38100
26	52200	53600	32200	30300	31700	39500	37900	46300	58500	39500	36400	37800
27	52100	52600	32800	30000	32100	39700	38000	46400	65600	40900	36300	37900
28	52400	52100	33600	29200	31200	40400	38400	46200	54000	41200	36200	37200
29	52800	51500	34200	27800	30300	40000	38500	46000	46700	39300	35800	37100
30	52900	51700	34200	25900	---	40300	38000	45700	44400	39700	35400	37400
31	52600	---	34300	25800	---	39600	---	45400	---	40000	35300	---
TOTAL	1637100	1595900	1187500	968200	831100	979200	1144500	1304400	1337500	1301500	1142100	1112700
MEAN	52810	53200	38310	31230	28660	31590	38150	42080	44580	41980	36840	37090
MAX	53500	55000	53300	34200	32100	40400	40500	46900	65600	52600	40700	38200
MIN	52100	51500	28600	25800	25500	26800	36400	37200	40500	38400	35300	35200
AC-FT	3247000	3165000	2355000	1920000	1648000	1942000	2270000	2587000	2653000	2582000	2265000	2207000
CFSM	.13	.13	.09	.08	.07	.08	.09	.10	.11	.10	.09	.09
IN.	.15	.14	.11	.09	.08	.09	.10	.12	.12	.12	.10	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2000, BY WATER YEAR (WY)

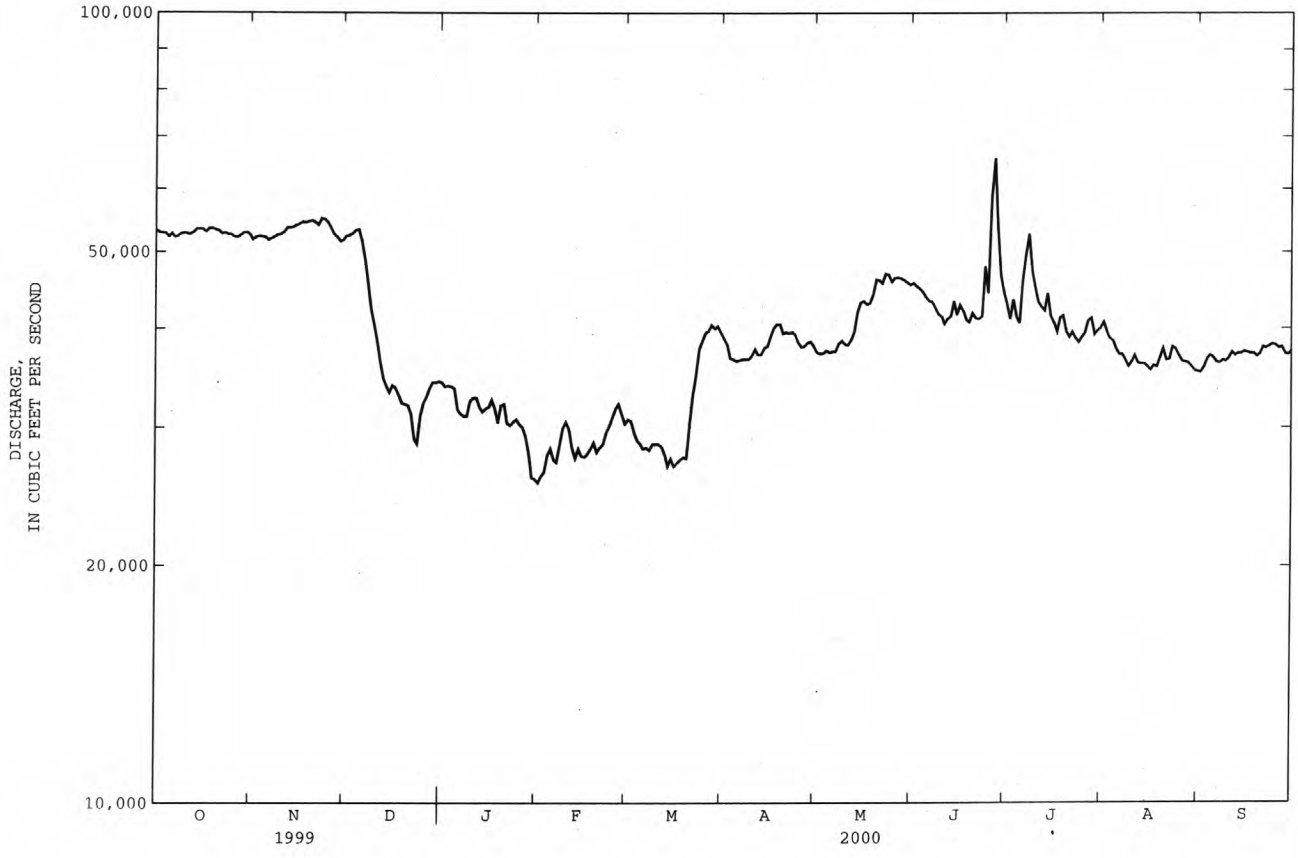
MEAN	43050	39090	25760	21510	26740	38110	47840	47670	52680	46790	43030	42880
MAX	76760	79410	52410	39970	48630	66730	98960	90280	117500	116700	71540	73410
(WY)	1998	1998	1987	1987	1983	1983	1997	1997	1984	1993	1996	1997
MIN	22420	14380	10510	10160	12780	15310	21850	32470	33530	32760	29870	32560
(WY)	1962	1962	1956	1957	1957	1957	1957	1955	1958	1961	1955	1958

MISSOURI RIVER MAIN STEM

06807000 MISSOURI RIVER AT NEBRASKA CITY, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1953 - 2000a	
ANNUAL TOTAL	19303100		14541700			
ANNUAL MEAN	52890		39730		39630	
HIGHEST ANNUAL MEAN					66450	1997
LOWEST ANNUAL MEAN					25370	1957
HIGHEST DAILY MEAN	102000	Jun 29	65600	Jun 27	188000	Jul 25 1993
LOWEST DAILY MEAN	28600	Dec 24	25500	Feb 1	4320	Jan 11 1957
ANNUAL SEVEN-DAY MINIMUM	30900	Dec 19	26400	Jan 29	5590	Nov 29 1955
INSTANTANEOUS PEAK FLOW			67800	Jun 27	196000	Jul 23 1993
INSTANTANEOUS PEAK STAGE			15.33	Jun 27	27.19	Jul 23 1993
INSTANTANEOUS LOW FLOW			25300	Feb 1		
ANNUAL RUNOFF (AC-FT)	38290000		28840000		28710000	
ANNUAL RUNOFF (CFSM)	.13		.097		.097	
ANNUAL RUNOFF (INCHES)	1.75		1.32		1.31	
10 PERCENT EXCEEDS	67700		52800		62100	
50 PERCENT EXCEEDS	53200		38100		37400	
90 PERCENT EXCEEDS	36000		28600		17600	

a Post regulation.



LITTLE NEMAHA RIVER BASIN

06811500 LITTLE NEMAHA RIVER AT AUBURN, NE

LOCATION.--Lat 40°23'33", long 095°48'46", in NE ¼ NW ¼ sec.23, T.5 N., R.14 E., Nemaha County, Hydrologic Unit 10240006, on left bank at downstream side of bridge on U.S. Highway 136, 1 mi downstream from Longs Creek and Willow Creek, 1 mi east of Auburn, and at mile 10.4.

DRAINAGE AREA.--792 mi^2.

PERIOD OF RECORD.--August 1949 to current year.

REVISED RECORDS.--WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 889.87 ft above sea level. See WSP 2119 for history of changes prior to July 24, 1967. Data collection platform at station.

REMARKS.--Records good except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	99	111	e88	e80	137	89	82	e35	251	63	41
2	83	96	115	e86	e90	122	91	82	e33	212	61	40
3	84	97	118	e84	e98	112	86	76	e32	762	61	39
4	90	105	109	e82	e100	104	82	71	e31	1850	60	42
5	92	106	107	e84	e102	101	84	67	e30	697	60	41
6	90	101	105	e92	e102	98	79	65	e28	319	59	40
7	89	103	114	e94	e100	94	78	65	e27	206	57	40
8	87	103	118	e92	e100	93	76	71	e26	157	54	39
9	86	104	114	e94	e94	90	79	79	26	121	53	39
10	85	100	105	e92	e90	89	79	72	26	95	50	38
11	85	98	e104	e90	e86	88	77	66	32	91	47	37
12	87	101	e104	e90	e84	87	78	59	32	379	46	35
13	84	104	e102	e92	e90	86	76	53	65	224	45	35
14	84	101	e100	e94	e100	87	76	51	106	131	44	35
15	86	99	e96	e96	116	89	75	54	91	93	42	35
16	86	103	e94	e98	107	86	85	54	45	83	42	35
17	83	103	e88	e96	105	85	104	56	36	79	43	35
18	85	106	e82	e92	108	89	107	56	33	193	43	36
19	88	98	e76	e80	113	99	94	53	32	530	64	35
20	92	97	e70	e68	117	101	84	e50	49	196	78	40
21	97	103	e66	e72	125	99	82	e48	56	303	69	41
22	94	113	e82	e86	128	99	82	e46	45	167	58	41
23	90	168	e90	e78	161	100	79	e44	1860	103	53	44
24	93	179	e96	e68	204	137	76	e44	5900	82	52	42
25	98	146	e98	e70	192	132	75	e42	2650	75	50	47
26	100	130	e108	e72	181	108	75	e46	9100	73	60	42
27	102	122	e112	e74	140	97	81	e52	1860	73	54	38
28	100	113	e116	e74	124	91	79	e58	933	264	52	36
29	98	107	e114	e76	118	90	74	e50	547	98	48	36
30	99	109	e102	e76	---	89	73	e40	344	72	45	34
31	96	---	e90	e78	---	84	---	e36	---	67	43	---
TOTAL	2799	3314	3106	2608	3355	3063	2455	1788	24110	8046	1656	1158
MEAN	90.3	110	100	84.1	116	98.8	81.8	57.7	804	260	53.4	38.6
MAX	102	179	118	98	204	137	107	82	9100	1850	78	47
MIN	83	96	66	68	80	84	73	36	26	67	42	34
AC-FT	5550	6570	6160	5170	6650	6080	4870	3550	47820	15960	3280	2300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2000, BY WATER YEAR (WY)

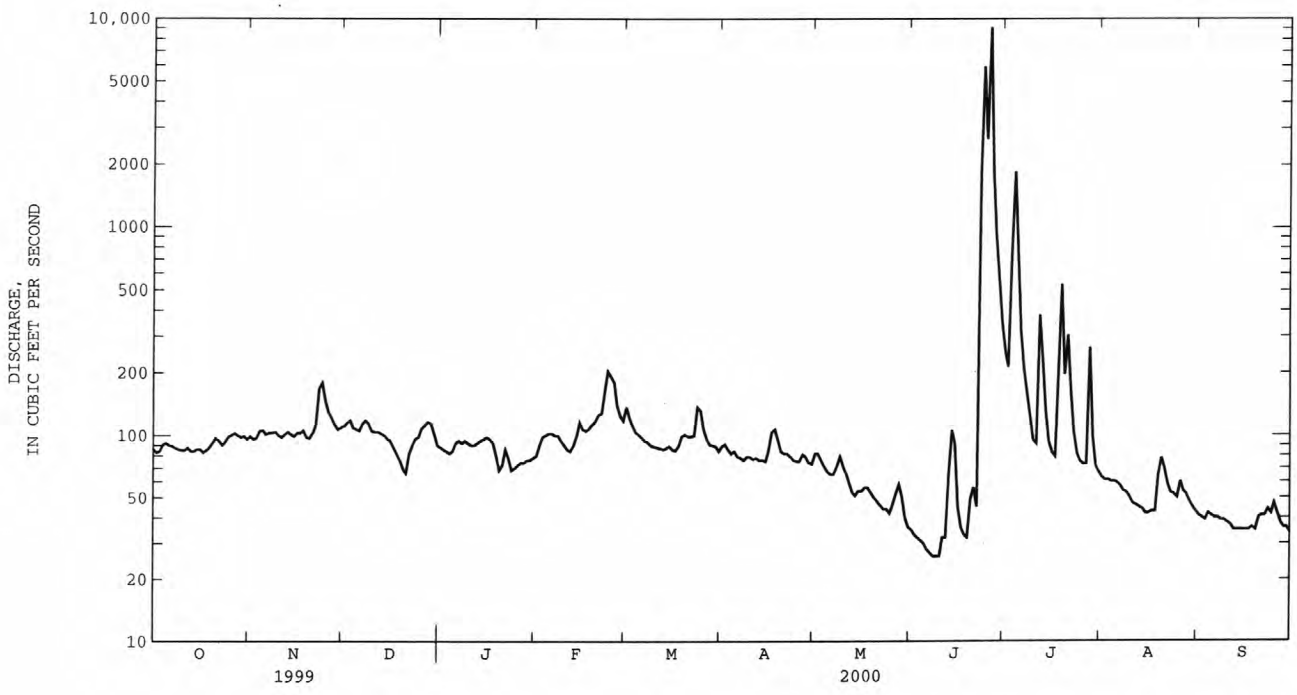
MEAN	223	136	115	119	230	445	372	567	548	599	226	241
MAX	2003	493	509	562	747	2870	1589	2949	3524	9419	1256	1546
(WY)	1974	1999	1987	1974	1993	1979	1984	1996	1951	1993	1982	1977
MIN	25.4	25.7	23.4	19.7	28.4	49.1	30.6	29.9	14.9	16.2	14.0	26.6
(WY)	1992	1956	1957	1957	1956	1957	1956	1956	1977	1977	1955	1991

LITTLE NEMAHA RIVER BASIN

06811500 LITTLE NEMAHA RIVER AT AUBURN, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1950 - 2000	
ANNUAL TOTAL	171153		57458			
ANNUAL MEAN	469		157		319	
MEDIAN OF ANNUAL MEANS					260	
HIGHEST ANNUAL MEAN					1389	1993
LOWEST ANNUAL MEAN					64.4	1981
HIGHEST DAILY MEAN	15200	May 21	9100	Jun 26	70400	Jul 24 1993
LOWEST DAILY MEAN	66	Dec 21	26	Jun 8	.87	Jul 6 1977
ANNUAL SEVEN-DAY MINIMUM	79	Dec 17	28	Jun 4	1.1	Jul 3 1977
INSTANTANEOUS PEAK FLOW			19100	Jun 24	164000	May 9 1950
INSTANTANEOUS PEAK STAGE			21.98	Jun 24	*27.65	May 9 1950
ANNUAL RUNOFF (AC-FT)	339500		114000		231100	
10 PERCENT EXCEEDS	829		130		470	
50 PERCENT EXCEEDS	176		86		101	
90 PERCENT EXCEEDS	86		40		35	

e Estimated.
* From floodmark.



MISSOURI RIVER MAIN STEM

06813500 MISSOURI RIVER AT RULO, NE

LOCATION.--Lat 40°03'13", long 95°25'19", in NW¼ NW¼ sec.17, T.1 N., R.18 E., Richardson County, Hydrologic Unit 10240005, on right bank at downstream side of bridge on U.S. Highway 159 at Rulo, 3.2 mi upstream from Big Nemaha River, and at mile 498.0.

DRAINAGE AREA.--414,900 mi^2, approximately. The 3,959 mi^2 in Great Divide basin are not included.

PERIOD OF RECORD.--October 1949 to current year in reports of U.S. Geological Survey. Gage- height record collected at site 80 ft upstream January 1886 to December 1899 published in reports of Missouri River Commission; September 1929 to September 1950 in files of Kansas City office of U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 837.23 ft above sea level. Oct. 1949 to Sept. 12, 1950, nonrecording gage at site 80 ft upstream and Sept. 13, 1950 to Apr. 19, 1983, recording gage on downstream end of middle pier, all at same datum.

REMARKS.--Records good, except those for estimated daily discharges, which are poor. Flow regulated by upstream main-stem reservoirs. Fort Randall Dam was completed in July 1952, with storage beginning in December 1952. Gavins Point Dam was completed in July 1955, with storage beginning in December 1955. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water quality data. U.S. Army Corps of Engineers satellite data collection platform at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 358,000 ft^3/s Apr. 22, 1952, gage height, 25.60 ft; minimum daily discharge, 4,420 ft^3/s Jan. 13, 1957; minimum gage height, -0.19 ft Dec. 25, 1990, result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1881 reached a stage of 22.9 ft, from floodmark, discharge not determined.

COOPERATION.--Records provided by U.S. Geological Survey, Iowa District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55100	57300	55500	37600	28600	32800	40500	40100	47400	44600	41900	35800
2	55900	57200	56000	37100	28300	33100	40400	39600	47400	43000	41400	36000
3	56000	57700	55500	36900	28600	32900	39300	39500	47000	43600	40900	36800
4	57100	58200	55800	36900	29200	31700	39000	39400	46800	48800	40400	37700
5	57100	58300	56000	36400	30300	31400	38400	39400	45800	47100	40200	37800
6	57300	57500	55400	35200	29800	31100	38300	39300	45200	45000	39400	37400
7	58000	57500	52400	33900	28900	30900	38800	39200	44800	51500	39200	37000
8	57100	57900	49600	33100	29100	30800	38800	39000	44700	55200	39100	37100
9	57500	58000	46000	32700	31000	31000	38600	40000	44100	51500	38300	37100
10	57300	58200	43600	33100	31800	31300	39200	39500	43700	47200	38000	37000
11	56800	57800	42200	33800	31500	31600	39500	39200	43300	46100	38400	37100
12	56400	58100	40400	33900	30300	31700	39700	39000	43200	44900	38400	37100
13	56600	58400	38900	33400	28900	31300	38900	39500	44200	44500	37400	37200
14	56200	58100	38000	32900	28600	30300	38900	40800	47000	44800	37500	37500
15	56500	58200	37600	33400	29200	29600	39600	42600	47200	45100	37000	37800
16	57200	58000	37300	33900	28400	28900	39900	43600	45300	42500	36200	38300
17	57100	58200	38000	34400	28400	28700	41000	43900	45000	42000	36200	38300
18	57200	58400	37400	34700	29400	28500	41800	43700	43800	41900	36800	38400
19	58100	57700	36800	33600	30300	28300	42000	44100	43100	44100	37400	38600
20	58200	57800	36600	34000	30300	28000	41000	46500	43100	43100	39000	38800
21	58300	57500	36400	35300	30300	29700	40700	47600	43600	42000	38900	39100
22	57700	57000	36100	34100	31000	32700	41000	46900	43000	42200	38200	39800
23	57400	58000	34700	33300	31700	35200	40800	47500	43600	42300	38400	39600
24	57100	58300	32600	33300	32400	38400	41100	48100	e54000	41400	39100	39800
25	57000	57600	33600	33500	32600	40200	40200	47100	e52000	42400	38400	40000
26	57000	57200	36100	33100	33700	40900	39900	47600	e70000	42800	37600	39500
27	56600	56800	36400	32700	34500	41600	39600	48400	67600	44000	37100	39200
28	55700	55900	37000	32500	34200	41500	40300	48300	59400	45100	36800	38900
29	56600	55400	37700	31400	33000	41500	40600	48200	49800	44100	36600	38300
30	57200	55300	37900	29700	---	40900	40500	47700	46100	41400	36000	38300
31	57400	---	37800	28700	---	40700	---	47500	---	41200	36000	---
TOTAL	1766700	1727500	1305300	1048500	884300	1037200	1198300	1342800	1431200	1385400	1186200	1141300
MEAN	56990	57580	42110	33820	30490	33460	39940	43320	47710	44690	38260	38040
MAX	58300	58400	56000	37600	34500	41600	42000	48400	70000	55200	41900	40000
MIN	55100	55300	32600	28700	28300	28000	38300	39000	43000	41200	36000	35800
AC-FT	3504000	3426000	2589000	2080000	1754000	2057000	2377000	2663000	2839000	2748000	2353000	2264000
CFSM	.14	.14	.10	.08	.07	.08	.10	.10	.11	.11	.09	.09
IN.	.16	.15	.12	.09	.08	.09	.11	.12	.13	.12	.11	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2000, BY WATER YEAR (WY)

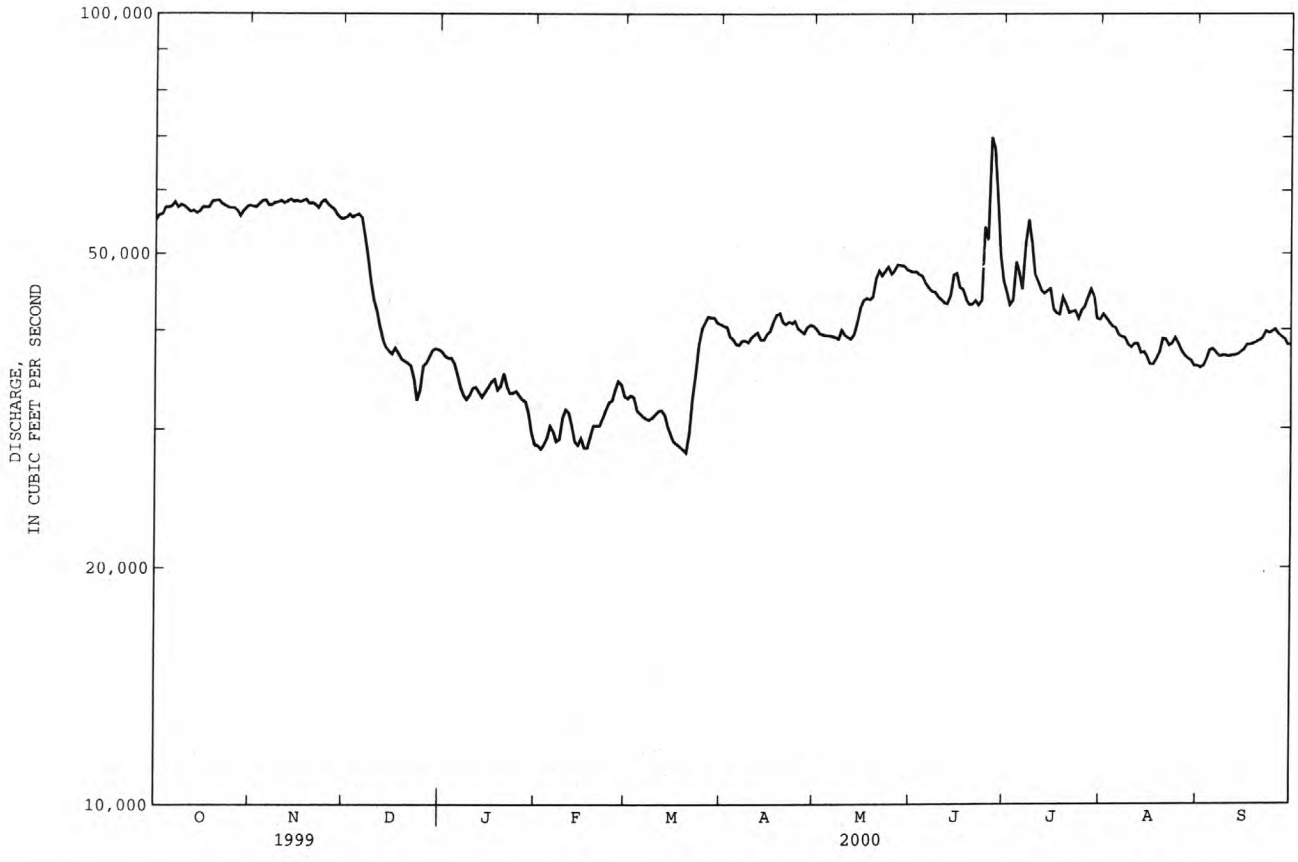
MEAN	45070	41210	27510	22850	28760	41380	51490	51910	57190	51380	45340	45490
MAX	80050	83880	57380	42280	53140	79590	106100	97280	130600	164800	78730	76410
(WY)	1998	1998	1998	1973	1997	1979	1997	1997	1984	1993	1996	1997
MIN	25580	17000	9953	10800	13220	15380	21820	33790	33710	33860	29820	34140
(WY)	1962	1962	1956	1957	1957	1957	1957	1956	1956	1963	1955	1991

MISSOURI RIVER MAIN STEM

06813500 MISSOURI RIVER AT RULO, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1953 - 2000a	
ANNUAL TOTAL	21748700		15454700			
ANNUAL MEAN	59590		42230		42500	
HIGHEST ANNUAL MEAN					71880	1997
LOWEST ANNUAL MEAN					26340	1957
HIGHEST DAILY MEAN	122000	Jun 29	70000	Jun 26	289000	Jul 24 1993
LOWEST DAILY MEAN	32600	Dec 24	28000	Mar 20	4420	Jan 13 1957
ANNUAL SEVEN-DAY MINIMUM	35100	Dec 21	28800	Mar 15	5560	Nov 30 1955
INSTANTANEOUS PEAK FLOW			72100	Jun 26	307000	Jul 24 1993
INSTANTANEOUS PEAK STAGE			15.63	Jun 26	25.37	Jul 24 1993
INSTANTANEOUS LOW FLOW			27700	Mar 20		
ANNUAL RUNOFF (AC-FT)	43140000		30650000		30790000	
ANNUAL RUNOFF (CFSM)	.14		.10		.10	
ANNUAL RUNOFF (INCHES)	1.95		1.39		1.39	
10 PERCENT EXCEEDS	84100		57200		67000	
50 PERCENT EXCEEDS	57300		39800		39000	
90 PERCENT EXCEEDS	38000		31400		18700	

a Post regulation.
e Estimated.



06814000 TURKEY CREEK NEAR SENECA, KS

LOCATION.--Lat 39°56'52", long 96°06'30", in SW1/4 NW1/4 SW1/4 sec.20, T.1 S., R.12 E., Nemaha County, Hydrologic Unit 10240007, on left bank at downstream side of county highway bridge, 2.0 mi downstream from Clear Creek, 5.0 mi upstream from Big Nemaha River, and 8.0 mi northwest of Seneca.

DRAINAGE AREA.--276 mi^2.

PERIOD OF RECORD.--October 1948 to current year. Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 1,037.53 ft above sea level. Prior to Oct. 19, 1956, water-stage recorder (occasional operation only) and nonrecording gage on former channel 400 ft south of present site at present datum. Oct. 19, 1956, to June 15, 1957, nonrecording gage at highway bridge 1.2 mi upstream at different datum. June 16, 1957, to Mar. 27, 1958, nonrecording gage at present site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Satellite telemeter at station.

COOPERATION.--Records provided by U.S. Geological Survey, Kansas District.

PEAK DISCHARGES GREATER THAN BASE FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3s)	Gage height (ft)	Date	Time	Discharge (ft^3s)	Gage height (ft)
July 4	2115	*4,520	*18.26	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAILY MEAN VALUES

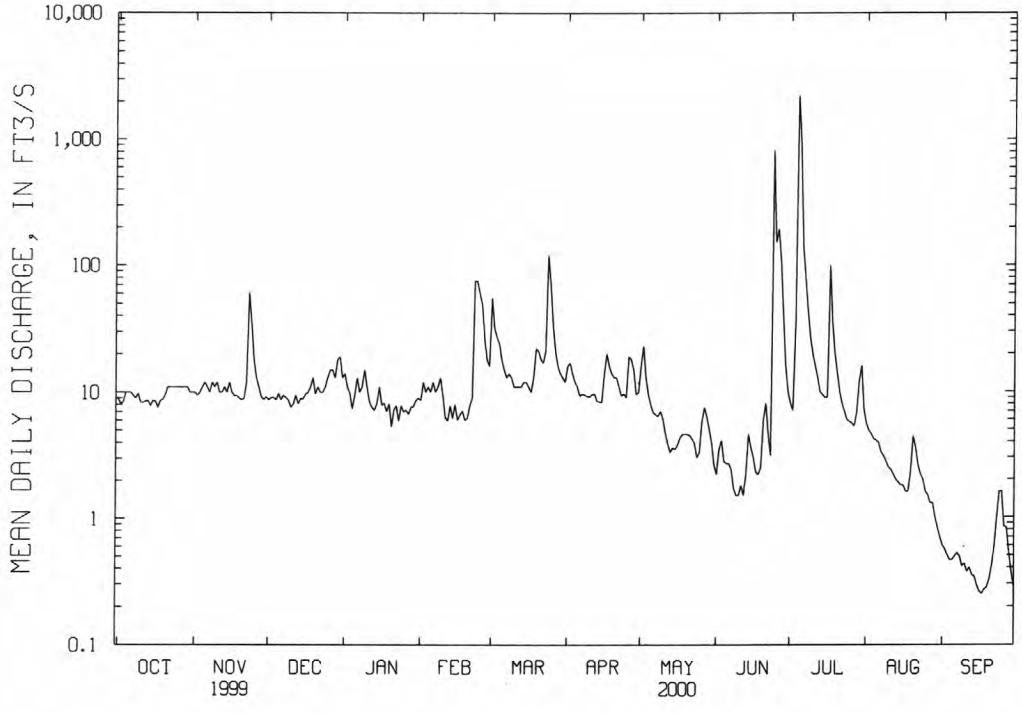
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	10	8.7	14	8.6	55	16	16	2.2	8.1	5.6	.60
2	8.1	9.5	9.1	11	12	32	17	23	3.5	7.1	4.9	.56
3	8.4	10	9.1	9.8	10	27	14	13	4.1	34	4.6	.50
4	10	11	8.7	7.4	11	24	12	9.6	2.8	2240	4.2	.46
5	10	12	9.8	9.5	10	18	11	7.9	2.7	919	4.1	.46
6	10	11	8.7	13	12	15	9.3	6.9	2.7	143	3.9	.49
7	9.5	10	9.5	10	10	13	9.7	6.6	2.4	79	3.3	.52
8	9.0	12	9.1	11	11	14	9.5	6.4	1.7	e44	3.1	.49
9	9.8	11	8.7	15	13	13	9.3	7.0	1.5	e27	2.8	.41
10	8.4	12	7.6	11	9.4	11	9.2	6.1	1.5	e20	2.5	.43
11	8.3	10	8.0	8.4	6.3	11	9.6	4.7	1.8	e16	2.4	.37
12	8.5	10	9.5	7.6	5.9	11	9.7	3.9	1.5	e13	2.2	.40
13	8.6	11	8.1	7.2	7.8	11	8.5	3.3	2.2	e10	2.0	.35
14	7.8	10	8.9	8.1	6.2	12	8.4	3.6	4.6	e9.5	1.9	.34
15	8.6	12	8.9	11	8.0	12	8.3	3.5	3.6	e9.0	1.8	.29
16	8.5	10	9.7	7.9	6.0	11	14	3.8	3.0	e9.0	1.8	.26
17	7.6	9.4	10	8.2	6.6	10	20	4.3	2.3	e100	1.6	.25
18	8.6	9.4	11	7.0	7.1	13	16	4.6	2.2	e35	1.6	.27
19	8.8	9.0	13	8.1	6.0	22	14	4.6	2.5	e20	2.3	.28
20	9.6	8.7	9.7	5.3	6.2	21	13	4.6	5.9	e14	4.4	.32
21	11	9.0	11	7.3	7.8	18	13	4.5	8.1	e10	3.6	.41
22	11	12	10	7.8	9.0	17	11	4.2	4.6	e8.0	2.6	.57
23	11	61	10	5.9	76	21	9.3	3.9	3.1	e7.0	2.2	.96
24	11	35	11	7.8	75	119	9.7	3.0	811	e6.0	2.0	1.6
25	11	18	13	7.0	60	71	9.0	3.3	151	e5.8	1.6	1.6
26	11	13	15	7.2	49	33	19	5.8	193	e5.6	1.5	.84
27	11	11	15	6.7	26	21	18	7.5	110	5.3	1.3	.83
28	11	9.2	13	7.6	18	16	15	6.3	40	6.7	1.3	.53
29	11	8.8	18	7.7	16	14	9.6	5.0	16	12	1.0	.37
30	10	9.2	19	8.6	---	13	9.9	3.9	10	16	.83	.28
31	10	---	13	9.0	---	12	---	2.6	---	7.2	.70	---
MEAN	9.55	13.1	10.8	8.81	17.6	22.9	12.1	6.24	46.7	124	2.57	.53
MAX	11	61	19	15	76	119	20	23	811	2240	5.6	1.6
MIN	7.6	8.7	7.6	5.3	5.9	10	8.3	2.6	1.5	5.3	.70	.25
AC-FT	587	782	662	542	1010	1410	718	384	2780	7630	158	32

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2000, BY WATER YEAR (WY)

MEAN	85.2	50.2	34.2	41.4	91.2	206	181	227	239	206	82.6	129
MAX	1050.	419	206	310	372	1297	1079	1354	2067	3193	914	1057
(WY)	1974.	1999	1974	1962	1982	1979	1984	1995	1951	1993	1954	1958
MIN	.000	.000	.000	.000	.018	.065	.28	2.43	2.75	.92	1.48	.000
(WY)	1957.	1957	1957	1957	1957	1957	1956	1989	1977	1989	1988	1956

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1949 - 2000	
ANNUAL MEAN	188		23.0		129	
HIGHEST ANNUAL MEAN					547	1993
LOWEST ANNUAL MEAN					3.24	1956
HIGHEST DAILY MEAN	6850	Apr 27	2240	Jul 4	16700	Oct 11 1973
LOWEST DAILY MEAN	5.7	Sep 25	.25	Sep 17	.00	Jul 28 1956
ANNUAL SEVEN-DAY MINIMUM	6.6	Sep 20	.29	Sep 14	.00	Aug 21 1956
INSTANTANEOUS PEAK FLOW			4520	Jul 4	21400	Oct 11 1973
INSTANTANEOUS PEAK STAGE			18.26	Jul 4	24.77	Oct 11 1973
INSTANTANEOUS LOW FLOW			.23	Sep 16	.00	Jul 28 1956
ANNUAL RUNOFF (AC-FT)	136400		16690		93760	
10 PERCENT EXCEEDS	330		19		210	
50 PERCENT EXCEEDS	36		9.0		22	
90 PERCENT EXCEEDS	8.6		1.5		2.1	



06814000 TURKEY C NR SENECA, KS

BIG NEMAHA RIVER BASIN

06815000 BIG NEMAHA RIVER AT FALLS CITY, NE

LOCATION.--Lat 40°02'08", long 95°35'45", in NE $^{1}/_{4}$ SE $^{1}/_{4}$ sec.22, T.1 N., R.16 E., Richardson County, Hydrologic Unit 10240008, on right bank near upstream side of bridge on U.S. Highway 73, 1 mi south of Falls City and 14.5 mi upstream from mouth.

DRAINAGE AREA.--1,339 mi^2.

PERIOD OF RECORD.--March 1944 to current year. Prior to October 1967, published as Nemaha River at Falls City.

REVISED RECORDS.--WSP 1086: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 858.24 ft above sea level. Prior to Oct. 16, 1952, nonrecording gage and Oct. 17, 1952 to Aug. 24, 1982 water-stage recorder for stages above 6.1 ft at site 150 ft downstream at datum 3.0 ft higher. Aug. 25, 1982 to Sept. 30, 1997 at present site, at datum 3.0 ft higher. Data collection platform at station.

REMARKS.--Records good except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	108	108	e106	e102	130	107	115	37	172	52	27
2	82	109	112	e106	e102	146	113	138	48	145	43	27
3	86	109	116	e100	e106	141	114	148	57	160	43	26
4	87	111	114	e90	e108	123	97	126	43	5410	39	29
5	86	113	112	e96	e110	124	88	105	39	6770	37	29
6	95	112	108	e106	e108	110	80	93	36	e1500	38	25
7	90	110	111	e108	e106	e102	82	90	35	e600	35	24
8	80	116	112	e110	e100	e100	79	91	32	e300	34	22
9	78	111	115	e114	e92	e84	77	99	26	e200	27	22
10	80	110	110	e120	e84	82	75	97	21	e150	25	21
11	79	106	107	e116	e80	81	81	95	22	111	24	21
12	77	110	109	e112	e76	78	79	83	25	100	25	19
13	72	108	110	e108	e78	79	81	72	26	89	24	19
14	74	107	109	e104	e80	82	79	65	198	84	30	19
15	78	107	111	e100	e88	89	78	63	177	63	24	19
16	79	105	e96	e100	96	88	99	65	107	57	25	20
17	76	106	e92	e96	94	83	125	69	67	88	23	20
18	78	115	e90	e92	93	88	144	72	48	378	21	20
19	83	110	e86	e90	95	123	133	71	39	54	42	20
20	90	113	e78	e90	88	139	111	74	62	126	145	29
21	99	113	e84	e96	90	141	104	69	77	677	119	36
22	105	130	e100	e104	96	130	97	65	89	346	70	36
23	99	277	e110	e108	167	137	95	62	79	160	51	45
24	103	322	e112	e110	321	226	97	60	e1600	87	37	47
25	110	252	e114	e112	348	489	90	49	e1400	76	31	51
26	109	201	e112	e112	309	274	92	55	e3000	50	31	45
27	138	177	e114	e110	261	171	124	60	1250	40	30	43
28	123	116	e112	e108	157	129	128	68	897	40	26	40
29	112	109	e110	e104	125	111	112	71	352	56	28	37
30	113	108	e110	e100	---	106	104	55	226	65	30	33
31	109	---	e108	e100	---	98	---	45	---	56	28	---
TOTAL	2869	4001	3292	3228	3760	4084	2965	2490	10115	18220	1237	871
MEAN	92.5	133	106	104	130	132	98.8	80.3	337	588	39.9	29.0
MAX	138	322	116	120	348	489	144	148	3000	6770	145	51
MIN	72	105	78	90	76	78	75	45	21	40	21	19
AC-FT	5690	7940	6530	6400	7460	8100	5880	4940	20060	36140	2450	1730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2000, BY WATER YEAR (WY)

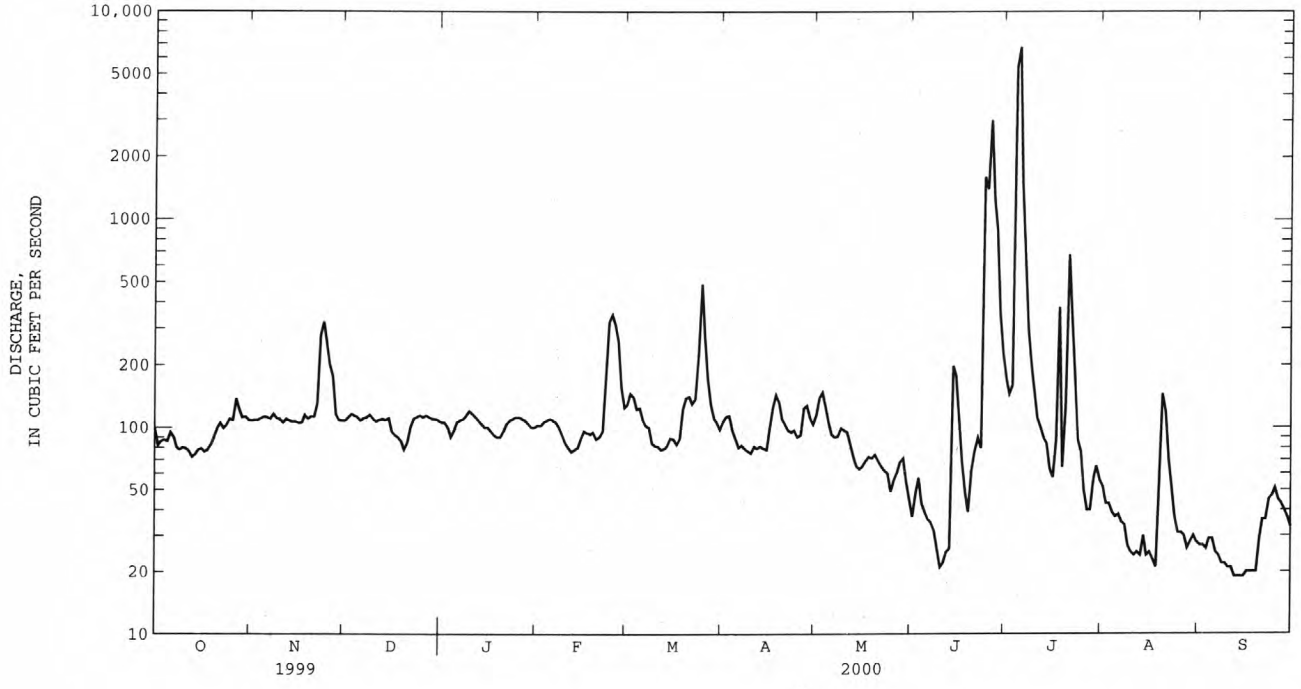
MEAN	422	276	189	230	437	882	819	1063	1141	988	474	630
MAX	5229	1851	1036	1446	2998	5819	4462	6166	7816	15690	3898	3408
(WY)	1974	1999	1974	1974	1949	1979	1984	1995	1951	1993	1954	1958
MIN	21.0	28.1	24.1	19.9	42.2	42.5	32.3	44.5	46.4	20.7	29.8	16.6
(WY)	1957	1957	1957	1957	1957	1956	1956	1989	1981	1977	1991	1956

BIG NEMAHA RIVER BASIN

06815000 BIG NEMAHA RIVER AT FALLS CITY, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1944 - 2000	
ANNUAL TOTAL	319833		57132			
ANNUAL MEAN	876		156		627	
MEDIAN OF ANNUAL MEANS					509	
HIGHEST ANNUAL MEAN					2559	1993
LOWEST ANNUAL MEAN					86.7	1956
HIGHEST DAILY MEAN	29900	Apr 27	6770	Jul 5	57600	Oct 11 1973
LOWEST DAILY MEAN	66	Sep 17	19	Sep 12	3.0	Jul 9 1977
ANNUAL SEVEN-DAY MINIMUM	74	Sep 14	19	Sep 12	4.0	Jul 4 1977
INSTANTANEOUS PEAK FLOW			13400	Jul 4	71600	Oct 11 1973
INSTANTANEOUS PEAK STAGE			16.73	Jul 4	*31.40	Oct 11 1973
ANNUAL RUNOFF (AC-FT)	634400		113300		454000	
10 PERCENT EXCEEDS	1650		152		1070	
50 PERCENT EXCEEDS	235		96		161	
90 PERCENT EXCEEDS	94		29		45	

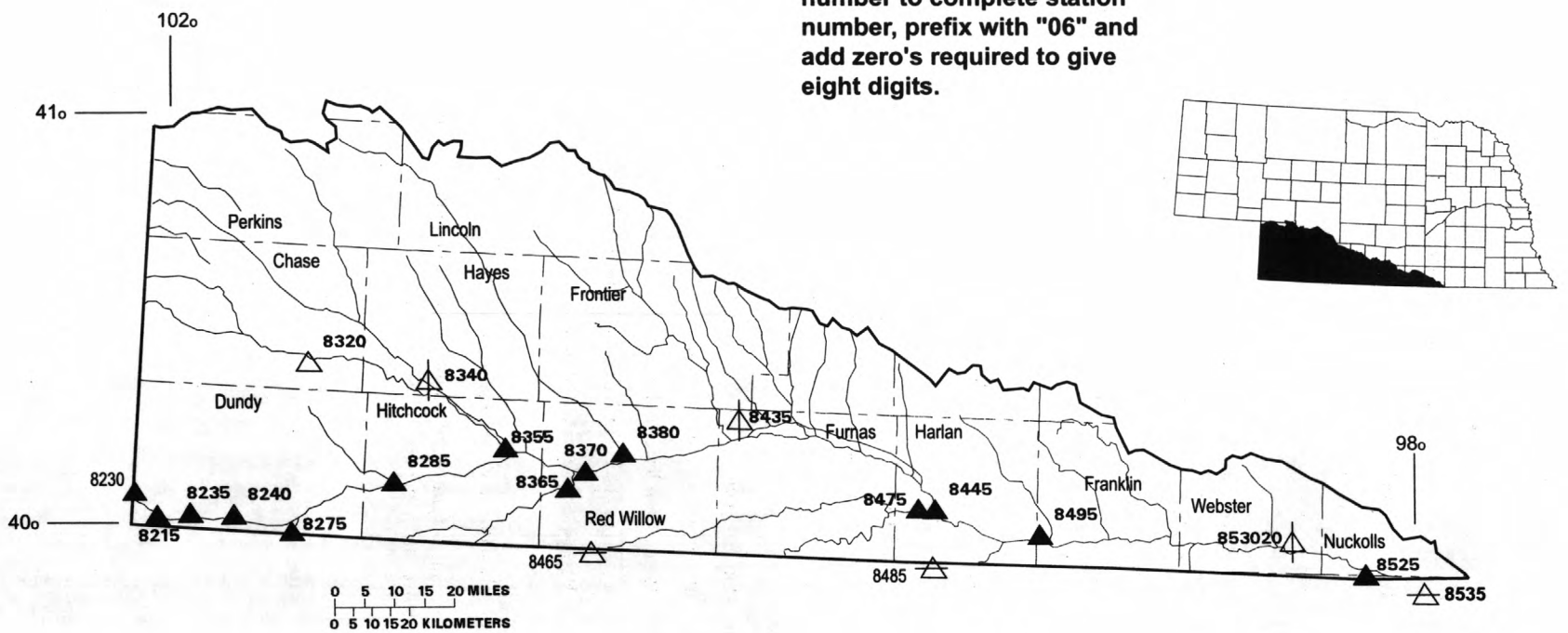
e Estimated.
* Datum then in use.



EXPLANATION

- Hydrologic boundary
- County line
- Streams
- Stream-flow gaging station
- Reservoir station
- Gaging station run by neighboring state
- Gaging station run by the Department of Natural Resources

NOTE: To change abbreviated station number to complete station number, prefix with "06" and add zero's required to give eight digits.



*Station number	Station name	Page
8215	Arikaree River at Haigler	238
8230	N.F. Republican River at Colorado-Nebraska State Line	240
8235	Buffalo Creek near Haigler	242
8240	Rock Creek at Parks	244
8275	S.F. Republican River near Benkelman	246
8285	Republicam River at Stratton	248
8320	Enders Reservoir near Enders	250
8340	Frenchman Creek at Palisade	252
8355	Frenchman Creek at Culbertson	254
8365	Driftwood Creek near McCook	256
8370	Republican River at McCook	258
8380	Red Willow Creek near Red Willow	260
8435	Republican River at Cambridge	262
8445	Republican River near Orleans	264
8465	Beaver Creek at Cedar Bluffs, KS	268
8475	Sappa Creek near Stamford	270
8485	Prairie Dog Creek near Woodruff, KS	272
8495	Republican River below Harlan County Dam	274
8525	Courtland Canal at Nebraska-Kansas State Line	276
853020	Republican River at Guide Rock	278
8535	Republican River near Hardy, KS	280

* NOTE: To change abbreviated station number to complete station number, prefix with "06" and add zeros required to give eight digits.

06821500 ARIKAREE RIVER AT HAIGLER, NE

LOCATION.--Lat 40°01'45", long 101°58'10", in NE ¼ NE ¼ sec.29, T.1 N., R.41 W., Dundy County, Hydrologic Unit 10250001, on right bank at downstream side of bridge on U.S. Highway 34, 1.3 mi upstream from Burlington Northern Inc. bridge, 1.9 mi upstream from confluence with North Fork Republican River, 2 mi northwest of Haigler, and 3.2 mi downstream from Kansas-Nebraska state line.

DRAINAGE AREA.--1,700 mi^2, of which about 1,020 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1919: 1951, 1954, 1956, 1960. WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 3,250.98 ft above sea level. See WSP 1919 for history of changes prior to Sept. 29, 1964. Sept. 29, 1964 to Apr. 25, 1982 on left bank 57 ft downstream from bridge at present datum. Data collection platform at station.

REMARKS.--Record fair except for estimated period, which is poor. Natural flow affected by ground-water withdrawals and diversions for irrigation of about 1,500 acres in Colorado and by return flow from Haigler Canal.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	6.2	.75	2.6	4.2	4.2	14	29	.61	.00	.78	.00
2	6.4	1.7	.74	3.4	4.6	5.5	13	15	.37	.00	.08	.00
3	6.0	1.2	.64	2.5	7.3	11	11	11	.31	.00	.00	.00
4	5.8	1.0	.63	1.4	5.4	9.0	9.9	9.6	.25	.00	.10	.00
5	5.2	.87	.59	1.3	4.8	7.7	9.1	8.0	.19	.00	1.3	.00
6	4.9	.80	.66	1.2	6.1	7.0	7.7	8.6	.18	.00	2.8	.00
7	4.2	.76	.59	1.4	5.3	7.2	6.7	7.4	.17	.00	2.9	.00
8	4.7	.77	.48	1.7	5.1	56	6.0	8.3	.13	.00	5.0	.00
9	4.3	.76	.45	2.5	5.5	25	6.6	9.0	.11	.00	3.5	.00
10	4.1	.72	.46	3.0	5.4	19	6.2	5.9	.07	3.2	3.8	.00
11	4.5	.72	.51	2.7	4.2	16	5.4	5.5	.05	39	3.8	.00
12	4.4	.74	.47	3.5	3.6	14	5.6	4.2	.03	5.5	4.3	.00
13	4.7	.74	.50	3.6	4.5	13	5.3	3.6	.00	1.6	1.6	.00
14	6.3	.71	.58	3.6	6.1	12	4.8	3.3	.00	.22	.08	.00
15	5.4	.68	.50	4.1	8.1	11	4.0	3.2	.00	.01	.00	.00
16	6.2	.65	.55	4.8	4.6	11	4.4	2.7	.00	.00	.00	.00
17	7.3	.68	.78	4.6	5.2	11	4.3	3.1	.00	.43	.00	.00
18	7.8	.74	.75	7.5	4.0	11	4.1	1.8	.00	1.3	.00	.00
19	6.4	.73	.70	7.0	5.5	11	3.1	1.7	.00	1.9	.00	.02
20	6.1	.84	.60	4.1	6.1	10	2.4	1.2	.00	1.7	.00	.73
21	7.0	.76	.63	4.8	6.8	11	12	1.2	.00	6.3	.00	4.0
22	7.7	.69	.60	6.0	5.9	11	24	1.8	.00	10	.00	4.5
23	7.5	.80	.66	4.8	7.0	10	22	2.3	.00	2.6	.00	4.2
24	7.5	.70	1.1	4.1	6.3	9.5	15	1.8	.00	2.5	.00	5.0
25	7.3	.68	2.0	3.9	6.3	8.0	12	1.1	.00	.48	.00	7.6
26	6.5	.75	1.9	4.6	6.2	7.7	8.3	.96	.00	.00	.00	7.2
27	5.8	.70	1.8	4.9	4.9	7.2	4.8	.82	.02	.00	.00	6.3
28	6.7	.65	2.9	4.3	5.6	7.0	3.3	.69	.24	.00	.00	3.9
29	9.7	.65	2.4	3.9	5.1	6.7	2.7	1.0	.41	.40	.00	4.3
30	10	.71	2.4	4.1	---	6.7	21	.86	.04	.69	.00	4.9
31	8.7	---	2.0	4.3	---	9.5	---	.87	---	.79	.00	---
TOTAL	197.6	29.10	30.32	116.2	159.7	365.9	258.7	155.50	3.18	78.62	30.04	52.65
MEAN	6.37	.97	.98	3.75	5.51	11.8	8.62	5.02	.11	2.54	.97	1.75
MAX	10	6.2	2.9	7.5	8.1	56	24	29	.61	39	5.0	7.6
MIN	4.1	.65	.45	1.2	3.6	4.2	2.4	.69	.00	.00	.00	.00
AC-FT	392	58	60	230	317	726	513	308	6.3	156	60	104

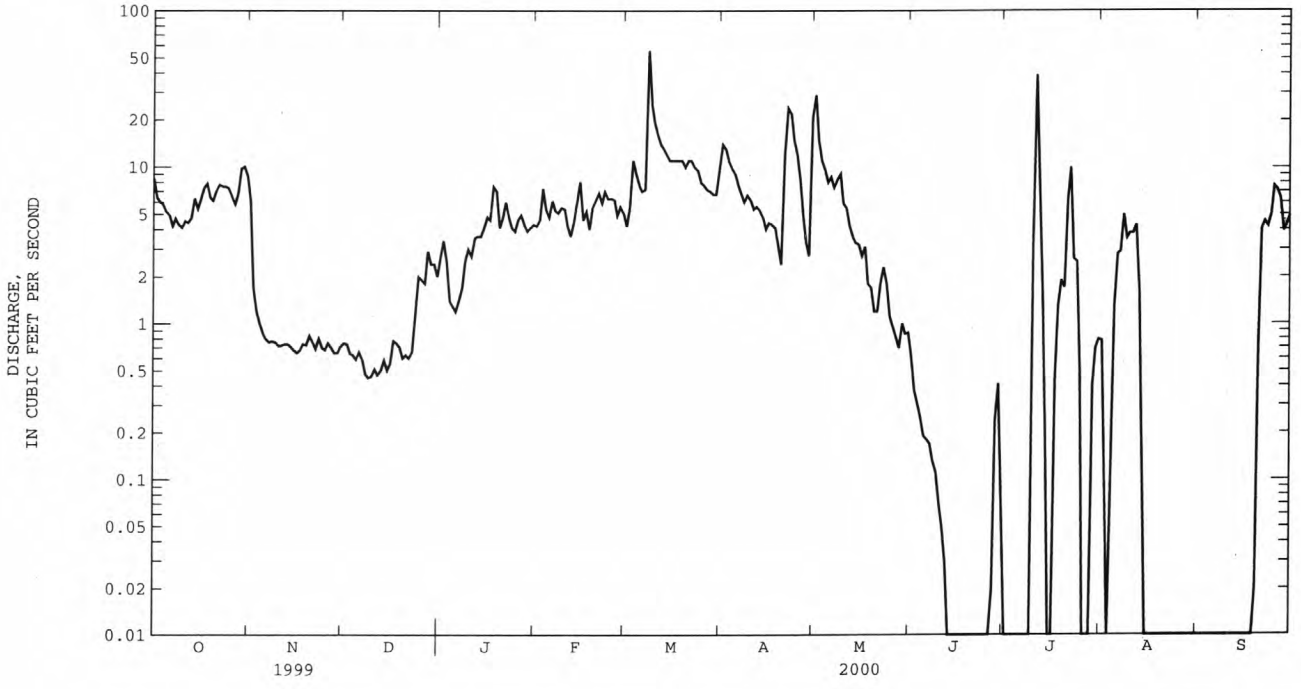
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2000, BY WATER YEAR (WY)

MEAN	9.79	8.02	6.47	7.66	15.6	28.0	23.1	40.5	39.9	19.7	18.5	15.2
MAX	39.8	31.8	28.3	24.0	67.0	400	78.0	709	599	193	111	140
(WY)	1943	1947	1939	1934	1937	1960	1944	1935	1935	1962	1938	1938
MIN	1.41	.61	.31	.40	.46	2.17	2.72	3.61	.11	.044	.000	.58
(WY)	1984	1983	1999	1999	1999	1995	1978	1986	2000	1997	1952	1953

06821500 ARIKAREE RIVER AT HAIGLER, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1932 - 2000	
ANNUAL TOTAL	3430.01		1477.51			
ANNUAL MEAN	9.40		4.04		19.3	
MEDIAN OF ANNUAL MEANS					15.1	
HIGHEST ANNUAL MEAN					127	1935
LOWEST ANNUAL MEAN					3.69	1978
HIGHEST DAILY MEAN	337	Aug 8	56	Mar 8	17000	May 31 1935
LOWEST DAILY MEAN	.00	Jul 15	.00	Jun 13	.00	Jul 21 1932
ANNUAL SEVEN-DAY MINIMUM	.08	Jul 20	.00	Jun 13	.00	Jul 30 1934
INSTANTANEOUS PEAK FLOW			150	Jul 11	50000	May 31 1935
INSTANTANEOUS PEAK STAGE			7.24	Jul 11	*11.20	May 31 1935
ANNUAL RUNOFF (AC-FT)	6800		2930		14010	
10 PERCENT EXCEEDS	15		9.5		30	
50 PERCENT EXCEEDS	2.4		2.7		8.6	
90 PERCENT EXCEEDS	.39		.00		.70	

* Site and datum then in use.



06823000 NORTH FORK REPUBLICAN RIVER AT COLORADO-NEBRASKA STATE LINE

LOCATION.--Lat 40°04'10", long 102°03'05", in SE ¼ NW ¼ sec.10, T.1 N., R.42 W., Dundy County, Nebraska, Hydrologic Unit 10250002, on right bank 100 ft east of Colorado-Nebraska State line, 9.5 mi upstream from confluence with Arikaree River, and at mile 448.

DRAINAGE AREA.--2,370 mi^2, of which about 174 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--October 1930 to current year. Prior to October 1932, published as North Fork of Arikaree River at Colorado-Nebraska State line. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1240: 1947(M). WSP 1390: 1934. WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Steel piling control since January 1965. Datum of gage is 3,336.09 ft above sea level. Prior to Oct. 17, 1934, nonrecording gage at present site and datum. Data Collection platform at station.

REMARKS.--Records fair except for estimated discharges, which are poor. Natural flow affected by diversion in Haigler Canal for irrigation of about 2,700 acres in Colorado and Nebraska.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	34	44	42	44	56	46	13	6.3	6.7	7.6	7.4
2	40	38	45	41	43	57	42	11	6.2	5.4	7.7	6.4
3	41	43	45	41	43	64	39	10	6.6	4.8	8.0	6.2
4	40	47	44	e42	42	64	37	7.7	6.9	4.6	8.8	7.6
5	39	47	43	e43	42	60	37	6.8	6.1	4.0	8.6	9.0
6	39	47	43	44	42	62	40	6.5	3.6	4.5	7.4	8.5
7	39	47	40	44	42	62	39	6.2	4.4	3.4	7.6	8.4
8	38	47	38	44	42	72	37	6.0	4.8	3.3	6.2	8.5
9	39	47	38	43	42	58	41	6.6	4.5	3.9	5.3	7.5
10	38	47	37	43	43	53	41	9.2	4.4	3.9	5.3	7.2
11	37	46	37	42	43	50	41	8.1	5.9	3.3	5.0	7.3
12	34	46	37	42	43	47	44	8.8	8.1	2.9	5.3	6.3
13	29	47	36	42	43	46	46	10	9.5	3.0	5.6	6.2
14	27	47	38	42	43	45	44	8.3	7.0	2.9	6.3	5.6
15	24	47	42	42	43	46	44	7.2	5.2	2.6	5.5	6.0
16	21	46	41	42	50	45	43	6.4	4.1	2.7	5.8	5.7
17	22	45	44	42	49	45	44	6.5	5.4	3.7	5.8	5.4
18	22	44	48	42	51	45	43	6.8	7.9	4.6	5.4	5.7
19	22	38	47	42	52	45	48	6.8	8.2	6.5	5.3	6.4
20	23	34	44	43	53	44	34	6.9	7.5	7.3	5.1	8.3
21	23	39	44	43	54	46	13	6.4	6.4	12	5.3	8.9
22	23	41	43	45	54	47	11	6.2	5.4	43	6.4	8.6
23	24	42	43	45	54	46	11	6.0	5.5	26	6.7	9.3
24	24	42	44	43	50	45	10	5.7	4.5	15	6.0	15
25	24	43	44	43	51	44	12	5.4	4.5	13	7.1	20
26	24	44	43	43	58	43	13	5.4	4.3	10	7.3	25
27	23	44	43	43	58	42	11	6.5	4.4	8.8	7.2	25
28	20	44	43	43	56	42	10	6.4	4.8	9.3	7.8	25
29	22	44	43	43	56	43	9.7	6.0	14	8.4	9.0	25
30	24	44	43	44	---	44	11	5.6	9.1	8.2	9.3	24
31	23	---	42	44	---	45	---	6.0	---	8.0	8.5	---
TOTAL	905	1311	1306	1327	1386	1553	941.7	224.4	185.5	245.7	208.2	325.4
MEAN	29.2	43.7	42.1	42.8	47.8	50.1	31.4	7.24	6.18	7.93	6.72	10.8
MAX	41	47	48	45	58	72	48	13	14	43	9.3	25
MIN	20	34	36	41	42	42	9.7	5.4	3.6	2.6	5.0	5.4
AC-FT	1800	2600	2590	2630	2750	3080	1870	445	368	487	413	645

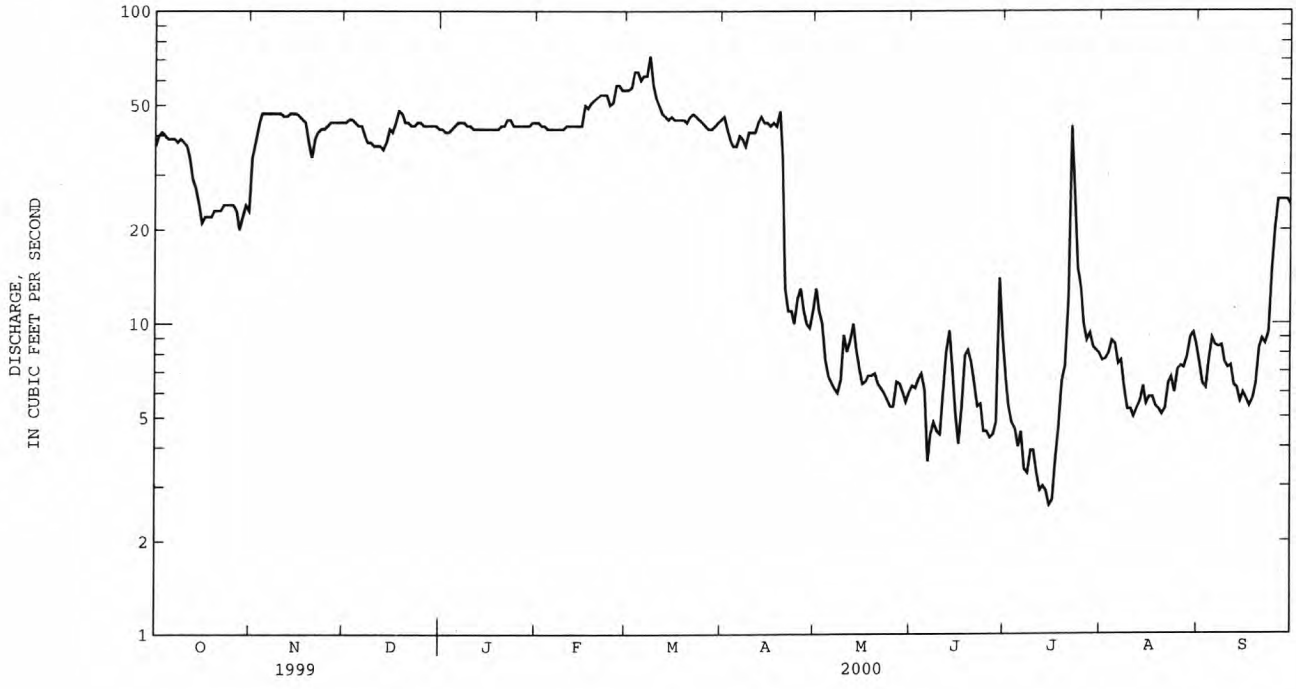
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2000, BY WATER YEAR (WY)

MEAN	36.7	56.4	60.1	59.8	61.7	64.3	56.8	40.9	34.3	18.5	18.6	25.8
MAX	67.1	83.5	74.7	73.4	76.8	85.8	85.7	104	113	93.8	72.4	128
(WY)	1963	1957	1954	1953	1960	1960	1980	1951	1962	1962	1950	1951
MIN	11.1	27.0	39.7	39.4	42.3	43.6	21.3	7.24	6.18	5.36	4.12	5.78
(WY)	1979	1989	1998	1979	1998	1998	1999	2000	2000	1978	1940	1978

06823000 NORTH FORK REPUBLICAN RIVER AT COLORADO-NEBRASKA STATE LINE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1935 - 2000	
ANNUAL TOTAL	10877.1		9918.9			
ANNUAL MEAN	29.8		27.1		44.3	
HIGHEST ANNUAL MEAN					65.3	1951
LOWEST ANNUAL MEAN					27.1	2000
HIGHEST DAILY MEAN	68	Mar 14	72	Mar 8	761	May 15 1951
LOWEST DAILY MEAN	1.5	Sep 12	2.6	Jul 15	1.5	Sep 12 1999
ANNUAL SEVEN-DAY MINIMUM	2.4	Sep 10	3.0	Jul 11	2.3	Aug 5 1940
INSTANTANEOUS PEAK FLOW			85	Mar 8	2110	Apr 28 1947
INSTANTANEOUS PEAK STAGE			1.27	Mar 8	5.92	Apr 28 1947
ANNUAL RUNOFF (AC-FT)	21570		19670		32080	
10 PERCENT EXCEEDS	55		47		72	
50 PERCENT EXCEEDS	29		34		49	
90 PERCENT EXCEEDS	6.6		5.4		8.8	

e Estimated.



06823500 BUFFALO CREEK NEAR HAIGLER, NE

LOCATION.--Lat 40°02'22", long 101°51'57", in SE ¼ NW ¼ sec.20, T.1 N., R.40 W., Dundy County, Hydrologic Unit 10250002, on upstream side of bridge, 0.4 mi upstream from mouth, and 4 mi northeast of Haigler.

DRAINAGE AREA.--172 mi^2, of which about 8.6 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--October 1940 to current year.

REVISED RECORDS.--WSP 2119: 1948-50(M), 1957(M). WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,189.00 ft above sea level. Prior to Sept. 19, 1980, at site 0.5 mi upstream at datum 15.57 ft higher. Sept. 18, 1980 to June 4, 1996 on left bank 15 ft upstream from county highway bridge at datum 0.10 ft lower. June 4, 1996 to Nov. 7, 1996 135 ft downstream from county highway bridge, at datum 0.10 ft lower.

REMARKS.--Records fair except for estimated period, which is poor. Natural flow affected by diversion about 1 mi upstream for irrigation of 880 acres.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	2.8	2.9	e4.9	e5.2	3.5	6.2	8.5	3.5	.00	.00	.00
2	5.5	2.7	3.1	e4.7	e5.2	3.9	5.1	5.9	4.1	.00	.00	.00
3	5.5	2.6	3.2	e4.5	4.0	5.2	4.7	4.9	3.9	.00	.00	.00
4	5.8	2.4	4.0	e4.5	2.9	4.6	4.7	4.5	3.6	.00	.00	.00
5	5.7	2.2	3.1	e4.5	3.7	4.3	4.6	4.3	3.3	.00	.00	.00
6	5.6	2.4	4.2	e4.5	3.5	6.0	4.3	3.9	3.4	.00	.00	.00
7	5.3	2.8	5.2	e4.6	3.1	4.9	3.8	3.4	2.7	.00	.00	.00
8	5.6	2.2	4.4	e4.7	2.9	6.0	3.9	3.1	.16	.00	.00	.00
9	5.7	2.0	3.9	e4.8	3.1	4.8	3.6	3.8	.08	.00	.00	.00
10	5.2	2.1	5.2	e5.0	3.2	4.4	3.5	4.0	.07	.00	.00	.00
11	5.8	1.7	4.2	e5.0	3.0	4.2	2.9	3.6	.00	.00	.00	.00
12	5.3	1.6	4.8	e5.0	3.1	4.2	2.2	3.3	.00	.00	.00	.00
13	4.9	.92	5.7	e5.0	e3.0	4.1	2.0	3.5	.00	.00	.00	.00
14	4.6	1.2	e5.3	e5.0	e3.0	4.1	2.0	3.7	.00	.00	.00	.00
15	3.6	1.0	e5.0	e5.0	e3.0	4.0	1.9	3.7	.00	.00	.00	.00
16	4.4	.99	e4.6	e5.4	e3.1	4.3	2.0	3.9	.00	.00	.00	.00
17	4.8	.84	e4.4	e5.6	3.2	4.3	2.0	3.9	.00	.00	.00	.00
18	4.6	.59	e4.2	e6.0	3.3	4.3	2.0	3.3	.00	.00	.00	.00
19	3.4	e.70	e4.3	e5.8	3.3	4.4	2.2	3.8	.00	.00	.00	.00
20	3.2	e.80	e4.6	e5.4	e3.2	4.3	2.2	3.6	.00	.00	.00	.00
21	3.3	e1.0	e5.0	e5.4	e3.1	4.8	2.5	3.5	.00	.00	.00	.00
22	3.1	1.3	e5.0	e5.4	e3.1	5.0	3.1	3.7	.00	.00	.00	.00
23	2.9	1.4	e4.8	e5.4	e3.0	5.0	3.9	3.9	.00	.00	.00	2.5
24	2.8	2.4	e4.6	e5.4	3.0	5.3	4.2	3.8	.00	.00	.00	3.9
25	2.8	2.8	e4.5	e5.4	3.4	5.2	4.2	3.9	.00	.00	.00	3.2
26	2.4	3.6	e4.5	e5.4	3.2	4.9	4.2	4.2	.00	.00	.00	.97
27	2.5	3.1	e4.5	e5.4	3.0	4.7	4.1	4.7	.00	.00	.00	.37
28	2.7	2.8	e4.5	e5.4	3.3	4.6	4.3	4.5	.00	.00	.00	.35
29	2.5	2.8	e4.6	e5.4	3.5	5.0	4.4	9.9	.00	.00	.00	.41
30	2.5	2.9	e4.8	e5.4	---	5.4	11	2.1	.00	.00	.00	.49
31	2.6	---	e5.0	e5.2	---	5.8	---	.70	---	.00	.00	---
TOTAL	130.6	58.64	138.1	159.1	96.6	145.5	111.7	127.50	24.81	0.00	0.00	12.19
MEAN	4.21	1.95	4.45	5.13	3.33	4.69	3.72	4.11	.83	.000	.000	.41
MAX	6.0	3.6	5.7	6.0	5.2	6.0	11	9.9	4.1	.00	.00	3.9
MIN	2.4	.59	2.9	4.5	2.9	3.5	1.9	.70	.00	.00	.00	.00
AC-FT	259	116	274	316	192	289	222	253	49	.00	.00	24

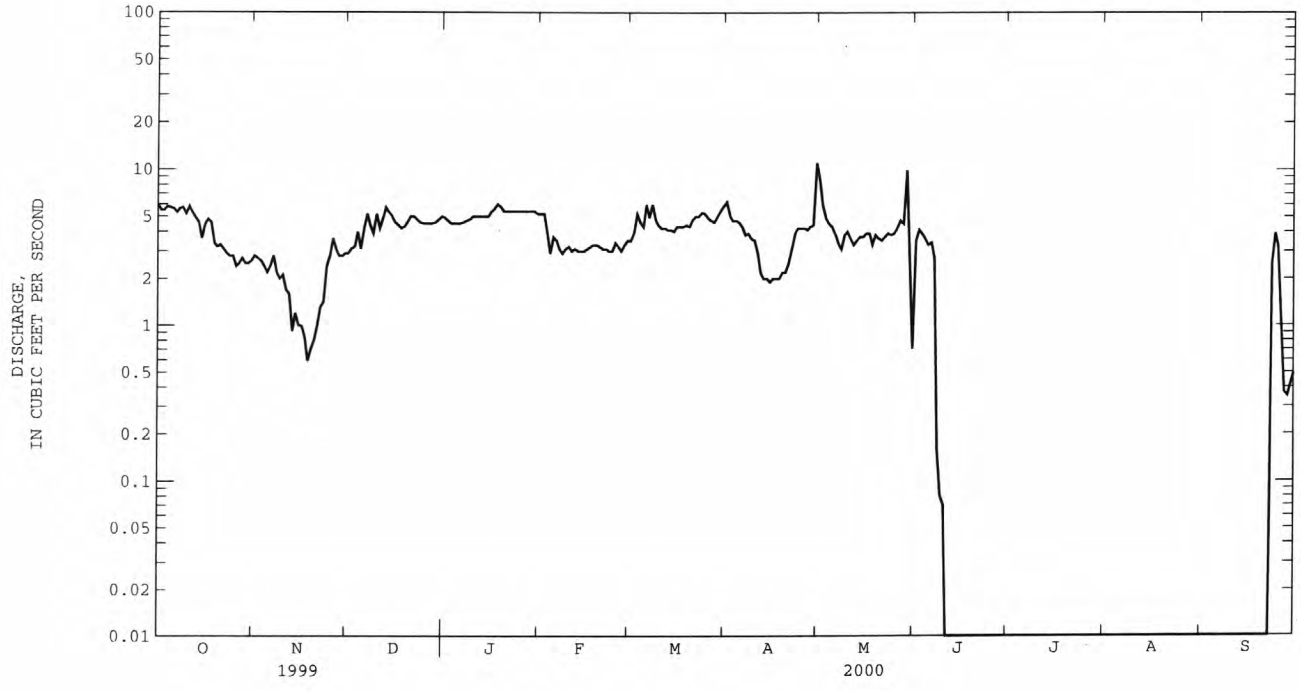
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2000, BY WATER YEAR (WY)

MEAN	6.76	7.89	8.06	8.30	8.87	9.18	9.04	7.76	5.58	2.67	2.47	4.22
MAX	12.6	12.1	13.7	12.7	12.9	14.3	14.2	12.5	13.2	11.0	19.7	15.2
(WY)	1943	1947	1946	1942	1960	1952	1944	1944	1962	1948	1950	1951
MIN	2.84	1.95	3.15	2.68	.89	2.72	3.72	2.11	.000	.000	.000	.23
(WY)	1965	2000	1999	1998	1998	1998	2000	1965	1994	1997	2000	1998

06823500 BUFFALO CREEK NEAR HAIGLER, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1941 - 2000	
ANNUAL TOTAL	1582.55		1004.74			
ANNUAL MEAN	4.34		2.75		6.72	
HIGHEST ANNUAL MEAN					10.9	1951
LOWEST ANNUAL MEAN					2.51	1998
HIGHEST DAILY MEAN	15	Aug 18	11	Apr 30	90	Aug 11 1950
LOWEST DAILY MEAN	.00	Jul 9	.00	Jun 11	.00	Aug 3 1955
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 16	.00	Jun 11	.00	Aug 14 1973
INSTANTANEOUS PEAK FLOW			*23	May 29	**140	Jun 27 1948
INSTANTANEOUS PEAK STAGE			***2.09	Jan 31	***5.93	Jan 3 1976
ANNUAL RUNOFF (AC-FT)	3140		1990		4870	
10 PERCENT EXCEEDS	7.9		5.3		11	
50 PERCENT EXCEEDS	4.5		3.1		7.4	
90 PERCENT EXCEEDS	.09		.00		.23	

e Estimated.
* Stage 6.78 ft.
** Stage 4.37 ft.
*** Backwater from ice.



06824000 ROCK CREEK AT PARKS, NE

LOCATION.--Lat 40°02'30", long 101°43'40", in SW ¼ NE ¼ sec.21, T.1 N., R.39 W., Dundy County, Hydrologic Unit 10250002, on right bank at west edge of Parks, 100 ft downstream from county road bridge and 0.6 mi upstream from mouth.

DRAINAGE AREA.--23.6 mi^2, of which about 20 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--October 1940 to current year.

REVISED RECORDS.--WSP 1630: 1951(M). WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,093.35 ft above sea level.

REMARKS.--Records fair except for periods of estimated record, which are poor. One diversion about 2 mi above station for irrigation of 215 acres; flow regulated at times by reservoir at State fish hatchery 7 mi upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.3	8.8	6.4	8.9	10	8.1	10	11	5.7	7.1	6.7	5.3
2	9.1	9.5	7.5	8.9	9.6	8.9	9.9	9.5	5.4	6.7	6.5	5.6
3	9.0	8.5	7.6	e8.6	9.7	9.9	9.4	8.5	5.5	6.5	6.5	5.7
4	9.0	7.7	7.3	e8.6	9.5	9.5	9.0	8.0	6.0	6.5	6.6	5.8
5	9.0	7.3	7.2	e8.5	9.5	9.1	8.6	7.7	7.0	6.6	6.2	6.0
6	9.0	6.5	6.9	e8.3	9.4	8.8	8.5	7.8	6.3	6.6	6.2	5.8
7	9.2	6.4	6.9	e8.4	9.1	8.9	8.3	7.8	6.1	6.1	6.2	5.5
8	9.9	6.1	6.8	e8.7	9.1	11	8.3	7.3	5.6	6.1	6.2	5.4
9	9.5	6.3	6.7	e9.3	9.1	11	8.4	7.7	5.3	6.1	6.0	5.2
10	9.1	6.3	6.7	e9.5	9.0	10	8.5	7.5	5.5	6.9	5.6	5.0
11	9.1	6.2	6.7	e9.5	9.2	10	10	7.0	6.1	4.5	5.3	4.8
12	9.0	6.2	6.7	e9.5	9.3	9.6	9.0	4.4	6.6	3.6	4.8	4.7
13	8.9	6.2	6.9	e9.4	9.1	9.3	8.6	4.4	6.2	3.3	5.2	4.5
14	8.9	6.2	6.7	e9.3	9.1	9.0	8.7	4.4	6.1	2.9	5.1	4.4
15	8.9	6.1	8.3	e9.5	9.1	8.9	8.4	4.5	5.7	2.7	5.2	4.3
16	8.8	6.0	7.9	e9.6	8.8	8.9	8.2	4.5	5.9	3.0	5.4	4.2
17	8.9	6.0	8.8	e9.8	9.0	8.7	8.0	4.6	7.2	4.1	5.9	4.4
18	8.8	6.1	9.5	e9.9	9.6	8.7	8.1	4.6	7.1	5.2	6.2	4.4
19	9.0	5.9	8.9	e9.9	9.5	8.8	8.4	4.7	6.5	6.0	6.4	4.6
20	9.1	5.8	8.8	10	9.5	8.6	8.6	4.6	6.5	10	6.9	8.6
21	9.0	6.3	9.0	9.9	9.2	9.3	8.1	4.6	6.3	12	7.4	7.9
22	8.9	6.7	9.4	9.9	9.1	9.7	8.0	4.4	6.4	9.1	8.7	7.3
23	9.0	6.6	9.2	9.9	9.3	9.5	8.4	4.3	7.3	7.5	9.2	6.8
24	9.0	6.1	9.1	9.9	9.2	9.3	8.3	4.2	7.1	6.6	8.4	8.4
25	8.9	6.0	9.1	9.9	8.8	8.9	8.4	4.3	6.8	5.8	6.6	8.2
26	9.0	5.9	9.5	9.9	8.7	8.6	8.0	4.6	6.7	6.2	5.8	8.0
27	9.3	5.7	9.1	9.9	8.6	8.4	7.8	5.1	7.2	6.3	5.8	9.8
28	e9.0	6.0	9.0	9.9	8.3	8.6	7.5	5.2	7.3	6.8	5.6	8.4
29	e9.0	6.2	9.1	9.9	8.2	9.5	7.5	5.0	6.8	6.7	5.2	7.3
30	8.9	6.4	9.2	9.9	---	9.6	12	5.3	7.5	6.5	5.1	6.4
31	8.7	---	8.9	10	---	10	---	5.5	---	6.8	4.9	---
TOTAL	280.2	196.0	249.8	293.1	265.6	287.1	258.9	183.0	191.7	190.8	191.8	182.7
MEAN	9.04	6.53	8.06	9.45	9.16	9.26	8.63	5.90	6.39	6.15	6.19	6.09
MAX	9.9	9.5	9.5	10	10	11	12	11	7.5	12	9.2	9.8
MIN	8.7	5.7	6.4	8.3	8.2	8.1	7.5	4.2	5.3	2.7	4.8	4.2
AC-FT	556	389	495	581	527	569	514	363	380	378	380	362

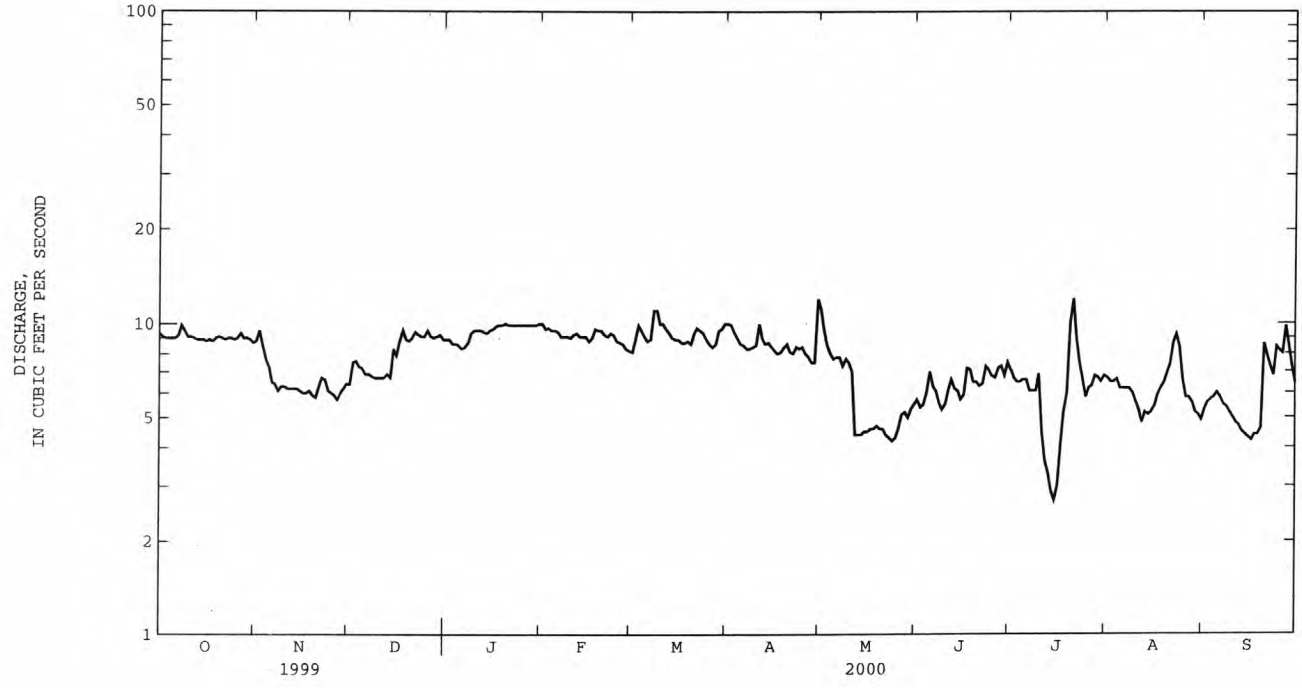
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2000, BY WATER YEAR (WY)

MEAN	12.4	13.3	13.2	13.3	13.6	13.7	13.6	13.6	13.0	11.8	11.4	11.7
MAX	16.2	19.7	17.1	17.9	17.5	18.1	18.1	19.0	19.0	30.3	17.7	18.8
(WY)	1966	1943	1941	1942	1949	1949	1949	1969	1965	1965	1950	1951
MIN	7.56	6.53	7.93	8.24	7.68	7.49	8.02	5.90	6.39	5.90	6.19	6.09
(WY)	1993	2000	1999	1999	1999	1999	1998	2000	2000	1999	2000	2000

06824000 ROCK CREEK AT PARKS, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1941 - 2000	
ANNUAL TOTAL	3171.0		2770.7			
ANNUAL MEAN	8.69		7.57		12.9	
HIGHEST ANNUAL MEAN					15.8	1949
LOWEST ANNUAL MEAN					7.57	2000
HIGHEST DAILY MEAN	77	Aug 29	12	Apr 30	111	Jul 6 1965
LOWEST DAILY MEAN	4.5	Jun 6	2.7	Jul 15	2.6	Nov 19 1975
ANNUAL SEVEN-DAY MINIMUM	4.8	Jul 25	3.4	Jul 11	3.1	Feb 17 1943
INSTANTANEOUS PEAK FLOW			*24	Jul 20	493	Jul 5 1965
INSTANTANEOUS PEAK STAGE			**1.93	Jan 20	6.00	Jul 5 1965
ANNUAL RUNOFF (AC-FT)	6290		5500		9320	
10 PERCENT EXCEEDS	11		9.6		16	
50 PERCENT EXCEEDS	8.3		8.0		13	
90 PERCENT EXCEEDS	6.0		5.1		9.1	

e Estimated.
* Stage 1.77 ft.
** Backwater from ice.



06827500 SOUTH FORK REPUBLICAN RIVER NEAR BENKELMAN, NE

LOCATION (REVISED).--Lat 40°00'34", long 101°32'32", in NE ¼ SW ¼ sec.31, T.1 N., R.37 W., Dundy County, Hydrologic Unit 10250003, on right bank at downstream side of bridge on State Highway 61, 1 mi downstream from Kansas-Nebraska State line, 2.5 mi southwest of Benkelman, and 3.4 mi upstream from mouth.

DRAINAGE AREA.--2,740 mi^2, approximately, of which about 2,190 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--October 1894 to September 1895, October 1902 to November 1906, October 1930 to September 1932, August 1937 to current year. Published as South Fork of Republican River at Benkelman prior to 1906 and as Republican River at Benkelman 1931-32. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1310: 1904-6, 1931. WSP 1390: 1940, 1945, 1947. WSP 1919: 1951-52, 1954-56. WSP 2119: Drainage area. WDR NE-97: 1995 (M).

GAGE.--Water-stage recorder. Datum of gage is 2,989.91 ft above sea level. Prior to Dec. 10, 1947, nonrecording gages at several sites within 3.5 mi of present site at various datums. Dec.10, 1947 to Sept. 28, 1966 water-stage recorder 170 ft upstream at datum 3.00 ft higher and Sept. 29, 1966 to Mar. 7, 1968 at site 300 ft upstream at datum 3.00 ft higher. Mar. 8, 1968 to May 29, 1991 at site 300 ft upstream at datum 1.0 ft higher. May 30, 1991 to Sept. 30, 1998 at present site at datum 1.0 ft higher. Data collection platform at station.

REMARKS.--Records fair except for periods of estimated record, which are poor. Natural flow affected by irrigation development above station, and since July 6, 1950, by storage in Bonny Reservoir.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	12	9.8	17	18	24	19	2.8	.00	.00	.00
2	.00	.00	11	9.7	20	18	24	18	2.8	.00	.00	.00
3	.00	.00	11	9.6	16	20	24	17	2.0	.00	.00	.00
4	.00	.00	10	e10	15	20	25	17	1.4	.00	.00	.00
5	.00	.00	10	11	e15	20	25	16	1.3	.00	.00	.00
6	.00	.00	8.0	e11	15	20	21	16	.86	.00	.00	.00
7	.00	.00	6.3	e11	15	20	19	15	.44	.00	.00	.00
8	.00	.00	e6.0	e11	16	23	18	15	.34	.00	.00	.00
9	.00	.00	e5.8	e11	16	23	19	15	.25	.00	.00	.00
10	.00	3.8	e6.0	e11	16	22	19	15	.12	.00	.00	.00
11	.00	9.4	6.2	e12	15	22	18	15	.06	.00	.00	.00
12	.00	11	e6.2	e12	e15	22	18	13	.01	.00	.00	.00
13	.00	11	e6.4	e12	e15	21	18	13	.00	.00	.00	.00
14	.00	12	6.7	e12	e16	21	18	12	.00	.00	.00	.00
15	.00	12	e7.0	e12	17	21	17	12	.00	.00	.00	.00
16	.00	12	e7.2	12	16	20	17	12	.00	.00	.00	.00
17	.00	13	e7.4	13	16	20	17	12	.00	.00	.00	.00
18	.00	13	e7.4	13	16	20	17	10	.00	.00	.00	.00
19	.00	13	7.5	13	18	21	17	9.9	.00	.00	.00	.00
20	.00	13	e7.7	13	18	20	16	9.5	.00	.00	.00	.00
21	.00	13	e7.8	e13	18	20	15	9.0	.00	.00	.00	.00
22	.00	14	e8.0	e13	18	22	15	8.9	.00	.00	.00	.00
23	.00	14	e8.0	13	19	23	15	8.8	.00	.00	.00	.00
24	.00	14	8.4	e13	19	23	15	8.8	.00	.00	.00	.00
25	.00	15	8.4	e13	18	24	15	8.7	.00	.00	.00	.00
26	.00	14	8.3	e14	18	25	15	6.8	.00	.00	.00	.00
27	.00	13	8.7	14	18	25	14	5.3	.00	.00	.00	.00
28	.00	13	9.0	15	18	24	14	5.0	.00	.00	.00	.00
29	.00	13	9.1	15	18	24	14	4.1	.00	.00	.00	.00
30	.00	12	9.3	16	---	24	18	3.3	.00	.00	.00	.00
31	.00	---	e9.6	17	---	24	---	3.3	---	.00	.00	---
TOTAL	0.00	258.20	250.4	385.1	487	670	541	353.4	12.38	0.00	0.00	0.00
MEAN	.000	8.61	8.08	12.4	16.8	21.6	18.0	11.4	.41	.000	.000	.000
MAX	.00	15	12	17	20	25	25	19	2.8	.00	.00	.00
MIN	.00	.00	5.8	9.6	15	18	14	3.3	.00	.00	.00	.00
AC-FT	.00	512	497	764	966	1330	1070	701	25	.00	.00	.00

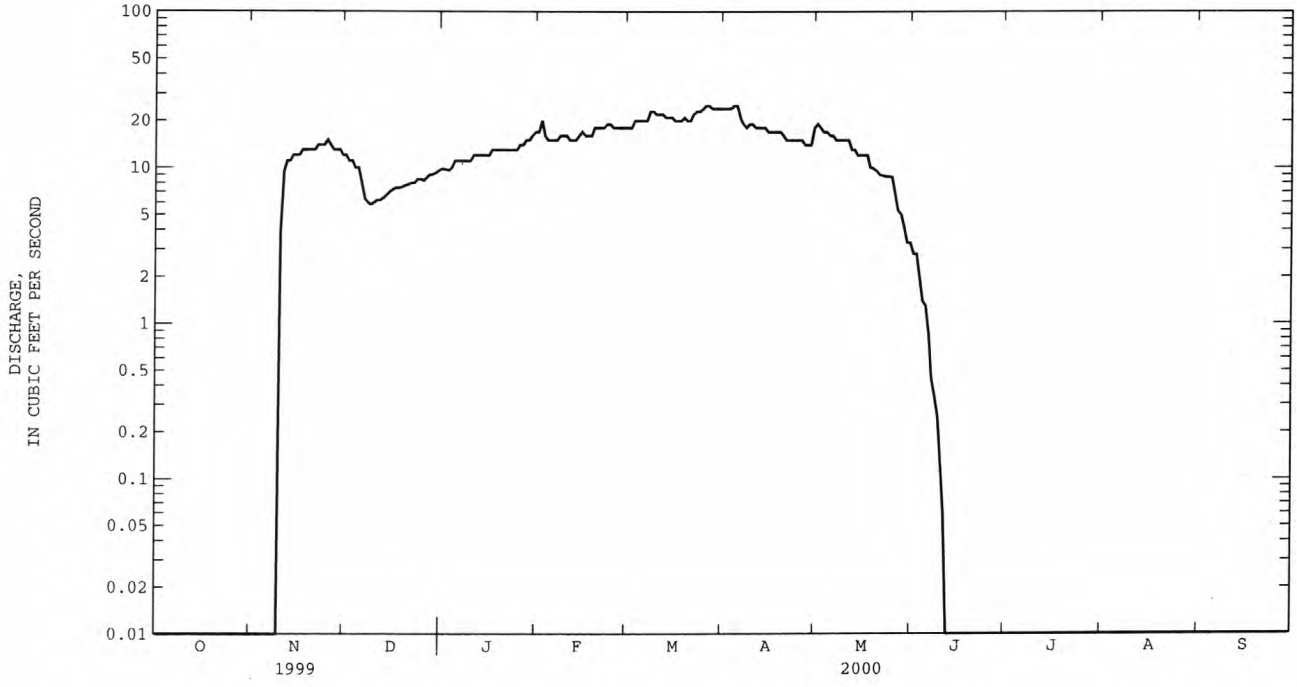
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2000, BY WATER YEAR (WY)

MEAN	16.5	21.6	20.7	23.3	39.5	51.7	56.9	71.6	72.6	57.4	34.4	24.2
MAX	160	113	77.0	77.5	121	227	158	396	455	616	383	335
(WY)	1966	1970	1943	1943	1949	1942	1958	1957	1948	1946	1958	1951
MIN	.000	.000	.000	.000	6.62	18.1	12.1	6.57	.077	.000	.000	.000
(WY)	1940	1953	1953	1977	1978	1995	1956	1979	1956	1943	1940	1939

06827500 SOUTH FORK REPUBLICAN RIVER NEAR BENKELMAN, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1938 - 2000	
ANNUAL TOTAL	4540.64		2957.48			
ANNUAL MEAN	12.4		8.08		40.8	
HIGHEST ANNUAL MEAN					121	1951
LOWEST ANNUAL MEAN					8.08	2000
HIGHEST DAILY MEAN	137	Jun 14	25	Mar 26	6220	Aug 16 1958
LOWEST DAILY MEAN	.00	Jul 29	.00	Oct 1	.00	Jul 3 1938
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 4	.00	Oct 1	.00	Aug 1 1938
INSTANTANEOUS PEAK FLOW			*28	Apr 4	19600	Aug 16 1958
INSTANTANEOUS PEAK STAGE			**2.68	Dec 8	***8.70	Aug 16 1958
ANNUAL RUNOFF (AC-FT)	9010		5870		29590	
10 PERCENT EXCEEDS	23		19		85	
50 PERCENT EXCEEDS	13		7.8		19	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated.
* Stage 1.79 ft.
** Backwater from ice.
*** May have been higher during flood of June 24, 1945, site and datum then in use.



06828500 REPUBLICAN RIVER AT STRATTON, NE

LOCATION.--Lat 40°08'28", long 101°13'42", in SW ¼ NW ¼ sec.13, T.2 N., R.35 W., Hitchcock County, Hydrologic Unit 10250004, on right bank at downstream side of county bridge, 0.5 mi south of Stratton, 0.2 mi downstream from Muddy Creek, 10 mi upstream from Trenton Dam, 19 mi downstream from South Fork Republican River, and at mile 387.

DRAINAGE AREA.--8,200 mi^2, approximately, of which about 3,690 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--July 1950 to current year.

REVISED RECORDS.--WDR NE-73: 1968-71(M), 1972. WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2,775.49 ft above sea level. Prior to Aug. 1, 1967, at site 0.3 mi downstream at present datum. Data collection platform at station.

REMARKS.--Records fair except for periods of estimated records, which are poor. Natural flow affected by irrigation development above station and by storage in Bonny Reservoir (station 06826000).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	37	46	e33	e64	88	112	74	.00	.00	.00	.00
2	38	39	47	e32	e68	90	109	77	.00	.00	.00	.00
3	38	42	45	e30	e70	108	109	75	.00	.00	.00	.00
4	36	42	52	e27	74	118	112	60	.00	.00	.00	.00
5	33	46	40	e28	72	126	121	55	.00	.00	.00	.00
6	32	33	44	e28	76	131	113	51	.00	.00	.00	.00
7	31	33	46	e28	75	134	100	48	.00	.00	.00	.00
8	36	38	45	e30	81	143	84	43	.00	.00	.00	.00
9	36	35	41	e31	84	115	88	41	.00	.00	.00	.00
10	34	34	37	e32	80	146	89	36	.00	.00	.00	.00
11	35	32	e36	e34	75	136	83	32	.00	.65	.00	.00
12	34	28	e35	e36	54	128	90	26	.00	.73	.00	.00
13	21	31	e35	e38	60	126	90	16	.00	.00	.00	.00
14	19	30	e34	e40	62	125	91	11	.00	.00	.00	.00
15	18	31	e33	e42	83	116	68	8.3	.00	.00	.00	.00
16	18	33	e33	e45	84	94	69	8.5	.00	.00	.00	.00
17	21	34	e33	e45	81	92	73	8.6	.00	.00	.00	.00
18	25	39	e33	e42	80	95	81	6.8	.00	.00	.00	.00
19	27	36	e32	e41	69	97	72	6.3	.00	.00	.00	.00
20	30	24	e30	e40	76	97	62	5.4	.00	.12	.00	.00
21	37	25	e27	e43	91	98	63	4.3	.00	1.8	.00	.00
22	38	27	e29	e44	92	118	67	3.4	.00	3.1	.00	.00
23	37	37	e30	e45	106	120	64	2.3	.00	.00	.00	.00
24	37	25	e31	e45	107	118	67	1.2	.00	.00	.00	.00
25	38	24	e31	e45	110	119	71	.66	.00	.00	.00	.00
26	37	36	e32	e43	99	123	66	1.7	.00	.00	.00	.00
27	36	38	e33	e41	89	114	58	1.6	.00	.00	.00	.00
28	35	37	e34	e42	96	104	50	.23	.00	.00	.00	.00
29	34	39	e34	e46	97	102	45	.01	.00	.00	.00	.00
30	35	41	e35	e50	---	100	60	.00	.00	.00	.00	.00
31	38	---	e34	e56	---	104	---	.00	---	.00	.00	---
TOTAL	1001	1026	1127	1202	2355	3525	2427	704.30	0.00	6.40	0.00	0.00
MEAN	32.3	34.2	36.4	38.8	81.2	114	80.9	22.7	.000	.21	.000	.000
MAX	38	46	52	56	110	146	121	77	.00	3.1	.00	.00
MIN	18	24	27	27	54	88	45	.00	.00	.00	.00	.00
AC-FT	1990	2040	2240	2380	4670	6990	4810	1400	.00	13	.00	.00

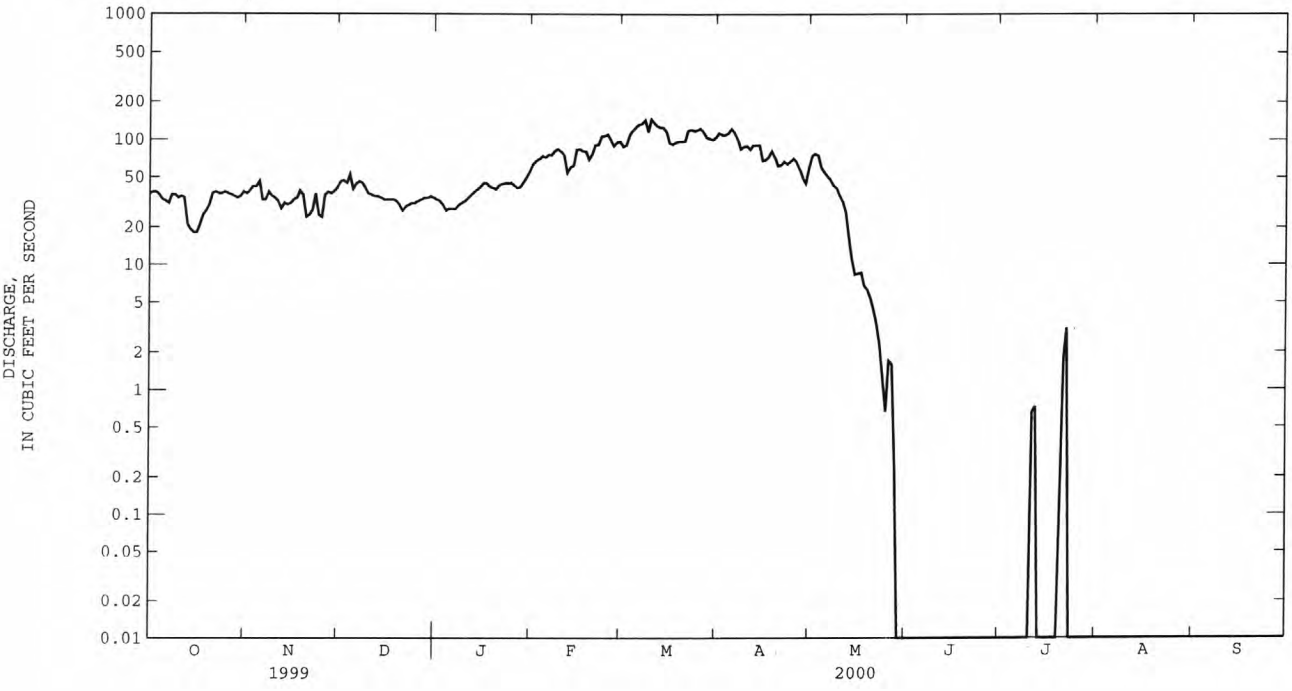
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2000, BY WATER YEAR (WY)

MEAN	48.4	89.7	90.2	100	143	179	169	174	143	87.5	65.2	52.3
MAX	285	218	157	159	225	788	388	766	572	759	479	1005
(WY)	1966	1970	1966	1974	1963	1960	1980	1957	1951	1962	1950	1951
MIN	.000	9.52	27.6	22.8	51.6	78.0	75.6	22.7	.000	.000	.000	.000
(WY)	1977	1979	1979	1979	1995	1999	1972	2000	2000	1954	1952	1952

06828500 REPUBLICAN RIVER AT STRATTON, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1950 - 2000	
ANNUAL TOTAL	17275.85		13373.70			
ANNUAL MEAN	47.3		36.5		111	
MEDIAN OF ANNUAL MEANS					100	
HIGHEST ANNUAL MEAN					304	1951
LOWEST ANNUAL MEAN					36.5	2000
HIGHEST DAILY MEAN	218	Jun 15	146	Mar 10	8180	Aug 1 1962
LOWEST DAILY MEAN	.00	Jul 26	.00	May 30	.00	Jun 18 1952
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 26	.00	May 30	.00	Jun 18 1952
INSTANTANEOUS PEAK FLOW			*168	Mar 10	26800	Jul 31 1962
INSTANTANEOUS PEAK STAGE			**8.06	Dec 23	9.34	Jul 31 1962
ANNUAL RUNOFF (AC-FT)	34270		26530		80190	
10 PERCENT EXCEEDS	85		97		217	
50 PERCENT EXCEEDS	40		33		84	
90 PERCENT EXCEEDS	1.5		.00		.00	

e Estimated.
* Stage 7.20 ft.
** Backwater from ice.



06832000 ENDERS RESERVOIR NEAR ENDERS, NE

LOCATION.--Lat 40°25'05", long 101°30'55", in NE ¼ sec.9, T.5 N., R.37 W., Chase County, Hydrologic Unit 10250005, near right bank in control house at outlet tube of Enders Dam on Frenchman Creek, 2.2 mi southeast of Enders.

DRAINAGE AREA.--950 mi^2, approximately, of which about 790 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WSP 2119: Drainage area.

GAGE.--Water-stage recorders: Graphic recorder and electronic data-logger, installed Dec. 15, 1997. Datum of gage is sea level. Prior to Sept. 3, 1960, mercury-column pressure gage at same datum.

REMARKS.--Reservoir is formed by earthfill dam; storage began Oct. 23, 1950. Capacity, 36,010 acre-ft between elevations 3,080.0 ft, sill of outlet gates, and 3,112.3 ft, top of storage pool. Top of flood-control pool at elevation 3,127.0 ft, capacity, 74,520 acre-ft. Top of superstorage flood-control pool at elevation 3,129.5 ft, capacity, 80,730 acre-ft. Dead storage, 8,470 acre-ft. Figures given herein represent total contents. Water used for irrigation in Frenchman-Cambridge irrigation project.

COOPERATION.--Capacity table furnished by Bureau of Reclamation (Effective Jan. 1, 1999).

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 55,330 acre-ft Mar. 25, 1960, elevation, 3,118.20 ft; minimum since operation of reservoir began, 8,870 acre-ft Aug. 28, 1978, elevation, 3,080.67 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 23,920 acre-ft June 1, elevation, 3,099.11 ft; minimum, 8,961 acre-ft Aug. 10, elevation, 3,082.42 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

3,080	7,516	3,090	14,510
3,085	10,670	3,100	25,000

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16280	17030	18060	19210	20340	21470	22710	23490	23900	18570	10760	9407
2	16300	17050	18090	19210	20390	21540	22750	23530	23900	18270	10550	9426
3	16350	17090	18140	19300	20470	21600	22780	23550	23900	18000	10340	9433
4	16390	17110	18200	19340	20470	21620	22820	23570	23870	17730	10130	9445
5	16430	17140	18210	19350	20500	21660	22820	23600	23890	17520	9913	9460
6	16450	17170	18230	19410	20520	21680	22820	23630	23860	17260	9667	9478
7	16480	17210	18290	19460	20550	21770	22860	23670	23850	16980	9426	9498
8	16510	17250	18310	19490	20600	21840	22900	23680	23810	16690	9189	9517
9	16530	17270	18360	19500	20630	21690	22920	23680	23800	16390	8992	9518
10	16550	17310	18380	19550	20700	21930	22960	23720	23790	16180	8974	9530
11	16560	17340	18430	19550	20770	21980	22970	23720	23770	15870	8980	9550
12	16570	17380	18460	19580	20810	22010	23000	23690	23720	15570	9005	9564
13	16600	17420	18510	19640	20890	22020	23000	23680	23670	15270	9024	9586
14	16610	17450	18560	19680	20920	22070	23040	23690	23610	14940	9049	9589
15	16640	17470	18560	19700	20930	22120	23080	23710	23470	14600	9052	9595
16	16670	17500	18600	19740	20970	22140	23110	23740	23290	14330	9097	9621
17	16700	17550	18650	19770	21010	22180	23110	23780	23160	14030	9125	9611
18	16720	17590	18680	19820	21050	22220	23200	23770	22970	13780	9132	9634
19	16750	17590	18750	19850	21090	22240	23240	23770	22770	13590	9151	9711
20	16770	17500	18770	19890	21140	22290	23160	23810	22550	13340	9174	9777
21	16790	17520	18800	19940	21170	22360	23170	23830	22280	13150	9198	9799
22	16820	17740	18840	19970	21200	22400	23190	23850	21900	12920	9224	9817
23	16850	17770	18860	19990	21260	22470	23200	23830	21510	12740	9234	9850
24	16870	17810	18900	20030	21270	22470	23280	23830	21100	12580	9250	9917
25	16900	17840	18950	20050	21350	22490	23280	23790	20710	12400	9265	9943
26	16920	17890	18980	20100	21370	22490	23310	23870	20300	12180	9274	9973
27	16920	17910	19020	20150	21400	22510	23310	23860	19900	11980	9291	10000
28	16930	17940	19030	20210	21430	22520	23340	23870	19530	11710	9301	10020
29	16940	17980	19070	20220	21440	22570	23360	23860	19190	11440	9323	10030
30	16970	18010	19120	20290	---	22590	23470	23890	18890	11190	9329	10060
31	17000	---	19160	20320	---	22650	---	23910	---	10970	9365	---
MEAN	16670	17490	18610	19750	20920	22120	23070	23740	22560	14590	9380	9679
MAX	17000	18010	19160	20320	21440	22650	23470	23910	23900	18570	10760	10060
MIN	16280	17030	18060	19210	20340	21470	22710	23490	18890	10970	8974	9407
(*)	3092.76	3093.79	3094.91	3095.99	3096.99	3098.04	3098.73	3099.10	3094.65	3085.42	3083.06	3084.12
(**)	+730	+1010	+1150	+1160	+1120	+1210	+820	+440	-5020	-7920	-1605	+695

CAL YR 1999 MAX 24210 MIN 1280 (**) -960
CAL YR 2000 MAX 23910 MIN 8974 (**) -6210

(*) Elevation, in feet, at end of month.
(**) Change in contents, in acre-feet.

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06834000 FRENCHMAN CREEK AT PALISADE, NE

LOCATION.--Lat 40°21'07", long 101°07'24", in SW ¼ SE ¼ sec.36, T.5 N., R.34 W., Hayes County, Hydrologic Unit 10250005, on right bank at upstream side of bridge on U.S. Highway 6, 0.7 mi west of Palisade, 1.5 mi upstream from Stinking Water Creek, and at mile 30.2.

DRAINAGE AREA.--1,300 mi^2, approximately, of which about 1,110 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--October 1894 to October 1896, June 1950 to current year. Published as Frenchman River at Palisade, October 1894 to October 1896 and October 1965 to September 1972.

REVISED RECORDS.--WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,743.49 ft above sea level. October 1894 to October 1896, nonrecording gage at railroad bridge 0.4 mi downstream at different datum; June 1950 to Feb. 7, 1977 recording gage at site 2,000 ft upstream at datum 4.0 ft higher.

REMARKS.--Records good except for periods of estimated record, which are poor. Natural flow affected by irrigation development above station and, since Oct. 23, 1950, by storage in Enders Reservoir (station 06832000).

COOPERATION.--Records provided by Nebraska Department of Natural Resources and reviewed by the Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	22	27	27	29	27	27	23	16	147	118	8.7
2	23	22	27	27	33	27	26	23	16	144	110	8.5
3	23	23	26	27	27	29	25	22	15	143	106	7.8
4	23	23	e25	e26	27	28	26	22	15	134	113	7.4
5	23	23	e25	e27	28	28	26	22	14	127	113	7.0
6	23	23	e26	e28	27	27	25	21	13	114	113	6.4
7	23	22	e26	e28	26	27	25	21	12	109	120	6.3
8	24	22	27	e28	26	30	24	21	11	115	123	7.8
9	24	22	27	e29	26	28	25	21	9.8	115	124	9.0
10	23	23	e26	30	27	28	25	21	9.0	131	114	7.2
11	22	22	e26	30	e26	30	25	20	7.9	138	76	6.9
12	23	23	e26	27	e26	29	25	19	7.8	142	46	6.6
13	22	23	e26	26	e26	28	25	19	8.7	138	36	6.6
14	22	23	e26	27	e26	28	24	19	8.3	139	30	6.3
15	22	23	e26	27	e26	27	23	19	7.3	139	26	6.2
16	22	23	e27	26	27	27	24	19	8.2	152	23	6.2
17	22	23	30	27	26	27	25	19	32	170	22	6.1
18	23	26	27	27	27	27	25	19	52	152	19	6.0
19	24	27	27	27	e26	27	24	18	62	134	18	6.0
20	24	26	e26	27	27	26	24	18	72	130	17	11
21	23	27	e26	30	27	26	23	18	74	127	16	11
22	23	27	e25	28	27	27	23	18	77	127	15	11
23	23	e26	e25	28	28	27	23	18	124	124	14	11
24	23	e25	e26	30	27	27	24	17	157	110	13	13
25	23	e25	27	30	27	26	24	17	162	99	12	15
26	23	e26	27	27	27	26	23	17	162	94	11	16
27	22	e26	27	27	27	25	22	17	166	108	12	15
28	22	27	27	e26	27	25	21	17	182	114	12	14
29	23	26	27	e26	27	25	21	16	166	123	11	14
30	23	26	27	e26	---	26	24	15	152	124	9.6	13
31	22	---	28	e28	---	26	---	15	---	128	9.2	---
TOTAL	708	725	821	854	783	841	726	591	1819.0	3991	1601.8	277.0
MEAN	22.8	24.2	26.5	27.5	27.0	27.1	24.2	19.1	60.6	129	51.7	9.23
MAX	24	27	30	30	33	30	27	23	182	170	124	16
MIN	22	22	25	26	26	25	21	15	7.3	94	9.2	6.0
AC-FT	1400	1440	1630	1690	1550	1670	1440	1170	3610	7920	3180	549

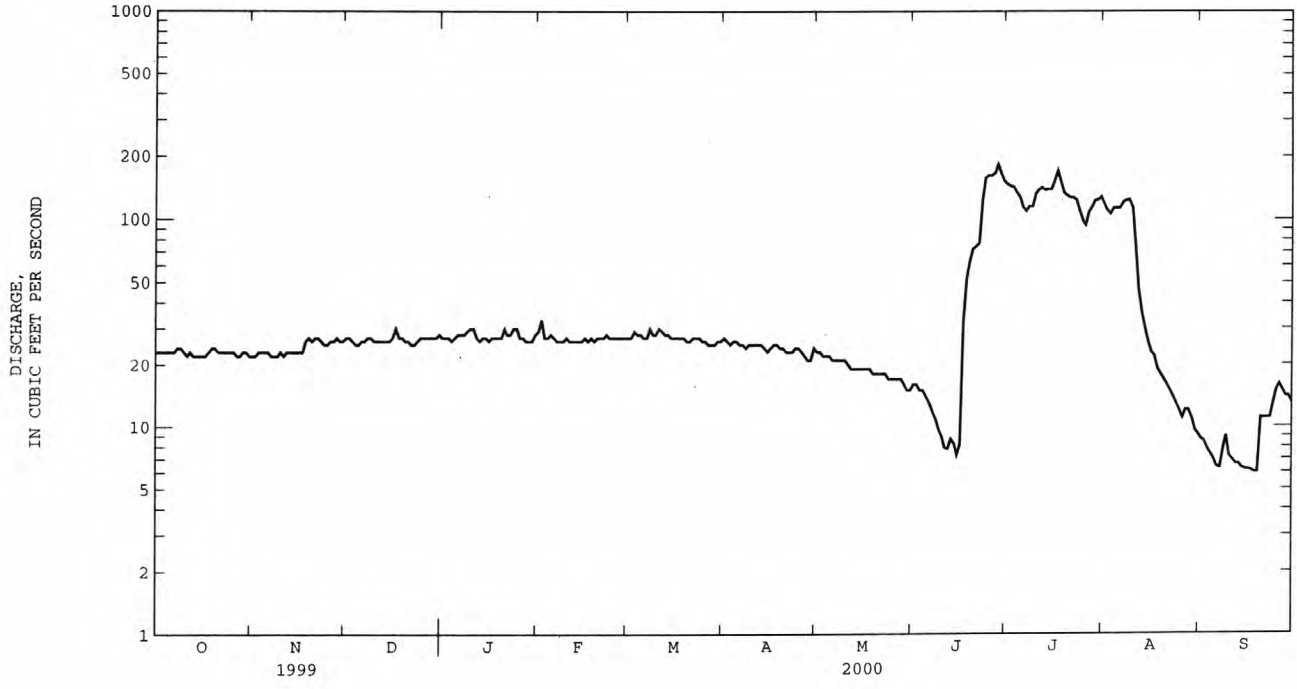
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2000, BY WATER YEAR (WY)

MEAN	39.5	35.3	35.4	37.3	42.5	47.5	46.9	52.6	71.5	183	171	68.3
MAX	120	88.9	97.4	102	147	247	198	151	270	340	367	232
(WY)	1963	1959	1959	1953	1952	1960	1960	1957	1967	1968	1962	1962
MIN	16.5	23.1	21.6	19.3	23.9	25.8	21.6	19.1	19.5	67.0	38.5	8.32
(WY)	1991	1990	1990	1979	1993	1999	1972	2000	1992	1951	1990	1990

06834000 FRENCHMAN CREEK AT PALISADE, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1950 - 2000 a	
ANNUAL TOTAL	15129		13737.8			
ANNUAL MEAN	41.4		37.5		69.8	
HIGHEST ANNUAL MEAN					115	1960
LOWEST ANNUAL MEAN					37.5	2000
HIGHEST DAILY MEAN	416	Aug 12	182	Jun 28	2090	Jun 17 1956
LOWEST DAILY MEAN	17	Jun 8	6.0	Sep 18	5.4	Sep 14 1990
ANNUAL SEVEN-DAY MINIMUM	19	Jun 3	6.2	Sep 13	5.8	Sep 4 1990
INSTANTANEOUS PEAK FLOW			209	Jul 16	5560	Jun 17 1956
INSTANTANEOUS PEAK STAGE			5.02	Jul 16	*8.79	Jun 17 1956
ANNUAL RUNOFF (AC-FT)	30010		27250		50600	
10 PERCENT EXCEEDS	108		114		162	
50 PERCENT EXCEEDS	26		26		38	
90 PERCENT EXCEEDS	22		12		23	

e Estimated.
a Since beginning of storage in Enders Reservoir.
* Site and datum then in use.



06835500 FRENCHMAN CREEK AT CULBERTSON, NE

LOCATION.--Lat 40°14'05", long 100°52'40", in SW ¼ SE ¼ sec. 12, T.3 N., R.32 W., Hitchcock County, Hydrologic Unit 10250005, on right bank 8 ft upstream from bridge on U.S. Highways 6 and 34, 2 mi west of Culbertson, and 4.0 mi upstream from mouth.

DRAINAGE AREA.--2,990 mi^2, of which about 1,590 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--June 1913 to September 1915 (gage heights and discharge measurements only), October 1930 to current year. Published as Frenchman River at Culbertson October 1965 to September 1972. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1390: 1931, 1933, 1934(M), 1938(M). WDR NE-84-1: 1979, 1982(M). WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,583.44 ft above sea level. See WSP 1919 for history of changes prior to Nov. 2, 1950. Data collection platform at station.

REMARKS.--Records good except for estimated periods, which are poor. Natural flow affected by irrigation development above station and, since Oct. 23, 1950, by storage in Enders Reservoir (station 06832000). Prinicipal diversion is by Culbertson Canal, 20,800 acres.

EXTREME FOR TOTAL PERIOD OF RECORD.--Maximum discharge, 15,000 ft^3/s (estimated), May 31, 1935, gage height 14.80 ft, from floodmark.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	53	59	59	55	60	68	e22	6.5	3.3	.03	.00
2	47	53	59	59	55	61	69	e22	6.1	3.3	.03	.00
3	48	53	59	59	58	63	69	e22	5.9	3.1	.09	.00
4	48	54	59	56	57	64	69	e23	5.6	2.9	.09	.00
5	47	54	58	51	56	64	70	e25	5.4	2.6	.04	.00
6	47	54	57	60	57	64	51	e26	5.4	2.6	.04	.00
7	47	54	58	61	57	64	45	e26	5.2	1.8	.00	.00
8	47	55	59	59	58	66	48	e26	5.0	1.5	.00	.00
9	48	55	59	59	58	65	54	e25	4.8	1.3	.00	.00
10	48	55	57	59	58	66	45	23	4.6	1.4	.00	.00
11	47	54	58	58	59	68	30	22	4.5	1.4	.00	.00
12	48	55	57	58	59	67	28	21	4.8	.95	.05	.00
13	48	55	58	57	57	67	27	20	4.5	.64	.00	.00
14	48	55	59	57	59	67	27	20	4.4	.81	.00	.00
15	49	55	57	58	60	66	25	20	4.2	.71	.00	.00
16	48	55	55	58	59	65	25	20	4.2	.77	1.9	.00
17	49	56	59	58	61	64	26	20	4.3	.82	2.6	.00
18	50	56	59	58	62	64	27	19	4.3	2.0	.00	.00
19	49	55	59	58	61	64	27	19	4.5	.36	.00	.00
20	50	55	58	58	61	64	25	18	4.3	.42	.00	.03
21	50	55	56	58	61	64	25	18	4.2	.59	.00	.00
22	51	56	59	59	62	64	25	18	4.1	.23	.00	.00
23	53	57	59	57	64	67	26	17	4.1	.09	.00	.00
24	52	58	59	56	64	70	26	17	4.1	.07	.00	.00
25	52	57	59	55	64	68	26	15	4.0	.03	.00	.15
26	60	58	59	57	63	70	26	12	3.8	.00	.00	.08
27	54	58	59	56	62	67	25	12	3.7	.00	.00	.19
28	53	57	59	56	62	64	24	11	3.5	.00	.00	.19
29	53	58	59	57	61	64	23	12	3.7	.00	.00	.28
30	53	58	59	57	---	65	22	11	3.4	.00	.00	.12
31	53	---	59	56	---	66	---	9.3	---	.03	.00	---
TOTAL	1544	1663	1809	1784	1730	2022	1103	591.3	137.1	33.72	4.87	1.04
MEAN	49.8	55.4	58.4	57.5	59.7	65.2	36.8	19.1	4.57	1.09	.16	.035
MAX	60	58	59	61	64	70	70	26	6.5	3.3	2.6	.28
MIN	47	53	55	51	55	60	22	9.3	3.4	.00	.00	.00
AC-FT	3060	3300	3590	3540	3430	4010	2190	1170	272	67	9.7	2.1

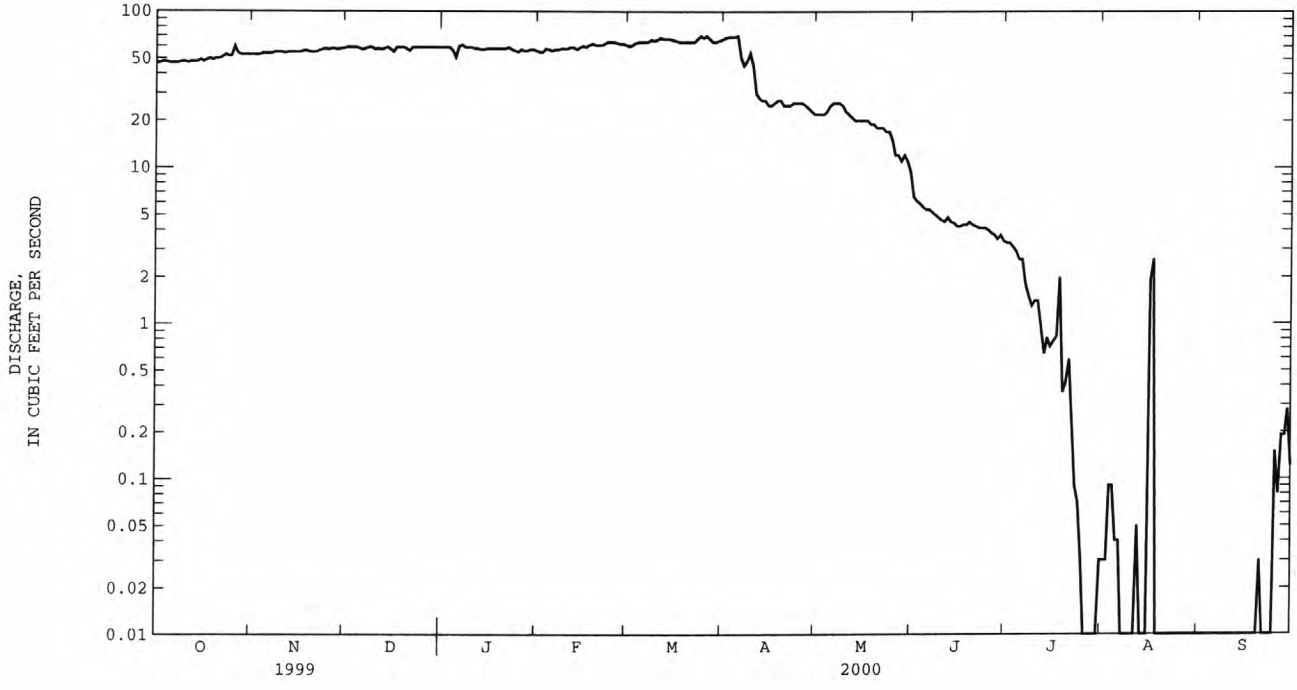
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2000, BY WATER YEAR (WY)

MEAN	71.6	82.1	80.9	81.4	99.2	112	79.1	65.6	77.6	48.9	38.3	57.0
MAX	172	146	162	182	210	543	290	222	351	269	258	245
(WY)	1963	1963	1959	1953	1952	1960	1960	1952	1967	1962	1962	1951
MIN	27.7	46.8	46.9	42.9	57.1	58.0	28.9	18.0	4.57	1.09	.16	.035
(WY)	1991	1991	1999	1996	1996	1999	1999	1986	2000	2000	2000	2000

06835500 FRENCHMAN CREEK AT CULBERTSON, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1951 - 2000 a	
ANNUAL TOTAL	15978.9		12423.03			
ANNUAL MEAN	43.8		33.9		74.3	
HIGHEST ANNUAL MEAN					165	1960
LOWEST ANNUAL MEAN					33.9	2000
HIGHEST DAILY MEAN	215	Aug 13	70	Mar 24	3060	Jun 18 1956
LOWEST DAILY MEAN	3.4	Aug 1	.00	Jul 26	.00	Aug 7 1980
ANNUAL SEVEN-DAY MINIMUM	4.5	Jul 30	.00	Aug 18	.00	Aug 18 2000
INSTANTANEOUS PEAK FLOW			75	Mar 24	5260	Jun 17 1951
INSTANTANEOUS PEAK STAGE			3.03	Mar 24	10.43	Jun 17 1951
ANNUAL RUNOFF (AC-FT)	31690		24640		53830	
10 PERCENT EXCEEDS	60		63		130	
50 PERCENT EXCEEDS	48		48		64	
90 PERCENT EXCEEDS	14		.00		17	

e Estimated.
a Since start of storage in Enders Reservoir.



06836500 DRIFTWOOD CREEK NEAR MCCOOK, NE

LOCATION.--Lat 40°08'45", long 100°40'22", in SW ¼ SE ¼ sec.11, T.2 N., R.30 W., Red Willow County, Hydrologic Unit 10250004, on right bank downstream from county road bridge, 5.8 mi upstream from mouth, and 3.5 mi southwest of McCook.

DRAINAGE AREA.--361 mi^2, of which about 351 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--March 1946 to current year.

REVISED RECORDS.--WSP 1210: 1950. WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,502.78 ft above sea level. Prior to Oct. 12, 1962, at site 1.5 mi downstream in old channel at datum 9.00 ft lower, Oct. 12, 1962 to Apr. 11, 1963 at site 1.8 mi downstream at datum 12.75 ft lower, Apr. 12, 1963 to Apr. 22, 1982 at site 1.3 mi downstream at datum 9.00 ft lower, and Apr. 22, 1982 to May 29, 1992 at site 3.2 mi downstream at datum 17.55 ft lower. Data collection platform at station.

REMARKS.--Records fair. Natural flow affected by waste from Meeker-Driftwood Canal and by irrigation development above station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

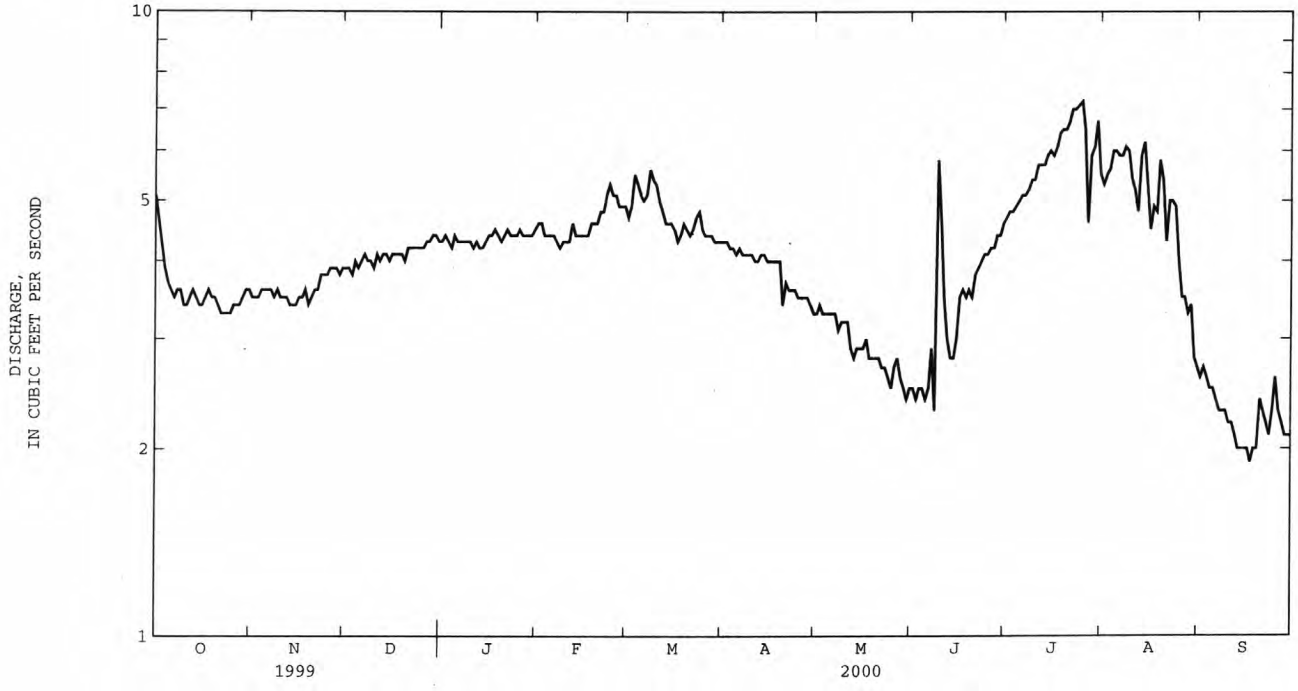
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	3.5	3.9	4.3	4.6	4.7	4.3	3.3	2.5	4.7	5.3	2.6
2	4.6	3.5	3.9	4.4	4.6	4.9	4.3	3.4	2.4	4.8	5.5	2.7
3	4.2	3.5	3.8	4.3	4.4	5.5	4.2	3.3	2.5	4.8	5.6	2.6
4	3.9	3.6	4.0	4.2	4.4	5.3	4.2	3.3	2.5	4.9	6.0	2.5
5	3.7	3.6	3.9	4.4	4.4	5.1	4.1	3.3	2.4	5.0	6.0	2.5
6	3.6	3.6	4.0	4.3	4.4	5.0	4.2	3.3	2.5	5.1	5.9	2.4
7	3.5	3.6	4.1	4.3	4.3	5.1	4.1	3.3	2.9	5.1	5.9	2.3
8	3.6	3.5	4.0	4.3	4.2	5.6	4.1	3.1	2.3	5.2	6.1	2.3
9	3.6	3.6	4.0	4.3	4.3	5.4	4.1	3.2	5.8	5.4	6.0	2.3
10	3.4	3.5	3.9	4.3	4.3	5.3	4.1	3.2	4.6	5.4	5.4	2.2
11	3.4	3.5	4.1	4.2	4.3	5.0	4.0	3.2	3.5	5.7	5.2	2.2
12	3.5	3.5	4.0	4.3	4.6	4.8	4.0	2.9	3.0	5.7	4.8	2.1
13	3.6	3.4	4.1	4.2	4.4	4.6	4.1	2.8	2.8	5.7	5.9	2.0
14	3.5	3.4	4.1	4.2	4.4	4.6	4.1	2.9	2.8	5.9	6.2	2.0
15	3.4	3.4	4.0	4.3	4.4	4.6	4.0	2.9	3.0	6.0	5.3	2.0
16	3.4	3.5	4.1	4.4	4.4	4.5	4.0	2.9	3.5	5.9	4.5	2.0
17	3.5	3.5	4.1	4.4	4.4	4.3	4.0	3.0	3.6	6.1	4.9	1.9
18	3.6	3.6	4.1	4.5	4.6	4.4	4.0	2.8	3.5	6.4	4.8	2.0
19	3.5	3.4	4.1	4.4	4.6	4.6	4.0	2.8	3.6	6.5	5.8	2.0
20	3.5	3.5	4.0	4.3	4.6	4.5	3.4	2.8	3.5	6.5	5.4	2.4
21	3.4	3.6	4.2	4.4	4.8	4.4	3.7	2.8	3.8	6.7	4.3	2.3
22	3.3	3.6	4.2	4.5	4.8	4.5	3.6	2.7	3.9	7.0	5.0	2.2
23	3.3	3.8	4.2	4.4	5.1	4.7	3.6	2.7	4.0	7.0	5.0	2.1
24	3.3	3.8	4.2	4.4	5.3	4.8	3.6	2.6	4.1	7.1	4.9	2.3
25	3.3	3.8	4.2	4.4	5.1	4.5	3.5	2.5	4.1	7.2	4.0	2.6
26	3.4	3.9	4.2	4.5	5.1	4.4	3.5	2.7	4.2	6.5	3.5	2.3
27	3.4	3.9	4.3	4.4	4.9	4.4	3.5	2.8	4.2	4.6	3.5	2.2
28	3.4	3.9	4.3	4.4	4.9	4.4	3.5	2.6	4.4	5.9	3.3	2.1
29	3.5	3.8	4.4	4.4	4.9	4.3	3.4	2.5	4.4	6.1	3.4	2.1
30	3.6	3.9	4.4	4.4	---	4.3	3.3	2.4	4.6	6.7	2.8	2.1
31	3.6	---	4.3	4.5	---	4.3	---	2.5	---	5.5	2.7	---
TOTAL	111.6	108.2	127.1	135.0	133.5	146.8	116.5	90.5	104.9	181.1	152.9	67.3
MEAN	3.60	3.61	4.10	4.35	4.60	4.74	3.88	2.92	3.50	5.84	4.93	2.24
MAX	5.1	3.9	4.4	4.5	5.3	5.6	4.3	3.4	5.8	7.2	6.2	2.7
MIN	3.3	3.4	3.8	4.2	4.2	4.3	3.3	2.4	2.3	4.6	2.7	1.9
AC-FT	221	215	252	268	265	291	231	180	208	359	303	133

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2000, BY WATER YEAR (WY)

MEAN	7.14	3.69	3.60	3.57	5.75	7.87	4.28	9.72	17.8	20.1	16.7	13.4
MAX	137	7.71	7.44	7.96	31.4	209	13.3	112	85.8	100	156	302
(WY)	1947	1998	1974	1974	1960	1960	1977	1957	1947	1956	1950	1951
MIN	.071	.083	.077	.052	.048	.039	.20	.19	.23	.052	.055	.040
(WY)	1956	1956	1955	1955	1956	1956	1948	1956	1954	1955	1946	1953

06836500 DRIFTWOOD CREEK NEAR MCCOOK, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1946 - 2000	
ANNUAL TOTAL	2489.9		1475.4			
ANNUAL MEAN	6.82		4.03		9.50	
MEDIAN OF ANNUAL MEANS					7.60	
HIGHEST ANNUAL MEAN					35.0	1951
LOWEST ANNUAL MEAN					1.12	1953
HIGHEST DAILY MEAN	147	May 23	7.2	Jul 25	3950	Aug 7 1950
LOWEST DAILY MEAN	1.9	Sep 16	1.9	Sep 17	.00	Apr 25 1946
ANNUAL SEVEN-DAY MINIMUM	2.0	Sep 10	2.0	Sep 13	.00	Jun 12 1946
INSTANTANEOUS PEAK FLOW			9.3	Jun 7	4740	Aug 7 1950
INSTANTANEOUS PEAK STAGE			3.65	Oct 1	25.43	Aug 7 1950
ANNUAL RUNOFF (AC-FT)	4940		2930		6880	
10 PERCENT EXCEEDS	9.6		5.4		11	
50 PERCENT EXCEEDS	4.4		4.1		4.8	
90 PERCENT EXCEEDS	3.3		2.5		.20	



06837000 REPUBLICAN RIVER AT MCCOOK, NE

LOCATION.--Lat 40°11'15", long 100°37'05", in SW ¼ NE ¼ sec.32, T.3 N., R.29 W., Red Willow County, Hydrologic Unit 10250004, on left bank at downstream side of bridge on U.S. Highway 83 at south edge of McCook, 2.5 mi downstream from Driftwood Creek, 10.5 mi upstream from Red Willow Creek, and at mile 348.

DRAINAGE AREA.--12,240 mi^2, of which about 6,220 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--October 1930 to June 1932, October 1954 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,456.37 ft above sea level. October 1930 to June 1932, nonrecording gage on former highway bridge 300 ft upstream at different datum, and October 1954 to Mar. 13, 1959 on highway bridge 25 ft upstream at present datum. Mar. 13, 1959 to Mar. 29, 1988 at present site and datum. Mar. 29, 1988 to Oct. 31, 1989 200 ft downstream at present datum. Data collection platform at station.

REMARKS.--Records good except for periods of estimated record, which are fair. Natural flow affected by irrigation development above station and by storage in Bonny Reservoir, Enders Reservoir (station 06832000), and Swanson Lake (station 06829000).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

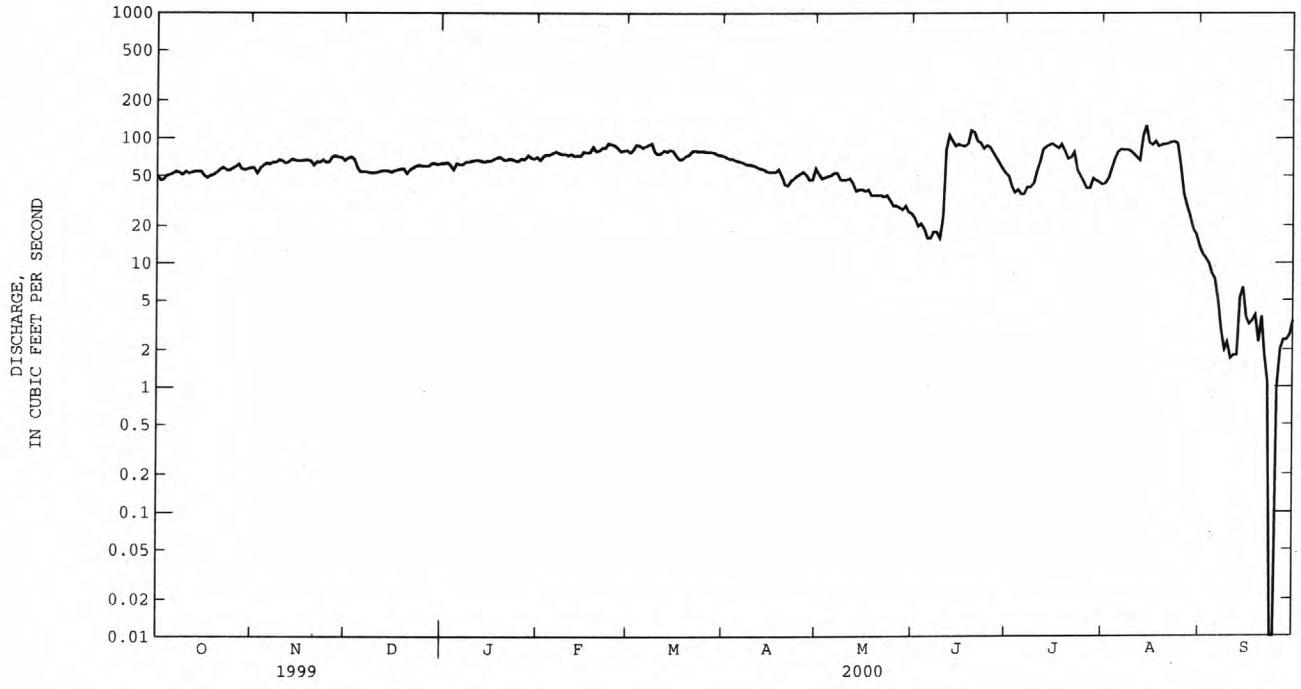
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	58	69	63	67	77	71	52	23	50	44	12
2	46	52	71	64	72	81	69	48	20	42	48	11
3	47	58	68	61	74	89	69	49	21	37	57	10
4	50	61	59	56	74	88	67	50	19	39	69	8.4
5	51	63	54	63	76	84	66	51	16	36	78	7.5
6	52	62	54	62	78	86	65	53	16	36	82	5.1
7	54	64	54	62	76	89	63	53	18	41	81	2.9
8	53	64	53	65	75	91	62	47	18	41	81	2.0
9	51	67	53	65	75	77	62	47	16	44	79	2.3
10	54	66	53	66	73	75	61	47	24	54	75	1.7
11	52	63	54	67	75	76	59	48	81	65	71	1.8
12	53	65	55	67	72	80	58	44	107	82	67	1.8
13	54	68	55	66	73	78	57	38	96	86	105	5.2
14	54	67	55	65	72	81	55	39	87	89	126	6.4
15	54	66	53	66	78	79	54	39	90	91	93	3.7
16	50	66	55	66	77	72	54	38	88	87	89	3.2
17	48	67	56	68	77	68	54	39	87	83	95	3.4
18	50	67	57	70	85	69	57	35	91	90	86	3.8
19	51	66	57	71	79	72	50	35	115	79	89	2.3
20	53	61	52	68	80	74	43	35	112	69	90	3.7
21	56	65	56	67	84	79	42	35	95	71	91	1.8
22	58	64	58	69	84	80	46	34	92	77	93	1.1
23	56	67	60	68	91	79	48	35	83	56	94	.01
24	55	64	61	66	90	79	50	32	88	50	91	.00
25	57	65	60	66	88	79	52	29	85	45	60	.96
26	59	71	60	69	83	78	54	29	77	40	36	2.0
27	62	72	60	68	79	78	51	28	70	40	29	2.4
28	57	71	63	73	80	77	47	27	64	48	24	2.4
29	56	70	63	70	81	75	47	29	58	46	19	2.6
30	57	66	62	69	---	74	58	26	53	45	17	3.4
31	58	---	63	71	---	73	---	25	---	43	14	---
TOTAL	1658	1946	1803	2057	2268	2437	1691	1216	1910	1802	2173	114.87
MEAN	53.5	64.9	58.2	66.4	78.2	78.6	56.4	39.2	63.7	58.1	70.1	3.83
MAX	62	72	71	73	91	91	71	53	115	91	126	12
MIN	46	52	52	56	67	68	42	25	16	36	14	.00
AC-FT	3290	3860	3580	4080	4500	4830	3350	2410	3790	3570	4310	228

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2000, BY WATER YEAR (WY)

MEAN	98.7	111	108	111	149	178	160	173	189	213	174	98.5
MAX	466	341	321	269	398	901	577	1022	1070	1142	970	286
(WY)	1966	1966	1959	1959	1958	1960	1958	1957	1962	1962	1962	1962
MIN	30.0	62.4	51.7	59.7	75.2	77.3	56.4	22.6	39.8	58.1	66.1	3.83
(WY)	1992	1991	1996	1979	1995	1996	2000	1956	1992	2000	1978	2000

06837000 REPUBLICAN RIVER AT MCCOOK, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1955 - 2000	
ANNUAL TOTAL	27797		21075.87			
ANNUAL MEAN	76.2		57.6		147	
HIGHEST ANNUAL MEAN					383	1962
LOWEST ANNUAL MEAN					57.6	2000
HIGHEST DAILY MEAN	455	May 23	126	Aug 14	5020	Mar 21 1960
LOWEST DAILY MEAN	37	Jan 4	.00	Sep 24	.00	Sep 24 2000
ANNUAL SEVEN-DAY MINIMUM	40	Jan 1	1.2	Sep 21	1.2	Sep 21 2000
INSTANTANEOUS PEAK FLOW			221	Aug 14	5890	Mar 21 1960
INSTANTANEOUS PEAK STAGE			4.66	Aug 14	9.14	Mar 21 1960
ANNUAL RUNOFF (AC-FT)	55140		41800		106500	
10 PERCENT EXCEEDS	110		86		260	
50 PERCENT EXCEEDS	64		61		107	
90 PERCENT EXCEEDS	50		18		55	



KANSAS RIVER BASIN

06838000 RED WILLOW CREEK NEAR RED WILLOW, NE

LOCATION.--Lat 40°14'10", long 100°30'00", in NE ¼ NE ¼ sec.17, T.3 N., R.28 W., Red Willow County, Hydrologic Unit 10250007, on left bank near downstream side of bridge on U.S. Highways 6 and 34, 0.8 mi north of Red Willow and 2.1 mi upstream from mouth.

DRAINAGE AREA.--820 mi^2, of which about 405 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--September 1939 to current year.

REVISED RECORDS.--WSP 1510: 1945(M). WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,398.64 ft above sea level. Prior to May 26, 1945, nonrecording gage at bridge 1.2 mi upstream at datum 11.16 ft higher; May 26, 1945 to Aug. 2, 1974 water-stage recorder at left downstream side of bridge, present datum; Aug. 3, 1974 to June 27, 1980 on right bank at downstream side of bridge, present datum; and June 28, 1980 to May 19, 1992 at left downstream side of bridge, present datum. Data collection platform at station.

REMARKS.--Records poor. Natural flow affected by irrigation development above station, since Sept. 5, 1961, by storage in Hugh Butler Lake (station 06837390), and since June 1963 by Red Willow Canal which diverts 4.5 mi above station for irrigation of about 4,150 acres.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	7.2	7.8	e8.0	e5.4	8.7	11	10	8.1	7.6	10	5.5
2	3.8	7.1	7.8	e8.2	e6.6	9.0	11	9.5	5.9	5.9	21	5.9
3	4.4	7.3	7.7	e8.0	e7.2	10	11	9.7	.72	5.8	42	5.6
4	4.5	7.6	7.8	e7.8	e8.0	9.0	11	9.4	4.1	111	60	5.4
5	4.3	7.6	7.9	e8.4	e8.0	8.4	11	9.3	22	21	55	4.5
6	4.4	7.8	e8.0	e4.0	e8.8	8.4	10	9.3	2.8	8.0	29	4.2
7	4.7	7.8	7.9	e3.6	e8.6	8.5	8.3	9.5	20	11	28	4.1
8	5.0	8.0	7.8	e4.0	8.4	10	8.1	9.4	77	10	20	4.1
9	5.0	8.0	7.8	e4.2	8.5	8.4	8.4	9.3	94	8.5	8.5	4.5
10	4.7	7.9	e7.8	e4.5	8.3	8.5	8.6	9.2	90	6.0	5.1	4.1
11	5.2	7.8	7.6	e4.7	9.6	8.5	8.5	9.1	93	14	3.2	4.2
12	5.7	7.8	e7.6	e5.0	e9.4	8.4	8.7	8.7	57	17	.43	4.4
13	5.5	8.0	e7.4	e5.0	e9.0	8.3	9.0	8.5	11	16	18	4.6
14	5.3	7.5	7.5	e5.2	e8.6	9.5	9.0	8.6	6.5	12	28	4.6
15	5.2	8.0	e7.4	e5.4	e8.6	9.6	9.0	8.6	6.8	8.3	33	4.4
16	5.6	8.0	e7.2	e5.4	8.7	9.5	9.0	8.6	5.5	7.4	42	4.5
17	6.3	7.8	7.3	e5.6	8.7	9.8	9.1	8.9	6.2	12	63	4.6
18	6.7	7.7	7.8	e6.0	8.8	10	9.8	8.4	7.8	9.8	62	4.7
19	6.8	7.4	7.3	e6.6	9.6	10	9.7	8.3	7.3	4.4	40	4.8
20	6.9	7.4	9.2	e7.0	8.6	10	9.3	7.8	4.9	2.4	45	7.1
21	7.2	7.8	9.8	e6.6	8.6	10	9.5	7.7	2.7	17	72	5.8
22	7.3	8.4	8.7	e6.8	8.6	10	9.7	7.7	.07	497	47	6.4
23	7.0	8.5	7.4	e6.4	9.3	11	9.7	7.7	1.3	105	28	6.4
24	6.7	8.3	7.3	e6.0	8.9	12	9.5	7.9	4.2	19	12	6.9
25	6.7	7.9	7.4	e5.0	8.8	11	10	8.6	4.2	24	12	6.8
26	6.6	8.1	6.3	e4.8	8.5	11	9.5	9.7	9.8	19	10	16
27	6.8	8.1	5.4	e4.7	8.6	11	8.9	9.5	9.2	14	8.2	7.5
28	7.0	7.6	6.5	e4.6	8.7	11	9.2	9.1	1.4	15	6.8	6.8
29	7.2	7.6	6.7	e4.6	8.7	11	9.1	9.0	.13	15	5.9	6.5
30	7.1	7.6	e6.6	e4.7	---	11	11	9.5	3.7	14	5.8	6.5
31	7.4	---	e7.0	e5.0	---	11	---	8.3	---	12	5.3	---
TOTAL	181.1	233.6	233.7	175.8	246.1	302.5	285.6	274.8	567.32	1049.1	826.23	171.4
MEAN	5.84	7.79	7.54	5.67	8.49	9.76	9.52	8.86	18.9	33.8	26.7	5.71
MAX	7.4	8.5	9.8	8.4	9.6	12	11	10	94	497	72	16
MIN	3.8	7.1	5.4	3.6	5.4	8.3	8.1	7.7	.07	2.4	.43	4.1
AC-FT	359	463	464	349	488	600	566	545	1130	2080	1640	340

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2000, BY WATER YEAR (WY)

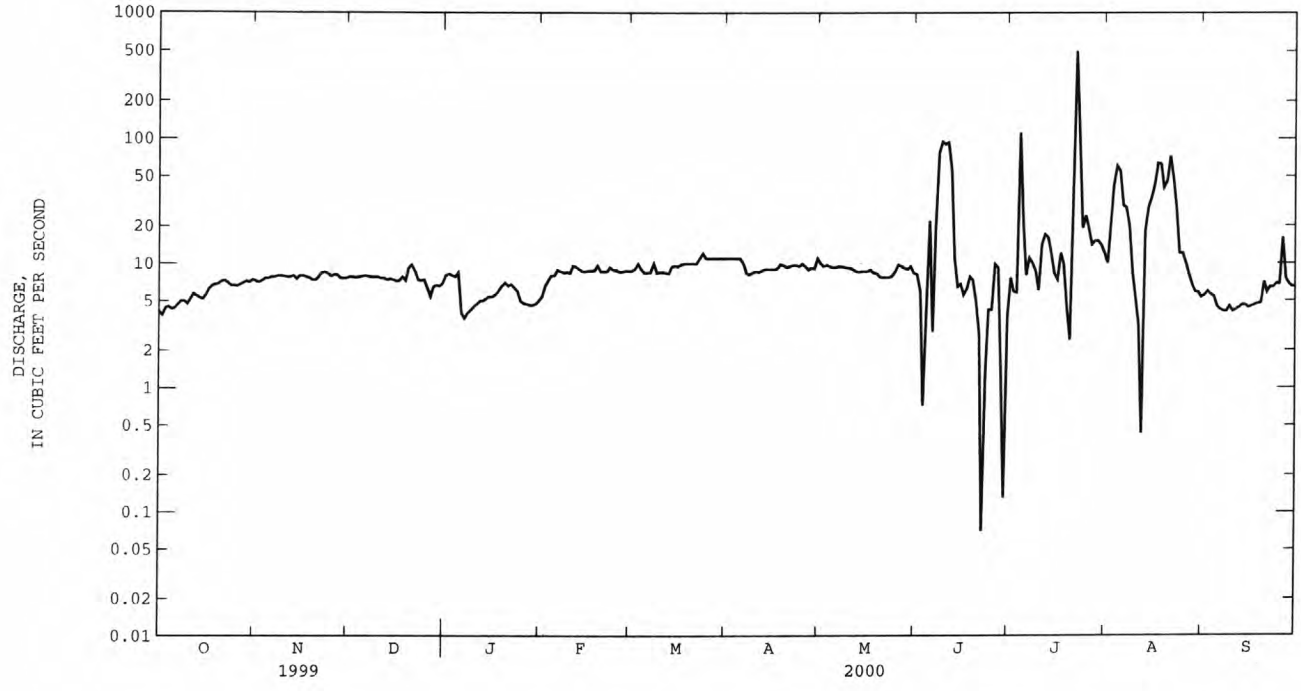
MEAN	8.56	8.58	8.78	9.56	11.0	11.6	11.5	12.1	21.1	21.1	21.7	10.6
MAX	18.8	13.6	12.1	21.1	32.9	35.5	41.5	36.6	124	59.9	92.4	29.0
(WY)	1970	1997	1966	1962	1968	1994	1970	1973	1967	1967	1978	1978
MIN	3.84	4.98	5.93	4.15	7.15	7.28	4.98	2.87	4.56	6.46	4.02	3.22
(WY)	1978	1978	1999	1999	1962	1996	1978	1978	1992	1999	1963	1991

KANSAS RIVER BASIN

06838000 RED WILLOW CREEK NEAR RED WILLOW, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1962 - 2000 a	
ANNUAL TOTAL	3155.27		4547.25			
ANNUAL MEAN	8.64		12.4		13.0	
HIGHEST ANNUAL MEAN					25.5	1967
LOWEST ANNUAL MEAN					7.90	1992
HIGHEST DAILY MEAN	206	Aug 11	497	Jul 22	668	Jul 18 1962
LOWEST DAILY MEAN	.09	Aug 1	.07	Jun 22	.00	Sep 2 1995
ANNUAL SEVEN-DAY MINIMUM	.32	Jan 1	3.5	Jun 19	.29	Dec 31 1998
INSTANTANEOUS PEAK FLOW			597	Jul 22	30000	Jun 22 1947
INSTANTANEOUS PEAK STAGE			12.33	Jul 22	18.36	Jun 22 1947
ANNUAL RUNOFF (AC-FT)	6260		9020		9440	
10 PERCENT EXCEEDS	9.6		15		20	
50 PERCENT EXCEEDS	7.8		8.0		9.3	
90 PERCENT EXCEEDS	4.0		4.6		5.8	

e Estimated.
a Since beginning of storage in Hugh Butler Lake.



06843500 REPUBLICAN RIVER AT CAMBRIDGE, NE

LOCATION.--Lat 40°17'05", long 100°08'35", in NW ¼ SE ¼ sec. 28, T.4 N., R.25 W., Furnas County, Hydrologic Unit 10250004, on left bank 400 ft south of U.S. Highways 6 and 34, 0.5 mi downstream from Medicine Creek, 1 mi east of Cambridge, 1.3 mi upstream from Cambridge diversion dam, and at mile 315.

DRAINAGE AREA.--14,460 mi^2, of which about 7,780 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--September 1945 to current year.

REVISED RECORDS.--WDR NE-84-1: 1983(M). WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,239.07 ft above sea level. Prior to July 13, 1948, nonrecording gage at site 150 ft upstream at same datum and July 13, 1948 to Sept. 25, 1950 at present site and datum.

REMARKS.--Records good except for periods of estimated record, which are poor. Natural flow affected by irrigation development above station and since 1949 by regulation from upstream reservoirs.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 160,000 ft^3/s June 22, 1947, gage height 16.7 ft, from floodmarks.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1826, 17.6 ft May 31 to June 1, 1935, information from local resident, discharge, about 280,000 ft^3/s.

COOPERATION.--Records provided by Nebraska Department of Natural Resources and reviewed by the Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	84	98	98	156	181	168	82	86	149	320	6.1
2	67	84	99	100	158	185	169	65	87	140	298	4.2
3	68	86	101	101	e155	198	167	54	93	128	269	2.7
4	69	88	104	e100	153	199	159	51	93	125	225	1.3
5	68	88	e104	92	e150	191	159	47	94	137	211	e.80
6	68	89	e104	e92	156	188	156	47	114	132	205	e.77
7	66	89	e102	e100	156	190	152	49	111	143	209	e.74
8	67	89	e104	e104	157	214	144	51	105	145	250	e.72
9	69	90	e102	e104	158	202	140	84	128	144	236	e.69
10	69	89	e102	e104	157	195	139	79	128	240	231	e.66
11	69	88	e102	e108	e155	192	138	79	129	296	211	e.63
12	68	88	e100	e118	e155	187	107	78	148	276	199	e.60
13	68	88	e102	e116	e160	184	94	90	163	275	197	e.58
14	68	88	e102	e125	e160	187	89	93	159	254	233	e.55
15	70	89	e100	e130	163	183	88	94	180	240	265	e.52
16	70	88	e100	134	163	179	85	94	182	240	259	e.49
17	71	88	101	134	163	178	85	96	195	252	260	e.46
18	72	87	e100	136	e160	182	85	95	201	224	257	e.44
19	73	86	102	137	e170	180	86	93	217	192	253	e.41
20	73	88	e98	e130	e175	175	85	90	191	196	241	e1.0
21	74	89	94	e140	176	173	83	87	146	187	240	e.35
22	75	91	e92	142	177	176	78	83	136	409	253	e.32
23	78	96	e94	143	e175	182	72	78	145	509	249	e.30
24	79	95	e96	e135	e175	181	69	48	141	213	224	e.27
25	79	96	96	e140	e180	177	70	74	133	166	120	e.24
26	78	97	94	e145	181	177	74	98	121	131	76	e.21
27	78	97	94	e145	178	174	72	95	154	132	50	e.18
28	79	97	96	e145	178	171	71	89	151	146	34	e.16
29	82	99	97	e145	180	173	69	86	146	143	22	e.13
30	82	97	97	e150	---	173	81	84	201	144	14	e.10
31	83	---	e98	e155	---	168	---	86	---	264	8.1	---
TOTAL	2244	2708	3075	3848	4780	5695	3234	2419	4278	6372	6119.1	26.62
MEAN	72.4	90.3	99.2	124	165	184	108	78.0	143	206	197	.89
MAX	83	99	104	155	181	214	169	98	217	509	320	6.1
MIN	64	84	92	92	150	168	69	47	86	125	8.1	.10
AC-FT	4450	5370	6100	7630	9480	11300	6410	4800	8490	12640	12140	53

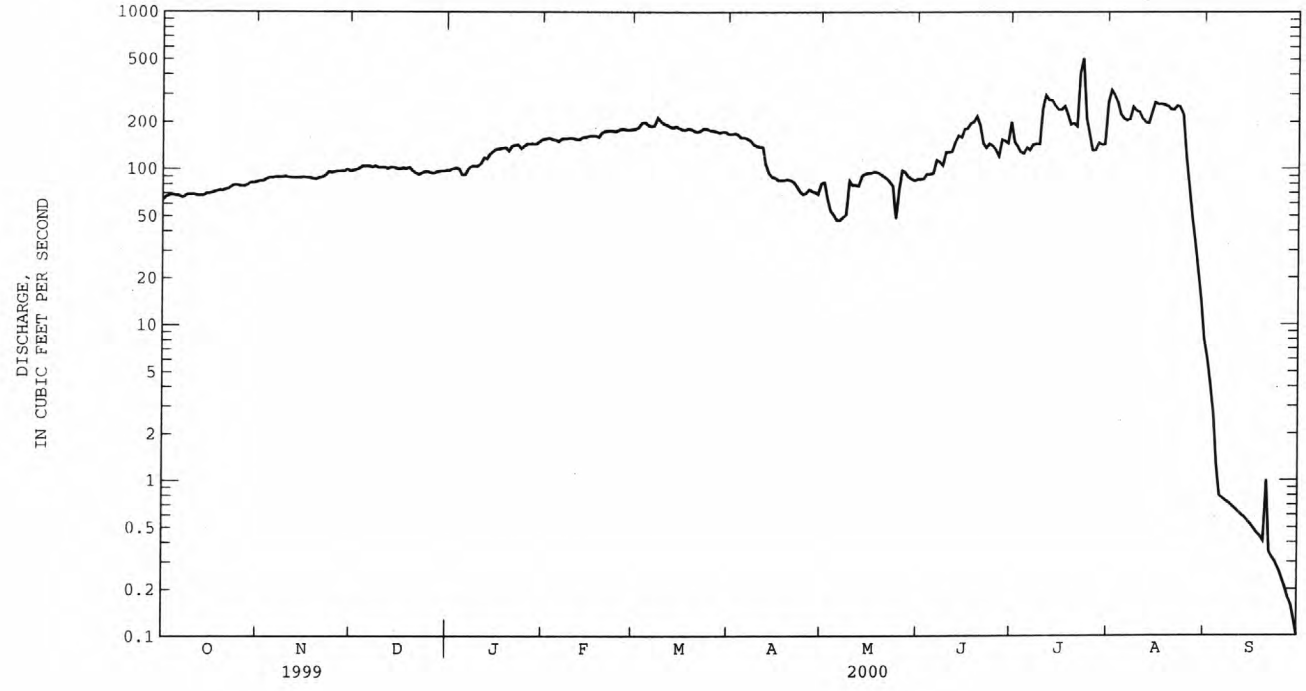
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2000, BY WATER YEAR (WY)

MEAN	122	154	150	157	240	295	260	304	347	367	297	156
MAX	515	425	389	384	579	1684	756	1624	1743	1613	1202	1935
(WY)	1966	1966	1966	1959	1966	1960	1958	1957	1962	1962	1962	1951
MIN	11.4	64.3	71.1	44.4	103	111	91.3	48.0	60.7	160	98.9	.89
(WY)	1992	1991	1996	1979	1996	1991	1992	1992	1992	1952	1952	2000

06843500 REPUBLICAN RIVER AT CAMBRIDGE, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1950 - 2000 a	
ANNUAL TOTAL	48570		44798.72			
ANNUAL MEAN	133		122		237	
HIGHEST ANNUAL MEAN					686	1951
LOWEST ANNUAL MEAN					110	1991
HIGHEST DAILY MEAN	399	Aug 29	509	Jul 23	8610	Mar 22 1960
LOWEST DAILY MEAN	54	Jan 3	.10	Sep 30	.07	Sep 27 1978
ANNUAL SEVEN-DAY MINIMUM	56	Jan 1	.18	Sep 24	.11	Sep 21 1978
INSTANTANEOUS PEAK FLOW			607	Jul 23	*11000	Sep 4 1951
INSTANTANEOUS PEAK STAGE			4.96	Jul 23	9.35	Mar 22 1960
ANNUAL RUNOFF (AC-FT)	96340		88860		172000	
10 PERCENT EXCEEDS	290		206		410	
50 PERCENT EXCEEDS	103		102		167	
90 PERCENT EXCEEDS	73		48		75	

e Estimated.
a Since beginning of storage in Harry Strunk Lake (Medicine Creek).
* Stage 7.02 ft.



06844500 REPUBLICAN RIVER NEAR ORLEANS, NE

LOCATION.--Lat 40°07'53", long 099°30'08", in NE ¼ NE ¼ sec.19, T.2 N., R.19 W., Harlan County, Hydrologic Unit 10250009, on right bank 18 ft downstream from bridge on State Highway 89, 200 ft downstream from Burlington Northern Inc. bridge, 2 mi west of Orleans, 2.8 mi upstream from Sappa Creek, 23 mi upstream from Harlan County Dam, and at mile 262.

DRAINAGE AREA.--15,580 mi^2, approximately, of which about 8,880 mi^2 contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1947 to current year.

REVISED RECORDS.--WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,972.57 ft above sea level. Prior to June 2, 1948, nonrecording gage at present site and datum. Data collection platform at station.

REMARKS.--Records good except for period of estimated discharge, which is poor. Natural flow affected by irrigation development above station and regulation by upstream reservoirs.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	101	124	e150	e180	198	211	132	47	127	33	10
2	73	96	126	159	e180	196	211	145	44	135	41	7.4
3	74	99	126	140	e190	214	208	142	42	103	38	4.8
4	77	101	126	e145	e195	228	204	124	43	101	31	2.3
5	77	103	125	e150	e200	233	206	111	39	340	29	1.9
6	78	104	123	e150	e200	224	207	106	39	332	29	1.4
7	78	105	121	e150	e200	218	202	101	35	171	31	.86
8	79	107	125	e170	e190	244	194	98	33	102	28	.68
9	79	107	125	e170	e190	248	191	99	33	65	22	.55
10	76	105	119	e170	e190	244	186	96	26	38	18	.53
11	75	105	123	e170	188	229	183	115	26	22	14	.43
12	76	108	125	e170	188	225	186	103	26	20	11	.21
13	78	109	127	e170	202	222	181	87	23	17	12	.07
14	82	109	131	e170	221	233	157	82	19	15	9.5	.02
15	82	109	136	e170	221	235	147	92	15	11	7.9	.01
16	79	110	138	e175	213	230	145	99	11	11	7.6	.05
17	76	112	137	e180	210	221	141	104	11	9.6	15	.06
18	81	113	129	e180	212	226	140	86	21	14	20	.09
19	84	112	137	e180	202	235	136	75	33	27	24	.09
20	87	110	e125	e175	202	231	130	70	74	39	35	.38
21	90	111	e120	e175	211	226	126	67	77	71	52	.10
22	92	111	e130	e175	207	221	123	62	69	166	58	.11
23	92	114	e135	e175	233	231	122	58	63	117	55	.13
24	94	114	e140	e170	255	245	120	55	57	292	46	.88
25	96	119	e140	e170	253	239	118	52	66	262	40	2.1
26	97	120	e140	e170	230	229	117	50	80	149	28	3.9
27	98	118	e145	e180	213	222	118	50	61	107	30	4.2
28	99	119	e145	e180	203	218	119	57	52	78	36	4.4
29	102	119	e145	e180	202	216	117	61	50	60	30	4.0
30	102	121	e145	e180	---	213	123	54	113	46	20	3.3
31	103	---	e145	e180	---	209	---	49	---	39	13	---
TOTAL	2631	3291	4078	5229	5981	7003	4769	2682	1328	3086.6	864.0	54.95
MEAN	84.9	110	132	169	206	226	159	86.5	44.3	99.6	27.9	1.83
MAX	103	121	145	180	255	248	211	145	113	340	58	10
MIN	73	96	119	140	180	196	117	49	11	9.6	7.6	.01
AC-FT	5220	6530	8090	10370	11860	13890	9460	5320	2630	6120	1710	109

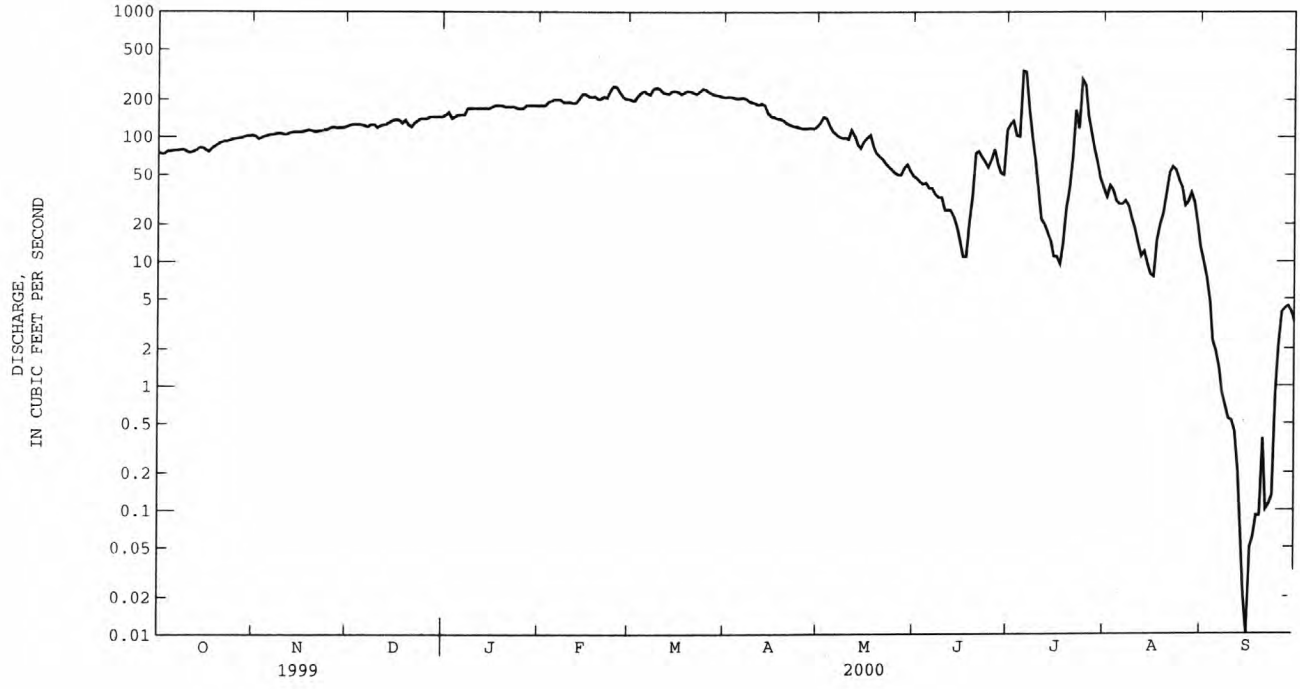
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2000, BY WATER YEAR (WY)

MEAN	130	170	170	170	293	378	327	389	469	261	180	149
MAX	840	519	438	392	772	1720	915	1528	2732	1602	1396	2026
(WY)	1966	1966	1966	1953	1949	1960	1949	1951	1948	1962	1962	1951
MIN	.000	38.5	50.4	24.2	112	144	124	54.8	44.3	10.8	3.51	.007
(WY)	1992	1979	1979	1979	1996	1991	1991	1956	2000	1991	1955	1991

06844500 REPUBLICAN RIVER NEAR ORLEANS, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1948 - 2000	
ANNUAL TOTAL	51772		40997.55			
ANNUAL MEAN	142		112		257	
HIGHEST ANNUAL MEAN					746	1951
LOWEST ANNUAL MEAN					78.4	1991
HIGHEST DAILY MEAN	1180	Aug 12	340	Jul 5	18400	Jun 22 1948
LOWEST DAILY MEAN	30	Jul 31	.01	Sep 15	.00	Sep 15 1952
ANNUAL SEVEN-DAY MINIMUM	38	Jul 26	.06	Sep 13	.00	Sep 15 1952
INSTANTANEOUS PEAK FLOW			*571	Jul 5	40600	Jun 22 1948
INSTANTANEOUS PEAK STAGE			**4.65	Jan 27	**12.95	Mar 8 1993
ANNUAL RUNOFF (AC-FT)	102700		81320		185900	
10 PERCENT EXCEEDS	173		215		477	
50 PERCENT EXCEEDS	130		110		160	
90 PERCENT EXCEEDS	76		11		46	

e Estimated.
* Stage 3.86 ft.
** Backwater from ice.



KANSAS RIVER BASIN

06844500 REPUBLICAN RIVER NEAR ORLEANS, NE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969-94, October 1995 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
FEB											
23...	1500	--	10.7	96	8.1	668	13.0	7.0	16.4	35.7	256
MAY											
01...	1600	139	10.4	--	8.1	811	18.0	14.0	18.3	53.0	292
AUG											
03...	0900	38	9.8	--	8.5	586	24.0	24.0	17.1	30.3	227
SEP											
07...	1330	.81	10.3	130	8.4	807	30.0	23.5	19.9	49.9	287

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3) (71851)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)
FEB											
23...	18.9	.6	40.6	65.7	<.020	--	--	2.24	--	<.010	.242
MAY											
01...	34.2	.7	35.1	99.8	<.020	1.22	5.40	1.23	.033	.010	.251
AUG											
03...	16.4	.6	31.6	57.5	<.020	--	--	<.050	--	<.010	.104
SEP											
07...	28.5	.7	37.6	107	<.020	--	--	<.050	--	<.010	.199

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)
FEB											
23...	.093	.079	3.9	--	--	--	--	--	116	--	--
MAY											
01...	.092	.082	5.0	--	--	--	--	--	151	--	--
AUG											
03...	E.040	.034	1.3	--	--	--	--	--	131	--	--
SEP											
07...	.076	.065	2.2	5	<1	8.6	186	<1	146	<1.0	<.8

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
FEB											
23...	--	--	<10	--	3	--	--	--	--	--	--
MAY											
01...	--	--	<10	--	4	--	--	--	--	--	--
AUG											
03...	--	--	<10	--	5	--	--	--	--	--	--
SEP											
07...	<1	1	<10	<1	624	9	<1	<2.4	<1	7	8

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06846500 BEAVER CREEK AT CEDAR BLUFFS, KS

LOCATION.--Lat 39°59'06", long 100°33'35", in NW1/4 NE1/4 sec.10, T.1 S., R.29 W., Decatur County, Hydrologic Unit 10250014, on right bank at downstream side of bridge on U.S. Highway 83, 0.2 mi north of Cedar Bluffs, 1.0 mi south of Kansas-Nebraska State line, and at mile 107.4.

DRAINAGE AREA.--1,618 mi^2, of which 294 mi^2 is probably noncontributing.

PERIOD OF RECORD.--October 1945 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1510: 1947, 1950-51.

GAGE.--Water-stage recorder. Datum of gage is 2,520.33 ft above sea level. Prior to Aug. 19, 1971, at site 0.1 mi upstream at same datum. Aug. 19, 1971, to July 12, 1972, at site 0.8 mi downstream at datum 5.00 ft lower.

REMARKS.--Records poor. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1944 reached a stage of 18.16 ft, from floodmark.

COOPERATION.--Records provided by U.S. Geological Survey, Kansas District.

PEAK DISCHARGES GREATER THAN BASE FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3s)	Gage height (ft)	Date	Time	Discharge (ft^3s)	Gage height (ft)
May 7	2000	*5	*3.92	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	1.0	2.4	.83	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	1.1	2.3	.85	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	1.3	2.4	.74	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	1.5	2.4	.74	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	1.8	2.2	.66	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	2.4	2.4	.70	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	3.7	2.3	.96	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	4.1	1.9	.87	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	3.5	1.8	.69	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	3.8	1.9	.73	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	3.8	2.0	.76	.00	.00	.00	.00
12	.00	.00	.00	.00	e2.0	3.9	2.5	.98	.00	.00	.00	.00
13	.00	.00	.00	.00	e.80	3.8	2.4	.78	.00	.00	.00	.00
14	.00	.00	.00	.00	e.50	2.9	2.1	.53	.00	.00	.00	.00
15	.00	.00	.00	.00	e.30	2.2	1.8	.38	.00	.00	.00	.00
16	.00	.00	.00	.00	e.20	1.3	1.9	.25	.00	.00	.00	.00
17	.00	.00	.00	.00	e.30	2.6	2.0	.18	.00	.00	.00	.00
18	.00	.00	.00	.00	e.30	2.6	2.0	.13	.00	.00	.00	.00
19	.00	.00	.00	.00	e.40	2.3	1.9	.08	.00	.00	.00	.00
20	.00	.00	.00	.00	e.50	2.3	1.9	.04	.00	.00	.00	.00
21	.00	.00	.00	.00	1.0	2.4	1.6	.02	.00	.00	.00	.00
22	.00	.00	.00	.00	.47	2.1	1.4	.01	.00	.04	.00	.00
23	.00	.00	.00	.00	.44	1.5	1.2	.00	.00	.01	.00	.00
24	.00	.00	.00	.00	.62	1.3	1.3	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	1.8	3.4	1.5	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	1.9	2.8	1.1	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	1.7	2.3	.85	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	2.9	1.7	.66	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	1.4	3.1	.59	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	2.4	.78	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	2.4	---	.00	---	.00	.00	---
MEAN	.000	.000	.000	.000	.60	2.49	1.78	.38	.000	.002	.000	.000
MAX	.00	.00	.00	.00	2.9	4.1	2.5	.98	.00	.04	.00	.00
MIN	.00	.00	.00	.00	.00	1.0	.59	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	35	153	106	24	.00	.1	.00	.00

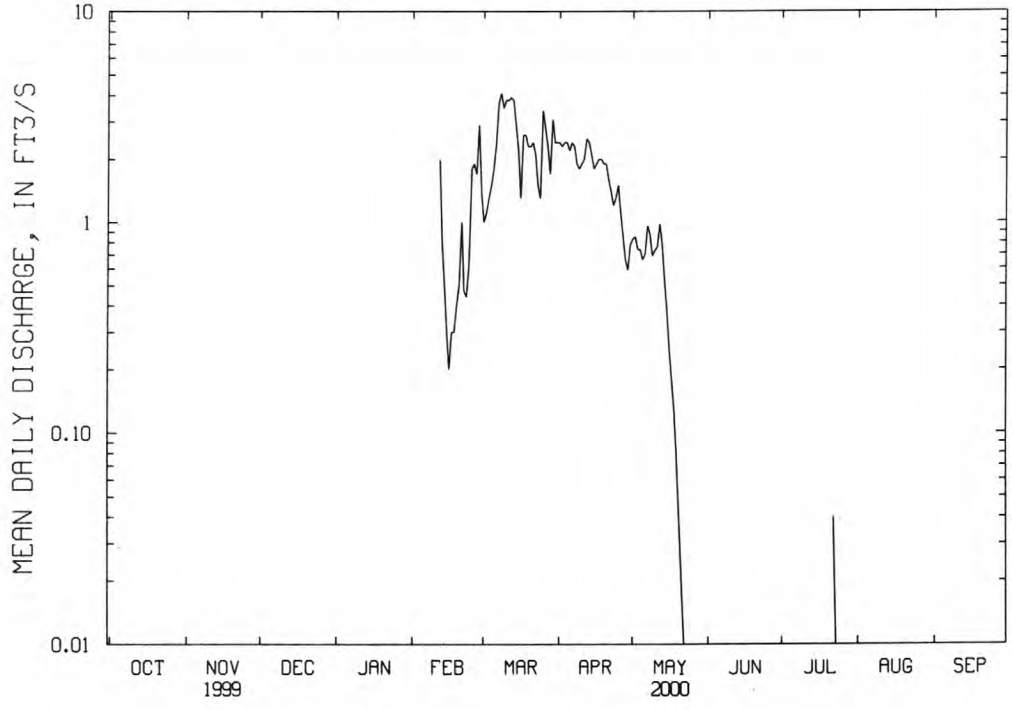
e Estimated

06846500 BEAVER CREEK AT CEDAR BLUFFS, KS--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2000, BY WATER YEAR (WY)

MEAN	8.83	2.91	2.50	2.17	3.83	11.7	7.18	23.4	38.6	29.6	15.5	16.0
MAX	231	39.6	30.4	28.4	28.1	369	61.7	432	278	391	146	421
(WY)	1947	1966	1966	1966	1966	1960	1960	1957	1960	1951	1962	1951
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1954	1955	1955	1955	1956	1955	1955	1955	1979	1980	1955	1953

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1949 - 2000	
ANNUAL MEAN	2.69		.44		13.6	
HIGHEST ANNUAL MEAN					106	1951
LOWEST ANNUAL MEAN					.000	1991
HIGHEST DAILY MEAN	86	Jul 17	4.1	Mar 8	4560	Jun 11 1960
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Sep 3 1946
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Sep 23 1947
INSTANTANEOUS PEAK FLOW			5.0	Mar 7	5.0	Mar 7 0000
INSTANTANEOUS PEAK STAGE			3.92	Mar 7	18.71	Jun 11 1960
INSTANTANEOUS LOW FLOW			.00	Oct 1	.00	most years
ANNUAL RUNOFF (AC-FT)	1950		318		9840	
10 PERCENT EXCEEDS	3.7		2.0		23	
50 PERCENT EXCEEDS	.07		.00		.03	
90 PERCENT EXCEEDS	.00		.00		.00	



—— 06846500 BEAVER C AT CEDAR BLUFFS, KS

06847500 SAPPA CREEK NEAR STAMFORD, NE

LOCATION.--Lat 40°07'53", long 099°33'15", in NW ¼ NW ¼ sec. 23, T.2 N., R.20 W., Harlan County, Hydrologic Unit 10250011, on left bank 40 ft south of Burlington Northern Inc. track, 500 ft downstream from bridge on county highway, 2 mi east of Stamford, and 6.5 mi upstream from mouth.

DRAINAGE AREA.--3,840 mi^2, of which about 3,370 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--October 1945 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1919: 1960. WDR NE-71-1: Calendar year totals. WRD NE-82-1: 1979(M). WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,981.31 ft above sea level. Data collection platform at station.

REMARKS.--Records good except for periods of estimated record, which are poor. Natural flow affected by irrigation development above station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	11	13	e17	e14	23	32	24	4.6	110	3.2	.00
2	2.4	11	15	e16	e14	24	32	25	4.1	127	2.4	.00
3	2.7	11	14	e16	e14	28	31	25	3.8	38	1.8	.00
4	2.6	11	14	e15	e15	28	31	24	3.1	13	.63	.00
5	3.4	12	14	e14	e16	28	31	23	3.1	7.0	1.2	.00
6	3.4	12	e14	e14	e17	28	30	23	2.9	5.0	2.8	.00
7	3.8	11	e14	14	e18	27	30	22	2.6	5.4	1.6	.00
8	4.3	12	e14	e14	e18	33	30	24	2.3	5.9	.78	.00
9	3.5	12	e14	e14	e18	31	30	24	1.6	3.7	.56	.00
10	3.9	12	e14	e15	e17	30	30	22	1.2	1.9	.63	.00
11	4.3	13	e14	e15	e16	30	29	21	.92	.96	.34	.00
12	6.6	12	e14	e15	e15	30	29	19	.66	.41	.26	.00
13	6.2	12	e14	e15	e14	28	29	17	.42	.39	.04	.00
14	5.4	12	e14	e15	e14	29	29	16	.32	.51	.02	.00
15	5.9	11	14	e14	e15	29	28	15	.27	.65	.01	.00
16	8.9	12	e14	e14	e16	29	28	14	.35	.56	.05	.00
17	9.3	12	e14	e14	e17	28	28	14	.31	1.2	.10	.00
18	9.9	12	e14	e15	e18	29	28	12	.27	6.5	.06	.00
19	11	11	e15	e16	e20	30	28	11	2.1	3.1	.11	.00
20	11	11	e15	e17	e22	30	26	11	33	2.8	.06	.03
21	9.3	11	e15	e14	24	29	26	10	17	5.1	.02	.00
22	7.0	11	e15	e15	25	29	23	10	44	4.9	.01	.00
23	8.3	11	e15	e16	32	31	22	10	9.8	152	.00	.00
24	8.9	11	e15	e16	34	34	22	9.4	5.4	202	.00	.00
25	8.9	14	e15	e15	35	33	21	8.6	7.0	104	.00	.00
26	9.0	12	e15	e14	30	33	21	7.7	12	42	.00	.00
27	8.9	12	e15	e14	25	33	20	7.6	11	14	.04	.00
28	11	12	e16	e15	24	33	21	7.6	6.7	6.4	.00	.00
29	10	12	e17	e15	24	32	21	11	22	4.6	.00	.00
30	10	12	e17	e14	---	31	22	6.9	180	4.2	.00	.00
31	11	---	e17	e13	---	31	---	5.4	---	3.1	.00	---
TOTAL	213.2	351	454	460	581	921	808	480.2	382.82	876.28	16.72	0.03
MEAN	6.88	11.7	14.6	14.8	20.0	29.7	26.9	15.5	12.8	28.3	.54	.001
MAX	11	14	17	17	35	34	32	25	180	202	3.2	.03
MIN	2.4	11	13	13	14	23	20	5.4	.27	.39	.00	.00
AC-FT	423	696	901	912	1150	1830	1600	952	759	1740	33	.06

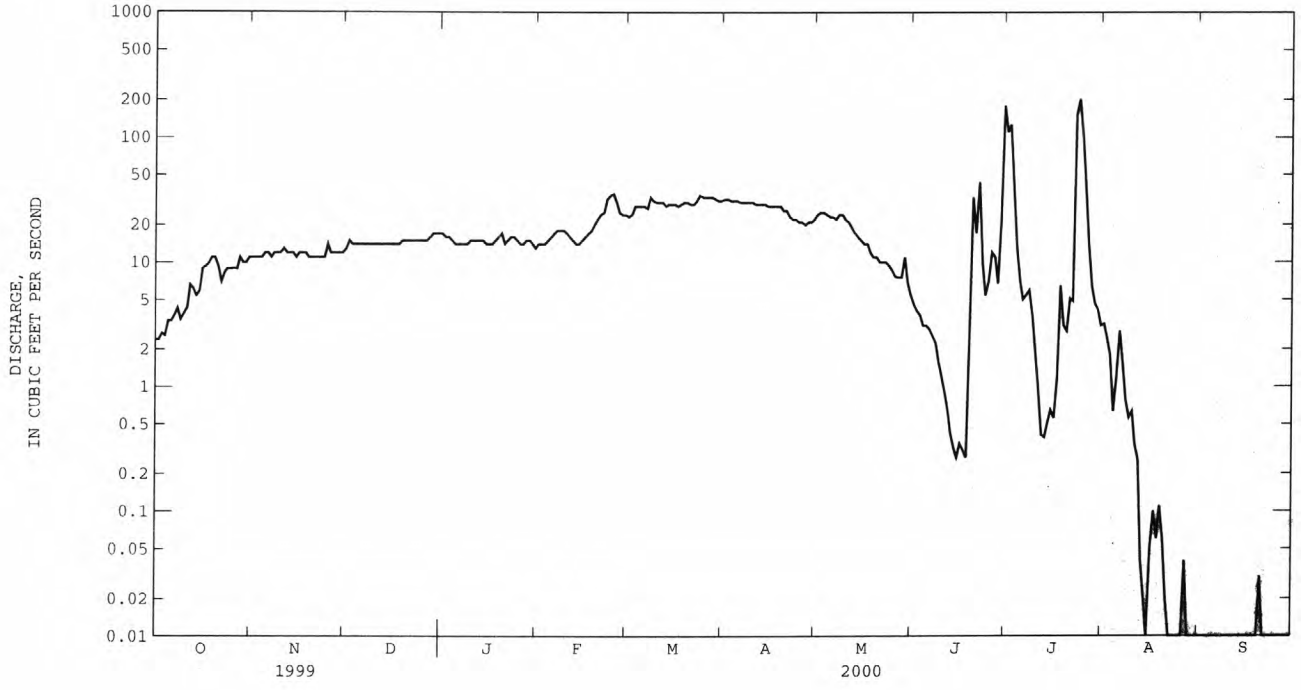
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2000, BY WATER YEAR (WY)

MEAN	40.0	13.1	10.9	9.38	19.4	34.8	24.8	56.9	148	89.9	57.9	40.8
MAX	965	145	96.2	71.5	182	486	164	522	878	891	544	708
(WY)	1947	1947	1966	1966	1966	1960	1960	1949	1947	1951	1950	1951
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1954	1955	1955	1955	1956	1956	1956	1956	1981	1977	1955	1959

06847500 SAPPA CREEK NEAR STAMFORD, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1946 - 2000	
ANNUAL TOTAL	8163.4		5544.25			
ANNUAL MEAN	22.4		15.1		45.7	
MEDIAN OF ANNUAL MEANS					21.4	
HIGHEST ANNUAL MEAN					229	1951
LOWEST ANNUAL MEAN					.59	1981
HIGHEST DAILY MEAN	103	Jul 2	202	Jul 24	16600	Jun 24 1966
LOWEST DAILY MEAN	1.1	Sep 19	.00	Aug 23	.00	Sep 12 1953
ANNUAL SEVEN-DAY MINIMUM	1.4	Sep 16	.00	Aug 28	.00	Sep 12 1953
INSTANTANEOUS PEAK FLOW			384	Jul 23	43400	Jun 24 1966
INSTANTANEOUS PEAK STAGE			8.39	Jul 23	*22.13	Jun 24 1966
ANNUAL RUNOFF (AC-FT)	16190		11000		33070	
10 PERCENT EXCEEDS	43		30		82	
50 PERCENT EXCEEDS	21		13		7.0	
90 PERCENT EXCEEDS	3.9		.00		.00	

e Estimated.
* From floodmark.



06848500 PRAIRIE DOG CREEK NEAR WOODRUFF, KS

LOCATION.--Lat 39°59'09", long 99°28'39", in NW1/4 NW1/4 sec.9, T.1 S., R.19 W., Phillips County, Hydrologic Unit 10250015, on left bank at downstream side of bridge on U.S. Highway 383, 1.0 mi south of Kansas-Nebraska State line, 2.5 mi west of Woodruff, and at mile 26.5.

DRAINAGE AREA.--1,007 mi^2.

PERIOD OF RECORD.--October 1928 to September 1932, October 1944 to current year. Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 2,016.20 ft above sea level. See WSP 1919 for history of changes prior to Oct. 7, 1955.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow regulated to some extent since 1964 by Keith Sebelius Lake (station 06847950), 48.4 mi upstream, and by irrigation development upstream from station. Satellite telemeter at station.

COOPERATION.--Records provided by U.S. Geological Survey, Kansas District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	5.9	8.1	9.4	13	18	11	8.1	4.0	52	3.8	.72
2	7.3	5.6	8.1	9.6	13	16	11	8.2	3.7	30	3.4	.76
3	7.3	6.0	8.1	9.6	13	16	10	8.4	3.7	9.6	3.7	.69
4	7.7	6.3	8.0	12	12	14	9.9	8.1	4.1	5.5	3.5	.64
5	7.4	6.4	8.1	11	14	13	10	7.7	3.8	4.3	3.2	.61
6	7.1	7.0	7.7	10	14	13	9.8	7.3	4.0	4.0	3.1	.59
7	6.9	9.7	8.2	9.5	12	11	9.6	7.2	3.9	3.1	2.9	.60
8	6.7	7.4	8.0	11	14	16	9.3	7.0	3.4	4.5	3.0	.65
9	6.4	7.5	7.4	11	13	17	9.5	7.0	3.6	4.8	3.5	.57
10	5.9	7.4	8.7	11	13	15	9.6	7.4	3.0	4.2	4.6	.52
11	5.7	7.2	8.5	11	15	14	9.2	7.4	3.3	4.9	3.0	.53
12	5.7	7.3	9.1	11	14	13	8.5	7.0	2.8	76	1.7	.54
13	5.6	7.3	8.8	11	15	12	8.4	6.5	2.7	83	1.5	.54
14	5.6	7.5	9.6	11	15	12	8.4	6.1	e1.9	37	1.2	.50
15	5.7	7.3	8.2	11	15	12	8.3	6.2	e2.1	19	1.0	.45
16	5.7	7.3	9.2	12	14	11	8.2	6.1	e2.3	17	1.0	.43
17	5.4	7.4	8.5	11	14	11	8.2	6.3	e1.7	16	.86	.41
18	5.5	7.4	e8.3	11	14	11	8.5	6.2	e1.7	18	3.1	.37
19	5.5	7.3	e8.0	11	15	12	8.6	6.2	e1.8	15	4.2	.33
20	6.4	7.6	e8.0	11	14	12	8.3	6.4	2.7	16	3.2	.44
21	6.4	7.9	e8.2	12	13	12	8.1	6.2	2.7	19	3.3	.45
22	6.3	7.6	8.9	14	12	12	8.0	6.1	3.0	240	2.4	.40
23	6.2	7.6	8.9	13	15	13	7.9	6.0	4.9	426	3.6	.33
24	6.0	7.5	9.0	13	16	14	8.0	5.8	68	53	3.6	.31
25	5.9	7.6	15	12	16	14	7.8	5.5	129	18	2.1	.30
26	5.4	7.9	11	13	15	14	7.9	5.5	41	7.2	2.1	.27
27	5.3	8.0	10	12	16	14	7.6	5.4	12	5.1	1.5	.73
28	5.9	8.1	9.8	12	14	13	6.8	6.4	6.8	4.3	1.1	1.1
29	6.4	7.9	10	13	15	12	7.1	9.2	4.8	3.6	.84	1.1
30	5.8	7.9	9.8	12	---	11	7.7	6.0	49	3.2	.71	.98
31	5.7	---	e9.0	12	---	11	---	4.9	---	3.3	.71	---
MEAN	6.21	7.36	8.91	11.4	14.1	13.2	8.71	6.70	12.7	38.9	2.50	.56
MAX	7.8	9.7	15	14	16	18	11	9.2	129	426	4.6	1.1
MIN	5.3	5.6	7.4	9.4	12	11	6.8	4.9	1.7	3.1	.71	.27
AC-FT	382	438	548	700	809	811	518	412	757	2390	154	33

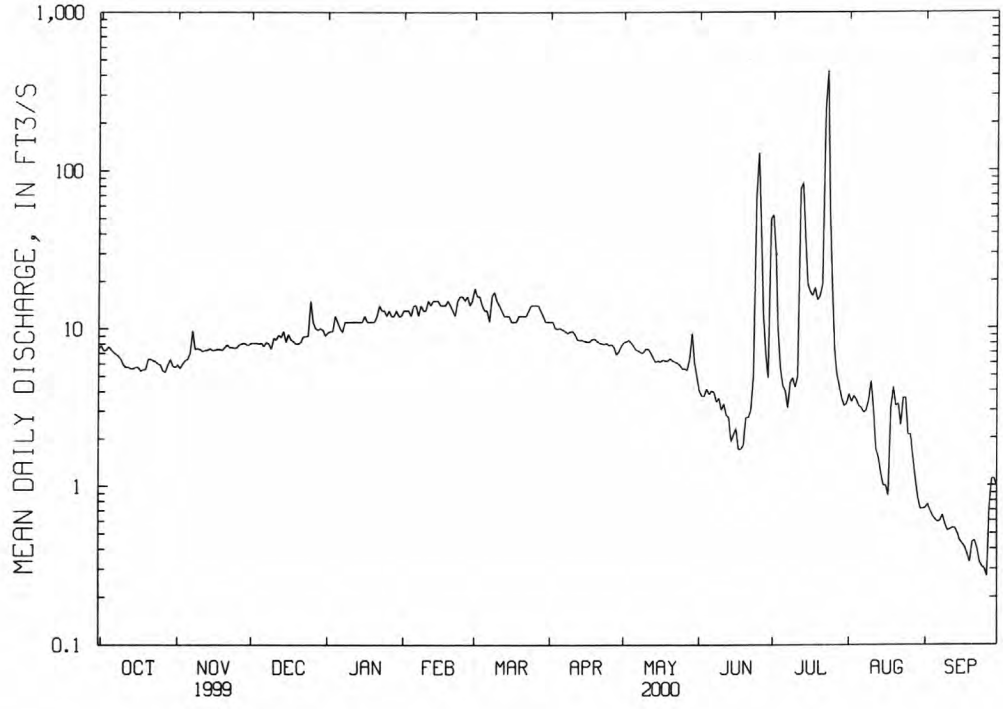
e Estimated

06848500 PRAIRIE DOG CREEK NEAR WOODRUFF, KS--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2000, BY WATER YEAR (WY)

MEAN	19.6	6.58	5.42	5.42	16.1	17.5	10.2	43.5	88.2	62.7	35.2	23.4
MAX	429	56.5	26.0	22.5	230	240	36.6	422	1041	1070	430	402
(WY)	1947	1931	1947	1931	1932	1960	1952	1949	1947	1951	1950	1951
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1955	1956	1956	1956	1957	1957	1985	1992	1984	1984	1959	1960

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1949 - 2000	
ANNUAL MEAN	15.2		11.0		27.1	
HIGHEST ANNUAL MEAN					208	1951
LOWEST ANNUAL MEAN					.051	1991
HIGHEST DAILY MEAN	224	May 23	426	Jul 23	9700	Jun 23 1947
LOWEST DAILY MEAN	4.8	Sep 21	.27	Sep 26	.00	Oct 29 1945
ANNUAL SEVEN-DAY MINIMUM	5.6	Oct 13	.36	Sep 20	.00	Oct 5 1948
INSTANTANEOUS PEAK FLOW			680	Jul 23	15000	Jun 23 1947
INSTANTANEOUS PEAK STAGE			12.53	Jul 23	21.04	Jun 23 1947
INSTANTANEOUS LOW FLOW			.23	Sep 27	.00	most years
ANNUAL RUNOFF (AC-FT)	11030		7960		19650	
10 PERCENT EXCEEDS	20		15		28	
50 PERCENT EXCEEDS	12		7.7		4.3	
90 PERCENT EXCEEDS	6.4		1.1		.00	



—— 06848500 PRAIRIE DOG C NR WOODRUFF, KS

06849500 REPUBLICAN RIVER BELOW HARLAN COUNTY DAM, NE

LOCATION.--Lat 40°04'45", long 099°10'05", in SW ¼ sec.6, T.1 N., R.16 W., Franklin County, Hydrologic Unit 10250016, on left bank 1.4 mi west of Naponee, 1.4 mi upstream from Turkey Creek, 2.8 mi downstream from Harlan County Dam, and at mile 234.

DRAINAGE AREA.--20,820 mi^2 , of which about 13,590 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--December 1952 to current year.

REVISED RECORDS.--WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,863.38 ft above sea level (Corps of Engineers bench mark). Data collection platform at station.

REMARKS.--Records good except for estimated discharges and discharges less than 5.0 ft^3/s, which are poor. Flow completely regulated by Harlan County Lake (station 06849000) and partially regulated by six upstream reservoirs.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

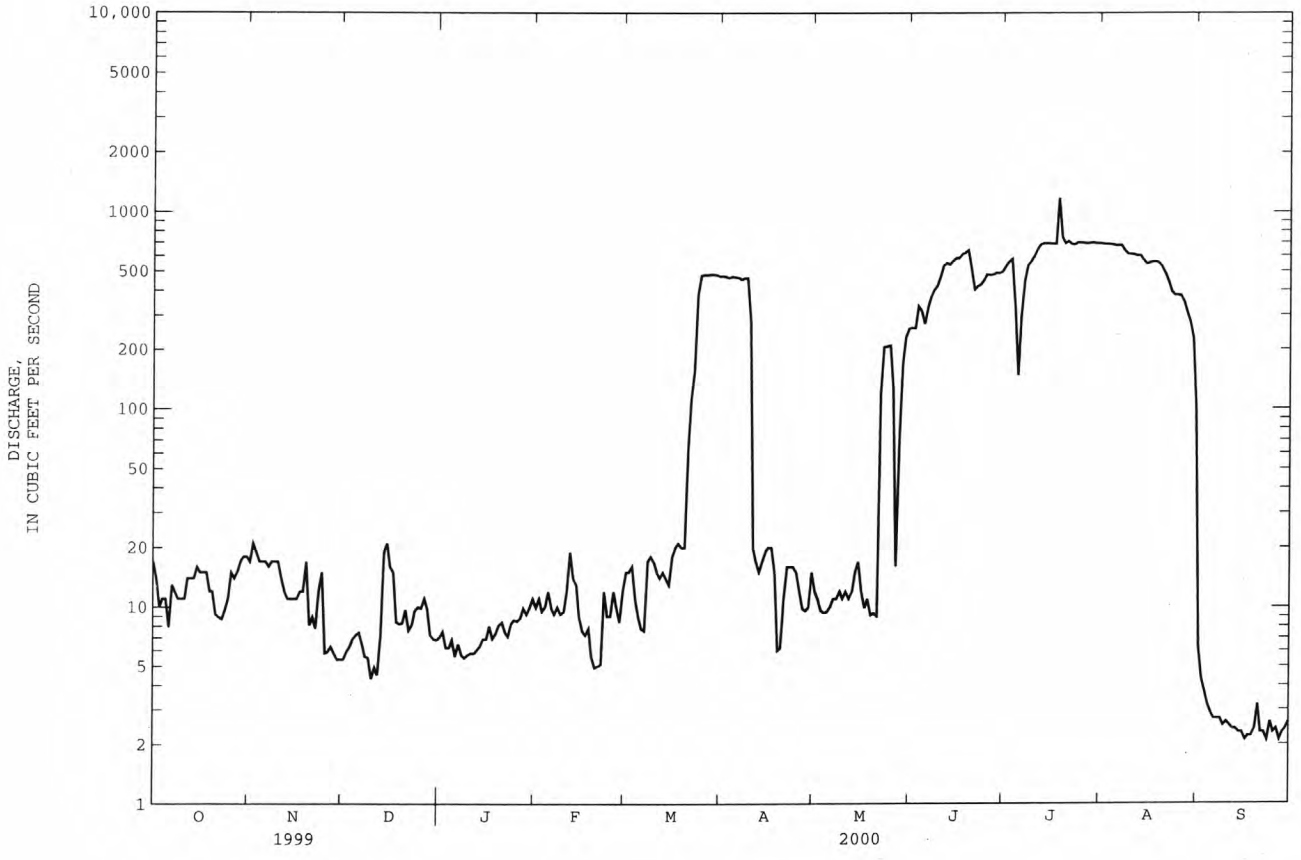
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	17	5.4	7.0	10	15	474	12	258	530	687	6.3
2	14	21	5.9	7.5	11	15	470	11	257	557	686	4.3
3	10	19	6.3	6.2	9.5	16	463	9.6	332	575	684	3.7
4	11	17	6.9	6.2	10	11	470	9.4	314	327	679	3.2
5	11	17	7.2	6.8	12	8.9	469	9.5	270	147	674	2.9
6	7.9	17	7.4	5.6	9.9	7.8	465	10	328	293	675	2.7
7	13	16	6.5	6.5	9.2	7.6	455	11	368	442	674	2.7
8	12	17	5.6	5.7	10	17	461	11	401	533	635	2.7
9	11	17	5.5	5.5	9.2	18	464	12	421	559	610	2.5
10	11	17	4.3	5.7	9.5	17	280	11	470	588	608	2.6
11	11	14	4.9	5.8	12	15	20	12	532	639	606	2.5
12	14	12	4.5	5.8	19	14	17	11	548	677	600	2.4
13	14	11	7.1	6.0	14	15	15	12	540	691	599	2.4
14	14	11	19	6.3	13	14	17	15	564	690	567	2.3
15	16	11	21	6.9	8.9	13	19	17	581	689	544	2.3
16	15	11	16	6.9	7.6	18	20	12	582	687	550	2.1
17	15	12	15	8.0	7.2	20	20	9.9	609	687	556	2.2
18	15	12	8.4	6.9	7.8	21	15	11	619	1170	555	2.2
19	12	17	8.2	7.3	5.6	20	6.0	9.1	635	744	547	2.4
20	12	8.1	8.3	8.1	4.9	20	6.2	9.3	513	691	523	3.2
21	9.2	8.9	9.7	8.4	5.0	63	11	9.0	404	706	486	2.3
22	8.9	7.8	7.6	7.5	5.1	112	16	118	420	684	442	2.3
23	8.7	12	8.1	7.1	12	156	16	206	426	679	396	2.1
24	9.6	15	9.6	8.2	9.0	383	16	207	448	696	378	2.6
25	11	5.8	10	8.6	9.0	478	15	209	481	696	378	2.3
26	15	5.9	9.9	8.5	12	481	12	129	478	694	376	2.4
27	14	6.3	11	8.8	10	481	9.8	16	481	691	352	2.1
28	15	5.8	9.8	9.9	8.4	483	9.6	70	489	693	309	2.3
29	17	5.4	7.2	9.2	12	483	10	170	488	695	275	2.4
30	18	5.4	6.9	9.9	---	480	15	230	498	690	228	2.6
31	18	---	6.8	11	---	472	---	254	---	690	103	---
TOTAL	400.3	372.4	270.0	227.8	282.8	4375.3	4756.6	1842.8	13755	19530	15982	81.0
MEAN	12.9	12.4	8.71	7.35	9.75	141	159	59.4	458	630	516	2.70
MAX	18	21	21	11	19	483	474	254	635	1170	687	6.3
MIN	7.9	5.4	4.3	5.5	4.9	7.6	6.0	9.0	257	147	103	2.1
AC-FT	794	739	536	452	561	8680	9430	3660	27280	38740	31700	161

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2000, BY WATER YEAR (WY)

MEAN	124	75.2	60.9	54.8	116	129	203	207	382	726	430	131
MAX	2044	985	571	535	680	941	2400	2069	1763	2761	1726	1260
(WY)	1966	1994	1994	1966	1966	1963	1960	1960	1962	1962	1962	1996
MIN	3.79	2.50	2.40	2.30	2.15	2.88	2.63	2.70	14.4	70.3	91.0	2.70
(WY)	1990	1992	1977	1991	1977	1991	1992	1992	1993	1993	1981	2000

06849500 REPUBLICAN RIVER BELOW HARLAN COUNTY DAM, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1953 - 2000	
ANNUAL TOTAL	40721.7		61876.0			
ANNUAL MEAN	112		169		223	
HIGHEST ANNUAL MEAN					690	1966
LOWEST ANNUAL MEAN					37.4	1992
HIGHEST DAILY MEAN	763	Jul 9	1170	Jul 18	4210	Nov 2 1965
LOWEST DAILY MEAN	4.3	Dec 10	2.1	Sep 16	.29	Jun 3 1996
ANNUAL SEVEN-DAY MINIMUM	5.3	Jan 1	2.3	Sep 12	.38	Jun 1 1996
INSTANTANEOUS PEAK FLOW			2260	Jul 18	4320	Jun 25 1957
INSTANTANEOUS PEAK STAGE			5.04	Jul 18	8.65	Jun 25 1957
ANNUAL RUNOFF (AC-FT)	80770		122700		161500	
10 PERCENT EXCEEDS	451		599		650	
50 PERCENT EXCEEDS	14		14		15	
90 PERCENT EXCEEDS	6.4		5.4		4.5	



06852500 COURTLAND CANAL AT NEBRASKA-KANSAS STATE LINE

LOCATION.--Lat 40°00'15", long 098°07'55", in SW $^{1}/_{4}$ SE $^{1}/_{4}$ sec.32, T.1 N., R.7 W., Nuckolls County, Nebraska, Hydrologic Unit 10250016, on left bank 0.2 mi upstream from Nebraska-Kansas State line and 3.5 mi southwest of Superior, NE.

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

GAGE.--Water-stage recorder and concrete Parshall flume. Datum of gage is 1,612.46 ft above sea level. Data collection platform at station.

REMARKS.--Records good. Canal diverts from Republican River at Courtland diversion dam in sec.7, T.1 N., R.9 W. Water is used for irrigation in Nebraska and Kansas; figures published herein represent that portion which flows into Kansas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	.00	.00	.00	.00	124	395	.00	139	378	518	132
2	14	.00	.00	.00	.00	138	396	.00	151	395	513	120
3	12	.00	.00	.00	.00	140	396	.02	162	411	512	113
4	12	.00	.00	.00	.00	144	379	35	164	437	511	100
5	7.7	.00	.00	.00	.00	139	335	45	193	415	511	89
6	.00	.00	.00	.00	.00	131	282	46	182	431	514	86
7	.00	.00	.00	.00	.00	123	231	47	184	433	517	100
8	.00	.00	.00	.00	.00	134	196	52	230	437	504	130
9	.00	.00	.00	.00	.00	144	195	47	245	435	463	109
10	.00	.00	.00	.00	.00	140	183	36	242	449	416	66
11	.00	.00	.00	.00	.00	130	139	66	247	435	409	61
12	.00	.00	.00	.00	.00	129	85	74	299	429	412	56
13	.00	.00	.00	.00	.00	125	40	68	322	435	413	54
14	.00	.00	.00	.00	.00	130	e6.0	69	335	432	418	53
15	.00	.00	.00	.00	.00	143	.00	69	334	427	411	51
16	.00	.00	.00	.00	.00	135	.00	65	350	428	379	50
17	.00	.00	.00	.00	.00	123	.00	62	368	432	362	49
18	.00	.00	.00	.00	.00	126	.00	62	374	440	369	46
19	.00	.00	.00	.00	.00	135	.00	62	406	455	380	43
20	.00	.00	.00	.00	.00	136	.00	62	431	467	387	52
21	.00	.00	.00	.00	.00	130	.00	62	397	513	391	60
22	.00	.00	.00	.00	.00	127	.00	61	377	530	375	62
23	.00	.00	.00	.00	.00	144	.00	60	359	528	339	60
24	.00	.00	.00	.00	8.8	234	.00	83	352	523	295	57
25	.00	.00	.00	.00	132	264	.00	155	357	515	281	57
26	.00	.00	.00	.00	126	292	.00	192	378	515	288	63
27	.00	.00	.00	.00	112	329	.00	139	373	519	295	63
28	.00	.00	.00	.00	111	397	.00	102	371	522	281	62
29	.00	.00	.00	.00	114	415	.00	99	370	528	245	59
30	.00	.00	.00	.00	---	404	.00	94	368	530	205	56
31	.00	---	.00	.00	---	394	---	101	---	524	168	---
TOTAL	84.70	0.00	0.00	0.00	603.80	5799	3258.00	2115.02	9060	14348	12082	2159
MEAN	2.73	.000	.000	.000	20.8	187	109	68.2	302	463	390	72.0
MAX	39	.00	.00	.00	132	415	396	192	431	530	518	132
MIN	.00	.00	.00	.00	.00	123	.00	.00	139	378	168	43
AC-FT	168	.00	.00	.00	1200	11500	6460	4200	17970	28460	23960	4280

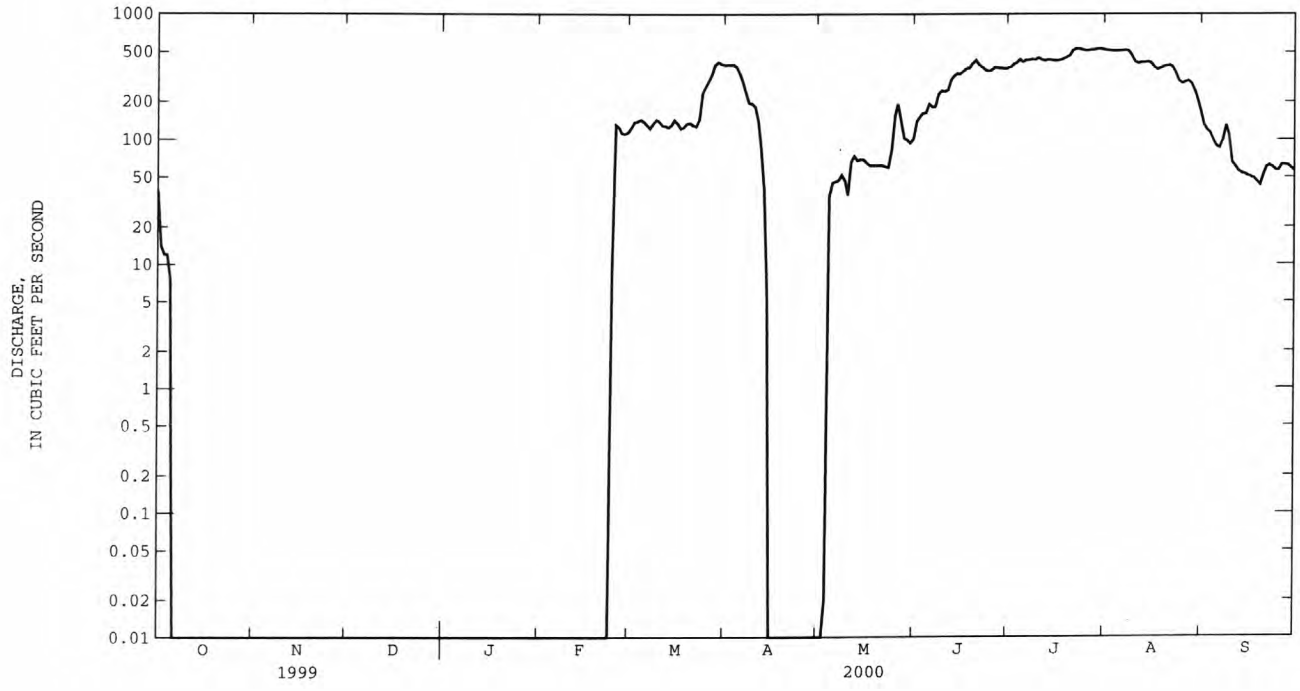
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2000, BY WATER YEAR (WY)

MEAN	28.0	9.46	2.63	3.24	3.83	10.1	13.3	52.2	116	351	281	64.7
MAX	464	212	73.6	84.4	82.9	187	109	237	362	627	570	205
(WY)	1958	1967	1992	1992	1992	2000	2000	1958	1988	1976	1976	1995
MIN	.000	.000	.000	.000	.000	.000	.000	.000	21.2	44.4	80.3	.000
(WY)	1955	1955	1955	1955	1955	1955	1955	1957	1957	1955	1992	1977

06852500 COURTLAND CANAL AT NEBRASKA-KANSAS STATE LINE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1955 - 2000	
ANNUAL TOTAL	26733.30		49509.52			
ANNUAL MEAN	73.2		135		78.9	
HIGHEST ANNUAL MEAN					138	1976
LOWEST ANNUAL MEAN					19.5	1955
HIGHEST DAILY MEAN	433	Jul 11	530	Jul 22	731	Oct 22 1957
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 6	*.00	Oct 1 1954
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 6	.00	Oct 1 1954
INSTANTANEOUS PEAK FLOW			536	Jul 22	781	Sep 2 1973
INSTANTANEOUS PEAK STAGE			4.03	Jul 22	5.05	Sep 2 1973
ANNUAL RUNOFF (AC-FT)	53030		98200		57140	
10 PERCENT EXCEEDS	279		427		294	
50 PERCENT EXCEEDS	.00		55		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated.
* No flow for many days each year.



06853020 REPUBLICAN RIVER AT GUIDE ROCK, NE

LOCATION.--Lat 40°03'49", long 98°19'53", in NE ¼ SE ¼ sec.9, T.1 N., R.9 W., Webster County, Hydrologic Unit 10250016, on left downstream bank at Nebraska State Highway 78 bridge, 0.2 mi downstream from Minnie Creek and 0.5 mi south of Guide Rock. Station is 3.1 river miles downstream from station 06853000, Republican River near Guide Rock, previous site, and at mile 176.

DRAINAGE AREA.--22,100 mi^2, approximately, of which about 14,610 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--August 1950 to current year. August 1950 to September 1984 published as Republican River near Guide Rock (06853000).

REVISED RECORDS.--WDR NE-97-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,616.15 ft above sea level, levels by U.S. Corps of Engineers. Prior to Oct. 1, 1959, at datum 12.98 ft higher, and Oct. 1, 1959 to Nov. 28, 1984, at datum 7.98 ft higher, both at site 3.1 miles upstream. Data collection platform at station

REMARKS.--Records good except for periods of estimated record, which are poor. Natural flow affected by irrigation development above station, by regulation of upstream reservoirs, and since Nov. 14, 1952, by storage in Harlan County Lake (station 06849000).

COOPERATION.--Records provided by Nebraska Department of Natural Resources and reviewed by the Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	68	108	e114	e84	22	165	131	22	68	56	85
2	31	90	109	e108	88	22	192	127	28	61	44	58
3	33	77	111	e90	95	21	191	85	21	58	49	12
4	48	81	109	e66	89	e20	215	44	38	2510	59	2.5
5	39	86	106	e72	73	e18	270	40	134	4800	73	1.4
6	39	87	103	e72	85	e16	294	38	44	2260	74	1.4
7	40	90	106	e78	86	e14	329	38	35	492	66	1.4
8	44	93	109	e78	79	e12	402	37	35	201	54	1.4
9	47	83	109	e84	78	e11	404	36	21	102	55	1.4
10	50	110	104	e92	75	e10	432	31	28	57	42	1.4
11	50	82	107	e96	73	e10	468	28	21	31	43	1.4
12	53	97	110	e100	76	e9.0	273	24	30	28	41	1.4
13	54	98	108	e104	90	e8.6	210	19	30	27	53	1.4
14	57	98	113	e108	111	e8.6	200	16	27	29	71	1.4
15	60	113	112	e112	126	9.0	177	17	23	30	60	1.4
16	61	99	e112	e114	129	10	182	20	31	27	35	1.4
17	60	101	e112	112	127	12	173	21	27	57	37	1.5
18	e60	103	e112	116	122	17	165	20	37	115	48	1.5
19	e40	99	e106	114	120	18	158	18	41	634	84	1.5
20	e28	98	e100	e107	118	20	150	18	476	778	131	1.6
21	88	102	e84	e92	120	21	142	16	483	191	133	1.5
22	78	e110	e86	e96	124	21	136	14	151	138	136	1.5
23	75	e108	e96	e98	120	29	133	11	114	127	121	1.5
24	76	e110	e110	e98	99	27	136	8.7	83	82	90	1.5
25	82	e108	e116	e94	35	48	133	19	76	88	65	1.5
26	81	e106	e118	e90	28	180	134	214	304	103	57	1.5
27	68	e104	e118	e84	27	164	129	129	209	78	66	1.5
28	89	e102	119	e80	27	116	121	60	103	66	76	1.5
29	78	e102	121	e78	24	119	115	25	70	71	67	1.4
30	80	e104	119	e76	---	137	124	15	69	70	59	1.3
31	79	---	115	e78	---	144	---	15	---	69	55	---
TOTAL	1788	2909	3368	2901	2528	1294.2	6353	1334.7	2811	13448	2100	195.1
MEAN	57.7	97.0	109	93.6	87.2	41.7	212	43.1	93.7	434	67.7	6.50
MAX	89	113	121	116	129	180	468	214	483	4800	136	85
MIN	20	68	84	66	24	8.6	115	8.7	21	27	35	1.3
AC-FT	3550	5770	6680	5750	5010	2570	12600	2650	5580	26670	4170	387

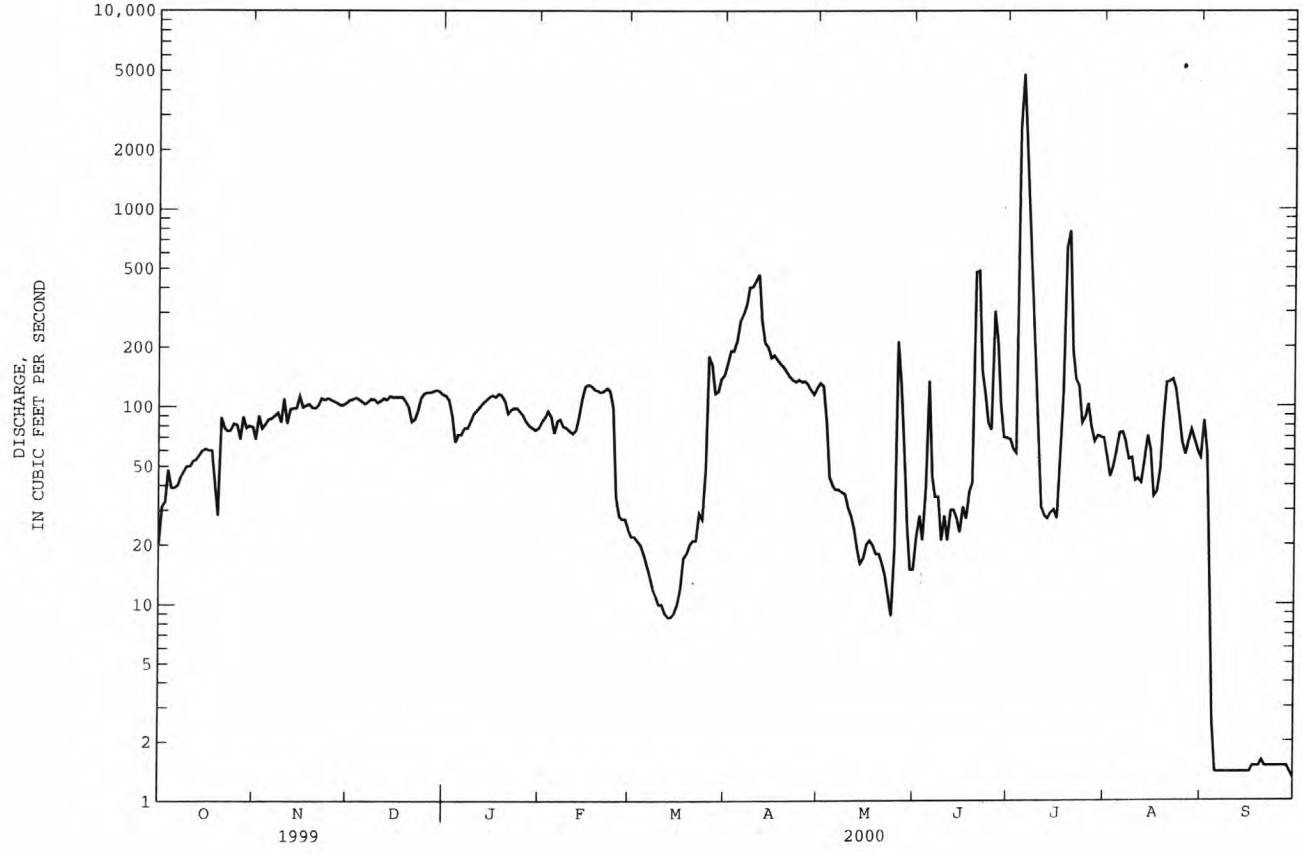
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2000, BY WATER YEAR (WY)

MEAN	208	187	162	155	251	311	369	412	479	521	244	282
MAX	2073	1245	819	588	948	1077	2484	2511	3619	4298	1712	3602
(WY)	1966	1994	1994	1952	1952	1952	1960	1960	1951	1951	1962	1951
MIN	1.19	2.41	3.13	4.11	3.86	22.5	6.86	7.04	11.5	23.3	33.8	1.97
(WY)	1992	1992	1992	1992	1992	1992	1992	1989	1992	1970	1971	1991

06853020 REPUBLICAN RIVER AT GUIDE ROCK, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1950 - 2000	
ANNUAL TOTAL	54574.9		41030.0			
ANNUAL MEAN	150		112		298	
HIGHEST ANNUAL MEAN					1495	1951
LOWEST ANNUAL MEAN					52.1	1991
HIGHEST DAILY MEAN	3610	May 21	4800	Jul 5	20900	Jun 16 1957
LOWEST DAILY MEAN	1.8	Sep 29	1.3	Sep 30	.10	May 26 1964
ANNUAL SEVEN-DAY MINIMUM	2.5	Sep 24	1.4	Sep 5	.62	Oct 25 1976
INSTANTANEOUS PEAK FLOW			5700	Jul 5	29200	Jun 16 1957
INSTANTANEOUS PEAK STAGE			12.40	Jul 5	*20.73	Jun 16 1957
ANNUAL RUNOFF (AC-FT)	108200		81380		215600	
10 PERCENT EXCEEDS	223		146		683	
50 PERCENT EXCEEDS	118		78		119	
90 PERCENT EXCEEDS	29		11		23	

e Estimated.
* Site and datum then in use.



06853500 REPUBLICAN RIVER NEAR HARDY, NE

LOCATION.--Lat 39°59'33", long 97°55'53", in NE1/4 NE1/4 SE1/4 sec.1, T.1 S., R.6 W., in Kansas, Republic County, Hydrologic Unit 10250016, on right bank at upstream side of county highway bridge, 1.2 mi southwest of Hardy, NE, and at mile 141.2.

DRAINAGE AREA.--22,401 mi^2, of which about 7,500 mi^2 does not contribute directly to surface runoff.

PERIOD OF RECORD.--June 1904 to September 1915 (no winter records), April 1931 to current year. Prior to May 1932, published as "at Bostwick." Records for June 1896 to November 1903 published as "near Superior" in 18th to 22nd Ann. Repts., inclusive, Pt. 4, and WSP 75, 84, and 99, have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 806: Drainage area. WSP 1006: 1941. WSP 1340: 1905(M), 1907-09, 1912, 1914-15, 1931. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 1,501.46 ft above sea level. Prior to May 19, 1932, nonrecording gage at site at Bostwick, 20 mi upstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Natural flow affected by irrigation development upstream from station and by storage in reservoirs in Colorado, Kansas, and Nebraska. Considerable regulation since 1952 by Harlan County Lake (station 06849000). Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stages since at least 1895, that of June 2, 1935, and 17.00 ft June 24, 1947, discharge, 100,000 ft^3/s, based on records for upstream stations.

COOPERATION.--Records provided by U.S. Geological Survey, Kansas District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	113	135	144	159	61	169	187	67	113	95	105
2	38	105	136	145	136	61	174	195	78	105	86	129
3	74	119	143	144	174	66	194	186	64	97	81	122
4	82	114	143	134	171	63	199	149	70	1100	88	73
5	92	115	139	e120	145	58	224	96	81	3890	90	48
6	92	116	136	e130	175	55	285	85	166	3550	100	40
7	91	116	136	e135	175	54	319	83	99	1290	106	35
8	92	116	139	e150	154	60	364	79	69	591	95	34
9	94	117	140	e165	149	60	431	77	65	360	84	32
10	92	110	137	169	148	57	436	73	51	253	72	30
11	91	121	135	144	148	55	461	72	56	202	61	28
12	91	108	137	142	138	54	478	64	55	154	64	27
13	91	114	138	156	144	54	296	58	69	130	63	26
14	91	116	138	149	148	56	235	55	66	113	72	25
15	93	117	140	166	158	58	225	52	65	103	90	25
16	94	126	139	165	158	55	218	51	58	100	82	25
17	94	120	143	151	155	54	214	55	57	101	52	24
18	95	120	147	147	157	56	212	55	62	130	51	23
19	97	122	148	146	153	59	201	55	67	214	72	22
20	98	121	145	144	150	57	190	52	114	759	102	28
21	96	120	e115	138	149	53	181	53	481	637	151	27
22	111	124	e115	141	152	53	176	50	452	343	149	26
23	107	140	e125	145	158	63	174	47	219	246	147	25
24	106	142	e140	143	157	73	169	43	167	221	130	26
25	107	137	e155	140	158	66	170	37	132	151	111	28
26	107	133	175	148	84	62	169	58	121	140	96	27
27	111	134	162	141	71	180	170	300	303	140	89	25
28	102	135	150	149	65	189	168	230	273	115	90	25
29	115	135	147	155	62	147	163	145	170	106	105	24
30	112	135	148	166	---	149	167	84	128	117	100	23
31	112	---	146	169	---	160	---	58	---	105	106	---
MEAN	93.6	122	141	148	143	75.7	241	93.0	131	506	92.9	38.6
MAX	115	142	175	169	175	189	478	300	481	3890	151	129
MIN	33	105	115	120	62	53	163	37	51	97	51	22
AC-FT	5750	7260	8670	9090	8230	4660	14340	5720	7790	31090	5710	2290

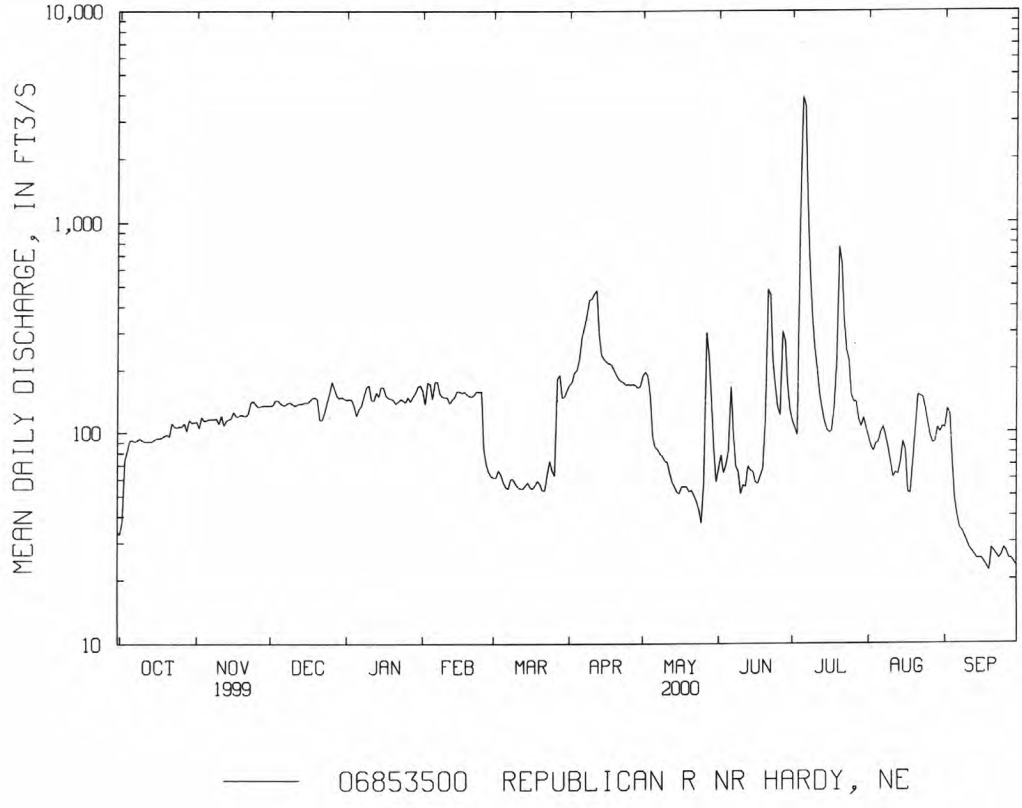
e Estimated

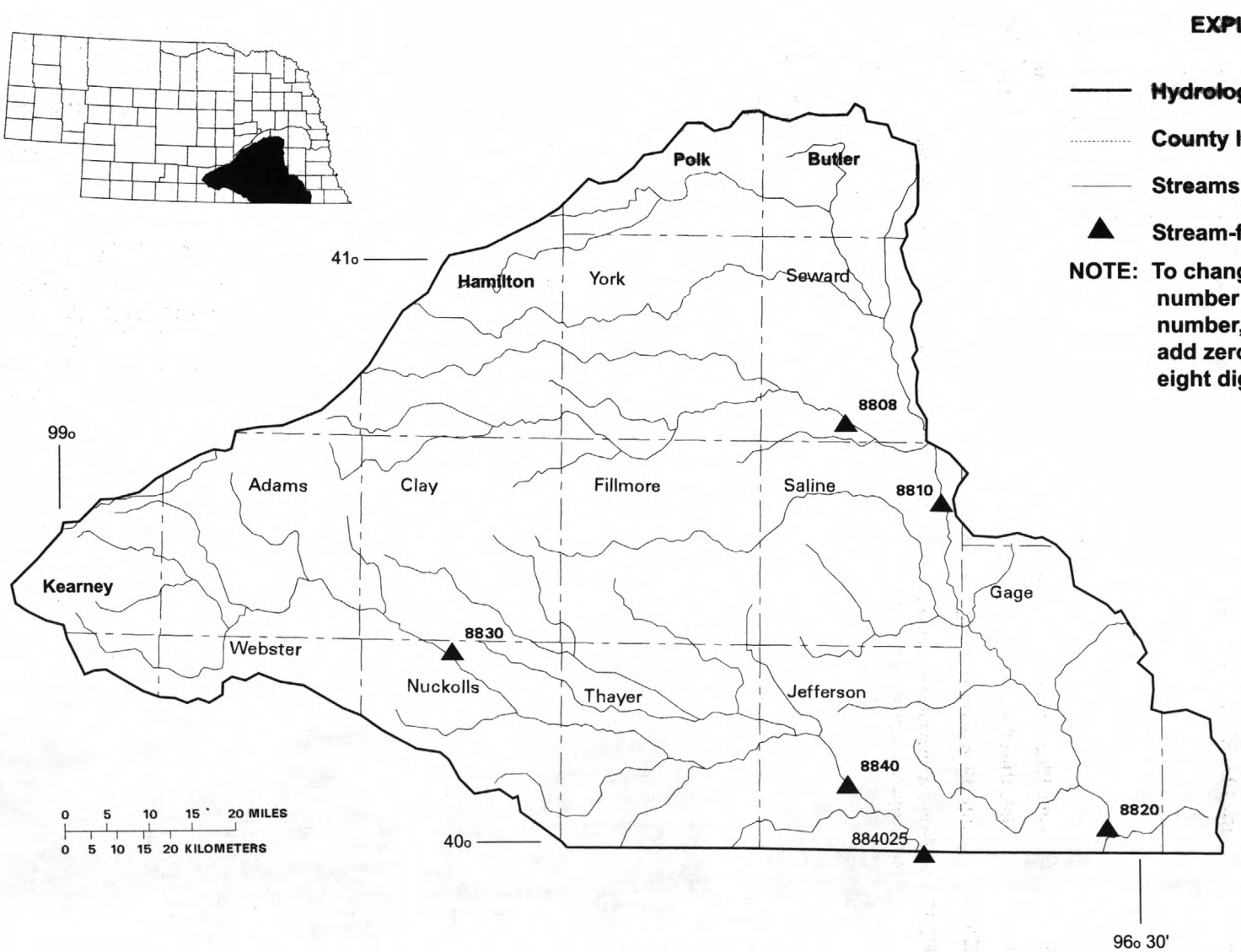
06853500 REPUBLICAN RIVER NEAR HARDY, NE--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2000, BY WATER YEAR (WY)

MEAN	284	234	203	193	304	418	451	485	498	526	320	323
MAX	1970	1308	928	636	968	1584	2415	2523	2031	3210	1800	1455
(WY)	1966	1994	1994	1966	1966	1993	1960	1960	1960	1993	1962	1973
MIN	17.2	22.3	26.2	33.7	27.0	66.5	39.1	29.6	46.5	54.3	58.7	15.3
(WY)	1992	1992	1992	1992	1992	1991	1991	1992	1992	1991	1991	1991

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1958 - 2000	
ANNUAL MEAN	223		152		353	
HIGHEST ANNUAL MEAN					800	1960
LOWEST ANNUAL MEAN					72.5	1991
HIGHEST DAILY MEAN	2980	May 22	3890	Jul 5	15000	Oct 1 1983
LOWEST DAILY MEAN	33	Sep 26	22	Sep 19	4.8	Aug 3 1991
ANNUAL SEVEN-DAY MINIMUM	34	Sep 25	24	Sep 13	9.0	Jun 26 1992
INSTANTANEOUS PEAK FLOW			4150	Jul 6	225000	Jun 2 1935
INSTANTANEOUS PEAK STAGE			9.08	Jul 6	19.40	Jun 2 1935
INSTANTANEOUS LOW FLOW			22	Sep 18	.00	Aug 9 1934
ANNUAL RUNOFF (AC-FT)	161700		110600		255900	
10 PERCENT EXCEEDS	338		200		789	
50 PERCENT EXCEEDS	175		117		171	
90 PERCENT EXCEEDS	91		52		66	




EXPLANATION
Hydrologic boundary
County line
Streams
Stream-flow gaging station
NOTE: To change abbreviated station number to complete station number, prefix with "06" and add zero's required to give eight digits.
Polk
Butler
Hamilton
York
Seward
41o
99o
8808
Adams
Clay
Fillmore
Saline
8810
Kearney
Gage
8830
Webster
Nuckolls
Thayer
Jefferson
8840
8820
884025
40o
0 5 10 15 20 MILES
0 5 10 15 20 KILOMETERS
96o 30'

*Station number	Station name	Page
	BIG BLUE RIVER BASIN	
8808	W.F. Big Blue River near Dorchester	284
8810	Big Blue River near Crete	286
8820	Big Blue River at Barneston	288
	LITTLE BLUE RIVER BASIN	
8830	Little Blue River near Deweese	290
8840	Little Blue River near Fairbury	292
884025	Little Blue River at Hollenberg, KS	294

*NOTE: To change abbreviated station number to complete station number, prefix with "06" and add zeros required to give eight digits.

KANSAS RIVER BASIN

06880800 WEST FORK BIG BLUE RIVER NEAR DORCHESTER, NE

LOCATION.--Lat 40°43'52", long 097°10'38", in SW ¼ SW ¼ sec.23, T.9 N., R.2 E., Seward County, Hydrologic Unit 10270203, on right bank 60 ft downstream from bridge on county road, 6.2 mi northwest of Dorchester, and 22.8 mi upstream from mouth.

DRAINAGE AREA.--1,192 mi^2.

PERIOD OF RECORD.--August 1958 to current year.

REVISED RECORDS.--WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,403.48 ft above sea level. Prior to Apr. 14, 1970, on bridge pier 60 ft upstream at same datum. Data collection platform at station.

REMARKS.--Records fair except for periods of estimated record, which are poor. Some diversion by pumping for irrigation above station. Natural flow of stream affected by ground-water withdrawals for irrigation and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

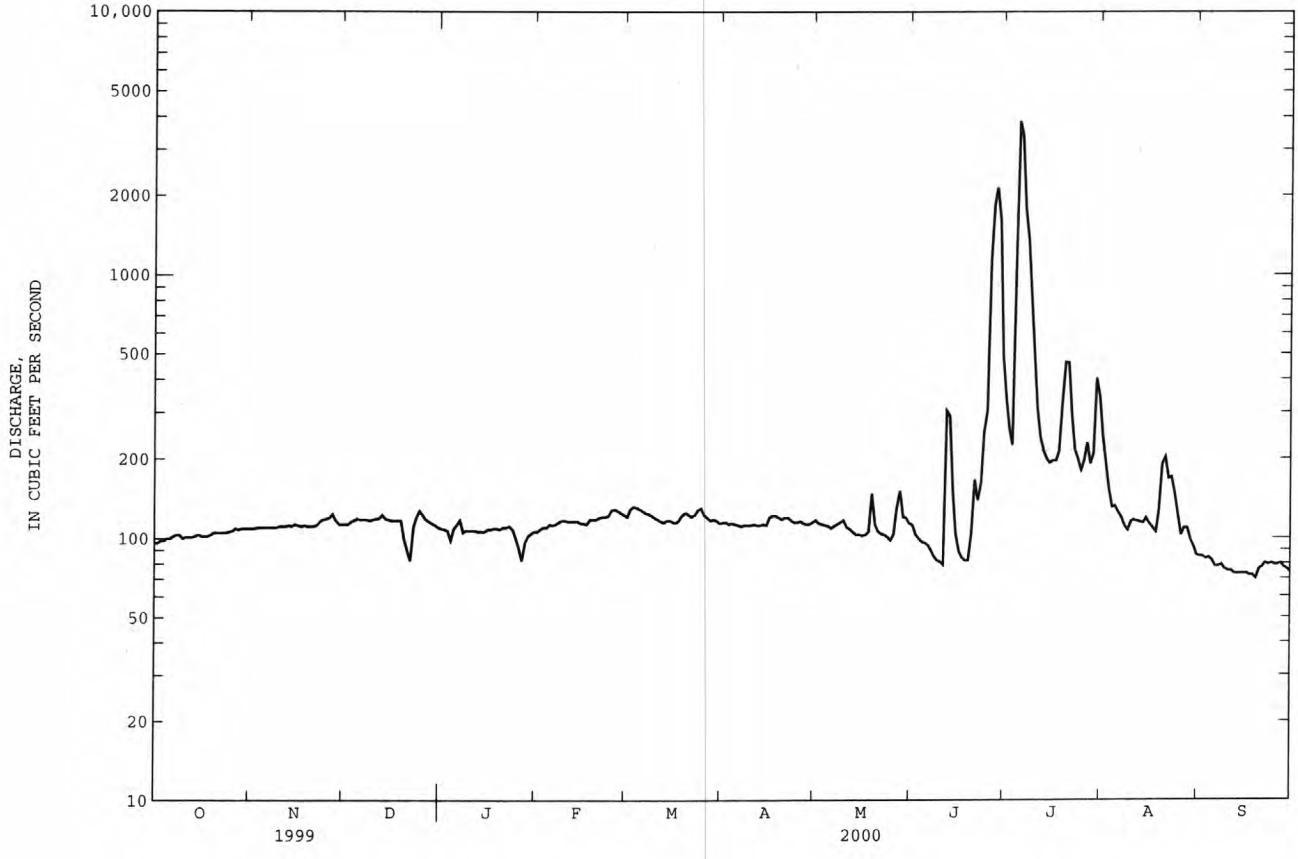
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e96	109	113	109	e106	121	115	117	112	336	241	85
2	e96	109	113	108	e108	129	115	114	103	262	188	85
3	e98	110	116	107	e110	132	113	113	100	225	154	83
4	e98	110	117	98	e110	131	114	112	97	1100	131	84
5	e100	110	119	108	113	129	113	111	96	3840	132	82
6	e100	110	118	112	112	127	112	109	94	3380	125	78
7	e102	110	118	117	113	125	111	111	90	1780	120	78
8	103	110	118	105	115	124	112	113	85	1360	111	79
9	103	110	117	107	117	122	112	115	82	803	107	76
10	100	111	118	107	117	120	112	117	81	490	115	75
11	101	111	119	107	116	118	113	110	79	307	117	75
12	101	111	119	107	116	116	112	108	304	239	116	73
13	101	112	123	106	116	115	112	105	291	213	115	73
14	102	111	119	106	116	117	113	103	150	200	114	73
15	103	113	118	106	114	117	112	103	104	192	119	73
16	102	112	117	108	114	115	120	102	89	196	113	73
17	102	111	117	108	113	115	122	103	84	196	109	72
18	102	112	117	109	118	118	122	106	82	214	105	72
19	103	111	117	109	118	123	120	148	82	329	127	70
20	105	111	e100	108	118	125	118	113	104	464	190	76
21	105	111	e90	110	120	123	120	106	166	461	202	77
22	105	112	e82	110	121	121	120	104	139	298	168	80
23	105	116	e110	111	121	123	117	103	161	217	170	79
24	105	118	e120	108	122	128	115	101	253	198	148	80
25	106	119	127	e100	128	130	115	98	303	180	122	79
26	107	120	123	e92	129	123	116	103	1140	196	102	79
27	109	124	118	e82	127	120	114	131	1860	230	109	80
28	108	117	116	e96	125	117	113	151	2140	190	109	77
29	109	113	114	e102	123	118	113	121	1620	209	99	76
30	109	113	112	e104	---	117	115	120	487	403	93	74
31	109	---	110	e106	---	114	---	114	---	344	86	---
TOTAL	3195	3377	3555	3273	3396	3773	3451	3485	10578	19052	4057	2316
MEAN	103	113	115	106	117	122	115	112	353	615	131	77.2
MAX	109	124	127	117	129	132	122	151	2140	3840	241	85
MIN	96	109	82	82	106	114	111	98	79	180	86	70
AC-FT	6340	6700	7050	6490	6740	7480	6850	6910	20980	37790	8050	4590
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2000, BY WATER YEAR (WY)												
MEAN	119	81.6	69.5	74.1	144	305	176	265	364	338	193	153
MAX	812	224	202	377	671	1762	887	1147	1749	1395	480	855
(WY)	1974	1997	1998	1973	1984	1993	1984	1984	1967	1986	1993	1989
MIN	35.7	33.6	26.4	25.4	40.1	41.6	50.0	60.4	43.1	46.7	34.8	33.1
(WY)	1982	1981	1977	1977	1979	1981	1981	1989	1981	1980	1976	1976

KANSAS RIVER BASIN

06880800 WEST FORK BIG BLUE RIVER NEAR DORCHESTER, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1958 - 2000	
ANNUAL TOTAL	93712		63508			
ANNUAL MEAN	257		174		190	
HIGHEST ANNUAL MEAN					441	1984
LOWEST ANNUAL MEAN					54.4	1976
HIGHEST DAILY MEAN	3760	Jun 11	3840	Jul 5	11100	Mar 11 1993
LOWEST DAILY MEAN	76	Jan 4	70	Sep 19	12	Dec 31 1976
ANNUAL SEVEN-DAY MINIMUM	82	Jan 4	72	Sep 13	17	Jul 11 1976
INSTANTANEOUS PEAK FLOW			4430	Jul 5	*12400	Mar 11 1993
INSTANTANEOUS PEAK STAGE			17.55	Jul 5	22.62	Jul 1 1986
ANNUAL RUNOFF (AC-FT)	185900		126000		137700	
10 PERCENT EXCEEDS	437		197		319	
50 PERCENT EXCEEDS	128		113		84	
90 PERCENT EXCEEDS	104		85		47	

e Estimated.
* Stage 21.71 ft.



KANSAS RIVER BASIN

06881000 BIG BLUE RIVER NEAR CRETE, NE

LOCATION.--Lat 40°35'47", long 096°57'33", in SW ¼ SE ¼ sec.3, T.7 N., R.4 E., Saline County, Hydrologic Unit 10270202, on right bank near downstream side of county road bridge, 1.8 mi south of Missouri Pacific Railroad station in Crete, 3.3 mi downstream from Walnut Creek, 3.6 mi upstream from Squaw Creek, and at mile 167.

DRAINAGE AREA.--2,710 mi^2.

PERIOD OF RECORD.--March 1945 to current year. Prior to Oct. 1, 1953, discharge published only for stages above 12.0 ft because of variable backwater from dam downstream until 1952 and diurnal fluctuation from powerplant upstream in 1952-53.

REVISED RECORDS.--WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,311.7 ft above sea level. Prior to Jan. 20, 1954, nonrecording gage and Jan. 21, 1954 to Mar. 27, 1986, recording gage on right bank at downstream side of county road bridge at present datum. Mar. 28, 1986 to May 11, 1988 at temporary location, on right bank 250 ft downstream from bridge at present datum. Data collection platform at station.

REMARKS.--Records good except for periods of estimated record, which are poor. Natural flow of stream affected by ground-water and surface-water withdrawals for irrigation and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	180	207	216	234	e245	302	240	228	228	674	447	138
2	179	206	214	230	e250	328	237	226	217	514	296	134
3	178	206	221	231	271	353	234	224	202	463	232	132
4	179	209	227	e210	258	328	232	221	192	1160	200	132
5	183	207	232	e200	270	311	232	218	184	2420	179	129
6	187	209	233	e198	271	297	230	212	179	4560	175	130
7	188	211	228	e200	261	289	226	210	170	4070	168	129
8	189	212	227	e210	264	290	224	218	156	2150	165	128
9	190	212	225	e220	e260	281	223	216	146	1620	144	128
10	190	213	224	e225	e260	276	223	230	138	1010	132	126
11	190	214	224	230	e250	272	220	235	126	677	129	125
12	193	214	225	236	e250	266	221	223	132	495	129	123
13	191	213	224	228	e245	260	221	214	367	373	133	122
14	190	213	228	230	e240	257	221	206	471	299	133	121
15	193	212	228	242	e250	256	223	200	283	249	133	120
16	193	213	225	237	e250	252	240	201	176	230	134	119
17	191	213	223	238	e260	248	238	203	136	237	132	119
18	193	213	220	240	e260	249	242	205	118	271	125	119
19	195	213	e200	242	e270	250	246	202	118	321	149	118
20	197	211	e180	239	288	255	246	249	147	529	195	125
21	199	209	e190	240	290	260	240	221	158	703	259	122
22	201	213	e200	241	299	260	236	226	267	655	269	124
23	201	224	e210	e240	310	260	234	215	215	473	234	125
24	201	220	e220	e220	319	263	232	204	217	371	231	126
25	202	224	235	e210	331	267	231	193	560	315	215	124
26	202	225	236	e200	329	273	233	216	1590	266	214	127
27	205	224	235	e210	320	262	238	214	2740	269	169	127
28	204	223	232	e220	311	258	238	244	2810	468	164	128
29	203	218	232	e230	303	251	232	298	2630	314	165	125
30	205	217	233	e235	---	248	229	277	1420	314	153	123
31	205	---	231	e240	---	244	---	248	---	524	147	---
TOTAL	5997	6418	6878	7006	7985	8466	6962	6897	16493	26994	5750	3768
MEAN	193	214	222	226	275	273	232	222	550	871	185	126
MAX	205	225	236	242	331	353	246	298	2810	4560	447	138
MIN	178	206	180	198	240	244	220	193	118	230	125	118
AC-FT	11900	12730	13640	13900	15840	16790	13810	13680	32710	53540	11410	7470

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2000, BY WATER YEAR (WY)

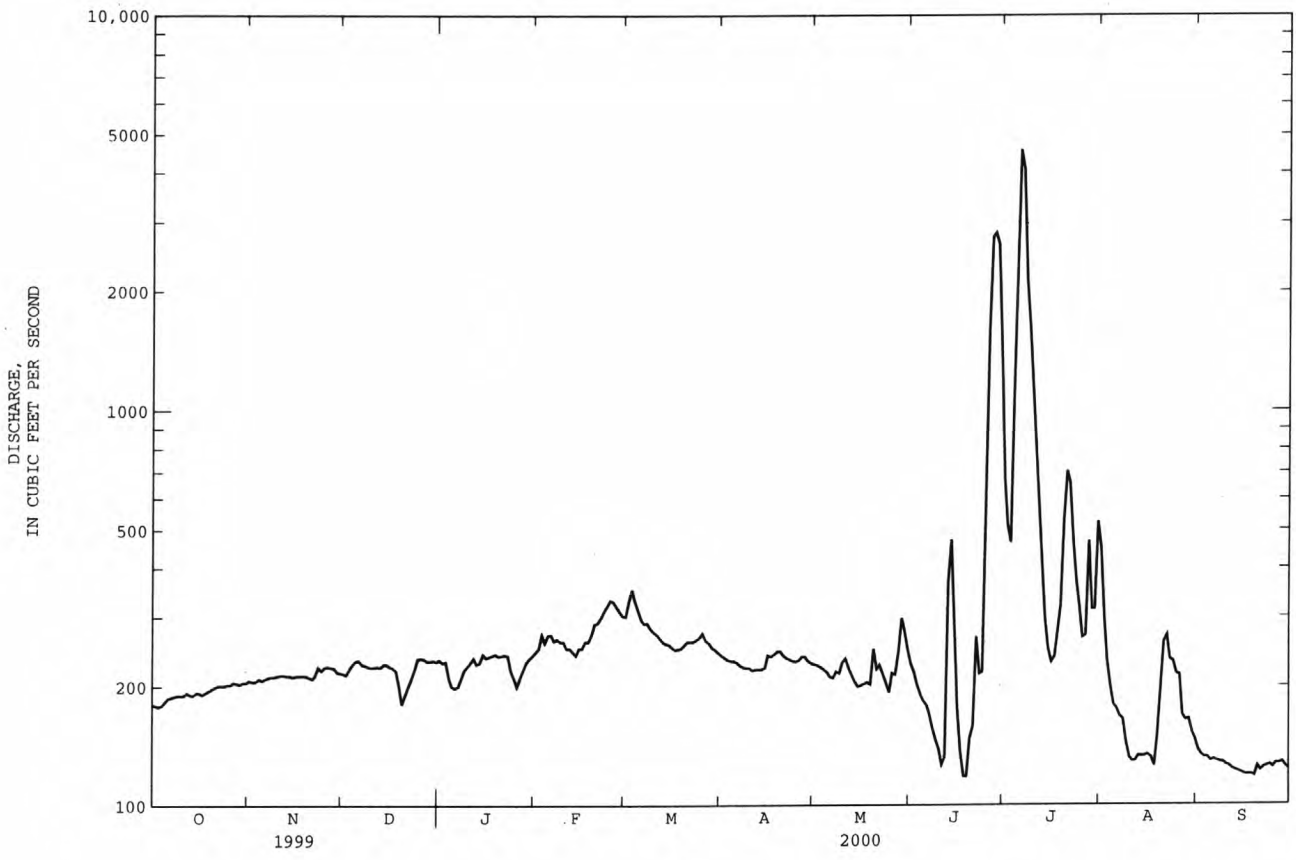
MEAN	239	158	133	143	311	693	408	562	937	688	347	317
MAX	1864	439	390	865	1576	3968	2257	2339	5808	4739	1048	2065
(WY)	1974	1974	1998	1973	1984	1993	1984	1984	1967	1986	1987	1989
MIN	46.5	41.1	60.3	52.2	66.8	86.3	92.2	84.5	70.7	48.6	28.4	51.2
(WY)	1957	1957	1977	1978	1977	1977	1967	1967	1981	1970	1955	1976

KANSAS RIVER BASIN

06881000 BIG BLUE RIVER NEAR CRETE, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1954 - 2000	
ANNUAL TOTAL	191455		109614			
ANNUAL MEAN	525		299		412	
HIGHEST ANNUAL MEAN					1030	1984
LOWEST ANNUAL MEAN					96.6	1976
HIGHEST DAILY MEAN	6490	Jul 2	4560	Jul 6	21400	Jun 19 1957
LOWEST DAILY MEAN	140	Jan 5	118	Jun 18	6.0	Aug 1 1980
ANNUAL SEVEN-DAY MINIMUM	154	Jan 3	120	Sep 13	11	Jul 12 1976
INSTANTANEOUS PEAK FLOW			5090	Jul 6	*27600	Jul 10 1950
INSTANTANEOUS PEAK STAGE			20.91	Jul 6	**29.86	Jul 3 1986
ANNUAL RUNOFF (AC-FT)	379800		217400		298200	
10 PERCENT EXCEEDS	925		319		751	
50 PERCENT EXCEEDS	252		224		160	
90 PERCENT EXCEEDS	184		132		79	

e Estimated.
* Stage 28.74 ft.
** From floodmark.



KANSAS RIVER BASIN

06882000 BIG BLUE RIVER AT BARNESTON, NE

LOCATION.--Lat 40°02'40", long 096°35'12", in NE ¼ NW ¼ sec.24, T.1 N., R.7 E., Gage County, Hydrologic Unit 10270205, on right bank at right downstream end of bridge on State Highway 8, 0.6 mi southwest of Barneston, 1.3 mi upstream from Plum Creek, and 4.3 mi upstream from Nebraska-Kansas State line.

DRAINAGE AREA.--4,447 mi^2, of which about 4,370 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--May 1932 to current year.

REVISED RECORDS.--WSP 896: 1932, 1935. WSP 1919: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,162.2 ft above sea level. Prior to June 9, 1941, water-stage recorder at site 0.3 mi downstream at datum 1.56 ft higher. June 9 to Nov. 17, 1941, nonrecording gage and Nov. 18, 1941 to Sept. 30, 1979, water-stage recorder at site 0.7 mi upstream at datum 2.0 ft higher. Data collection platform at station.

REMARKS.--Records good except for periods of estimated record, which are poor. Low flow regulated by dam at unused powerplant 0.7 mi upstream. No large tributaries between station and Nebraska-Kansas State line. Some pump diversions for irrigation above station. Natural flow of stream affected by ground-water withdrawals for irrigation and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	292	288	334	e270	e280	381	371	392	349	2060	532	189
2	284	276	337	e270	e300	375	361	369	323	1160	600	179
3	282	284	341	e250	e310	385	348	358	291	821	471	163
4	280	286	351	e245	e320	416	334	354	283	6270	354	159
5	280	285	352	e230	e330	436	340	343	263	5630	303	157
6	282	293	361	e220	e330	412	328	338	250	4120	268	156
7	289	295	369	e240	e340	398	332	335	251	4770	240	158
8	290	302	364	e250	e340	396	314	330	238	5100	218	156
9	288	320	353	e260	348	376	320	330	215	3340	189	160
10	287	313	340	e260	357	362	318	325	205	2160	159	161
11	282	310	338	e270	356	354	315	330	177	1530	142	161
12	285	314	336	e270	347	354	309	329	166	1080	123	160
13	282	313	333	e280	350	353	316	317	148	767	117	155
14	276	312	335	e280	354	353	320	304	183	565	111	153
15	281	306	344	e270	356	352	321	300	316	447	106	143
16	273	308	346	e270	339	336	401	294	465	382	91	144
17	263	310	337	e260	352	332	421	295	367	358	89	145
18	268	326	e310	e260	368	355	411	294	319	357	92	145
19	274	317	e290	e270	364	376	389	287	234	383	169	145
20	277	305	e250	e270	361	368	383	291	339	455	411	170
21	283	315	e175	e260	363	366	376	301	337	539	391	167
22	284	324	e200	e260	374	404	368	327	302	701	320	169
23	280	403	e240	e250	449	409	367	308	255	858	322	167
24	281	391	e260	e230	438	426	359	291	462	717	372	171
25	287	371	e280	e220	442	405	356	276	447	522	331	178
26	289	358	e300	e218	431	401	348	320	1570	425	309	173
27	293	353	e300	e220	426	394	351	322	2180	364	287	169
28	295	344	e290	e220	412	389	345	331	2380	393	280	169
29	299	334	e290	e230	408	374	348	318	2620	758	248	167
30	291	333	e280	e240	---	370	360	324	2500	824	219	166
31	284	---	e280	e260	---	356	---	367	---	532	212	---
TOTAL	8781	9589	9616	7803	10545	11764	10530	10000	18435	48388	8076	4855
MEAN	283	320	310	252	364	379	351	323	614	1561	261	162
MAX	299	403	369	280	449	436	421	392	2620	6270	600	189
MIN	263	276	175	218	280	332	309	276	148	357	89	143
AC-FT	17420	19020	19070	15480	20920	23330	20890	19840	36570	95980	16020	9630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2000, BY WATER YEAR (WY)

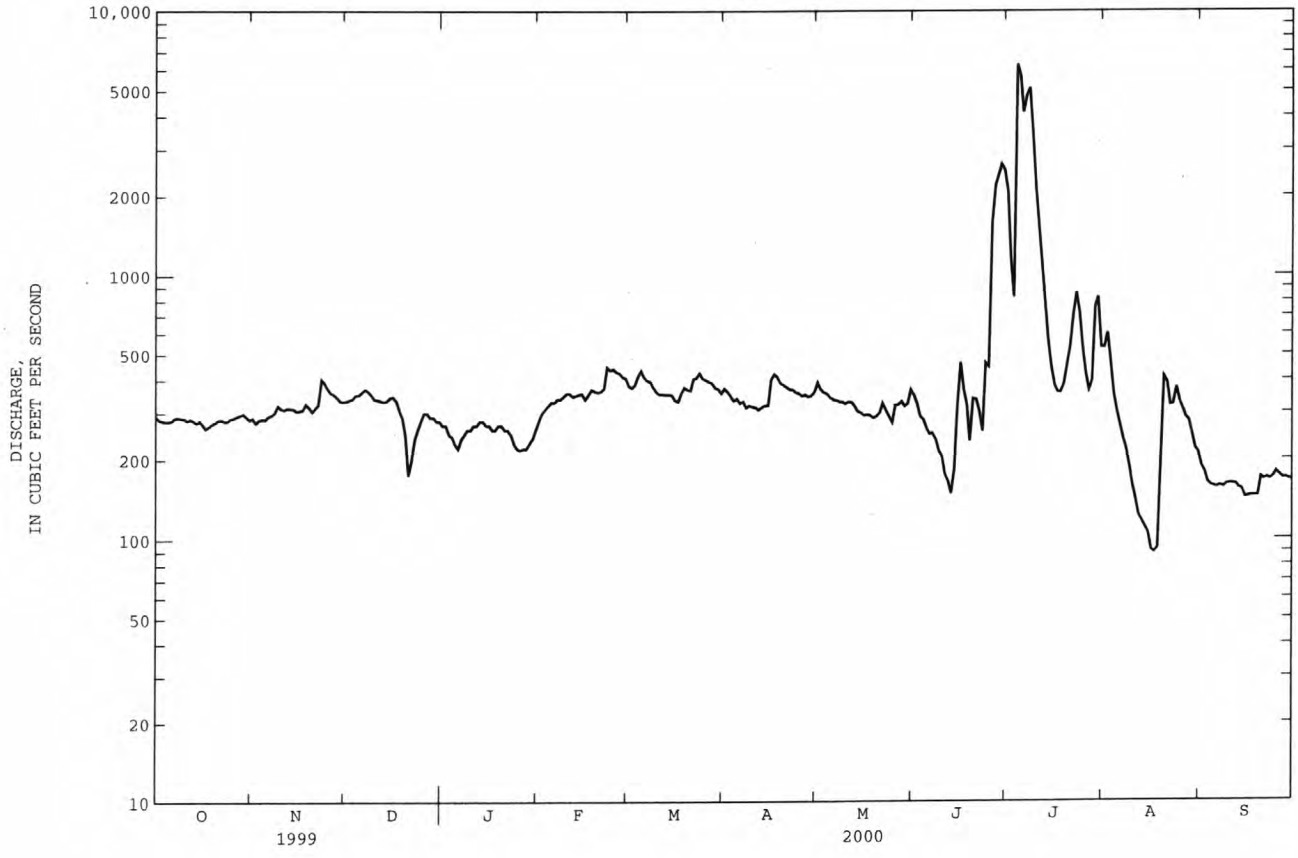
MEAN	553	313	241	290	649	1369	874	1264	2069	1369	714	706
MAX	7451	1526	851	1596	2876	10560	5280	5207	10460	12270	5227	3420
(WY)	1974	1999	1998	1973	1984	1979	1984	1995	1951	1993	1954	1989
MIN	61.5	77.5	87.4	67.6	116	137	132	96.0	69.3	30.7	21.1	50.6
(WY)	1941	1937	1977	1937	1940	1968	1934	1934	1934	1934	1934	1939

KANSAS RIVER BASIN

06882000 BIG BLUE RIVER AT BARNESTON, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1933 - 2000	
ANNUAL TOTAL	390070		158382			
ANNUAL MEAN	1069		433		868	
HIGHEST ANNUAL MEAN					2781	1993
LOWEST ANNUAL MEAN					115	1934
HIGHEST DAILY MEAN	14800	May 21	6270	Jul 4	50000	Jun 9 1941
LOWEST DAILY MEAN	175	Dec 21	89	Aug 17	1.0	Nov 30 1945
ANNUAL SEVEN-DAY MINIMUM	242	Dec 19	104	Aug 12	15	Aug 3 1934
INSTANTANEOUS PEAK FLOW			11600	Jul 4	57700	Jun 9 1941
INSTANTANEOUS PEAK STAGE			16.57	Jul 4	34.30	Jun 9 1941
ANNUAL RUNOFF (AC-FT)	773700		314200		628600	
10 PERCENT EXCEEDS	2770		444		1800	
50 PERCENT EXCEEDS	455		318		280	
90 PERCENT EXCEEDS	289		170		103	

e Estimated.



KANSAS RIVER BASIN

06883000 LITTLE BLUE RIVER NEAR DEWEESE, NE

LOCATION.--Lat 40°19'58", long 98°04'00", in SW ¼ NW ¼ sec.12, T.4 N., R.7 W., Nuckolls County, Hydrologic Unit 10270206, on right bank 10 ft downstream from bridge on State Highway 14, 1 mi upstream from Walnut Creek, 3.2 mi southeast of Deweese, 6 mi northwest of Angus, and at mile 122.57.

DRAINAGE AREA.--984 mi^2.

PERIOD OF RECORD.--February 1953 to September 1972, October 1974 to current year.

REVISED RECORDS.--WDR NE-97-1: Drainage area.

GAGE.--Water-stage recorder and peak-stage indicator gage. Datum of gage is 1,632.67 ft above sea level. Prior to May 16, 1957, non-recording gage and Oct. 1, 1974 to Mar. 24, 1981, recording gage at present site and datum; May 16, 1957 to Sept. 30, 1972 and Mar. 25, 1981 to Mar. 24, 1982 at site 1,500 ft upstream from bridge at present datum. Data collection platform at station.

REMARKS.--Records good except for periods of estimated record, which are poor. Natural flow affected by irrigation development above station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	65	71	70	80	104	87	95	84	438	122	23
2	44	64	72	71	82	96	87	90	79	414	105	24
3	44	67	75	70	84	94	84	88	78	656	90	26
4	44	68	75	e64	81	93	83	90	80	6270	83	25
5	49	69	72	e58	80	93	86	90	77	10500	78	25
6	57	68	71	e62	83	90	85	91	75	7530	75	26
7	60	69	73	66	83	87	86	93	73	2190	72	29
8	64	71	74	68	82	95	82	96	67	1060	68	30
9	62	72	74	69	86	88	83	92	60	628	63	31
10	62	71	73	71	87	83	85	90	56	420	56	33
11	61	70	73	70	83	81	84	90	110	330	54	34
12	64	72	74	72	81	82	83	88	139	272	46	35
13	65	73	76	70	84	81	84	85	56	223	40	37
14	63	73	77	72	83	90	85	84	42	201	31	38
15	68	72	80	75	86	91	83	84	35	183	24	38
16	65	73	76	74	84	85	88	86	31	172	21	39
17	62	73	76	72	83	82	84	91	31	158	25	40
18	61	73	73	75	88	85	86	93	28	463	19	42
19	63	72	e66	76	82	87	86	91	23	2090	50	44
20	66	71	e60	74	85	86	85	113	522	750	86	59
21	65	72	e64	75	88	84	82	130	1670	448	58	49
22	65	74	66	76	90	84	83	108	1930	549	51	52
23	63	80	66	77	97	92	84	95	1170	309	33	50
24	64	74	65	79	97	99	85	85	751	240	23	54
25	63	73	65	79	97	94	87	78	701	180	20	57
26	63	73	66	78	89	89	85	97	2140	150	21	54
27	65	72	67	78	85	86	87	124	1290	140	21	54
28	64	69	67	78	86	85	83	93	730	199	21	53
29	65	69	68	78	95	85	86	103	559	209	20	53
30	65	69	69	79	---	84	92	97	487	176	20	53
31	65	---	69	80	---	83	---	88	---	153	20	---
TOTAL	1879	2131	2193	2256	2491	2738	2550	2918	13174	37701	1516	1207
MEAN	60.6	71.0	70.7	72.8	85.9	88.3	85.0	94.1	439	1216	48.9	40.2
MAX	68	80	80	80	97	104	92	130	2140	10500	122	59
MIN	44	64	60	58	80	81	82	78	23	140	19	23
AC-FT	3730	4230	4350	4470	4940	5430	5060	5790	26130	74780	3010	2390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2000, BY WATER YEAR (WY)

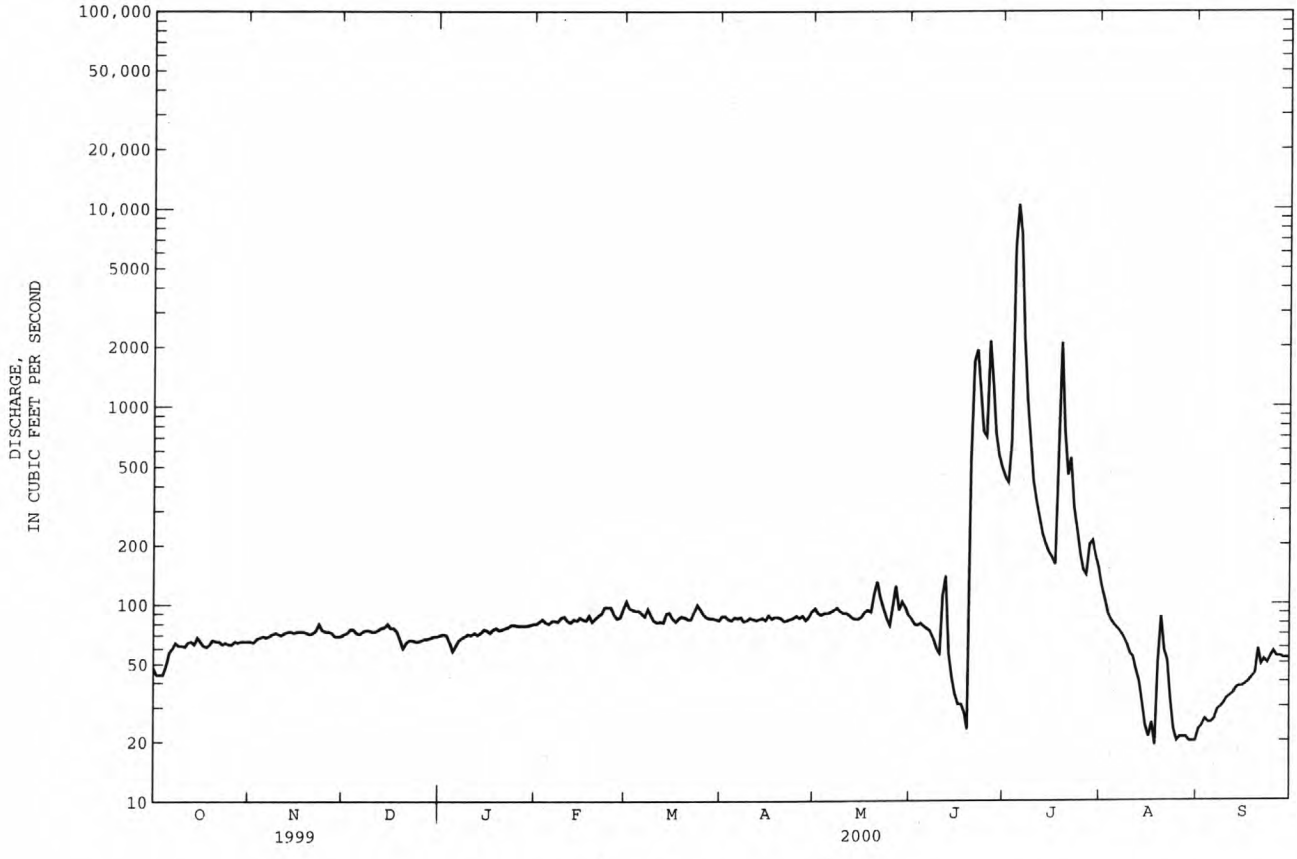
MEAN	81.9	68.7	64.9	68.6	94.9	189	130	250	267	276	152	131
MAX	347	193	115	207	245	1140	762	1348	1145	2655	883	911
(WY)	1966	1997	1998	1984	1982	1993	1984	1965	1957	1993	1985	1969
MIN	29.1	39.3	41.7	44.6	46.7	56.5	59.3	50.5	36.0	15.6	14.0	10.7
(WY)	1992	1992	1981	1978	1981	1981	1972	1992	1988	1970	1991	1991

KANSAS RIVER BASIN

06883000 LITTLE BLUE RIVER NEAR DEWEESE, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1954 - 2000	
ANNUAL TOTAL	39358		72754			
ANNUAL MEAN	108		199		148	
MEDIAN OF ANNUAL MEANS					126	
HIGHEST ANNUAL MEAN					464	1993
LOWEST ANNUAL MEAN					64.0	1976
HIGHEST DAILY MEAN	1040	Jun 2	10500	Jul 5	14300	Sep 1 1969
LOWEST DAILY MEAN	30	Aug 1	19	Aug 18	3.2	Aug 11 1988
ANNUAL SEVEN-DAY MINIMUM	38	Jul 27	20	Aug 25	4.2	Aug 31 1988
INSTANTANEOUS PEAK FLOW			11000	Jul 5	25100	Aug 31 1969
INSTANTANEOUS PEAK STAGE			12.83	Jul 5	18.57	Aug 31 1969
ANNUAL RUNOFF (AC-FT)	78070		144300		107400	
10 PERCENT EXCEEDS	175		177		194	
50 PERCENT EXCEEDS	88		78		70	
90 PERCENT EXCEEDS	44		40		44	

e Estimated.



KANSAS RIVER BASIN

06884000 LITTLE BLUE RIVER NEAR FAIRBURY, NE

LOCATION.--Lat 40°06'54", long 097°10'13", in NW ¼ NE ¼ sec.26, T.2 N., R.2 E., Jefferson County, Hydrologic Unit 10270207, at right downstream wingwall of bridge on State Highway 15, 0.8 mi south of Fairbury, 5.2 mi upstream from Rose Creek, and at mile 62.0.

DRAINAGE AREA.--2,350 mi^2.

PERIOD OF RECORD.--May 1908 to September 1915, October 1928 to September 1956 (published as "near Endicott"), October 1956 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1086: 1941(M). WSP 1390: 1908(M), 1912, 1915, 1935, 1939, 1945(M). WSP 1510: 1947 (calendar year figures only). WSP 1919: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,277.19 ft above sea level. May 23, 1908 to Sept. 30, 1915 nonrecording gage at present site at different datum. Apr. 26, 1929 to Sept. 24, 1957 nonrecording gage or water-stage recorder at site 3.5 mi downstream at various datums. Sept. 25, 1957 to Aug. 20, 1991 water-stage recorder at present site at datum 5.0 ft higher. Data collection platform at station.

REMARKS.--Records good except for periods of estimated record, which are poor. Some regulation at low stage by thermoelectric plant above station. Natural flow of stream affected by irrigation development above station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	126	141	e130	e118	166	164	168	116	287	366	84
2	96	124	143	e118	e120	166	163	162	124	221	294	84
3	94	126	164	e110	e124	178	158	160	116	194	294	83
4	95	128	172	e100	e130	181	156	154	112	1920	259	80
5	97	131	164	e110	e135	176	156	149	114	5700	199	69
6	96	132	155	e112	e135	172	153	147	99	7290	239	73
7	96	134	154	e116	e135	171	152	149	103	9680	163	76
8	98	136	155	e125	e130	178	150	153	98	3670	203	75
9	100	137	154	e140	e130	170	151	154	92	1820	183	74
10	102	137	153	e140	e130	170	152	150	90	1300	151	73
11	110	137	153	e130	e135	169	151	148	89	931	134	75
12	98	139	157	e130	155	168	150	144	88	740	119	75
13	102	141	157	e125	161	164	151	136	85	620	112	75
14	103	139	159	e122	173	167	152	135	118	603	119	75
15	105	139	156	e100	171	169	152	133	106	510	108	75
16	105	140	151	e120	164	168	171	132	89	455	104	77
17	103	139	e145	e122	160	166	166	133	80	512	95	77
18	104	142	e135	e122	166	174	164	134	77	480	81	76
19	105	140	e130	e120	166	180	164	135	71	561	113	75
20	108	141	e120	e118	165	172	170	138	116	2000	230	87
21	112	144	e122	e116	164	169	168	139	110	1220	214	84
22	114	147	e130	e112	167	177	160	133	261	750	173	85
23	114	166	e135	e110	187	185	158	147	1170	747	153	83
24	114	159	e140	e106	191	200	157	145	833	699	131	82
25	116	155	e145	e101	188	189	160	133	560	450	116	82
26	117	155	e150	e102	192	186	156	156	495	402	107	80
27	121	154	e145	e104	184	182	154	139	1000	394	100	79
28	122	148	e145	e106	177	170	150	135	982	533	100	79
29	125	142	e140	e108	173	164	148	139	631	627	95	78
30	125	141	e145	e110	---	162	164	139	398	408	87	76
31	129	---	e140	e112	---	160	---	139	---	376	86	---
TOTAL	3324	4219	4555	3597	4526	5369	4721	4458	8423	46100	4928	2346
MEAN	107	141	147	116	156	173	157	144	281	1487	159	78.2
MAX	129	166	172	140	192	200	171	168	1170	9680	366	87
MIN	94	124	120	100	118	160	148	132	71	194	81	69
AC-FT	6590	8370	9030	7130	8980	10650	9360	8840	16710	91440	9770	4650

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2000, BY WATER YEAR (WY)

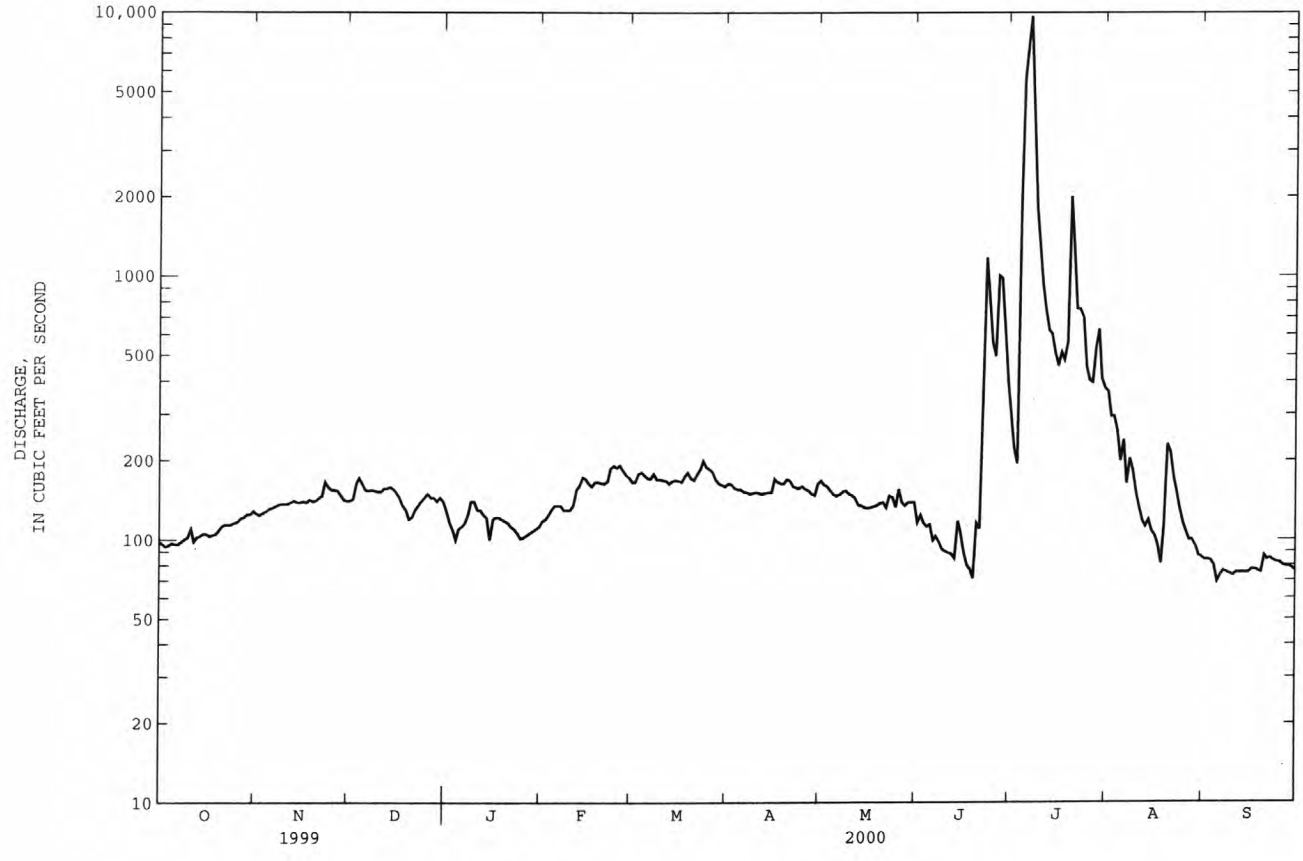
MEAN	275	177	142	157	269	493	332	553	866	601	356	352
MAX	4406	886	282	594	1004	2821	2019	2419	4735	6413	2142	2189
(WY)	1974	1997	1914	1973	1948	1987	1987	1945	1951	1993	1985	1973
MIN	44.3	68.7	74.7	75.0	93.3	103	99.8	96.6	78.1	55.4	48.3	28.7
(WY)	1992	1992	1981	1930	1981	1981	1981	1992	1934	1934	1936	1991

KANSAS RIVER BASIN

06884000 LITTLE BLUE RIVER NEAR FAIRBURY, NE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1910 - 2000	
ANNUAL TOTAL	101392		96566			
ANNUAL MEAN	278		264		385	
MEDIAN OF ANNUAL MEANS					340	
HIGHEST ANNUAL MEAN					1239	1993
LOWEST ANNUAL MEAN					107	1940
HIGHEST DAILY MEAN	5980	May 21	9680	Jul 7	36400	Jul 26 1992
LOWEST DAILY MEAN	94	Oct 3	69	Sep 5	14	Nov 22 1929
ANNUAL SEVEN-DAY MINIMUM	96	Oct 1	74	Sep 5	24	Sep 14 1991
INSTANTANEOUS PEAK FLOW			10100	Jul 7	54000	Jul 25 1992
INSTANTANEOUS PEAK STAGE			16.21	Jul 7	24.33	Jul 25 1992
ANNUAL RUNOFF (AC-FT)	201100		191500		278700	
10 PERCENT EXCEEDS	416		369		580	
50 PERCENT EXCEEDS	177		140		160	
90 PERCENT EXCEEDS	109		87		92	

e Estimated.



KANSAS RIVER BASIN

06884025 LITTLE BLUE RIVER AT HOLLENBERG, KS

LOCATION.--Lat 39°58'48", long 097°00'16", NE ¼ SW ¼ sec.8, T.1 S., R.4 E., Washington County, Hydrologic Unit 10270207, on right bank 2 ft downstream from bridge on county road, 0.6 mi west of Hollenberg, 1.75 mi downstream from Nebraska-Kansas State line, and at mile 43.1.

DRAINAGE AREA.--2,752 mi^2.

PERIOD OF RECORD.--March 1973 to February 1974 (discharge measurements only), March 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,216.10 ft above sea level. Data collection platform at station.

REMARKS.--Records good except for periods of estimated record, which are poor. Discharge measurements made prior to 1974 water year are published in table of miscellaneous sites in WDR NE-73.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114	149	164	e165	e180	198	196	220	152	467	401	98
2	110	145	165	e155	e185	194	193	207	125	353	325	92
3	110	146	174	e140	e180	208	189	194	128	284	293	86
4	112	148	194	e130	e190	210	182	188	125	1710	256	89
5	116	150	187	e125	e190	204	183	177	120	6100	228	88
6	118	151	173	e130	e190	197	181	174	122	7540	214	69
7	117	153	172	e135	e185	195	180	171	103	9180	213	79
8	116	154	170	e140	e185	207	176	176	109	5460	579	82
9	118	157	169	e150	e185	205	174	179	97	2100	276	81
10	120	156	167	e180	e180	197	175	176	90	1410	190	81
11	121	157	167	e185	e175	200	173	174	93	1010	170	80
12	130	159	168	e180	e170	196	171	165	89	744	158	79
13	110	160	167	e175	e160	198	171	156	92	610	141	78
14	116	160	167	e170	e155	200	172	153	95	528	130	77
15	120	161	169	e170	e160	204	170	154	147	475	121	77
16	121	160	167	e175	e170	202	208	153	126	426	117	76
17	119	161	e165	e175	e170	199	210	155	105	408	106	76
18	121	161	e150	e170	e175	210	195	154	95	492	98	76
19	124	160	e120	e165	e185	228	190	152	90	452	104	76
20	125	160	e110	e165	199	218	194	152	145	1660	165	92
21	131	161	e100	e160	200	209	201	159	177	1520	269	93
22	132	166	e110	e160	200	220	189	152	157	958	207	93
23	132	193	e120	e160	240	223	182	149	935	733	186	97
24	134	192	e135	e160	237	246	177	168	1180	913	163	99
25	138	174	e150	163	229	237	178	152	852	621	139	98
26	141	171	e170	164	229	226	182	181	663	479	126	94
27	141	171	e175	e165	226	223	177	192	875	401	114	96
28	142	168	e175	e170	212	211	172	162	1320	628	110	94
29	143	166	e170	e180	204	198	174	157	959	1330	108	90
30	146	164	e170	e185	---	195	174	157	658	649	105	83
31	146	---	e170	e185	---	189	---	147	---	481	97	---
TOTAL	3884	4834	4930	5032	5546	6447	5489	5206	10024	50122	5909	2569
MEAN	125	161	159	162	191	208	183	168	334	1617	191	85.6
MAX	146	193	194	185	240	246	210	220	1320	9180	579	99
MIN	110	145	100	125	155	189	170	147	89	284	97	69
AC-FT	7700	9590	9780	9980	11000	12790	10890	10330	19880	99420	11720	5100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2000, BY WATER YEAR (WY)

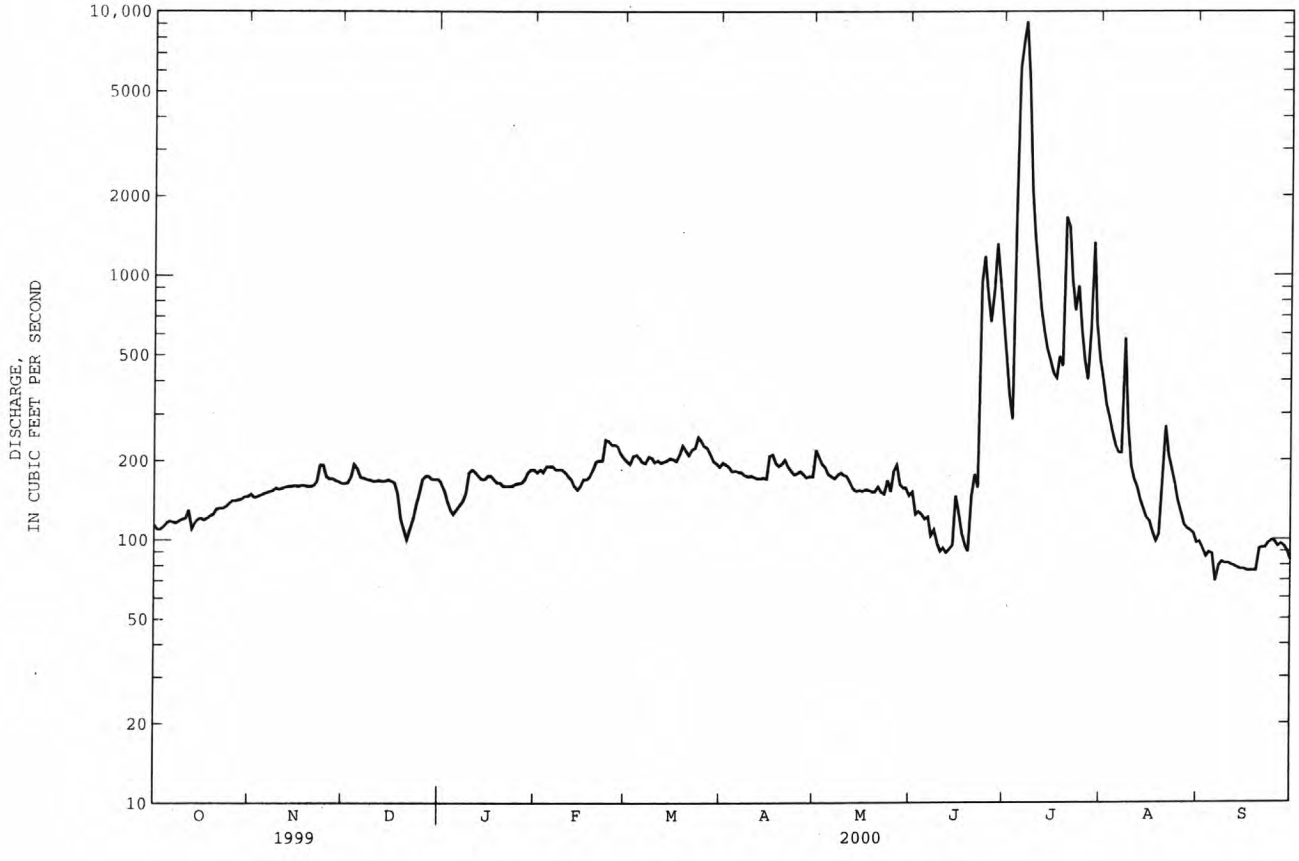
MEAN	322	255	188	181	343	801	570	775	941	1101	549	377
MAX	2163	1113	424	576	1059	3816	2379	2302	4373	9014	2572	1320
(WY)	1987	1997	1993	1984	1993	1993	1987	1995	1984	1993	1985	1977
MIN	45.3	81.1	102	98.5	115	118	125	108	151	111	72.5	32.0
(WY)	1992	1992	1977	1977	1992	1981	1981	1992	1981	1991	1991	1991

KANSAS RIVER BASIN

06884025 LITTLE BLUE RIVER AT HOLLENBERG, KS--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1975 - 2000	
ANNUAL TOTAL	138501		109992			
ANNUAL MEAN	379		301		535	
MEDIAN OF ANNUAL MEANS					450	
HIGHEST ANNUAL MEAN					1891	1993
LOWEST ANNUAL MEAN					195	1991
HIGHEST DAILY MEAN	5110	May 21	9180	Jul 7	39300	Jul 26 1992
LOWEST DAILY MEAN	100	Dec 21	69	Sep 6	26	Oct 1 1991
ANNUAL SEVEN-DAY MINIMUM	109	Sep 14	77	Sep 13	27	Sep 27 1991
INSTANTANEOUS PEAK FLOW			9790	Jul 7	47800	Jul 26 1992
INSTANTANEOUS PEAK STAGE			11.44	Jul 7	21.21	Jul 26 1992
ANNUAL RUNOFF (AC-FT)	274700		218200		387600	
10 PERCENT EXCEEDS	599		413		885	
50 PERCENT EXCEEDS	276		170		211	
90 PERCENT EXCEEDS	120		98		109	

e Estimated.



Discharge at Partial Record Stations and Miscellaneous Sites

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest stage partial record stations during water year 2000

[mi^2, square mile; ft, foot; ft^3/s, cubic feet per second; <, less than; --, no date available]

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Date	Annual maximum	
						Gage height (ft)	Discharge (ft^3/s)
Kansas River Basin							
06814500	North Fork Big Nemaha River, at Humboldt, NE	Lat 40° 09' 25", long 095° 56' 40", in $NW^1/_4$ $NE^1/_4$ sec. 10, T. 2N., R. 13 E., Richardson County, on right bank on bridge on State Highway 105 at south edge of Humboldt	548	*1952-96 1997-2000	07-04-00	13.66	9,170
06838200	Coon Creek at Indianola, NE	Lat 40° 14' 03", long 100° 25' 37", in $NW^1/_4$ $NE^1/_4$ sec.13, T.3 N., R.28 W., Red Willow County, at bridge on U.S. Highways 6 and 34, 0.5 mile west of Indianola	69	1961-2000	--	below-gage	<50
06838550	Dry Creek at Bartley, NE	Lat 40° 15' 02", long 100° 19' 02", in $SW^1/_4$ $SE^1/_4$ sec.1, T.3 N., R.27 W., Red Willow County, at bridge on U.S. Highway 6 and 34, 0.5 mile west of Bartley	42	1961-2000	--	below gage	<10
06850000	Turkey Creek at Naponee, NE	Lat 40° 04' 34", long 099° 08' 17", in $SW^1/_4$ $SW^1/_4$ sec.4, T.1 N., R.16 W., Franklin County, on downstream side of county bridge at east side of Naponee	129	*1948-53 [a]1954-61 [b]1962-77 [a]1978-89 1991-2000	--	below gage	<100
06881450	Indian Creek at Beatrice, NE	Lat 40° 17' 08", long 096° 44' 47", in $SE^1/_4$ $NE^1/_4$ sec. 28, T.4 N., R.6 E., Gage County, at bridge on U.S. Higway 77 at north edge of Beatrice	74.7	1960-89, 1991-2000	07-04-00	6.3	320

* Operated as a continuous-record gaging station.

a Discharge measurements published in table for miscellaneous sites.

b Discharge measurements published in table for low flow partial record sites.

Measurements of streamflow at points other than gaging stations are given in the following table. Some measurements were made during periods of base flow when streamflow is primarily from ground-water storage and may be correlated with the simultaneous discharge of a nearby stream where continuous records are available to give a picture of the low-flow potentiality of the stream.

Discharge measurements made at miscellaneous sites during water year 2000

[mi_2, square miles; ft^3/s, cubic feet per second; lat, latitude; long, longitude; sec., section; mi, mile; Nebr., Nebraska

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Platte River Basin						
Horse Creek (06677100)	North Platte River	Lat 41°55'12", long 104°02'40", in NW¼ SW¼ sec.34, T.23 N.,R.58 W., Scotts Bluff County, at State Spur Highway 79 bridge, at Lyman	--	1999	11-30-99	10
Kiowa Creek (06677300)	Horse Creek	Lat 41°55'45", long 104°00'17", in NW¼ sec.36, T.23 N., R.58 N., Scotts Bluff County, near Union Pacific Railroad bridge, 2.2 mi northeast of Lyman	--	1962-65	11-30-99	19
Horse Creek (06677500)	North Platte River	Lat 41°56'21", long 103°59'13", in SE¼ NE¼ sec.25, T.23 N.,R.58 W., Scotts Bluff County, at county road bridge, 3.2 mi northeast of Lyman	1,707	**1931-94, 1999	11-30-99	31
Sheep Creek (06677995)	North Platte River	Lat 41°58'14", long 103°57'14", in SE¼ SE½ sec.8, T.23 N., R.57 W., Scotts Bluff County, at county road bridge, 1.5 mi northwest of Morrill	--	1996-99	11-30-99	67
North Platte (06678500)	Platte River	Lat 41°56'12", long 103°55'44", in SW¼ NW¼ sec.25, T.27 N.,R.57 W., Scotts Bluff County, at highway bridge, 2 mi south of Morrill	24,100	1917-23 1996-99	11-30-99	434
Pumpkin Creek (06684700)	North Platte River	Lat 41°38'29", long 103°40'44", in SW¼SW¼ sec.4, T.19 N., R.55 W., Banner County, at Nebr. Highway 71 bridge, 7 mi northeast of Harrisburg	--	--	05-03-00 07-19-00	0.09 0.12
Pumpkin Creek (06684750)	North Platte River	Lat 41°38'56", long 103°35'23", in NW¼SE¼ sec.6, T.19 N., R.54 W., Banner County, at Hoehn Farms, 10 mi northeast of Harrisburg	--	--	05-03-00	0.21
Unamed spring (06684920)	Chalk Creek	Lat 41°31'11", long 103°22'07", in SE¼NE¼ sec.24, T.18 N., R.53 W., Banner County, at Schuler Ranch, 6 mi southwest of Redington	--	--	05-03-00 07-19-00 08-23-00	0.17 0.18 0.15
Unamed spring (06684930)	Pumpkin Creek	Lat 41°37'43", long 103°22'12", in SE¼SE¼ sec.12, T.19 N., R.53 W., Banner County, at Olsen Ranch, 7 mi northwest of Redington	--	--	05-03-00 07-19-00	<0.01 0.62
Pumpkin Creek (06684940)	North Platte River	Lat 41°35'54", long 103°16'19", in NW¼NW¼ sec.25, T.19 N., R.52 W., Morrill County, at county road 1 mi north of Redington	--	--	05-03-00	0.52
Lawrence Fork (06684950)	Pumpkin Creek	Lat 41°32'27", long 103°17'05", in SE¼SW¼ sec.11, T.18 N., R.52 W., Morrill County, at county road 3 mi southwest of Redington	--	--	05-04-00 07-19-00 08-23-00	3.0 2.1 2.0

Discharge measurements made at miscellaneous sites during water year 2000--Continued

[mi_2, square miles; ft^3/s, cubic feet per second; lat, latitude; long, longitude; sec., section; mi, mile; Nebr., Nebraska

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Pumpkin Creek (06684970)	North Platte River	Lat 41°35'13", long 103°05'59", in NE¼SE¼ sec.29, T.19 N., R.50 W., Morrill County, at Nebr. Highway 88, 5.5 mi south of Bridgeport	--	--	05-04-00 07-19-00 08-23-00	4.6 0.90 0.38
Middle Loup Canal No. 4 (06778450)	Middle Loup River	Lat 41°17'07", long 098°57'59", in SW¼SW¼ sec.31, T.18 N., R.16 W., Custer County, near Comstock	--	--	07-20-00	34
Middle Loup River (06779500)	Loup River	Lat 41°16'40", long 098°59'50", in NE¼ sec.14, T.15 N., R.15 W., Sherman County, downstream from Nebr. Highway 92 bridge, 1 mi west of Loup City	--	1936-38, 1949-56	03-30-00 07-17-00	1,180 188
*Dane Creek (06788495)	North Loup River	Lat 41°36'31", long 98°56'36", in NE¼ NE¼ sec.20, T.19 N., R.14 W., Valley County, at bridge on State Highway 11 at northwest edge of Ord	--	1962 1977-99	11-02-99 05-01-00	0.91 2.2
*Mira Creek (06788990)	North Loup River	Lat 41°29'54", long 98°46'46", in SE¼ SW¼ sec.26, T.18 N., R.13 W., Valley County, at bridge on State Highway 11 at west edge of North Loup	--	1977-99	11-02-99 05-01-00	1.7 5.4
Salt Creek	Platte River	Lat 40°50'19", long 96°41'23", in NW¼ NE¼ sec.13, T.10 N., R.6 E., Lancaster County, upstream of Theresa Street Sewage Plant at Lincoln	--	--	04-12-00	58

* Also published with additional data elsewhere in this report.

** Operated as a continuous-record gaging station.

Low-Flow Investigations

Platte River Basin

Discharge measurements were made during water year 2000 at numerous locations within the Wahoo Creek Basin in Saunders County, Nebraska, near the Nebraska Ordnance Plant (NOP) to determine ground-water/surface-water relations.

Wahoo Creek Basin

Location	Discharge (cubic feet per second)	
	03-30-00	09-01-00
Wahoo Creek at SW corner of NOP NW$^1/_4$ NW$^1/_4$ sec.2, T.13 N., R.8 E.	60.1	30.6
Wahoo Cr below confluence with Silver Creek NE$^1/_4$ NW$^1/_4$ sec. 20, T.13 N., R.9 E.	82.5	48.7
Wahoo Creek at Ashland (Gage site 06804700 SE$^1/_4$ NE$^1/_4$ sec. 35, T.13 N., R.9 E.	86.9	49.3
Silver Creek near Ithaca SW $^1/_4$ NW $^1/_4$ sec. 35, T.14 N, R. 8 E.	11.1	6.13
Silver Creek near Ashland NW$^1/_4$ NE$^1/_4$ sec. 35, T.13 N., R.9 E.	1.38	.12
Johnson Creek north of NOP SW$^1/_4$ SW$^1/_4$ sec. 5, T.14 N., R.9 E.	.38	.06
Johnson Creek below dam outlet SW$^1/_4$ SE$^1/_4$ sec. 16, T.14 N., R.9 E.	Trace	.02
Johnson Creek near Memphis (1 mi above Clear Creek) (Gage site 06804900) NW$^1/_4$ NW$^1/_4$ 4 sec. 35, T.14 N., R.9 E.	1.65	2.00
Clear Creek near Memphis NW$^1/_4$ NW$^1/_4$ sec. 14, T.13 N., R.9 E.	16.2	8.13
Clear Creek near Ashland NE $^1/_4$ NE $^1/_4$ sec. 35, T.13 N., R. 9 E.	16.8	10.7

Kansas River Basin

Low-flow investigations made in the Big Blue and Little Blue River Basins in Nebraska during water year 2000 to obtain data on ground-water/surface-water relations.

Location	Observation of zero flow or measured discharge (ft^3/s)
Big Blue River Basin	October 12, 1999
Big Blue River 1.5 miles north of DeWitt in $SW^1/_4$ $NE^1/_4$ sec. 12, T.5 N., R.4 E.	211
Clatonia Creek 1 mile northeast of DeWitt in $NW^1/_4$ $NW^1/_4$ sec. 17, T.5 N., R.5 E.	1.11
Turkey Creek 1.5 miles west of DeWitt in $SE^1/_4$ $NW^1/_4$ sec. 15, T.5 N., R.4 E	31.2
Turkey Creek 0.5 miles south of DeWitt in $SE^1/_4$ $NW^1/_4$ sec. 24, T.5 N., R.4 E.	32.0
Turkey Creek 1.5 miles southeast of DeWitt in $NW^1/_4$ $SW^1/_4$ sec. 29, T.5 N., R.5 E	35.4
Big Blue River 2.5 miles southeast of DeWitt in $NW^1/_4$ $NE^1/_4$ sec. 33, T.5 N., R.5 E	240
Soap Creek 3.5 miles southeast of DeWitt in $SE^1/_4$ $SW^1/_4$ sec. 27, T.5 N., R.5 E.	.27
Unnamed tributary to Big Blue River 1 mile north of Hoag in $NW^1/_4$ $NE^1/_4$ sec. 10, T.4 N., R.5 E	0
Snake Creek 2 miles northeast of Hoag in $NW^1/_4$ $NW^1/_4$ sec. 1, T.4 N., R.5 E	0
Big Blue River 1 mile east of Hoag in $NE^1/_4$ $NW^1/_4$ sec. 13, T.4 N.,R.5 E.	259
Cub Creek 2 miles south of Hoag in $SW^1/_4$ $SW^1/_4$ sec. 24, T.4 N., R.5 E	1.30
Bottle Creek 1.5 miles northwest of Beatrice in $NW^1/_4$ $SW^1/_4$ sec. 30, T.4 N., R.6 E	.08
Unnamed tributary to Big Blue River 0.5 miles northwest of Beatrice in $SW^1/_4$ $SW^1/_4$ sec. 29, T.4 N., R.6 E.	.29
Indian Creek at Beatrice in $SE^1/_4$ $SE^1/_4$ sec. 28, T.4 N., R.6 E	1.79
Big Blue River at Beatrice in $SW^1/_4$ $NW^1/_4$ sec. 3, T.3 N., R.6 E. (Gage)	270
Little Blue River Basin	October 7, 1999
Little Blue River 2.7 miles south of Alexandria in $SE^1/_4$ $SE^1/_4$ sec. 23, T.3 N., R.1 W.	70.8
Big Sandy Creek 0.8 miles south of Alexandria in $SE^1/_4$ $SE^1/_4$ sec. 11, T.3 N., R.1 W.	21.5
Big Sandy Creek 1.2 miles west of Powell in $SE^1/_4$ $SE^1/_4$ sec. 16, T.3 N., R.1 E	27.0
Little Blue River 1.2 miles southwest of Powell in $SE^1/_4$ $SE^1/_4$ sec. 22, T.3 N., R.1 E	94.4
Little Sandy Creek 2.0 miles east of Powell in $NW^1/_4$ $NE^1/_4$ sec. 19, T.3 N., R.2 E.	1.57
Whiskey Creek 2.1 miles northwest of Fairbury in $SW^1/_4$ $SE^1/_4$ sec. 33, T.3 N., R.2 E	.19
Little Blue River 1.3 miles northwest of Fairbury in $NW^1/_4$ $NE^1/_4$ sec. 9, T.2 N., R.2 E.	94.4
Trib. to Little Blue River 0.8 miles southwest of Fairbury in $NE^1/_4$ $SW^1/_4$ sec. 22, T.2 N., R.2 E.	0
Little Blue River 0.8 miles south of Fairbury in $NW^1/_4$ $NE^1/_4$ sec. 26, T.2 N., R.2 E. (Gage)	96.0
Brawner Creek 0.4 miles southeast of Fairbury in $SE^1/_4$ $NE^1/_4$ sec. 23, T.2 N., R.2 E.	.01
Rose Creek 4.0 miles southwest of Endicott in $NW^1/_4$ $NW^1/_4$ sec. 12, T.1 N., R.2 E.	8.96
Smith Creek 0.2 miles northwest of Endicott in $NW^1/_4$ $SE^1/_4$ sec. 5, T.1 N., R.3 E.	.24
Little Blue River 0.3 miles south of Endicott in $SE^1/_4$ $SW^1/_4$ sec. 4, T.1 N., R.3 E.	112
Rock Creek 0.3 miles southeast of Endicott in $SE^1/_4$ $SE^1/_4$ sec. 4, T.1 N., R.3 E	.23
Coon Creek 2.6 miles northwest of Steele City in $NW^1/_4$ $NE^1/_4$ sec. 15, T.1 N., R.3 E	.18
Little Blue River 0.5 miles south of Steele City in $NW^1/_4$ $NE^1/_4$ sec. 30, T.1 N., R.4 E.	124
Little Blue River 0.6 miles west of Hollenberg in $NE^1/_4$ $SW^1/_4$ sec. 8, T.1 S., R.4 E. (Gage)	117

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	HYDROLOGIC UNIT CODE	DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)
	06788495	DANE C AT ORD, NEBR. (LAT 41 36 31N LONG 098 56 36W)						
NOV 1999								
02...	06788495	DANE C AT ORD, NEBR.	41 36 31 N	098 56 36 W	10210007	991102	0900	.91
MAY 2000								
01...	06788495	DANE C AT ORD, NEBR.	41 36 31 N	098 56 36 W	10210007	000501	0750	2.2
	06788990	MIRA C AT NORTH LOUP, NEBR. (LAT 41 29 54N LONG 098 46 46W)						
NOV 1999								
02...	06788990	MIRA C AT NORTH LOUP, NEBR	41 29 54 N	098 46 46 W	10210007	991102	1045	1.7
MAY 2000								
01...	06788990	MIRA C AT NORTH LOUP, NEBR	41 29 54 N	098 46 46 W	10210007	000501	1020	5.4

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
			06788495	DANE C AT ORD, NEBR. (LAT 41 36 31N LONG 098 56 36W)							
NOV 1999											
02...	.87	1.57	637	7.9	964	5.0	4.5	440	131	27.9	21.7
MAY 2000											
01...	1.00	4.36	735	7.9	1110	10.0	11.0	500	146	33.9	30.0
			06788990	MIRA C AT NORTH LOUP, NEBR. (LAT 41 29 54N LONG 098 46 46W)							
NOV 1999											
02...	.71	2.33	520	8.1	805	9.5	3.5	370	106	25.2	14.9
MAY 2000											
01...	.71	7.53	520	8.1	822	16.0	17.5	360	98.7	27.5	20.6

DATE	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)
			06788495	DANE C AT ORD, NEBR. (LAT 41 36 31N LONG 098 56 36W)							
NOV 1999											
02...	.6	27.3	11	364	15.1	.2	42.8	134	.161	.21	3.61
MAY 2000											
01...	.6	32.1	11	359	15.8	.2	31.0	219	2.33	3.00	1.12
			06788990	MIRA C AT NORTH LOUP, NEBR. (LAT 41 29 54N LONG 098 46 46W)							
NOV 1999											
02...	.6	28.1	14	392	11.0	.2	44.6	50.2	.082	.11	.498
MAY 2000											
01...	.8	33.2	16	344	14.4	.3	22.0	93.7	.329	.42	.189

DATE	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3) (71851)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2) (71856)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	BORON, DISSOLVED (UG/L AS B) (01020)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
			06788495	DANE C AT ORD, NEBR. (LAT 41 36 31N LONG 098 56 36W)							
NOV 1999											
02...	16.0	3.68	.240	.073	1.03	.342	.336	8.8	81	30	223
MAY 2000											
01...	4.96	1.22	.322	.098	2.77	.980	.902	8.7	86	20	1070
			06788990	MIRA C AT NORTH LOUP, NEBR. (LAT 41 29 54N LONG 098 46 46W)							
NOV 1999											
02...	2.20	.508	.033	.010	1.17	.389	.382	6.0	101	E10	728
MAY 2000											
01...	.837	.206	.056	.017	.957	.351	.312	5.3	87	<10	1050

CHEMICAL ANALYSES OF SURFACE WATER

NIOBRARA RIVER SURFACE-WATER QUALITY

(Local identifier: indicates location by township, range, and section)

COUNTIES.--Brown, Cherry, and Keya Paha Counties

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	DATE	TIME
		CHERRY COUNTY			
06460800	NIOBRARA RIVER AT BORMAN BRIDGE	42 51 08 N	100 31 16 W	05-31-00	0800
				06-14-00	0830
				07-05-00	1630
				07-17-00	1630
				08-01-00	1520
				08-14-00	1440
				09-06-00	1450
				09-19-00	1550
06461499	NIOBRARA RIVER UPSTREAM OF BERRY BRIDGE	42 54 10 N	100 21 42 W	05-31-00	1030
				07-06-00	0720
				07-18-00	0710
				08-02-00	0710
				08-15-00	0720
				09-07-00	0730
				09-20-00	0800
06461500	NIOBRARA RIVER NEAR SPARKS	42 54 10 N	100 21 40 W	05-31-00	1100
				06-14-00	1130
				07-06-00	0820
				07-18-00	0740
				08-02-00	0820
				08-15-00	0820
				09-07-00	0810
				09-20-00	0900
06461600	NIOBRARA RIVER AT BREWER BRIDGE	42 52 34 N	100 15 59 W	05-31-00	1330
				06-14-00	1430
				07-06-00	0940
				07-18-00	0900
				08-02-00	0950
				08-15-00	1030
				09-06-00	1230
				09-19-00	1410
		BROWN/KEYA PAHA COUNTIES			
06462000	NIOBRARA RIVER NR NORDEN	42 47 13 N	100 02 06 W	05-31-00	1540
				06-14-00	1630
				07-05-00	1400
				07-17-00	1410
				08-01-00	1310
				08-14-00	1230
				09-06-00	1040
				09-19-00	1240

CHEMICAL ANALYSES OF SURFACE WATER

NIOBRARA RIVER SURFACE-WATER QUALITY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DRAIN-AGE AREA (SQ. MI.) (81024)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
				CHERRY COUNTY					
05-31-00	--	--	691	8.7	--	8.3	254	--	190
06-14-00	--	--	--	--	--	--	--	--	150
07-05-00	--	--	691	9.3	--	8.9	232	--	K26
07-17-00	--	--	--	8.3	--	8.5	222	26.0	K23
08-01-00	--	--	693	9.0	124	8.9	215	26.5	K35
08-14-00	--	--	690	8.4	123	8.8	221	30.0	K20
09-06-00	--	--	689	8.1	112	8.6	220	26.5	100
09-19-00	--	--	686	8.8	105	8.7	214	18.5	K48
05-31-00	--	--	694	9.4	--	8.3	262	--	160
07-06-00	--	--	693	7.3	--	8.3	236	--	90
07-18-00	--	--	--	7.7	--	8.4	230	21.5	K44
08-02-00	--	--	695	7.1	88	8.7	226	21.0	100
08-15-00	--	--	700	7.2	91	8.6	226	22.5	83
09-07-00	--	--	699	8.0	90	8.7	224	17.0	110
09-20-00	--	--	694	9.4	98	8.7	224	13.0	K49
05-31-00	7150	2288	695	9.4	--	8.3	259	--	180
06-14-00	7150	2288	--	--	--	8.2	239	--	90
07-06-00	7150	2288	694	7.7	--	8.5	247	--	93
07-18-00	7150	2288	--	7.6	--	8.4	229	21.5	77
08-02-00	7150	2288	696	7.6	94	8.6	228	21.0	93
08-15-00	7150	2288	700	7.7	97	8.6	226	22.5	97
09-07-00	7150	2288	700	8.2	94	8.5	222	17.5	90
09-20-00	7150	2288	695	9.6	100	8.6	218	13.0	K42
05-31-00	--	--	696	9.3	--	8.3	260	--	K170
06-14-00	--	--	--	--	--	8.3	236	--	67
07-06-00	--	--	695	8.1	--	8.8	252	--	97
07-18-00	--	--	--	7.2	--	8.4	229	22.0	K56
08-02-00	--	--	697	8.3	105	8.7	226	22.5	77
08-15-00	--	--	703	8.8	112	8.7	222	23.0	83
09-06-00	--	--	694	10.8	141	8.8	220	24.0	K23
09-19-00	--	--	691	10.3	122	8.7	219	18.5	K45
				BROWN/KEYA PAHA COUNTIES					
05-31-00	8390	2109	699	9.4	--	8.3	260	--	200
06-14-00	8390	2109	--	--	--	8.3	254	--	54
07-05-00	8390	2109	699	8.5	--	8.3	238	--	460
07-17-00	8390	2109	--	8.7	--	8.3	228	24.0	K16
08-01-00	8390	2109	701	8.2	112	8.8	226	27.0	K84
08-14-00	8390	2109	697	7.9	114	9.0	221	29.5	K30
09-06-00	8390	2109	698	8.9	114	8.6	228	23.0	K22
09-19-00	8390	2109	695	9.3	110	8.7	226	19.0	K68

GROUND-WATER LEVELS

ADAMS COUNTY

403403098244001. Local number 7N 10W 23AB.

LOCATION.--Lat 40°34'03", long 098°24'40", NW 1/4 NE 1/4 sec.23, T.7 N., R.10 W., Hydrologic Unit 10270206, 0.5 mi west of the west junction of Routes 281 and 6, in the south part of Hastings. Owner: Henry Fricke.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled unused irrigation water-table well, diameter 8 in., depth 155 ft, casing perforated below water table.

DATUM.--Altitude of land-surface datum is 1,927 ft. Measuring point: Top of casing 1.0 ft above land-surface datum.

REMARKS.--Large amounts of ground water are pumped from municipal and industrial wells located east and northeast of the well and from irrigation wells in other directions.

PERIOD OF RECORD.--August 1934 to October 1938; August 1948 to December 1950; January 1951 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 99.95 ft below land-surface datum, Jan. 22, Mar.14, 1935; lowest, 128.82 ft below land-surface datum, July 10, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12	111.06	JAN 06	110.18	MAR 09	109.67	MAY 08	109.21	JUL 12	113.44	SEP 06	111.96
DEC 08	110.23	FEB 01	109.89	APR 11	109.56	JUN 07	109.45	AUG 08	114.05		

WATER YEAR 2000 HIGHEST 109.21 MAY 08, 2000 LOWEST 114.05 AUG 08, 2000

BLAINE COUNTY

414958100061501. Local number 22N 24W 33CA.

LOCATION.--Lat 41°49'58", long 100°06'15", NE 1/4 SW 1/4 sec. 33, T. 22 N., R. 24 W., Hydrologic Unit 10210001, approxmately 500 ft west of junction of State Highways 91 and 2 north of Dunning. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 1 in., depth 13 ft, screened 11 to 13 ft.

DATUM.--Altitude of land-surface datum is 2,618 ft. Measuring point: Top of casing 1.40 ft above land-surface datum.

PERIOD OF RECORD.--December 1934 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.04 ft below land-surface datum, Mar. 8, 1950; lowest, 6.97 ft below land-surface datum, Aug. 8, 1951.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL
APR 26	4.20

BOONE COUNTY

413323098074501. Local number 18N 7W 4CA.

LOCATION.--Lat 41°33'23", long 098°07'45", NE 1/4 SW 1/4 sec.4, T.18 N., R.7 W., Hydrologic Unit 10210010, at junction of State Highways 52 and 56 approximately 1 mi east of Cedar Rapids. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 1 in., depth 22 ft, screened 20 to 22 ft.

DATUM.--Altitude of land-surface datum is 1,762 ft. Measuring point: Top of casing 2.90 ft above land-surface datum.

PERIOD OF RECORD.--November 1936 to October 1942; April 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.15 ft below land-surface datum, May 17, 1984; lowest, 15.17 ft below land-surface datum, Oct. 26, 1940.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL
MAY 04	11.53

GROUND-WATER LEVELS

BOX BUTTE COUNTY

420945102551501. Local number 25N 48W 4DDD.

LOCATION.--Lat 42°09'45", long 102°55'15", SE ¼ SE ¼ SE ¼ sec.4, T.25 N., R.48 W., Hydrologic Unit 10150003, approximately 3.6 mi south and 2.8 mi east of Berea. Owner: U.S. Geological Survey.

AQUIFER.--Marsland Formation of Miocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 1.25 in., depth 204 ft, screened 190 to 193 ft.

DATUM.--Altitude of land-surface datum is 4,032.95 ft. Measuring point: Top of pipe 3.00 ft above land-surface datum.

REMARKS.--Water levels in vicinity of well are affected by large withdrawals of ground water for irrigation use. Casing was broken off below the land surface during the summer of 1986. Well was cleaned and repaired during the spring of 1988.

PERIOD OF RECORD.--April 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 63.14 ft below land-surface datum, Jan. 25, 1950; lowest, 111.57 ft below land-surface datum, Oct. 25, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	111.57	APR 05	109.70

WATER YEAR 2000 HIGHEST 109.70 APR 05, 2000 LOWEST 111.57 OCT 25, 1999

BUFFALO COUNTY

404618098504401. Local number 9N 14W 1DC.

LOCATION.--Lat 40°46'18", long 098°50'44", SW ¼ SE ¼ sec.1, T.9 N., R.14 W., Hydrologic Unit 10200102, 1.3 mi north of the intersection of Route 30 and the North-South range-line road on the east side of Gibbon, then 0.5 mi west on section-line road. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in., depth 38 ft, casing perforated below water table.

DATUM.--Altitude of land-surface datum is 2,060.43 ft. Measuring point: Top of casing 0.80 ft above land-surface datum.

REMARKS.--Water levels in well are affected by pumpage from nearby irrigation wells.

PERIOD OF RECORD.--July 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.17 ft below land-surface datum, July 13, 1999; lowest, 29.22 ft below land-surface datum, Aug. 10, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum daily water-level depth below land surface, 19.84 ft, Aug. 31, Sept. 1; minimum daily water-level depth below land surface, 14.18 ft, May 17.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.75	14.73	14.72	14.73	14.78	14.53	14.42	14.33	14.47	16.44	18.22	19.72
10	14.80	14.69	14.70	14.67	14.69	14.68	14.49	14.29	14.30	17.86	18.82	19.66
15	14.69	14.75	14.70	14.73	14.72	14.65	14.43	14.37	14.48	17.72	18.97	19.70
20	14.73	14.70	14.77	14.76	14.73	14.59	14.51	14.35	15.45	18.02	19.31	19.60
25	14.68	14.74	14.76	14.81	14.46	14.59	14.47	14.38	15.11	18.26	19.46	19.55
EOM	14.74	14.78	14.67	14.71	14.65	14.58	14.40	14.41	15.82	17.74	19.84	19.42

404345098560001. Local number 9N 14W 19DD.

LOCATION.--Lat 40°43'45", long 098°56'10", SE ¼ SE ¼ sec. 19, T.9 N., R.14 W., Hydrologic Unit 10200102, 4.7 mi west-southwest of Gibbon on U.S. Highway 30. Owner: Robert D. Lewis.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 24 in., depth 54 ft, casing perforated below water table.

DATUM.--Altitude of land-surface datum is 2,103.75 ft. Measuring point: Hole in pump base 0.33 ft above land-surface datum.

REMARKS.--Water levels in well are affected by pumping of well and of nearby wells for irrigation supplies.

PERIOD OF RECORD.--October 1930 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.55 ft below land-surface datum, June 9, 1931; lowest, 35.20 ft below land-surface datum, Aug. 30, 1974.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL
APR 21	22.67

GROUND-WATER LEVELS

BUTLER COUNTY

410612096592601. Local number 13N 4E 17ABA.

LOCATION.--Lat 41°06'12", long 096°59'26", NE ¼ NW ¼ NE ¼ sec.17, T.13 N., R. 4 E., Hydrologic Unit 10200203, approximately 2.5 mi east and 2.0 mi north of Dwight. Owner: Lower Platte South and Upper Big Blue NRDs.

AQUIFER.--Sand and gravel Pleistocene Age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in., depth 437 ft, casing perforated 377 to 437 ft.

DATUM.--Altitude of land-surface datum is 1,605 ft. Measuring point: Top of casing 1.5 ft above land-surface datum.

PERIOD OF RECORD.--July 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 148.78 ft below land-surface datum, May 5, 1987; lowest, 252.26 ft below land-surface datum, Aug. 12, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum water-level depth below land surface, 204.48 ft, Aug. 19; minimum water-level depth below land surface, 162.79 ft, May 11, 12, 13, 14.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	175.87	170.78	167.77	165.68	164.42	163.53	163.16	162.80	163.25	172.30	191.67	169.00
10	174.88	170.18	167.36	165.49	164.32	163.46	163.14	162.80	163.53	174.59	196.18	169.70
15	173.98	169.58	167.05	165.20	164.13	163.39	163.03	162.89	164.22	177.28	200.88	170.21
20	173.08	169.08	166.64	165.00	164.03	163.42	163.02	162.98	165.63	180.57	165.19	170.51
25	172.28	168.68	166.33	164.81	163.90	163.35	162.92	163.07	167.83	183.66	166.49	170.62
EOM	171.38	168.18	166.00	164.61	163.72	163.18	162.91	163.16	170.04	187.97	168.10	170.51

CHASE COUNTY

403220101384001. Local number 7N 38W 28CC.

LOCATION.--Lat 40°32'20", long 101°38'40", SW ¼ SW ¼ sec.28, T.7 N., R.38 W., Hydrologic Unit 10250005, about 0.5 mi north of Imperial. Owner: Roy Hust.

AQUIFER.--Ogallala Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled unused observation water-table well, diameter 18 in., depth 143 ft, casing perforated below water table.

DATUM.--Altitude of land-surface datum is 3,284.6 ft. Measuring point: Top of casing 0.30 ft above land-surface datum.

REMARKS.--Recording gage was installed on this well from December 1948 to December 1963. Water levels in well are affected by irrigation pumpage in area.

PERIOD OF RECORD.--December 1944; December 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 72.82 ft below land-surface datum, June 29, 1964; lowest measured, 110.26 ft below land-surface datum, Oct. 15, 1991.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL
MAY 24	107.98

403235101395501. Local number 7N 38W 29CBB.

LOCATION.--Lat 40°32'35", long 101°39'55", NW ¼ NW ¼ SW ¼ sec.29, T.7 N., R.38 W., Hydrologic Unit 10250005, 0.5 mi north and 1 mi west of Imperial on U.S. Highway 6, then 0.5 mi north on gravel road. Owner: U.S. Geological Survey.

AQUIFER.--Ogallala Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 5.50 in., depth 230 ft, perforated 190 to 230 ft.

DATUM.--Altitude of land-surface datum is 3,290.30 ft. Measuring point: Top of casing 0.50 ft above land-surface datum.

REMARKS.--Water levels in well are affected by irrigation pumpage in area.

PERIOD OF RECORD.--June 1964 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 55.87 ft below land-surface datum, July 4, 1964; lowest, 98.30 ft below land-surface datum, July 31, Aug. 1, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum water-level depth below land surface, 100.33 ft, Aug. 29; minimum water-level depth below land surface, 93.99 ft, Apr. 12, 13.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	96.49	96.27	96.00	95.31	94.97	94.53	94.12	95.24	95.00	98.00	99.34	98.98
10	96.54	96.18	95.77	95.29	94.85	94.63	94.14	94.26	95.52	98.65	99.94	98.95
15	96.43	96.13	95.76	95.16	94.86	94.49	94.09	94.31	96.46	98.94	100.19	98.94
20	96.36	96.12	95.67	95.15	94.82	94.38	94.96	94.68	96.97	98.95	99.33	98.86
25	96.30	96.02	95.56	95.13	94.62	94.37	94.38	94.94	97.63	99.30	99.44	98.85
EOM	96.35	95.95	95.44	94.99	94.66	94.36	94.46	94.89	96.68	99.27	99.05	98.60

GROUND-WATER LEVELS

CHERRY COUNTY

423205100321501. Local number 30N 28W 36AAA.

LOCATION.--Lat 42°32'05", long 100°32'15", NE ¼ NE ¼ NE ¼ sec. 36, T.30 N., R.28 W., Hydrologic Unit 10150004, 8 mi south of the intersection of U.S. Highway 83 and State Highway 483, south of Valentine. Owner: U.S. Geological Survey.

AQUIFER.--Sand deposits of Pleistocene age.

WELL CHARACTERISTICS.--Bored observation water-table well, diameter 1.25 in., depth 12.25 ft, casing perforated below water table.

DATUM.--Altitude of land-surface datum is 2,897.26 ft. Measuring point: Top of casing 3.00 ft above land-surface datum.

REMARKS.--Water levels affected by evapotranspiration.

PERIOD OF RECORD.--October 1961 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, +0.30 ft above land-surface datum, Feb. 6, 1985. Lowest, 1.99 ft below land-surface datum, Oct. 4, 1976.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL
MAY 03	.95

COLFAX COUNTY

412810097054501. Local number 17N 3E 4CC.

LOCATION.--Lat 41°28'10", long 097°05'45", SW ¼ SW ¼ , sec. 4, T.17 N., R.3 E., Hydrologic Unit 10200201, 2 mi west and 1 mi north of intersection of U.S. Highway 30 and State Highway 15 in Schuyler. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in., depth 16 ft, screened 14 to 16 ft.

DATUM.--Altitude of land-surface datum is 1,370.58 ft. Measuring point: Top of casing 1.00 ft above land-surface datum.

PERIOD OF RECORD.--September 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.70 ft below land-surface datum, May. 9, 1995; lowest, 10.68 ft below land-surface datum, Oct. 29, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	6.68	MAR 29	6.23

WATER YEAR 2000 HIGHEST 6.23 MAR 29, 2000 LOWEST 6.68 OCT 18, 1999

DAWES COUNTY

424100103243501. Local number 31N 52W 3DC.

LOCATION.--Lat 42°41'00", long 103°24'35", SW¼ SE¼ sec.3, T.31 N., R.52 W., Hydrologic Unit 10140201, behind house at 312 Annin Street in Crawford. Owner: T. P. Moody.

AQUIFER.--Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in., depth 39 ft, casing perforated below water table.

DATUM.--Altitude of land-surface datum is 3,685 ft. Measuring point: Edge of iron plate at land-surface datum.

PERIOD OF RECORD.--August 1934 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.87 ft below land-surface datum, May 30, 1948; lowest, 22.60 ft below land-surface datum, Nov. 5, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	19.93	MAR 29	19.60

WATER YEAR 2000 HIGHEST 19.60 MAR 29, 2000 LOWEST 19.93 OCT 18, 1999

GROUND-WATER LEVELS

DAWSON COUNTY

404949099445701. Local number 10N 21W 18DDD.

LOCATION.--Lat 40°49'49", long 099°44'57", SE ¼ SE ¼ SE ¼ sec. 18, T. 10 N., R. 21 W., Hydrologic Unit 10200101, 3.5 mi north of the intersection of Route 21 and U.S. Highway 30 in Lexington. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 120 ft, casing perforated below water table.

DATUM.--Altitude of land-surface datum is 2,420.58 ft. Measuring point: Top of casing 0.50 ft above land-surface datum.

REMARKS.--Water levels in well affected by pumpage from nearby irrigation wells and by seepage from irrigation canals.

PERIOD OF RECORD.--July 1964 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.20 ft below land-surface datum, July 24-25, 1993; lowest, 21.50 ft below land-surface datum, July 16, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily water-level depth below land surface, 14.04 ft, June 26; minimum daily water-level depth below land surface, 9.20 ft, Oct. 1.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.30	10.16	---	---	11.32	11.53	11.72	11.89	10.72	10.97	10.63	9.61
10	9.52	10.31	---	---	11.39	11.59	11.74	11.88	10.73	12.02	11.63	9.88
15	9.68	10.38	---	11.16	11.42	11.61	11.82	11.95	10.74	12.84	12.11	10.17
20	9.75	---	---	11.18	11.46	11.62	11.84	11.87	10.96	11.66	10.75	10.44
25	9.92	---	---	11.25	11.49	11.63	11.85	11.62	13.91	11.66	9.93	10.52
EOM	10.05	---	---	11.29	11.52	11.67	11.88	10.95	12.35	10.53	9.37	10.66

DUNDY COUNTY

400155101521302. Local number 1N 40W 29BB2.

LOCATION.--Lat 40°01'55", long 101°52'13", NW ¼ NW ¼ sec.29, T.1 N., R.40 W., Hydrologic Unit 10250002, 3.5 mi east of Haigler on U.S. Highway 34 and 0.5 mi north. Well is within 0.5 mi of Republican River. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 48.8 ft, casing perforated below water table.

DATUM.--Altitude of land-surface datum is 3,205 ft. Measuring point: South side of casing 1.6 ft above land-surface datum.

REMARKS.--Replacement for well 400155101521301, local number 1N 40W 29BB1 with period of record from May 1946 to June 1975. Water levels in well are affected by pumping from nearby irrigation wells, evapotranspiration, and changes in stage of Republican River.

PERIOD OF RECORD.--October 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 15.41 ft below land-surface datum, June 21, 1984; lowest, 29.52 ft below land-surface datum, Aug. 22, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum water-level depth below land surface, 29.52 ft, Aug. 22; minimum water-level depth below land surface, 18.08 ft, Apr. 22.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.90	19.95	19.55	19.08	18.74	18.46	18.25	18.27	21.45	27.74	26.77	22.88
10	20.52	19.81	19.44	19.03	18.70	18.47	18.24	23.27	26.62	22.90	27.27	22.55
15	20.10	21.16	19.38	18.96	18.67	18.44	18.19	20.38	25.86	24.88	28.78	24.01
20	24.12	20.07	19.30	18.94	18.61	18.41	18.19	23.73	27.50	27.46	29.26	27.89
25	21.51	19.79	19.23	18.89	18.56	18.36	18.15	24.72	21.75	27.25	23.61	22.61
EOM	20.25	19.65	19.14	18.80	18.54	18.32	18.54	24.81	26.73	26.79	23.09	22.14

GROUND-WATER LEVELS

FILLMORE COUNTY

402504097432201. Local number 5N 4W 12BDC.

LOCATION.--Lat 40°25'04", long 097°43'22", SW ¼ SE ¼ NW ¼ sec.12, T. 5 N., R. 4 W., Hydrologic Unit 10270206, one-half block south of fire station on principal north-south street in Shickley. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 5 in., depth 260.0 ft, perforated 100 to 260 ft.

DATUM.--Altitude of land-surface datum is 1651 ft. Measuring point: Top of casing 2.45 ft above land-surface datum.

REMARKS.--Replacement for 402450097434001, local number 5N 4W 12BC, period of record October 1956 to September 1977. Water levels in well affected by pumping from nearby municipal and irrigation wells.

PERIOD OF RECORD.--June 1977 to corrent year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 90.53 ft below land-surface datum, May 4, 1999; lowest, 101.45 ft (corrected) below land-surface datum, Sept. 15, 1991 (corrected).

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07	93.49	JAN 05	91.91	MAR 01	91.35	MAY 10	90.65	JUL 11	93.27	AUG 30	95.59
DEC 08	92.67	FEB 01	91.88	MAY 02	90.43	JUN 06	91.01	AUG 07	94.84		

WATER YEAR 2000 HIGHEST 90.43 MAY 02, 2000 LOWEST 95.59 AUG 30, 2000

403800097300701. Local number 8N 2W 26AD.

LOCATION.--Lat 40°38'00", long 097°30'07", SE ¼ NE ¼ sec.26, T.8 N., R.2 W., Hydrologic Unit 10270203, 2.5 mi west on Route 6 from the principal street of Exeter, then 0.4 mi south. Owner: U.S. Geological Survey.

AQUIFER.--Loess of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in., depth 40 ft, perforated 25 to 40 ft.

DATUM.--Altitude of land-surface datum is 1,610 ft. Measuring point: Top of casing at land-surface datum.

REMARKS.--Perched aquifer, water levels affected by infiltration and deep percolation of applied irrigation water pumped from deeper aquifer.

PERIOD OF RECORD.--October 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.03 ft below land-surface datum, Mar. 24, 1987; lowest, 24.16 ft below land-surface datum, July 10, 1958.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07	8.57	JAN 05	9.00	MAR 09	9.09	MAY 02	9.26	JUL 11	7.85	SEP 06	10.04
DEC 02	8.78	FEB 03	9.14	APR 10	9.14	JUN 07	9.54	AUG 07	8.00		

WATER YEAR 2000 HIGHEST 7.85 JUL 11, 2000 LOWEST 10.04 SEP 06, 2000

GARFIELD COUNTY

414718099083201. Local number 21N 16W 14CB.

LOCATION.--Lat 41°47'18", long 099°08'32", NW ¼ SW ¼ sec.14, T.21 N., R.16 W., Hydrologic Unit 10210007, 5 mi east and 1 mi north of Burwell. Owner: Frank Smolik.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 18 in., depth 154 ft, casing perforated below water table.

DATUM.--Altitude of land-surface datum is 2,174 ft. Measuring point: Hole in turbine base 2.00 ft above land-surface datum.

REMARKS.--Water levels affected by pumping during irrigation season.

PERIOD OF RECORD.--October 1950 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.07 ft below land-surface datum, Oct. 13, 1983; lowest, 24.92 ft below land-surface datum, Oct. 28, 1959.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04	22.78	MAY 03	24.67

WATER YEAR 2000 HIGHEST 22.78 OCT 04, 1999 LOWEST 24.67 MAY 03, 2000

GOSPER COUNTY

403626099451401. Local number 7N 21W 6BC.

LOCATION.--Lat 40°36'26", long 099°45'14", SW ¼ NW ¼ sec. 6, T.7 N., R.21 W., Hydrologic Unit 10200101, 1 mi west and 2 mi north of Smithfield. Owner: Andy Larson Estate.

AQUIFER.--Ogallala Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 4 in., depth 132 ft, casing perforated below water table.

DATUM.--Altitude of land-surface datum is 2,466.95 ft. Measuring point: Top of casing 0.40 ft above land-surface datum.

REMARKS.--Water levels in well affected by pumping from nearby irrigation wells and by infiltration and deep percolation from nearby irrigation canal.

PERIOD OF RECORD.--September 1934 to July 1940; January 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.92 ft below land-surface datum, May 10, 2000; lowest, 117.80 ft below land-surface datum, Sept. 26, 1935.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL
MAY 10	30.92

HALL COUNTY

405315098304302. Local number 11N 11W 25CC2.

LOCATION.--Lat 40°53'15", long 098°30'43", SW ¼ SW ¼ sec.25, T.11 N., R.11 W., Hydrologic Unit 10200103, 1.0 mi north and 2.0 mi west of Alda. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 65 ft, casing perforated below water table.

DATUM.--Altitude of land-surface datum is 1,924.0 ft. Measuring point: Top of casing 2.00 ft above land-surface datum.

REMARKS.--Replacement for 405315098304301, local number 11N 11W 25°CC, period of record October 1946 to November 1977. Water levels in wells affected by pumping from nearby wells during irrigation season.

PERIOD OF RECORD.-- April 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.12 ft below land-surface datum, June 27, 29, 1999; lowest, 25.98 ft below land-surface datum, Aug. 31, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily water-level depth below land surface, 15.05 ft, Sept. 25, 28; minimum daily water-level depth below land surface, 11.85 ft, Oct. 7.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.88	11.96	12.03	12.09	12.18	12.16	12.22	12.27	12.37	13.34	14.07	14.86
10	11.92	11.98	12.05	12.08	12.17	12.24	12.25	12.28	12.41	13.54	14.12	14.89
15	11.89	12.00	12.05	12.11	12.18	12.23	12.25	12.31	12.51	13.68	14.25	14.96
20	11.93	12.00	12.08	12.14	12.21	12.23	12.30	12.31	12.69	13.90	14.43	15.00
25	11.92	12.01	12.09	12.17	12.10	12.25	12.31	12.29	12.87	13.98	14.55	15.05
EOM	11.96	12.05	12.05	12.17	12.18	12.25	12.29	12.32	13.06	14.09	14.72	15.01

GROUND-WATER LEVELS

HAMILTON COUNTY

404836097584101 Local number 10N 6W 27ACAA.

LOCATION.--Lat 40°48'36", long 097°58'41", NE ¼ NE ¼ SW¼ NE ¼ sec.27, T.10 N., R.6 W., Hydrologic Unit 10270203, 4.0 mi south of junction of Route 14 and U.S. Highway 34 in Aurora, then 1.0 mi east and 0.3 mi south. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of the Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 170 ft, casing perforated below water-table.

DATUM.--Altitude of land surface datum is 1791.3 ft. Measuring point: Top of casing 1.5 ft above land surface datum.

REMARKS.--Replacement for well 404825097583301. Local number 10N-6W-26BC with period of record March 1956 to March 1982 located across the county road to the east.

PERIOD OF RECORD.--October 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 82.31 ft below land-surface datum, June 5, 2000; lowest, 107.40 ft below land-surface datum, Aug. 24, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12	85.74	FEB 01	83.77	JUN 05	82.31	AUG 31	89.51	SEP 20	88.49		
15	85.27	MAR 06	83.13	JUL 10	85.38	SEP 05	91.17	25	89.03		
DEC 07	84.52	APR 11	82.84	AUG 03	86.62	10	88.94	30	89.51		
JAN 06	84.10	MAY 01	82.50	25	89.03	15	88.74				

WATER YEAR 2000 HIGHEST 82.31 JUN 05, 2000 LOWEST 91.17 SEP 05, 2000

405514097573901. Local number 11N 6W 13CB.

LOCATION.--Lat 40°55'14", long 097°57'39", NW ¼ SW ¼ sec.13, T.11 N., R.6 W., Hydrologic Unit 10270201, 2 mi east and 3.5 mi north of Aurora. Owner: O. S. Swedberg.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 24 in., depth 194 ft, casing perforated below water table.

DATUM.--Altitude of land-surface datum is 1,812.2 ft. Measuring point: Hole in south side turbine base at land-surface datum.

REMARKS.--Water levels affected by pumping during irrigation season.

PERIOD OF RECORD.--September 1934 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 89.30 ft below land-surface datum, May 15, 1995; lowest, 117.18 ft below land-surface datum, Nov. 15, 1976.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL
MAR 16	90.67

HARLAN COUNTY

400920099215501. Local number 2N 18W 9BCC.

LOCATION.--Lat 40°09'20", long 099°21'55", SW ¼ SW ¼ NW ¼ sec. 9, T.2 N., R.18 W., Hydrologic Unit 10250009, 3.5 mi north of the junction of Route 3 and U.S. Highway 183 in Alma. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 5.50 in., depth 170 ft, perforated from 140 to 170 ft.

DATUM.--Altitude of land-surface datum is 2,120 ft. Measuring point: Top of casing 0.50 ft above land-surface datum.

REMARKS.--Water levels affected by pumping from nearby wells during irrigation season.

PERIOD OF RECORD.--June 1964 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 84.39 ft below land-surface datum, May 11, 1966; lowest, 109.96 ft below land-surface datum, Sept. 15, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum water-level depth below land surface, 108.59 ft, Aug. 17, 18; minimum water-level depth below land surface, 88.23 ft, Apr. 19.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	89.60	89.38	89.24	89.78	88.85	89.14	88.37	88.43	91.98	91.88	104.55	94.84
10	89.61	90.06	89.15	89.75	89.15	88.78	88.42	89.62	94.01	103.09	104.20	92.66
15	89.47	89.33	89.07	89.69	89.31	88.60	88.40	93.37	98.43	105.53	107.23	92.46
20	89.50	89.56	89.05	89.40	88.80	88.52	88.53	88.60	93.96	---	103.60	91.56
25	89.39	89.50	89.03	88.96	88.57	88.55	88.43	89.59	89.53	95.31	106.22	91.37
EOM	89.44	89.36	89.17	88.84	89.01	88.55	92.53	92.89	91.29	102.60	102.61	90.95

GROUND-WATER LEVELS

HOLT COUNTY

421605098203001. Local number 27N 9W 34DA.

LOCATION.--Lat 42°16'05", long 098°20'30", NE ¼ SE ¼ sec.34, T.27 N., R.9 W., Hydrologic Unit 10220001, 0.5 mi north of Ewing. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 1 in., depth 17 ft, screened 15 to 17 ft.

DATUM.--Altitude of land-surface datum is 1,841 ft. Measuring point: Top of casing 1.10 ft above land-surface datum.

PERIOD OF RECORD.--December 1934 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.34 ft below land-surface datum, Apr. 9, 1984; lowest, 9.90 ft below land-surface datum, Sept. 1, 1948.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 08	8.95	MAY 08	8.58

WATER YEAR 2000 HIGHEST 8.58 MAY 08, 2000 LOWEST 8.95 OCT 08, 1999

423148098300601. Local number 30N 10W 32DAA.

LOCATION.--Lat 42°31'48", long 098°30'06", NE ¼ NE ¼ SE ¼ sec.32, T.30 N., R.10 W., Hydrologic Unit 10150007, 2 mi east on paved road from O'Neill, then 2 mi north, 4 mi east, 2 mi north, 2 mi east, and 0.5 mi north. Owner: William J. Murphy.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in., depth 85 ft, perforated 25.5 to 85 ft.

DATUM.--Altitude of land-surface datum is 1,952 ft. Measuring point: Top of casing 1.00 ft above land-surface datum.

REMARKS.--Water levels in this well affected by withdrawals by nearby irrigation wells completed in this aquifer and withdrawals from a deeper aquifer which has resulted in water movement from the upper aquifer to the deeper aquifer.

PERIOD OF RECORD.--October 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 35.41 ft below land-surface datum, Oct. 21, 1966; lowest, 53.72 ft below land-surface datum, Sept. 15, 20, 25, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum water-level depth below land surface, 41.83 ft, July 31; minimum water-level depth below land surface, 40.05 ft, May 11.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	41.69	41.41	41.15	40.87	40.70	40.42	40.28	40.11	40.25	40.88	---	---
10	41.65	41.33	41.08	40.83	40.64	40.48	40.26	40.13	40.26	41.02	---	---
15	41.56	41.30	41.03	40.84	40.63	40.45	40.23	40.22	40.33	41.16	---	---
20	41.52	41.27	41.03	40.80	40.58	40.37	40.25	40.21	40.45	41.38	---	---
25	41.47	41.19	40.97	40.77	40.45	40.37	40.20	40.21	40.58	41.57	---	---
EOM	41.44	41.20	40.92	40.69	40.50	40.35	40.16	40.20	40.70	---	---	---

423730098560001. Local number 31N 14W 27DDD.

LOCATION.--Lat 42°37'30", long 098°56'00", SE ¼ SE ¼ SE ¼ sec.27, T.31 N., R.14 W., Hydrologic Unit 10150007, 6 mi north from Atkinson on Route 11, then 2 mi east. Owner: Elmer Goldfuss.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in., depth 72 ft, perforated 32 to 72 ft.

DATUM.--Altitude of land-surface datum is 2,080 ft. Measuring point: Top of casing at land-surface datum.

REMARKS.--Water levels in well affected by pumping of nearby wells during irrigation season.

PERIOD OF RECORD.--July 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 28.72 ft below land-surface datum, July 3, 1995; lowest, 43.30 ft below land-surface datum, Sept. 10, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum water-level depth below land surface, 35.64 ft, Sept. 5, 6, 7, 8; minimum water-level depth below land surface, 30.39 ft, Apr. 19, 20.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEP	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	31.71	31.11	30.83	30.64	30.55	30.47	30.42	30.49	30.73	31.42	33.60	35.64
10	31.56	31.04	30.79	30.59	30.51	30.50	30.44	30.59	30.79	31.69	33.98	35.62
15	31.44	31.00	30.73	30.62	30.51	30.47	30.42	30.70	30.88	32.08	34.42	35.58
20	31.35	30.95	30.72	30.59	30.52	30.44	30.43	30.73	30.92	32.45	34.84	35.49
25	31.26	30.90	30.70	30.58	30.46	30.45	30.46	30.71	31.06	32.76	35.11	35.43
EOM	31.19	30.90	30.65	30.55	30.49	30.45	30.48	30.70	31.10	33.20	35.51	35.35

GROUND-WATER LEVELS

HOOKER COUNTY

420204101200502. Local number 24N 35W 23DC2.

LOCATION.--Lat 42°02'04", long 101°20'05", SW ¼ SE ¼ sec.23, T.24 N., R.35 W., Hydrologic Unit 10210001, Approximately 5.2 mi west of Heclaon the south side of State Highway 2. Owner: U.S. Geological Survey.

AQUIFER.--Fine sand of Pleistocene age.

WELL CHARACTERISTICS.--Driven observation water-table well, diameter 2 in., depth 18 ft, perforated 15 to 18 ft.

DATUM.--Altitude of land-surface datum is 3,437 ft. Measuring point: Top of casing 1.90 ft above land-surface datum.

REMARKS.--Starting in December 1998, recorder instrument set to and read as depth below measuring point.

PERIOD OF RECORD.--December 1998 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.07 ft below land-surface datum, May 3, 1999; lowest, 6.33 ft below land-surface datum, August 30, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum water-level depth below land surface, 7.26 ft, Sept. 25; minimum water-level depth below land surface, 4.10 ft, May 20.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.64	5.54	5.48	5.51	5.34	5.01	4.96	5.05	4.80	5.27	6.00	6.85
10	5.63	5.48	5.52	5.51	5.29	4.90	5.14	4.85	4.99	5.46	6.05	6.93
15	5.62	5.48	5.57	5.57	5.24	4.88	5.19	5.10	5.04	5.56	6.31	7.07
20	5.61	5.45	5.52	5.51	5.22	4.86	5.06	4.13	5.19	5.62	6.36	7.17
25	5.60	5.45	5.58	5.53	5.13	4.91	5.16	4.48	5.29	5.67	6.51	7.26
EOM	5.57	5.47	5.48	5.35	5.07	---	5.18	4.59	5.20	5.87	6.72	6.94

KEARNEY COUNTY

402625098594501. Local number 6N 15W 34DC.

LOCATION.--Lat 40°26'16", long 098°59'40", SW ¼ SE ¼ sec.34, T.6 N., R.15 W., Hydrologic Unit 10270206, 4.5 mi south and 2.5 mi west of the junction of Route 10 and U.S. Highway 34 near Minden. Owner: Conservation and Survey Division, University of Nebraska-Lincoln.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 210 ft, cased with steel, perforated 190 to 210 ft.

DATUM.--Altitude of land-surface datum is 2,181 ft. Measuring point: Top of casing 1.00 ft above land-surface datum.

REMARKS.--Replacement for 402615099000001, local number 5N 15W 3BA1, period of record August 1947 to September 1967. Water levels in well affected by seepage losses from nearby canals and by pumping of nearby wells during irrigation season.

PERIOD OF RECORD.--October 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 62.82 ft below land-surface datum, June 2, 1999; lowest, 119.05 ft below land-surface datum, July 25, 1991.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL
MAY 10	64.32

KIMBALL COUNTY

411416103361101. Local number 15N 55W 26CCC.

LOCATION.--Lat 41°14'10", long 103°36'19", SW ¼ SW ¼ SW ¼ sec.26, T.15 N., R.55 W., Hydrologic Unit 10190016, east of intersection of U.S. Highway 30 and State Highway 71 in Kimball. Owner: Henry Meier.

AQUIFER.--Ogallala Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 24 in., depth 124 ft, casing perforated below water table.

DATUM.--Altitude of land-surface datum is 4,658.3 ft. Measuring point: Top of casing 0.00 ft above land-surface datum.

REMARKS.--Local well number formerly listed as 15N 55W 26°CC. Replacement for 411600103393501, local number 15N 55W 17CC1, period of record January 1935 to November 1942; June 1950 to October 1975.

PERIOD OF RECORD.--January 1936 to October 1937; January 1951 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.82 ft below land-surface datum, Jan. 2, 1936; lowest, 54.86 ft below land-surface datum, Nov. 4, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	52.85	APR 21	50.61

WATER YEAR 2000 HIGHEST 50.61 APR 21, 2000 LOWEST 52.85 OCT 25, 1999

GROUND-WATER LEVELS

LANCASTER COUNTY

403929096401001. Local number 8N 7E 18DDB.

LOCATION.--Lat 40°39'29", long 096°40'10", NW ¼ SE ¼ SE ¼ sec.18, T.8 N., R.7 E., Hydrologic Unit 10200203, 0.6 mi west of Roca. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in., depth 41 ft, perforated 36 to 41 ft.

DATUM.--Altitude of land-surface datum is 1,215 ft. Measuring point: Top of casing 2.00 ft above land-surface datum.

REMARKS.--Water level not measured during 1984 water year.

PERIOD OF RECORD.--June 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.63 ft below land-surface datum, Aug. 25, 1954; lowest, 14.87 ft below land-surface datum, Oct. 18, 1991.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07	9.89	MAR 21	10.80

WATER YEAR 2000 HIGHEST 9.89 OCT 07, 1999 LOWEST 10.80 MAR 21, 2000

403833096385501. Local number 8N 7E 20DDA.

LOCATION.--Lat 40°38'33", long 096°38'55", NE ¼ SE ¼ SE ¼ sec.20, T.8 N., R.7 E., Hydrologic Unit 10200203, 0.5 mi east and 1.1 mi south of Roca. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in., depth 32.5 ft, casing perforated below water table.

DATUM.--Altitude of land-surface datum is 1,243 ft. Measuring point: Top of casing 1.00 ft above land-surface datum.

REMARKS.--Water level not measured during 1984 water year.

PERIOD OF RECORD.--June 1954 to current year.

REVISED RECORDS.--WDR NE-97: Highest water level above land-surface datum.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, +0.16 ft above land-surface datum, Mar. 27, 1960; lowest, 12.28 ft below land-surface datum, Oct. 17, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07	4.98	MAR 21	5.91

WATER YEAR 2000 HIGHEST 4.98 OCT 07, 1999 LOWEST 5.91 MAR 21, 2000

404706096413001. Local number 10N 6E 36CDD.

LOCATION.--Lat 40°47'06", long 096°41'30", SE ¼ SE ¼ SW ¼ sec.36, T.10 N., R.6 E., Hydrologic Unit 10200203, in Irvingdale Park on the north side of Van Dorn Street between 19th and 20th Streets in Lincoln. Owner: City of Lincoln.

AQUIFER.--Dakota Formation of Lower Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 16 in., depth 170 ft, casing perforated below water table.

DATUM.--Altitude of land-surface datum is 1,200 ft. Measuring point: Top of casing 1.60 ft above land-surface datum.

REMARKS.--Recorder removed in January 1983. Well measured in spring and fall thereafter.

PERIOD OF RECORD.--August 1951 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 45.07 ft below land-surface datum, Oct. 26, 1987; lowest 71.19 ft below land-surface datum, Sept. 5, 1956.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	46.28	APR 12	46.17

WATER YEAR 2000 HIGHEST 46.17 APR 12, 2000 LOWEST 46.28 OCT 19, 1999

GROUND-WATER LEVELS

MC PHERSON COUNTY

413130100531201. Local number 18N 31W 16DD.

LOCATION.--Lat 41°31'30", long 100°53'18", SE ¼ SE ¼ sec.16, T.18 N., R.31 W., Hydrologic Unit 10210004, Approximately 4.0 mi east and 2.0 mi south of Tryon. Owner: U.S. Geological Survey.

AQUIFER.--Fine sand of Pleistocene age.

WELL CHARACTERISTICS.--Observation water-table well, diameter 2 in., depth 120 ft, casing perforated below water table.

DATUM.--Altitude of land-surface datum is 3,219.6 ft. Measuring point: Top of casing 0.30 ft above land-surface datum.

PERIOD OF RECORD.--November 1934 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 104.89 ft below land-surface datum, August 16, 2000; lowest, 112.25 ft below land-surface datum, November 14, 1986.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04	105.45	NOV 16	105.46	FEB 08	105.17	MAR 31	105.16	JUN 30	104.90		
15	105.40	DEC 30	105.11	MAR 15	105.10	MAY 17	104.97	AUG 16	104.89		

WATER YEAR 2000 HIGHEST 104.89 AUG 16, 2000 LOWEST 105.46 NOV 16, 1999

NUCKOLLS COUNTY

400240098111301. Local number 1N 8W 23AB.

LOCATION.--Lat 40°02'40", long 098°11'13", NW ¼ NE ¼ sec.23, T.1 N., R.8 W., Hydrologic Unit 10250016, 0.5 mi south and 0.5 mi west of Bostwick. Owner: U.S. Geological Survey.

AQUIFER.--Loess of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in., depth 18 ft, casing perforated below water table.

DATUM.--Altitude of land-surface datum is 1,598.15 ft. Measuring point: Top of casing 1.50 ft above land-surface datum.

PERIOD OF RECORD.--April 1950 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.02 ft below land-surface datum, July 29, 1951; lowest, 7.91 ft below land-surface datum, July 8-9, 1950.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL
MAY 16	3.65

PHELPS COUNTY

403123099261501. Local number 6N 19W 2AA.

LOCATION.--Lat 40°31'28", long 099°26'13", NE ¼ NE ¼ sec.2, T.6 N., R.19 W., Hydrologic Unit 10200101, 10 mi east of Bertrand. Owner: Central Nebraska Public Power and Irrigation District.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 1 in., depth 151 ft, screened 149 to 151 ft.

DATUM.--Altitude of land-surface datum is 2,359.1 ft. Measuring point: Top of casing 1.00 ft above land-surface datum.

REMARKS.--Water levels in well affected by seepage losses from nearby irrigation canal.

PERIOD OF RECORD.--March 1945 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.59 ft below land-surface datum, Oct. 15, 1996; lowest, 123.70 ft below land-surface datum, Mar. 9, 1945.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 12	36.04	APR 25	36.62

WATER YEAR 2000 HIGHEST 36.04 APR 12, 2000 LOWEST 36.62 APR 25, 2000

GROUND-WATER LEVELS

PLATTE COUNTY

412955097192001. Local number 18N 1E 28CD.

LOCATION.--Lat 41°29'55", long 097°19'20", SE ¼ SW ¼ sec.28, T.18 N., R.1 E., Hydrologic Unit 10200201, 3 mi south and 8.5 mi east of Platte Center. Owner: Loup River Public Power District.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in., depth 99 ft, screened 97 to 99 ft.

DATUM.--Altitude of land-surface datum is 1,511.8 ft. Measuring point: Top of casing 3.50 ft above land-surface datum.

PERIOD OF RECORD.--November 1935 to August 1940; March 1942 to November 1953; November 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.30 ft (corrected) below land-surface datum, Mar. 27, Apr.24, 1940; lowest, 69.81 ft (corrected) below land-surface datum, Oct. 9, 1958.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL
MAY 16	60.81

SALINE COUNTY

403855097072501. Local number 8N 3E 19ADA.

LOCATION.--Lat 40°38'55", long 097°07'25", NE ¼ SE ¼ NE ¼ sec.19, T.8 N., R.3 E., Hydrologic Unit 10270202, west edge of Dorchester, on west side of Route 15 between U.S. Highway and Route 33. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 5 in., depth 151 ft, perforated 142 to 151 ft.

DATUM.--Altitude of land-surface datum is 1,496 ft. Measuring point: Top of casing at land-surface datum.

REMARKS.--Water levels in well affected by pumping of nearby wells during irrigation season.

PERIOD OF RECORD.--October 1959 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 93.26 ft below land-surface datum, May 4, 1999; lowest, 107.15 ft below land-surface datum, Aug. 05, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06	96.59	JAN 05	94.66	MAR 09	94.14	MAY 02	93.28	JUL 11	95.45	SEP 06	99.34
DEC 02	94.94	FEB 03	94.28	APR 10	93.42	JUN 07	93.59	AUG 07	99.03		

WATER YEAR 2000 HIGHEST 93.28 MAY 02, 2000 LOWEST 99.34 SEP 06, 2000

SARPY COUNTY

410308096190701. Local number 13N 10E 32DBBA.

LOCATION.--Lat 41°03'08", long 096°19'07", NE ¼ NW ¼ NW ¼ SE ¼ sec.32, T.13N., R.10 E., Hydrologic Unit 10200202, 0.5 mi south of northern end of Platte River Island 2.5 mi northeast of Ashland and approximately 1 mi south of U.S. Highway 6 and Linoma Beach Road. Owner: City of Lincoln, NE.

AQUIFER.--Alluvial sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 83 ft, screened 43 to 83 ft., casing perforated below water table.

DATUM.--Altitude of land-surface datum is 1056.4 ft. Measuring point: Top of casing 4.40 ft above land-surface datum.

REMARKS.--Water levels in well affected by Platte River stages. GOES system installed 1992.

PERIOD OF RECORD.--August 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, +2.13 ft above land-surface datum, July 25, 1993; lowest, 7.70 ft below land-surface datum, Nov. 4-5, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum daily water-level depth below land surface, 5.06 ft, Aug. 18; minimum daily water-level depth below land surface, 1.39 ft, Feb. 4.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.68	3.63	3.50	3.07	1.59	3.38	3.61	3.66	3.77	4.38	4.25	4.77
10	3.76	3.69	3.63	2.89	1.57	3.41	3.73	3.82	4.10	3.58	4.61	4.75
15	3.82	3.58	3.73	3.04	1.97	3.44	3.67	3.92	4.27	3.93	4.90	5.01
20	3.74	3.61	3.67	3.57	2.79	3.48	3.48	3.84	4.33	4.30	5.05	4.78
25	3.86	3.55	2.23	3.60	3.25	3.33	3.75	3.96	3.91	4.31	4.68	4.62
EOM	3.87	3.67	2.58	1.94	3.18	3.47	3.52	3.65	3.85	3.94	4.72	4.47

GROUND-WATER LEVELS

SAUNDERS COUNTY

410558096210601. Local number 13N 9E 13ADBA.

LOCATION.--Lat 41°05'58", long 096°21'06", NE ¼ NW ¼ SE ¼ NE ¼ sec.13, T.13 N., R.9E., Hydrologic Unit 10200202, approximately 3.75 mi north and 0.85 mi east of Ashland. Owner: City of Lincoln.

AQUIFER.--Alluvial sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in., depth 91 ft, screened 80 to 91 ft, casing perforated below water table.

DATUM.--Altitude of land-surface datum is 1,075 ft. Measuring point: Top of casing 4.40 ft above land-surface datum.

REMARKS.--Well drilled June 1990. Starting in April 1991, recorder instrument set to read depth below measuring point.

PERIOD OF RECORD.--August 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.77 ft below land-surface datum, Mar 13, 1993; lowest, 14.39 ft below land-surface datum, Oct. 1, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum water-level depth below land surface, 14.01 ft, Sept. 11, 12; minimum water-level depth below land surface, 12.11 ft, Nov. 30.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.18	12.31	12.21	12.28	12.38	12.23	12.73	12.95	13.25	12.73	13.58	13.91
10	12.25	12.31	12.24	12.24	12.38	12.38	12.78	12.94	13.31	12.90	13.72	13.99
15	12.23	12.28	12.32	12.24	12.42	12.43	12.84	13.01	13.07	13.14	13.79	13.78
20	12.25	12.29	12.31	12.34	12.41	12.47	12.84	13.05	13.16	13.18	13.85	13.62
25	12.27	12.20	12.31	12.37	12.36	12.52	12.73	13.13	13.09	13.28	13.80	13.56
EOM	12.28	12.12	12.28	12.41	12.40	12.67	12.82	13.15	12.87	13.43	13.90	13.61

410427096202501. Local number 13N 10E 19CDDD.

LOCATION.--Lat 41°04'27", long 096°20'25", SE ¼ SE ¼ SE ¼ SW ¼ sec.19, T.13 N., R.10E., Hydrologic Unit 10200202, 2 mi north and 1.4 mi east of Ashland. Located on Nebraska National Guard camp approximately 400 ft from right bank of Platte River. Owner: City of Lincoln.

AQUIFER.--Alluvial sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in., depth 56 ft., screened 45 to 56 ft., casing perforated below water table.

DATUM.--Altitude of land-surface datum is 1,065 ft. Measuring point: Top of casing 4.0 ft above land-surface datum.

REMARKS.--Water levels affected by Platte River stage. Starting in April 1991, recorder instrument set to read depth below measuring point. GOES system installed in September 1992.

PERIOD OF RECORD.--August 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, +0.18 ft above land-surface datum, July 10, 1993; lowest, 17.38 ft below land-surface datum, Oct. 27, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum daily water-level depth below land surface, 11.37 ft, Sept. 21-23; minimum daily water-level depth below land surface, 5.54 ft, Feb. 5.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.91	8.32	8.03	7.02	5.54	7.87	8.39	9.58	9.61	10.09	10.28	10.80
10	8.64	8.33	8.04	6.95	5.84	7.99	8.45	9.40	9.96	9.25	10.46	11.01
15	8.50	8.26	8.08	6.89	7.12	8.03	8.60	9.43	10.23	9.63	10.69	11.09
20	8.41	8.26	8.12	7.00	7.42	8.07	8.73	9.60	10.40	9.99	10.93	11.27
25	8.46	8.14	6.23	7.15	7.56	7.99	8.96	10.15	10.37	10.29	10.54	11.27
EOM	8.48	8.18	6.64	6.34	7.68	8.15	9.38	9.69	9.67	9.84	10.75	10.67

GROUND-WATER LEVELS

SAUNDERS COUNTY--Continued

410340096202201. Local number 13N 10E 30CDDA.

LOCATION.--Lat 41°03'40", long 096°20'22", NE ¼ SE ¼ SE ¼ SW ¼ sec.30, T.13 N., R.10E., Hydrologic Unit 10200202, 1.1 mi north and 1.5 mi east of Ashland on Lincoln north well field by Nebraska National Guard Camp. Owner: City of Lincoln.

AQUIFER.--Alluvial sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in., depth 70 ft., screened 55 to 70 ft., casing perforated below water table.

DATUM.--Altitude of land-surface datum is 1,059 ft. Measuring point: Top of casing 6.6 ft above land-surface datum (changed from 4.10 ft on 04-25-94).

REMARKS.--Water levels in area affected by nearby pumping of municipal wells. Starting in April 1991, recorder instrument set to read depth below measuring point. GOES system installed in August 1994.

PERIOD OF RECORD.--August 1990 to current year.

REVISED RECORDS.--WDR NE-96: Water levels for 1995 water year,

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, +4.13 ft above land-surface datum, July 24, 1993; lowest, 26.00 ft below land-surface datum, Oct. 11, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum water-level depth below land surface, 18.20 ft, June 13; minimum water-level depth below land surface, 7.91 ft, Mar. 7.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.73	13.29	10.94	8.39	8.75	8.06	10.67	14.50	17.06	14.48	13.75	17.40
10	13.62	13.71	10.17	8.27	8.56	8.74	10.49	13.95	18.17	15.46	14.38	17.28
15	13.68	13.54	9.88	8.59	8.64	---	12.61	15.50	18.09	15.39	16.08	18.15
20	12.64	12.99	9.81	8.60	8.63	8.83	12.08	16.31	17.76	14.81	16.50	17.56
25	12.86	12.53	9.70	8.69	8.62	9.44	14.24	16.96	16.99	14.57	16.56	16.03
EOM	13.37	12.52	8.83	8.77	8.81	10.70	14.07	16.27	15.22	13.68	16.97	17.79

410303096192901. Local number 13N 10E 32CABC.

LOCATION.--Lat 41°03'03", long 096°19'29", SW ¼ NW ¼ NE ¼ SW ¼ sec.32, T.13 N., R.10E., Hydrologic Unit 10200202, 2.0 mi north and 0.6 mi south of Ashland. One-sixth mile south of highway 6 gate for Willow Point Community Housing. Northern end of Willow Point lake, approximately 400 feet from right bank of Platte River. Owner: City of Lincoln.

AQUIFER.--Alluvial sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in., depth 86 ft., screened 51 to 86 ft., casing perforated below water table.

DATUM.--Altitude of land-surface datum is 1,056 ft. Measuring point: Top of casing 3.60 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping of municipal wells and Platte River stage. Starting in April 1991, recorder instrument set to read depth below measuring point. GOES unit installed in September 1992.

PERIOD OF RECORD.--December 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.18 ft below land-surface datum, July 25, 1993; lowest, 11.81 ft below land-surface datum, Oct 23, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum water-level depth below land surface, 8.37 ft, Sept. 28; minimum water-level depth below land surface, 4.98 ft, Feb. 13.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.10	6.64	6.66	7.25	5.68	6.14	7.41	6.39	6.73	7.03	7.01	7.89
10	7.18	7.05	6.63	7.52	5.59	7.17	6.86	6.43	6.79	6.06	7.56	7.91
15	7.23	7.06	6.66	7.05	5.47	6.25	6.75	6.59	6.92	6.86	7.65	7.93
20	7.49	7.08	6.75	7.27	5.79	6.27	6.40	6.57	---	6.93	7.78	7.93
25	7.54	6.48	6.61	6.88	5.86	6.19	6.42	6.71	6.91	7.01	8.23	7.71
EOM	7.16	6.57	6.84	5.96	5.86	6.94	6.33	6.51	6.46	6.77	7.64	7.78

GROUND-WATER LEVELS

SAUNDERS COUNTY--Continued

411005096281502. Local number 14N 8E 24ACD2

LOCATION.--Lat 41°10'05", long 096°28'15", SE ¼ SW ¼ NE ¼ sec.24, T.14 N., R.8 E., Hydrologic Unit 10200203, 4 mi south from the intersection of Routes 92 and 692 near Mead, then 0.65 mi east and 0.4 mi south to the south end of load line 2 of the Mead Field Station. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 80 ft, screened 60 to 80 ft.

DATUM.--Altitude of land-surface datum is 1,171 ft. Measuring point: Top of casing 0.5 ft above land-surface datum.

REMARKS.--Replacement for well 411005096281501, local number 14N-8E-24ACD1, with period of record July 1964 to November 1970. Water levels in well affected by pumping of nearby wells during irrigation season.

PERIOD OF RECORD.--April 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 39.22 ft below land-surface datum, Mar. 31, 1988; lowest, 46.98 ft below land-surface datum, Sept. 25, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04	41.27	DEC 10	40.96	FEB 29	40.79	MAR 25	40.72	MAY 20	40.87	AUG 09	41.16
05	41.29	15	40.93	MAR 05	40.76	29	40.66	25	40.88	SEP 06	41.60
10	41.29	JAN 18	40.85	10	40.83	31	40.80	31	40.90		
15	41.24	FEB 03	40.80	13	40.78	MAY 04	40.78	JUN 05	40.94		
20	41.21	20	40.84	15	40.81	10	40.80	08	40.86		
DEC 09	40.96	25	40.75	20	40.78	15	40.86	JUL 11	41.00		

WATER YEAR 2000 HIGHEST 40.66 MAR 29, 2000 LOWEST 41.60 SEP 06, 2000

SCOTTS BLUFF COUNTY

415325103392801. Local number 22N 55W 11DDC.

LOCATION.--Lat 41°53'25", long 103°39'28", SW ¼ SE ¼ SE ¼ sec.11, T.22 N., R.55 W., Hydrologic Unit 10180009, 0.5 mi north of the west intersection of Routes 71 and 26 in Scottsbluff, then 0.8 mi east. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 32 ft, casing perforated below water table.

DATUM.--Altitude of land-surface datum is 3,953 ft. Measuring point: Top of casing 0.00 ft above land-surface datum.

REMARKS.--Recorder removed in January 1984. Well measured monthly until recorder reinstalled January 1985.

PERIOD OF RECORD.--August 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 21.27 ft below land-surface datum, Sept. 9, 1986; lowest, 28.08 ft below land-surface datum, May 31, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05	25.52	DEC 09	25.52	FEB 10	25.79	APR 10	26.08	JUN 15	26.63	AUG 20	26.13
10	25.49	10	25.52	15	25.80	15	26.14	20	26.73	25	26.09
15	25.47	15	25.53	17	25.79	20	26.19	25	26.64	31	26.00
20	25.46	20	25.56	20	25.81	25	26.25	30	26.60	SEP 05	25.96
25	25.46	25	25.60	25	25.82	30	26.29	JUL 05	26.50	06	25.96
31	25.48	31	25.61	29	25.84	MAY 02	26.30	10	26.41	10	25.93
NOV 05	25.51	JAN 05	25.63	MAR 05	25.85	05	26.32	15	26.41	15	25.88
10	25.48	10	25.67	10	25.87	10	26.33	20	26.40	20	25.86
15	25.50	15	25.69	15	25.91	15	26.35	25	26.41	25	25.80
16	25.50	20	25.70	20	25.95	20	26.39	31	26.39	30	25.71
20	25.49	21	25.70	25	25.98	25	26.44	AUG 05	26.31		
25	25.49	25	25.73	31	26.01	31	26.51	07	26.28		
30	25.50	31	25.75	APR 03	26.03	JUN 05	26.54	10	26.27		
DEC 05	25.50	FEB 05	25.77	05	26.03	10	26.61	15	26.19		

WATER YEAR 2000 HIGHEST 25.46 OCT 20, 1999 OCT 25, 1999 LOWEST 26.73 JUN 20, 2000

GROUND-WATER LEVELS

SEWARD COUNTY

405406097115001. Local number 11N 2E 21DD.

LOCATION.--Lat 40°54'06", long 097°11'50", SE ¼ SE ¼ sec.21, T.11 N., R.2 E., Hydrologic Unit 10270201, 4.5 mi west of Seward. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 5 in., depth 123 ft, perforated 112 to 123 ft.

DATUM.--Altitude of land-surface datum is 1,550 ft. Measuring point: Top of casing 0.00 ft above land-surface datum.

REMARKS.--Water levels in well affected by withdrawals from nearby irrigation wells.

PERIOD OF RECORD.--May 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 72.02 ft below land-surface datum, May 10, 2000; lowest, 90.17 ft below land-surface datum, Aug. 5, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05	75.22	NOV 25	73.66	JAN 20	72.96	MAR 06	72.44	APR 30	72.11	JUL 10	74.27
10	74.82	30	73.76	25	72.84	10	72.44	MAY 01	72.10	AUG 03	77.81
11	74.83	DEC 05	73.49	31	72.87	15	72.49	05	72.09	SEP 05	78.80
15	74.63	10	73.44	FEB 02	72.82	20	72.46	10	72.02	10	78.41
20	74.57	15	73.32	05	72.78	25	72.38	15	72.08	15	77.96
25	74.40	20	73.31	10	72.63	31	72.30	20	72.16	20	77.32
31	74.16	25	73.34	15	72.56	APR 05	72.30	25	72.24	25	77.00
NOV 05	74.07	31	73.11	20	72.62	10	72.29	31	72.42	30	76.62
10	73.93	JAN 05	73.03	25	72.44	15	72.24	JUN 05	72.49		
15	73.89	10	72.92	29	72.42	20	72.10	10	72.95		
20	73.66	15	73.06	MAR 05	72.49	25	72.09	15	73.50		

WATER YEAR 2000 HIGHEST 72.02 MAY 10, 2000 LOWEST 78.80 SEP 05, 2000

VALLEY COUNTY

412955099123201. Local number 18N 16W 30CC.

LOCATION.--Lat 41°29'55", long 099°12'32", SW ¼ SW ¼ , sec.30, T.18 N., R.16 W., Hydrologic Unit 10210003, 4 mi west and 5 mi north of Arcadia. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 0.75 in., depth 14 ft, screened from 12 to 14 ft.

DATUM.--Altitude of land-surface datum is 2,217.61 ft. Measuring point: Top of casing 2.00 ft above land-surface datum.

REMARKS.--Water levels in well affected by evapotranspiration.

PERIOD OF RECORD.--August 1949 to June 1956; June 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.25 ft below land-surface datum, May 3, 1983; lowest, 5.90 ft below land-surface datum, Mar. 1, 1973.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL
MAY 05	3.84

GROUND-WATER LEVELS

WEBSTER COUNTY

400423098314001. Local number 1N 11W 11AB.

LOCATION.--Lat 40°04'23", long 098°31'40", NW ¼ NE ¼ sec.11, T.1 N., R.11 W., Hydrologic Unit 10250016, 1 mi south and 0.25 mi west of intersection of U.S. Highways 136 and 281 in Red Cloud. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in., depth 16.9 ft, casing perforated below water table.

DATUM.--Altitude of land-surface datum is 1,686 ft. Measuring point: Top of casing 1.7 ft above land-surface datum.

PERIOD OF RECORD.--May 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.74 ft (corrected) below land-surface datum, July 11-12, 1951; lowest, 9.96 ft (corrected) below land-surface datum, Apr. 5, 1957.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL
MAY 16	7.73

YORK COUNTY

405305097351503. Local number 11N 2W 31BA3.

LOCATION.--Lat 40°53'05", long 097°35'15", NE ¼ NW ¼ sec.31, T.11 N., R.2 W., Hydrologic Unit 10270203, south edge of York County Fairgrounds on the north side of York. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in., depth 165 ft, perforated below water table.

DATUM.--Altitude of land-surface datum is 1,659 ft. Measuring point: Top of casing 1.6 ft above land-surface datum.

REMARKS.--Replacement for well 405305097351501, local number 11N 2W 31BA1, with period of record October 1957 to January 1969. Water levels in well affected by withdrawals from nearby municipal well and by withdrawals from nearby irrigation wells.

PERIOD OF RECORD.--May 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 78.96 ft below land-surface datum, Mar. 1, 1999; lowest, 120.81 ft below land-surface datum, July 15, 1974.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12	82.62	JAN 05	79.74	MAR 06	79.15	MAY 01	80.75	JUL 10	86.68	SEP 05	85.82
DEC 07	79.80	FEB 02	80.14	APR 11	79.42	JUN 05	85.34	AUG 03	95.61		

WATER YEAR 2000 HIGHEST 79.15 MAR 06, 2000 LOWEST 95.61 AUG 03, 2000

CHEMICAL ANALYSES OF GROUND WATER

PAPIO-MISSOURI STUDY
WATER-QUALITY MONITORING

(Local identifier: indicates location by township, range, and section. Geologic unit: 110QRNR, Quaternary system deposits undifferentiated; 110SDGV, Quaternary sand and gravel deposits, undifferentiated; 112PLSC, Pleistocene series deposits; 112SDGV, Pleistocene sand and gravel deposits; 211DKOT, Upper Cretaceous Dakota Formation deposits.)

COUNTIES.--Burt, Dakota, Douglas, Sarpy, Thurston, and Washington

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT	HYDRO-LOGIC UNIT CODE	DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
		BURT COUNTY					
414242096141201	20N 10E13ABAA1	211DKOT	10230001	07-20-00	1400	92.00	1155
414352096134201	20N 11E 6CBDC1	211DKOT	10230001	07-20-00	1525	105.00	1022
415004096140101	22N 10E36DADB1	211DKOT	10230001	07-20-00	1150	91.00	1052
415924096130901	23N 11E 6DCDD1	110QRNR	10230001	07-18-00	1230	--	1250
414645096134301	21N 11E19BBCD1	211DKOT	10230001	07-14-00	1215	172.00	1148
		DAKOTA COUNTY					
421848096371801	27N 7E16CABD1	211DKOT	10230001	07-10-00	1405	565.00	1410
422758096243901	29N 9E28ABAB1	211DKOT	10170101	07-10-00	0955	270.00	1100
422316096353301	28N 7E22ADCD1	211DKOT	10230001	07-10-00	1205	149.00	1200
		DOUGLAS COUNTY					
411218096082101	14N 11E11AAAA1	211DKOT	10200202	07-14-00	1520	290.00	1066
411125096093001	14N 11E15AAAA1	211DKOT	10230006	07-14-00	1450	235.00	1100
411738096140601	15N 10E 1DDAD1	211DKOT	10230006	07-14-00	1400	230.00	1282
411500096160101	15N 10E23CDCB1	211DKOT	10220003	07-17-00	1225	50.00	1115
412050096143101	16N 10E24ABCA1	211DKOT	10230006	07-18-00	1420	325.00	1290
411914096022401	16N 12E35BBAB1	112SDGV	10230006	07-21-00	1300	141.00	1105
412018096084501	16N 11E23DCBA1	110QRNR	10230006	07-19-00	1800	56.00	1090
		SARPY COUNTY					
410530096154401	13N 10E14DCBB1	--		07-19-00	0925	209.00	1272
410728096134401	13N 11E 6CAAA1	112SDGV	10230006	07-19-00	1200	278.00	1252
410651096134801	13N 11E 7BCAA1	112SDGV	10200202	07-24-00	1100	198.00	1270
410503096073801	13N 11E24ACBD1	211DKOT	10200202	07-25-00	0945	195.00	1144
410350096081001	13N 11E25CBCD1	112SDGV	10200202	07-24-00	1155	66.00	1035
410351096080901	13N 11E25CCBB1	112SDGV	10200202	07-25-00	0915	66.00	1050

CHEMICAL ANALYSES OF GROUND WATER

PAPIO-MISSOURI STUDY--Continued
WATER-QUALITY MONITORING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	AMETRYN WATER, DISS, REC, (UG/L) (38401)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	BUTA-CHLOR, WATER, DISS, REC (UG/L) (04026)
				BURT COUNTY						
07-20-00	7.8	7.3	12.0	5.35	--	--	--	--	--	--
07-20-00	1.1	6.9	12.0	<.050	--	--	--	--	--	--
07-20-00	.2	7.2	11.5	<.050	--	--	--	--	--	--
07-18-00	.2	7.2	11.0	.117	--	--	--	--	--	--
07-14-00	5.9	7.1	14.5	8.21	--	--	--	--	--	--
				DAKOTA COUNTY						
07-10-00	.1	7.1	15.0	<.050	--	--	--	--	--	--
07-10-00	.2	7.0	12.6	<.050	--	--	--	--	--	--
07-10-00	3.3	7.2	12.5	2.59	--	--	--	--	--	--
				DOUGLAS COUNTY						
07-14-00	4.9	7.3	13.0	.332	--	--	--	--	--	--
07-14-00	6.8	7.3	12.5	.975	--	--	--	--	--	--
07-14-00	5.2	7.2	12.5	5.68	--	--	--	--	--	--
07-17-00	.4	7.3	15.5	<.050	--	--	--	--	--	--
07-18-00	.1	7.2	17.0	<.050	--	--	--	--	--	--
07-21-00	2.4	7.1	13.0	<.050	<.050	<.050	<.05	<.050	<.05	<.05
07-19-00	1.8	6.8	12.0	8.10	--	--	--	--	--	--
				SARPY COUNTY						
07-19-00	.1	7.3	13.5	<.050	--	--	--	--	--	--
07-19-00	.1	7.3	14.0	<.050	E.010	<.050	<.05	E.010	<.05	<.05
07-24-00	11.2	7.1	13.0	8.35	--	--	--	--	--	--
07-25-00	6.0	7.0	13.0	2.97	--	--	--	--	--	--
07-24-00	11.8	7.2	21.5	2.77	E.010	<.050	<.05	E.009	<.05	<.05
07-25-00	5.4	7.1	16.0	4.93	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

PAPIO-MISSOURI STUDY--Continued
WATER-QUALITY MONITORING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBOXIN, WATER, DISS, REC (UG/L) (04027)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	SICLOATE, WATER, DISS, REC (UG/L) (04031)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DEISOPROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)	DIPHENAMID, WATER, DISS, REC (UG/L) (04033)	HEXAZINONE, WATER, DISS, REC (UG/L) (04025)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)
					BURT COUNTY					
07-20-00	--	--	--	--	--	--	--	--	--	--
07-20-00	--	--	--	--	--	--	--	--	--	--
07-20-00	--	--	--	--	--	--	--	--	--	--
07-18-00	--	--	--	--	--	--	--	--	--	--
07-14-00	--	--	--	--	--	--	--	--	--	--
					DAKOTA COUNTY					
07-10-00	--	--	--	--	--	--	--	--	--	--
07-10-00	--	--	--	--	--	--	--	--	--	--
07-10-00	--	--	--	--	--	--	--	--	--	--
					DOUGLAS COUNTY					
07-14-00	--	--	--	--	--	--	--	--	--	--
07-14-00	--	--	--	--	--	--	--	--	--	--
07-14-00	--	--	--	--	--	--	--	--	--	--
07-17-00	--	--	--	--	--	--	--	--	--	--
07-18-00	--	--	--	--	--	--	--	--	--	--
07-21-00	<.050	<.05	<.200	<.05	<.050	<.05	<.05	<.05	<.050	<.050
07-19-00	--	--	--	--	--	--	--	--	--	--
					SARPY COUNTY					
07-19-00	--	--	--	--	--	--	--	--	--	--
07-19-00	<.050	<.05	<.200	<.05	<.050	<.05	<.05	<.05	E.008	<.050
07-24-00	--	--	--	--	--	--	--	--	--	--
07-25-00	--	--	--	--	--	--	--	--	--	--
07-24-00	<.050	<.05	<.200	<.05	<.050	<.05	<.05	<.05	E.009	<.050
07-25-00	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

PAPIO-MISSOURI STUDY--Continued
WATER-QUALITY MONITORING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRO-METRYN, WATER, DISS, REC (UG/L) (04036)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PROP-AZINE WATER DISS REC (UG/L) (38535)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	SIMA-TRYN, WATER, DISS, REC (UG/L) (04030)	TER-BACIL, WATER, DISS, REC (UG/L) (04032)	TRI-FLUR-ALIN, WATER, DISS, REC (UG/L) (04023)	VERNO-LATE, WATER, DISS, REC (UG/L) (04034)
				BURT COUNTY					
07-20-00	--	--	--	--	--	--	--	--	--
07-20-00	--	--	--	--	--	--	--	--	--
07-20-00	--	--	--	--	--	--	--	--	--
07-18-00	--	--	--	--	--	--	--	--	--
07-14-00	--	--	--	--	--	--	--	--	--
				DAKOTA COUNTY					
07-10-00	--	--	--	--	--	--	--	--	--
07-10-00	--	--	--	--	--	--	--	--	--
07-10-00	--	--	--	--	--	--	--	--	--
				DOUGLAS COUNTY					
07-14-00	--	--	--	--	--	--	--	--	--
07-14-00	--	--	--	--	--	--	--	--	--
07-14-00	--	--	--	--	--	--	--	--	--
07-17-00	--	--	--	--	--	--	--	--	--
07-18-00	--	--	--	--	--	--	--	--	--
07-21-00	<.050	<.05	<.050	<.05	<.050	<.05	<.05	<.05	<.05
07-19-00	--	--	--	--	--	--	--	--	--
				SARPY COUNTY					
07-19-00	--	--	--	--	--	--	--	--	--
07-19-00	<.050	<.05	<.050	<.05	<.050	<.05	<.05	<.05	<.05
07-24-00	--	--	--	--	--	--	--	--	--
07-25-00	--	--	--	--	--	--	--	--	--
07-24-00	<.050	<.05	<.050	<.05	<.050	<.05	<.05	<.05	<.05
07-25-00	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

PAPIO-MISSOURI STUDY--Continued
WATER-QUALITY MONITORING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	HYDROLOGIC UNIT CODE	DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
		SARPY COUNTY					
410824096141901	14N 10E36ADCC1	211DKOT	10230006	07-19-00	1045	315.00	1260
410818096001201	14N 13E31CBBC1	211DKOT	10230006	07-19-00	1310	134.00	1078
		THURSTON COUNTY					
420519096273202	24N 9E 6BBAB2	211DKOT	10230001	07-19-00	1030	300.00	1368
420840096292402	25N 8E11DBCB2	211DKOT	10230001	07-11-00	1405	200.00	1225
420825096292401	25N 8E11DCCC1	112SDGV		07-11-00	1320	155.00	1227
420851096254601	25N 9E17AABB1	110SDGV	10230001	07-19-00	1300	--	1250
421412096282101	26N 8E12CDAD1	110SDGV	10230001	07-11-00	1545	275.00	1170
421413096282401	26N 8E12CDAC1	110SDGV	10230001	07-11-00	1630	308.00	1160
		WASHINGTON COUNTY					
412736096221001	17N 9E11AD 1	112SDGV	10220003	07-18-00	1015	276.00	1270
412751096203901	17N 10E 7BBAC1	110QRNR	10220003	07-21-00	1600	164.00	1179
412636096183201	17N 10E16CBBB1	112SDGV	10220003	07-21-00	1430	316.00	1290
412629096053001	17N 12E17CACA1	112SDGV	10230006	07-19-00	1500	330.00	1200
413240096213301	18N 9E12CAAC1	211DKOT	10220003	07-19-00	1700	172.00	1230

DATE	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	AMETRYN WATER, DISS, REC, (UG/L) (38401)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BROMACIL, WATER, DISS, REC (UG/L) (04029)	BUTACHLOR, WATER, DISS, REC (UG/L) (04026)
				SARPY COUNTY						
07-19-00	6.6	7.2	15.5	1.70	--	--	--	--	--	--
07-19-00	9.5	7.1	13.5	1.25	--	--	--	--	--	--
				THURSTON COUNTY						
07-19-00	.3	7.1	13.0	<.050	--	--	--	--	--	--
07-11-00	.2	7.2	12.0	<.050	--	--	--	--	--	--
07-11-00	.2	7.1	12.0	<.050	--	--	--	--	--	--
07-19-00	2.1	7.1	11.5	.693	--	--	--	--	--	--
07-11-00	9.2	7.2	13.0	.055	--	--	--	--	--	--
07-11-00	9.4	7.2	13.0	.052	--	--	--	--	--	--
				WASHINGTON COUNTY						
07-18-00	.2	7.2	13.0	<.050	--	--	--	--	--	--
07-21-00	.9	7.1	12.0	16.7	--	--	--	--	--	--
07-21-00	1.1	7.4	--	<.050	--	--	--	--	--	--
07-19-00	.7	7.6	14.5	.069	--	--	--	--	--	--
07-19-00	.8	7.1	12.5	.422	<.050	<.050	<.05	<.050	<.05	<.05

CHEMICAL ANALYSES OF GROUND WATER

PAPIO-MISSOURI STUDY--Continued
WATER-QUALITY MONITORING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBOXIN, WATER, DISS, REC (UG/L) (04027)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	SIMAZINE, WATER, DISS, REC (UG/L) (04031)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DEISOPROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)	DIPHENAMID, WATER, DISS, REC (UG/L) (04033)	HEXAZINONE, WATER, DISS, REC (UG/L) (04025)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)
SARPY COUNTY										
07-19-00	--	--	--	--	--	--	--	--	--	--
07-19-00	--	--	--	--	--	--	--	--	--	--
THURSTON COUNTY										
07-19-00	--	--	--	--	--	--	--	--	--	--
07-11-00	--	--	--	--	--	--	--	--	--	--
07-11-00	--	--	--	--	--	--	--	--	--	--
07-19-00	--	--	--	--	--	--	--	--	--	--
07-11-00	--	--	--	--	--	--	--	--	--	--
07-11-00	--	--	--	--	--	--	--	--	--	--
WASHINGTON COUNTY										
07-18-00	--	--	--	--	--	--	--	--	--	--
07-21-00	--	--	--	--	--	--	--	--	--	--
07-21-00	--	--	--	--	--	--	--	--	--	--
07-19-00	--	--	--	--	--	--	--	--	--	--
07-19-00	<.050	<.05	<.200	<.05	<.050	<.05	<.05	<.05	<.050	<.050

DATE	PROMETON, WATER, DISS, REC (UG/L) (04037)	PROMETRYN, WATER, DISS, REC (UG/L) (04036)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	PROPAZINE WATER DISS REC (UG/L) (38535)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	SIMATRYN, WATER, DISS, REC (UG/L) (04030)	TERBACIL, WATER, DISS, REC (UG/L) (04032)	TRIFLURALIN, WATER, DISS, REC (UG/L) (04023)	VERNOLATE, WATER, DISS, REC (UG/L) (04034)
SARPY COUNTY									
07-19-00	--	--	--	--	--	--	--	--	--
07-19-00	--	--	--	--	--	--	--	--	--
THURSTON COUNTY									
07-19-00	--	--	--	--	--	--	--	--	--
07-11-00	--	--	--	--	--	--	--	--	--
07-11-00	--	--	--	--	--	--	--	--	--
07-19-00	--	--	--	--	--	--	--	--	--
07-11-00	--	--	--	--	--	--	--	--	--
07-11-00	--	--	--	--	--	--	--	--	--
WASHINGTON COUNTY									
07-18-00	--	--	--	--	--	--	--	--	--
07-21-00	--	--	--	--	--	--	--	--	--
07-21-00	--	--	--	--	--	--	--	--	--
07-19-00	--	--	--	--	--	--	--	--	--
07-19-00	<.050	<.05	<.050	<.05	<.050	<.05	<.05	<.05	<.05

CHEMICAL ANALYSES OF GROUND WATER

PAPIO-MISSOURI STUDY
WATER QUALITY FROM WELL NESTS

(Local identifier: indicates location by township, range, and section. Geologic unit: 112SDGV, Pleistocene sand and gravel deposits; 211DKOT, Upper Cretaceous Dakota Formation deposits.)

COUNTIES.--Burt, Dakota, Douglas, Sarpy, Thurston, and Washington

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	GEOLOGIC UNIT	HYDROLOGIC UNIT CODE	DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)
			BURT COUNTY					
414700096134901	21N 11E19BBBC1	41 47 00 N	096 13 49 W	211DKOT	10230001	11-08-99	1515	171.00
				211DKOT	10230001	01-27-00	1550	171.00
				211DKOT	10230001	03-14-00	1630	171.00
				211DKOT	10230001	05-17-00	1820	171.00
				211DKOT	10230001	07-10-00	1700	171.00
				211DKOT	10230001	09-12-00	1500	171.00
414700096134902	21N 11E19BBBC2			211DKOT	10230001	11-08-99	1545	139.00
				211DKOT	10230001	01-27-00	1620	139.00
				211DKOT	10230001	03-14-00	1700	139.00
				211DKOT	10230001	05-17-00	1850	139.00
				211DKOT	10230001	07-10-00	1730	139.00
				211DKOT	10230001	09-12-00	1530	139.00
414700096134903	21N 11E19BBBC3			211DKOT	10230001	11-08-99	1600	80.00
				211DKOT	10230001	01-27-00	1630	80.00
				211DKOT	10230001	03-14-00	1715	80.00
				211DKOT	10230001	05-17-00	1900	80.00
				211DKOT	10230001	07-10-00	1745	80.00
				211DKOT	10230001	09-12-00	1545	80.00
			DAKOTA COUNTY					
422035096281901	27N 8E 1ACCC1	42 20 35 N	096 28 19 W	112SDGV	10230001	11-08-99	1230	129.00
				112SDGV	10230001	01-27-00	1400	129.00
				112SDGV	10230001	03-14-00	1345	129.00
				112SDGV	10230001	05-17-00	1540	129.00
				112SDGV	10230001	07-10-00	1430	129.00
				112SDGV	10230001	09-12-00	1240	129.00
422035096281902	27N 8E 1ACCC2			112SDGV	10230001	11-08-99	1250	93.00
				112SDGV	10230001	01-27-00	1330	93.00
				112SDGV	10230001	03-14-00	1410	93.00
				112SDGV	10230001	05-17-00	1600	93.00
				112SDGV	10230001	07-10-00	1450	93.00
				112SDGV	10230001	09-12-00	1300	93.00
422035096281903	27N 8E 1ACCC3			112SDGV	10230001	11-08-99	1310	53.00
				112SDGV	10230001	01-27-00	1415	53.00
				112SDGV	10230001	03-14-00	1430	53.00
				112SDGV	10230001	05-17-00	1620	53.00
				112SDGV	10230001	07-10-00	1500	53.00
				112SDGV	10230001	09-12-00	1315	53.00
			DOUGLAS COUNTY					
411231096193203	14N 10E 5CBDB3	41 12 31 N	096 19 32 W	112SDGV	10220003	11-09-99	1330	22.00
				112SDGV	10220003	01-26-00	1500	22.00
				112SDGV	10220003	03-13-00	1410	22.00
				112SDGV	10220003	05-16-00	1450	22.00
				112SDGV	10220003	07-11-00	1410	22.00
				112SDGV	10220003	09-13-00	1120	22.00
411231096193201	14N 10E 5CBDD1			112SDGV	10220003	11-09-99	1250	98.00
				112SDGV	10220003	01-26-00	1430	98.00
				112SDGV	10220003	03-13-00	1350	98.00
				112SDGV	10220003	05-16-00	1420	98.00
				112SDGV	10220003	07-11-00	1345	98.00

CHEMICAL ANALYSES OF GROUND WATER

PAPIO-MISSOURI STUDY--Continued
WATER QUALITY FROM WELL NESTS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	AMETRYN WATER, DISS, REC, (UG/L) (38401)
					BURT COUNTY						
11-08-99	1135	732	.1	1	7.3	1090	12.5	.561	--	--	--
01-27-00	1135	730	.1	1	7.0	1150	12.0	.392	--	--	--
03-14-00	1135	728	.2	2	6.9	1170	12.0	2.07	--	--	--
05-17-00	1135	728	.2	1	6.9	1160	12.0	1.88	--	--	--
07-10-00	1135	728	.1	1	7.1	1140	12.5	1.48	--	--	--
09-12-00	1135	729	.3	3	7.0	1140	12.5	.535	--	--	--
11-08-99	1135	732	.1	1	7.2	1030	12.5	<.050	--	--	--
01-27-00	1135	730	.1	1	7.0	1050	12.0	.344	--	--	--
03-14-00	1135	728	.7	7	6.9	1040	12.0	1.27	--	--	--
05-17-00	1135	728	.2	2	6.9	1050	12.0	.766	--	--	--
07-10-00	1135	728	.1	0	7.0	1060	12.5	<.050	--	--	--
09-12-00	1135	729	.6	6	7.1	1030	12.5	1.17	--	--	--
11-08-99	1135	732	1.1	11	7.4	870	12.5	16.9	--	--	--
01-27-00	1135	730	7.6	74	7.2	994	12.0	14.8	--	--	--
03-14-00	1135	728	7.8	77	7.2	900	12.5	16.4	--	--	--
05-17-00	1135	728	8.2	81	7.1	905	12.5	16.7	--	--	--
07-10-00	1135	728	1.0	10	7.2	908	12.5	17.2	--	--	--
09-12-00	1135	729	1.2	12	7.2	898	12.5	18.2	--	--	--
					DAKOTA COUNTY						
11-08-99	1092	732	.5	4	7.1	1200	12.0	<.050	--	--	--
01-27-00	1092	731	.1	1	7.1	1170	11.5	<.050	--	--	--
03-14-00	1092	729	.1	1	6.9	1180	11.5	<.050	--	--	--
05-17-00	1092	730	.1	1	6.8	1200	12.0	<.050	--	--	--
07-10-00	1092	730	.1	0	7.1	1180	12.0	<.050	--	--	--
09-12-00	1092	732	M	0	7.1	1170	12.0	<.050	--	--	--
11-08-99	1092	732	.1	1	7.3	898	11.5	<.050	--	--	--
01-27-00	1092	731	.1	1	7.1	904	11.5	<.050	--	--	--
03-14-00	1092	729	.1	1	7.0	990	11.5	<.050	--	--	--
05-17-00	1092	730	.7	6	6.9	893	11.5	<.050	--	--	--
07-10-00	1092	730	M	0	7.1	886	12.0	<.050	--	--	--
09-12-00	1092	732	M	0	7.1	896	11.0	<.050	--	--	--
11-08-99	1092	732	.2	2	7.2	926	11.5	<.050	--	--	--
01-27-00	1092	731	2.3	22	7.0	952	11.0	<.050	--	--	--
03-14-00	1092	729	2.3	22	6.9	968	11.5	<.050	--	--	--
05-17-00	1092	730	2.2	21	6.9	984	11.5	<.050	--	--	--
07-10-00	1092	730	.2	2	7.1	1040	12.0	<.050	<.050	<.050	<.05
09-12-00	1092	732	2.5	24	7.1	1030	12.0	<.050	--	--	--
					DOUGLAS COUNTY						
11-09-99	1107	730	.1	1	7.1	518	14.5	6.86	--	--	--
01-26-00	1107	728	.4	4	7.0	514	13.0	10.2	--	--	--
03-13-00	1107	739	.5	5	7.1	538	12.0	10.3	--	--	--
05-16-00	1107	730	.5	5	7.2	508	11.5	7.36	--	--	--
07-11-00	1107	729	.1	1	6.9	497	12.5	4.84	<.050	<.050	<.05
09-13-00	1107	734	.3	3	6.9	496	14.0	1.94	--	--	--
11-09-99	1107	730	.1	1	7.5	526	12.0	.788	--	--	--
01-26-00	1107	728	.1	1	7.4	526	12.0	1.15	--	--	--
03-13-00	1107	739	.1	1	7.3	530	12.0	1.38	--	--	--
05-16-00	1107	730	.2	1	7.3	532	12.0	1.56	--	--	--
07-11-00	1107	729	M	0	7.4	536	12.5	1.89	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

PAPIO-MISSOURI STUDY--Continued
WATER QUALITY FROM WELL NESTS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	BUTA-CHLOR, WATER, DISS, REC (UG/L) (04026)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BOXIN, WATER, DISS, REC (UG/L) (04027)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	SI-CLOATE, WATER, DISS, REC (UG/L) (04031)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DEISO-PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)	DIPHEN-AMID, WATER, DISS, REC (UG/L) (04033)	HEXA-ZINONE, WATER, DISS, REC (UG/L) (04025)
BURT COUNTY											
11-08-99	--	--	--	--	--	--	--	--	--	--	--
01-27-00	--	--	--	--	--	--	--	--	--	--	--
03-14-00	--	--	--	--	--	--	--	--	--	--	--
05-17-00	--	--	--	--	--	--	--	--	--	--	--
07-10-00	--	--	--	--	--	--	--	--	--	--	--
09-12-00	--	--	--	--	--	--	--	--	--	--	--
11-08-99	--	--	--	--	--	--	--	--	--	--	--
01-27-00	--	--	--	--	--	--	--	--	--	--	--
03-14-00	--	--	--	--	--	--	--	--	--	--	--
05-17-00	--	--	--	--	--	--	--	--	--	--	--
07-10-00	--	--	--	--	--	--	--	--	--	--	--
09-12-00	--	--	--	--	--	--	--	--	--	--	--
11-08-99	--	--	--	--	--	--	--	--	--	--	--
01-27-00	--	--	--	--	--	--	--	--	--	--	--
03-14-00	--	--	--	--	--	--	--	--	--	--	--
05-17-00	--	--	--	--	--	--	--	--	--	--	--
07-10-00	--	--	--	--	--	--	--	--	--	--	--
09-12-00	--	--	--	--	--	--	--	--	--	--	--
DAKOTA COUNTY											
11-08-99	--	--	--	--	--	--	--	--	--	--	--
01-27-00	--	--	--	--	--	--	--	--	--	--	--
03-14-00	--	--	--	--	--	--	--	--	--	--	--
05-17-00	--	--	--	--	--	--	--	--	--	--	--
07-10-00	--	--	--	--	--	--	--	--	--	--	--
09-12-00	--	--	--	--	--	--	--	--	--	--	--
11-08-99	--	--	--	--	--	--	--	--	--	--	--
01-27-00	--	--	--	--	--	--	--	--	--	--	--
03-14-00	--	--	--	--	--	--	--	--	--	--	--
05-17-00	--	--	--	--	--	--	--	--	--	--	--
07-10-00	--	--	--	--	--	--	--	--	--	--	--
09-12-00	--	--	--	--	--	--	--	--	--	--	--
11-08-99	--	--	--	--	--	--	--	--	--	--	--
01-27-00	--	--	--	--	--	--	--	--	--	--	--
03-14-00	--	--	--	--	--	--	--	--	--	--	--
05-17-00	--	--	--	--	--	--	--	--	--	--	--
07-10-00	<.050	<.05	<.05	<.050	<.05	<.200	<.05	<.050	<.05	<.05	<.05
09-12-00	--	--	--	--	--	--	--	--	--	--	--
DOUGLAS COUNTY											
11-09-99	--	--	--	--	--	--	--	--	--	--	--
01-26-00	--	--	--	--	--	--	--	--	--	--	--
03-13-00	--	--	--	--	--	--	--	--	--	--	--
05-16-00	--	--	--	--	--	--	--	--	--	--	--
07-11-00	E.013	<.05	<.05	<.050	[illegible]	<.200	<.05	E.017	<.05	<.05	<.05
09-13-00	--	--	--	--	--	--	--	--	--	--	--
11-09-99	--	--	--	--	--	--	--	--	--	--	--
01-26-00	--	--	--	--	--	--	--	--	--	--	--
03-13-00	--	--	--	--	--	--	--	--	--	--	--
05-16-00	--	--	--	--	--	--	--	--	--	--	--
07-11-00	--	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

PAPIO-MISSOURI STUDY--Continued
WATER QUALITY FROM WELL NESTS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRO-METRYN, WATER, DISS, REC (UG/L) (04036)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PROP-AZINE WATER DISS REC (UG/L) (38535)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	SIMA-TRYN, WATER, DISS, REC (UG/L) (04030)	TER-BACIL, WATER, DISS, REC (UG/L) (04032)	TRI-FLUR-ALIN, WATER, DISS, REC (UG/L) (04023)	VERNO-LATE, WATER, DISS, REC (UG/L) (04034)
					BURT COUNTY						
11-08-99	--	--	--	--	--	--	--	--	--	--	--
01-27-00	--	--	--	--	--	--	--	--	--	--	--
03-14-00	--	--	--	--	--	--	--	--	--	--	--
05-17-00	--	--	--	--	--	--	--	--	--	--	--
07-10-00	--	--	--	--	--	--	--	--	--	--	--
09-12-00	--	--	--	--	--	--	--	--	--	--	--
11-08-99	--	--	--	--	--	--	--	--	--	--	--
01-27-00	--	--	--	--	--	--	--	--	--	--	--
03-14-00	--	--	--	--	--	--	--	--	--	--	--
05-17-00	--	--	--	--	--	--	--	--	--	--	--
07-10-00	--	--	--	--	--	--	--	--	--	--	--
09-12-00	--	--	--	--	--	--	--	--	--	--	--
11-08-99	--	--	--	--	--	--	--	--	--	--	--
01-27-00	--	--	--	--	--	--	--	--	--	--	--
03-14-00	--	--	--	--	--	--	--	--	--	--	--
05-17-00	--	--	--	--	--	--	--	--	--	--	--
07-10-00	--	--	--	--	--	--	--	--	--	--	--
09-12-00	--	--	--	--	--	--	--	--	--	--	--
					DAKOTA COUNTY						
11-08-99	--	--	--	--	--	--	--	--	--	--	--
01-27-00	--	--	--	--	--	--	--	--	--	--	--
03-14-00	--	--	--	--	--	--	--	--	--	--	--
05-17-00	--	--	--	--	--	--	--	--	--	--	--
07-10-00	--	--	--	--	--	--	--	--	--	--	--
09-12-00	--	--	--	--	--	--	--	--	--	--	--
11-08-99	--	--	--	--	--	--	--	--	--	--	--
01-27-00	--	--	--	--	--	--	--	--	--	--	--
03-14-00	--	--	--	--	--	--	--	--	--	--	--
05-17-00	--	--	--	--	--	--	--	--	--	--	--
07-10-00	--	--	--	--	--	--	--	--	--	--	--
09-12-00	--	--	--	--	--	--	--	--	--	--	--
11-08-99	--	--	--	--	--	--	--	--	--	--	--
01-27-00	--	--	--	--	--	--	--	--	--	--	--
03-14-00	--	--	--	--	--	--	--	--	--	--	--
05-17-00	--	--	--	--	--	--	--	--	--	--	--
07-10-00	<.050	<.050	<.050	<.05	<.050	<.05	<.050	<.05	<.05	<.05	<.05
09-12-00	--	--	--	--	--	--	--	--	--	--	--
					DOUGLAS COUNTY						
11-09-99	--	--	--	--	--	--	--	--	--	--	--
01-26-00	--	--	--	--	--	--	--	--	--	--	--
03-13-00	--	--	--	--	--	--	--	--	--	--	--
05-16-00	--	--	--	--	--	--	--	--	--	--	--
07-11-00	<.050	<.050	<.050	<.05	<.050	<.05	<.050	<.05	<.05	<.05	<.05
09-13-00	--	--	--	--	--	--	--	--	--	--	--
11-09-99	--	--	--	--	--	--	--	--	--	--	--
01-26-00	--	--	--	--	--	--	--	--	--	--	--
03-13-00	--	--	--	--	--	--	--	--	--	--	--
05-16-00	--	--	--	--	--	--	--	--	--	--	--
07-11-00	--	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

PAPIO-MISSOURI STUDY--Continued
WATER QUALITY FROM WELL NESTS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	GEOLOGIC UNIT	HYDROLOGIC UNIT CODE	DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)
			DOUGLAS COUNTY					
411231096193201	14N 10E 5CBDD1	41 12 31 N	096 19 32 W	112SDGV	10220003	09-13-00	1050	98.00
411231096193202	14N 10E 5CBDD2			112SDGV	10220003	11-09-99	1310	58.00
				112SDGV	10220003	01-26-00	1450	58.00
				112SDGV	10220003	03-13-00	1400	58.00
				112SDGV	10220003	05-16-00	1440	58.00
				112SDGV	10220003	07-11-00	1400	58.00
				112SDGV	10220003	09-13-00	1110	58.00
412151096180801	16N 10E16BAAA1	41 21 51 N	096 18 08 W	112SDGV	10220003	11-10-99	1350	33.00
				112SDGV	10220003	01-28-00	0900	33.00
				112SDGV	10220003	03-16-00	1410	33.00
				112SDGV	10220003	05-18-00	1400	33.00
				112SDGV	10220003	07-12-00	1420	33.00
				112SDGV	10220003	09-12-00	1900	33.00
412151096180802	16N 10E16BAAA2			112SDGV	10220003	11-10-99	1410	25.00
				112SDGV	10220003	01-28-00	0915	25.00
				112SDGV	10220003	03-16-00	1430	25.00
				112SDGV	10220003	05-18-00	1410	25.00
				112SDGV	10220003	07-12-00	1440	25.00
				112SDGV	10220003	09-12-00	1920	25.00
			SARPY COUNTY					
410243096082001	12N 11E 1BBBB1	41 02 43 N	096 08 20 W	112SDGV	10200202	11-09-99	1015	83.00
				112SDGV	10200202	01-26-00	1210	83.00
				112SDGV	10200202	03-13-00	1145	83.00
				112SDGV	10200202	05-16-00	1145	83.00
				112SDGV	10200202	07-11-00	1110	83.00
				112SDGV	10200202	09-11-00	1230	83.00
410243096082002	12N 11E 1BBBB2			112SDGV	10200202	11-09-99	1040	70.00
				112SDGV	10200202	03-13-00	1200	70.00
				112SDGV	10200202	05-16-00	1200	70.00
				112SDGV	10200202	07-11-00	1130	70.00
				112SDGV	10200202	09-11-00	1245	70.00
410243096082003	12N 11E 1BBBB3			112SDGV	10200202	11-09-99	1100	55.00
				112SDGV	10200202	01-26-00	1245	55.00
				112SDGV	10200202	03-13-00	1215	55.00
				112SDGV	10200202	05-16-00	1215	55.00
				112SDGV	10200202	07-11-00	1145	55.00
				112SDGV	10200202	09-11-00	1300	55.00
410334096182801	13N 10E33BBAB1	41 03 34 N	096 18 28 W	112SDGV	10200202	11-09-99	0830	55.00
				112SDGV	10200202	01-26-00	1030	55.00
				112SDGV	10200202	03-13-00	1000	55.00
				112SDGV	10200202	05-16-00	0945	55.00
				112SDGV	10200202	05-31-00	1200	55.00
				112SDGV	10200202	07-11-00	0845	55.00
				112SDGV	10200202	09-11-00	1045	55.00
410334096182802	13N 10E33BBAB2			112SDGV	10200202	11-09-99	0845	37.50
				112SDGV	10200202	01-26-00	1040	37.50
				112SDGV	10200202	03-13-00	1015	37.50
				112SDGV	10200202	05-16-00	1000	37.50
				112SDGV	10200202	07-11-00	0900	37.50
				112SDGV	10200202	09-11-00	1100	37.50

CHEMICAL ANALYSES OF GROUND WATER

PAPIO-MISSOURI STUDY--Continued
WATER QUALITY FROM WELL NESTS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	AMETRYN WATER, DISS, REC, (UG/L) (38401)
					DOUGLAS COUNTY						
09-13-00	1107	734	M	0	7.3	536	12.0	1.78	--	--	--
11-09-99	1107	730	.1	0	7.4	690	12.0	3.82	--	--	--
01-26-00	1107	728	M	0	7.3	564	12.0	3.51	--	--	--
03-13-00	1107	739	.1	1	7.3	517	12.0	2.23	--	--	--
05-16-00	1107	730	.2	2	7.4	576	12.5	1.86	--	--	--
07-11-00	1107	729	M	0	7.4	568	12.5	1.85	<.050	<.050	<.05
09-13-00	1107	734	M	0	7.3	572	12.5	2.16	--	--	--
11-10-99	1136	731	.3	3	7.4	596	12.0	<.050	--	--	--
01-28-00	1136	729	1.2	12	7.3	544	12.0	<.050	--	--	--
03-16-00	1136	740	1.2	--	7.2	--	12.0	<.050	--	--	--
05-18-00	1136	728	1.2	12	7.1	539	11.5	<.050	--	--	--
07-12-00	1136	730	.7	7	7.3	553	12.0	<.050	--	--	--
09-12-00	1136	730	1.3	13	7.3	546	12.0	<.050	--	--	--
11-10-99	1136	731	.4	4	7.5	556	12.5	<.050	--	--	--
01-28-00	1136	729	.5	5	7.2	594	12.0	<.050	--	--	--
03-16-00	1136	740	.5	--	7.3	--	12.0	<.050	--	--	--
05-18-00	1136	728	.4	4	7.0	594	12.0	<.050	--	--	--
07-12-00	1136	730	.7	7	7.2	592	12.0	<.050	--	--	--
09-12-00	1136	730	.1	1	7.2	584	12.0	<.050	--	--	--
					SARPY COUNTY						
11-09-99	1020	730	.9	9	7.4	524	12.5	5.47	--	--	--
01-26-00	1020	728	5.6	55	7.2	511	12.5	5.04	--	--	--
03-13-00	1020	739	6.1	60	7.0	512	12.5	4.41	--	--	--
05-16-00	1020	729	6.0	59	7.2	511	12.5	4.67	--	--	--
07-11-00	1020	728	1.1	11	7.2	507	12.5	4.99	--	--	--
09-11-00	1020	728	5.6	--	7.2	--	12.5	4.62	--	--	--
11-09-99	1020	730	1.0	10	7.2	516	12.5	5.20	--	--	--
03-13-00	1020	739	5.5	53	7.1	504	12.5	4.44	--	--	--
05-16-00	1020	729	5.6	55	7.2	505	12.5	4.44	--	--	--
07-11-00	1020	728	1.0	10	7.2	501	12.5	4.50	--	--	--
09-11-00	1020	728	1.6	--	7.2	--	12.5	4.58	--	--	--
11-09-99	1020	730	.6	6	7.4	508	12.5	2.14	--	--	--
01-26-00	1020	728	2.9	29	7.2	491	12.5	1.95	--	--	--
03-13-00	1020	739	2.7	26	7.1	494	12.5	1.94	--	--	--
05-16-00	1020	729	3.1	30	7.2	496	12.5	2.07	--	--	--
07-11-00	1020	728	.5	5	7.2	492	12.5	2.14	--	--	--
09-11-00	1020	728	5.2	--	7.1	--	12.5	2.10	--	--	--
11-09-99	1055	730	.1	1	7.7	492	12.5	<.050	--	--	--
01-26-00	1055	728	.1	1	7.4	491	12.0	<.050	--	--	--
03-13-00	1055	739	.2	--	7.3	--	12.5	<.050	--	--	--
05-16-00	1055	730	.3	3	7.4	494	12.5	<.050	--	--	--
05-31-00	1055	731	.7	7	6.9	491	12.8	--	--	--	--
07-11-00	1055	730	.1	1	7.6	488	12.5	<.050	--	--	--
09-11-00	1055	730	M	--	7.4	--	13.0	<.050	--	--	--
11-09-99	1055	730	.1	1	7.8	482	12.5	<.050	--	--	--
01-26-00	1055	728	.1	1	7.4	464	12.5	<.050	--	--	--
03-13-00	1055	739	.2	--	7.4	--	12.5	<.050	--	--	--
05-16-00	1055	730	.3	3	7.4	470	12.5	<.050	--	--	--
07-11-00	1055	730	.1	1	7.6	463	12.5	<.050	<.050	<.050	<.05
09-11-00	1055	730	M	--	7.4	--	13.0	<.050	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

PAPIO-MISSOURI STUDY--Continued
WATER QUALITY FROM WELL NESTS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	BUTA-CHLOR, WATER, DISS, REC (UG/L) (04026)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BOXIN, WATER, DISS, REC (UG/L) (04027)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	SI-CLOATE, WATER, DISS, REC (UG/L) (04031)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DEISO-PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)	DIPHEN-AMID, WATER, DISS, REC (UG/L) (04033)	HEXA-ZINONE, WATER, DISS, REC (UG/L) (04025)
					DOUGLAS COUNTY						
09-13-00	--	--	--	--	--	--	--	--	--	--	--
11-09-99	--	--	--	--	--	--	--	--	--	--	--
01-26-00	--	--	--	--	--	--	--	--	--	--	--
03-13-00	--	--	--	--	--	--	--	--	--	--	--
05-16-00	--	--	--	--	--	--	--	--	--	--	--
07-11-00	.062	<.05	<.05	<.050	<.05	<.200	<.05	.075	<.05	<.05	<.05
09-13-00	--	--	--	--	--	--	--	--	--	--	--
11-10-99	--	--	--	--	--	--	--	--	--	--	--
01-28-00	--	--	--	--	--	--	--	--	--	--	--
03-16-00	--	--	--	--	--	--	--	--	--	--	--
05-18-00	--	--	--	--	--	--	--	--	--	--	--
07-12-00	--	--	--	--	--	--	--	--	--	--	--
09-12-00	--	--	--	--	--	--	--	--	--	--	--
11-10-99	--	--	--	--	--	--	--	--	--	--	--
01-28-00	--	--	--	--	--	--	--	--	--	--	--
03-16-00	--	--	--	--	--	--	--	--	--	--	--
05-18-00	--	--	--	--	--	--	--	--	--	--	--
07-12-00	--	--	--	--	--	--	--	--	--	--	--
09-12-00	--	--	--	--	--	--	--	--	--	--	--
					SARPY COUNTY						
11-09-99	--	--	--	--	--	--	--	--	--	--	--
01-26-00	--	--	--	--	--	--	--	--	--	--	--
03-13-00	--	--	--	--	--	--	--	--	--	--	--
05-16-00	--	--	--	--	--	--	--	--	--	--	--
07-11-00	--	--	--	--	--	--	--	--	--	--	--
09-11-00	--	--	--	--	--	--	--	--	--	--	--
11-09-99	--	--	--	--	--	--	--	--	--	--	--
03-13-00	--	--	--	--	--	--	--	--	--	--	--
05-16-00	--	--	--	--	--	--	--	--	--	--	--
07-11-00	--	--	--	--	--	--	--	--	--	--	--
09-11-00	--	--	--	--	--	--	--	--	--	--	--
11-09-99	--	--	--	--	--	--	--	--	--	--	--
01-26-00	--	--	--	--	--	--	--	--	--	--	--
03-13-00	--	--	--	--	--	--	--	--	--	--	--
05-16-00	--	--	--	--	--	--	--	--	--	--	--
07-11-00	--	--	--	--	--	--	--	--	--	--	--
09-11-00	--	--	--	--	--	--	--	--	--	--	--
11-09-99	--	--	--	--	--	--	--	--	--	--	--
01-26-00	--	--	--	--	--	--	--	--	--	--	--
03-13-00	--	--	--	--	--	--	--	--	--	--	--
05-16-00	--	--	--	--	--	--	--	--	--	--	--
05-31-00	--	--	--	--	--	--	--	--	--	--	--
07-11-00	--	--	--	--	--	--	--	--	--	--	--
09-11-00	--	--	--	--	--	--	--	--	--	--	--
11-09-99	--	--	--	--	--	--	--	--	--	--	--
01-26-00	--	--	--	--	--	--	--	--	--	--	--
03-13-00	--	--	--	--	--	--	--	--	--	--	--
05-16-00	--	--	--	--	--	--	--	--	--	--	--
07-11-00	.096	<.05	<.05	<.050	<.05	E.040	<.05	E.031	<.05	<.05	<.05
09-11-00	--	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

PAPIO-MISSOURI STUDY--Continued
WATER QUALITY FROM WELL NESTS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRO-METRYN, WATER, DISS, REC (UG/L) (04036)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PROP-AZINE WATER DISS REC (UG/L) (38535)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	SIMA-TRYN, WATER, DISS, REC (UG/L) (04030)	TER-BACIL, WATER, DISS, REC (UG/L) (04032)	TRI-FLUR-ALIN, WATER, DISS, REC (UG/L) (04023)	VERNO-LATE, WATER, DISS, REC (UG/L) (04034)
					DOUGLAS COUNTY						
09-13-00	--	--	--	--	--	--	--	--	--	--	--
11-09-99	--	--	--	--	--	--	--	--	--	--	--
01-26-00	--	--	--	--	--	--	--	--	--	--	--
03-13-00	--	--	--	--	--	--	--	--	--	--	--
05-16-00	--	--	--	--	--	--	--	--	--	--	--
07-11-00	<.050	<.050	<.050	<.05	<.050	<.05	<.050	<.05	<.05	<.05	<.05
09-13-00	--	--	--	--	--	--	--	--	--	--	--
11-10-99	--	--	--	--	--	--	--	--	--	--	--
01-28-00	--	--	--	--	--	--	--	--	--	--	--
03-16-00	--	--	--	--	--	--	--	--	--	--	--
05-18-00	--	--	--	--	--	--	--	--	--	--	--
07-12-00	--	--	--	--	--	--	--	--	--	--	--
09-12-00	--	--	--	--	--	--	--	--	--	--	--
11-10-99	--	--	--	--	--	--	--	--	--	--	--
01-28-00	--	--	--	--	--	--	--	--	--	--	--
03-16-00	--	--	--	--	--	--	--	--	--	--	--
05-18-00	--	--	--	--	--	--	--	--	--	--	--
07-12-00	--	--	--	--	--	--	--	--	--	--	--
09-12-00	--	--	--	--	--	--	--	--	--	--	--
					SARPY COUNTY						
11-09-99	--	--	--	--	--	--	--	--	--	--	--
01-26-00	--	--	--	--	--	--	--	--	--	--	--
03-13-00	--	--	--	--	--	--	--	--	--	--	--
05-16-00	--	--	--	--	--	--	--	--	--	--	--
07-11-00	--	--	--	--	--	--	--	--	--	--	--
09-11-00	--	--	--	--	--	--	--	--	--	--	--
11-09-99	--	--	--	--	--	--	--	--	--	--	--
03-13-00	--	--	--	--	--	--	--	--	--	--	--
05-16-00	--	--	--	--	--	--	--	--	--	--	--
07-11-00	--	--	--	--	--	--	--	--	--	--	--
09-11-00	--	--	--	--	--	--	--	--	--	--	--
11-09-99	--	--	--	--	--	--	--	--	--	--	--
01-26-00	--	--	--	--	--	--	--	--	--	--	--
03-13-00	--	--	--	--	--	--	--	--	--	--	--
05-16-00	--	--	--	--	--	--	--	--	--	--	--
07-11-00	--	--	--	--	--	--	--	--	--	--	--
09-11-00	--	--	--	--	--	--	--	--	--	--	--
11-09-99	--	--	--	--	--	--	--	--	--	--	--
01-26-00	--	--	--	--	--	--	--	--	--	--	--
03-13-00	--	--	--	--	--	--	--	--	--	--	--
05-16-00	--	--	--	--	--	--	--	--	--	--	--
05-31-00	--	--	--	--	--	--	--	--	--	--	--
07-11-00	--	--	--	--	--	--	--	--	--	--	--
09-11-00	--	--	--	--	--	--	--	--	--	--	--
11-09-99	--	--	--	--	--	--	--	--	--	--	--
01-26-00	--	--	--	--	--	--	--	--	--	--	--
03-13-00	--	--	--	--	--	--	--	--	--	--	--
05-16-00	--	--	--	--	--	--	--	--	--	--	--
07-11-00	<.050	<.050	<.050	<.05	<.050	<.05	<.050	<.05	<.05	<.05	<.05
09-11-00	--	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

PAPIO-MISSOURI STUDY--Continued
WATER QUALITY FROM WELL NESTS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	GEOLOGIC UNIT	HYDROLOGIC UNIT CODE	DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)
			SARPY COUNTY					
410334096182803	13N 10E33BBAB3	41 03 34 N	096 18 28 W	112SDGV	10200202	11-09-99	0900	21.00
				112SDGV	10200202	01-26-00	1050	21.00
				112SDGV	10200202	03-13-00	1030	21.00
				112SDGV	10200202	05-16-00	1015	21.00
				112SDGV	10200202	07-11-00	0915	21.00
				112SDGV	10200202	09-11-00	1110	21.00
			THURSTON COUNTY					
420840096290901	25N 8E14ADBA1	42 08 40 N	096 29 09 W	--	10230001	11-08-99	1000	162.00
				--	10230001	01-27-00	1030	162.00
				--	10230001	03-14-00	1120	162.00
				--	10230001	05-17-00	1250	162.00
				--	10230001	07-10-00	1145	162.00
				--	10230001	09-12-00	0945	162.00
420840096290902	25N 8E14ADBA2			--	10230001	11-08-99	1040	133.00
				--	10230001	01-27-00	1110	133.00
				--	10230001	03-14-00	1200	133.00
				--	10230001	05-17-00	1315	133.00
				--	10230001	07-10-00	1230	133.00
				--	10230001	09-12-00	1030	133.00
420840096290903	25N 8E14ADBA3			--	10230001	11-08-99	1115	104.50
				--	10230001	01-27-00	1140	104.50
				--	10230001	03-14-00	1230	104.50
				--	10230001	05-17-00	1340	104.50
				--	10230001	07-10-00	1300	104.50
				--	10230001	09-12-00	1100	104.50
			WASHINGTON COUNTY					
412527096081201	17N 11E24CCBC1	41 25 27 N	096 08 12 W	112SDGV	10230006	11-10-99	1130	225.00
				112SDGV	10230006	03-16-00	1245	225.00
				112SDGV	10230006	05-18-00	1245	225.00
				112SDGV	10230006	07-12-00	1230	225.00
				112SDGV	10230006	09-13-00	1250	225.00
412527096081202	17N 11E24CCBC2			112SDGV	10230006	11-10-99	1150	193.50
				112SDGV	10230006	01-25-00	1300	193.50
412527096081203	17N 11E24CCBC3			112SDGV	10230006	11-10-99	1210	168.00
				112SDGV	10230006	01-25-00	1315	168.00
				112SDGV	10230006	03-16-00	1300	168.00
				112SDGV	10230006	05-18-00	1300	168.00
				112SDGV	10230006	07-12-00	1300	168.00
412637095565901	17N 13E16BDAA1	41 26 37 N	095 56 59 W	112SDGV	10230006	11-10-99	0845	100.00
				112SDGV	10230006	01-25-00	0945	100.00
				112SDGV	10230006	03-16-00	1015	100.00
				112SDGV	10230006	05-18-00	1000	100.00
				112SDGV	10230006	07-12-00	1000	100.00
				112SDGV	10230006	09-12-00	1715	100.00
412637095565902	17N 13E16DBAA2			112SDGV	10230006	11-10-99	0900	60.00
				112SDGV	10230006	01-25-00	1000	60.00
				112SDGV	10230006	03-16-00	1040	60.00
				112SDGV	10230006	05-18-00	1020	60.00
				112SDGV	10230006	07-12-00	1015	60.00

CHEMICAL ANALYSES OF GROUND WATER

PAPIO-MISSOURI STUDY--Continued
WATER QUALITY FROM WELL NESTS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	AMETRYN WATER, DISS, REC, (UG/L) (38401)
					SARPY COUNTY						
11-09-99	1055	730	.1	1	7.4	724	14.0	<.050	--	--	--
01-26-00	1055	728	.1	1	7.2	594	13.0	<.050	--	--	--
03-13-00	1055	739	.4	--	7.1	--	12.0	<.050	--	--	--
05-16-00	1055	730	.6	6	7.2	746	11.5	<.050	--	--	--
07-11-00	1055	730	.1	1	7.3	646	12.0	<.050	<.050	<.050	<.05
09-11-00	1055	730	.3	--	7.2	--	13.5	<.050	--	--	--
					THURSTON COUNTY						
11-08-99	1212	732	.2	1	7.2	1080	11.5	<.050	--	--	--
01-27-00	1212	730	.2	2	7.2	987	11.0	<.050	--	--	--
03-14-00	1212	729	.1	1	7.4	978	11.0	<.050	--	--	--
05-17-00	1212	730	.1	1	7.3	972	11.0	<.050	--	--	--
07-10-00	1212	730	.1	1	7.1	948	11.0	<.050	--	--	--
09-12-00	1212	732	.1	0	7.1	962	11.0	<.050	--	--	--
11-08-99	1212	732	.1	1	7.2	908	11.0	<.050	--	--	--
01-27-00	1212	730	.2	1	7.1	978	11.0	<.050	--	--	--
03-14-00	1212	729	.1	1	7.0	968	11.0	<.050	--	--	--
05-17-00	1212	730	.1	1	7.1	874	11.0	<.050	--	--	--
07-10-00	1212	730	.1	1	7.1	858	11.0	<.050	--	--	--
09-12-00	1212	732	M	0	7.1	866	11.0	<.050	--	--	--
11-08-99	1212	732	.1	1	7.2	826	11.0	<.050	--	--	--
01-27-00	1212	730	.2	2	7.1	914	11.0	<.050	--	--	--
03-14-00	1212	729	.1	1	7.1	796	11.0	<.050	--	--	--
05-17-00	1212	730	.1	1	7.1	804	11.0	<.050	--	--	--
07-10-00	1212	730	M	0	7.1	791	11.0	<.050	<.050	<.050	<.05
09-12-00	1212	732	.1	1	7.1	794	11.0	<.050	--	--	--
					WASHINGTON COUNTY						
11-10-99	1210	728	1.0	10	7.4	788	13.5	<.050	--	--	--
03-16-00	1210	736	3.9	--	7.3	--	13.5	<.050	--	--	--
05-18-00	1210	726	4.1	41	7.2	760	13.5	<.050	--	--	--
07-12-00	1210	732	2.2	22	7.3	756	14.0	<.050	--	--	--
09-13-00	1210	732	3.9	40	7.3	745	14.0	<.050	--	--	--
11-10-99	1208	728	.7	7	7.8	672	14.0	<.050	--	--	--
01-25-00	1208	729	4.6	46	7.5	731	13.0	<.050	--	--	--
11-10-99	1206	728	.8	8	7.8	586	13.5	<.050	--	--	--
01-25-00	1206	729	3.5	34	7.6	575	13.0	<.050	--	--	--
03-16-00	1206	736	3.6	--	7.6	--	13.0	<.050	--	--	--
05-18-00	1206	726	3.6	36	7.4	584	13.0	<.050	--	--	--
07-12-00	1206	732	2.0	20	7.7	567	14.0	<.050	--	--	--
11-10-99	995	732	.1	1	7.4	1110	12.5	<.050	--	--	--
01-25-00	995	730	.1	1	7.0	1100	12.5	<.050	--	--	--
03-16-00	995	743	.1	--	7.2	--	12.5	<.050	--	--	--
05-18-00	995	728	.1	1	6.9	1100	12.5	<.050	--	--	--
07-12-00	995	728	.1	1	7.2	1130	12.5	<.050	--	--	--
09-12-00	995	728	.1	1	7.2	1130	12.5	<.050	--	--	--
11-10-99	995	732	.1	1	7.4	1220	12.5	<.050	--	--	--
01-25-00	995	730	.1	1	7.1	1300	11.5	<.050	--	--	--
03-16-00	995	743	.1	--	7.2	--	12.5	<.050	--	--	--
05-18-00	995	728	.1	1	6.9	1180	12.5	<.050	--	--	--
07-12-00	995	728	.1	1	7.2	1170	12.5	<.050	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

PAPIO-MISSOURI STUDY--Continued
WATER QUALITY FROM WELL NESTS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BROMACIL, WATER, DISS, REC (UG/L) (04029)	BUTACHLOR, WATER, DISS, REC (UG/L) (04026)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBOXIN, WATER, DISS, REC (UG/L) (04027)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	SIMAZINE, WATER, DISS, REC (UG/L) (04031)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DEISOPROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)	DIPHENAMID, WATER, DISS, REC (UG/L) (04033)	HEXAZINONE, WATER, DISS, REC (UG/L) (04025)
					SARPY COUNTY						
11-09-99	--	--	--	--	--	--	--	--	--	--	--
01-26-00	--	--	--	--	--	--	--	--	--	--	--
03-13-00	--	--	--	--	--	--	--	--	--	--	--
05-16-00	--	--	--	--	--	--	--	--	--	--	--
07-11-00	E.017	<.05	<.05	<.050	<.05	<.200	<.05	E.006	<.05	<.05	<.05
09-11-00	--	--	--	--	--	--	--	--	--	--	--
					THURSTON COUNTY						
11-08-99	--	--	--	--	--	--	--	--	--	--	--
01-27-00	--	--	--	--	--	--	--	--	--	--	--
03-14-00	--	--	--	--	--	--	--	--	--	--	--
05-17-00	--	--	--	--	--	--	--	--	--	--	--
07-10-00	--	--	--	--	--	--	--	--	--	--	--
09-12-00	--	--	--	--	--	--	--	--	--	--	--
11-08-99	--	--	--	--	--	--	--	--	--	--	--
01-27-00	--	--	--	--	--	--	--	--	--	--	--
03-14-00	--	--	--	--	--	--	--	--	--	--	--
05-17-00	--	--	--	--	--	--	--	--	--	--	--
07-10-00	--	--	--	--	--	--	--	--	--	--	--
09-12-00	--	--	--	--	--	--	--	--	--	--	--
11-08-99	--	--	--	--	--	--	--	--	--	--	--
01-27-00	--	--	--	--	--	--	--	--	--	--	--
03-14-00	--	--	--	--	--	--	--	--	--	--	--
05-17-00	--	--	--	--	--	--	--	--	--	--	--
07-10-00	<.050	<.05	<.05	<.050	<.05	<.200	<.05	<.050	<.05	<.05	<.05
09-12-00	--	--	--	--	--	--	--	--	--	--	--
					WASHINGTON COUNTY						
11-10-99	--	--	--	--	--	--	--	--	--	--	--
03-16-00	--	--	--	--	--	--	--	--	--	--	--
05-18-00	--	--	--	--	--	--	--	--	--	--	--
07-12-00	--	--	--	--	--	--	--	--	--	--	--
09-13-00	--	--	--	--	--	--	--	--	--	--	--
11-10-99	--	--	--	--	--	--	--	--	--	--	--
01-25-00	--	--	--	--	--	--	--	--	--	--	--
11-10-99	--	--	--	--	--	--	--	--	--	--	--
01-25-00	--	--	--	--	--	--	--	--	--	--	--
03-16-00	--	--	--	--	--	--	--	--	--	--	--
05-18-00	--	--	--	--	--	--	--	--	--	--	--
07-12-00	--	--	--	--	--	--	--	--	--	--	--
11-10-99	--	--	--	--	--	--	--	--	--	--	--
01-25-00	--	--	--	--	--	--	--	--	--	--	--
03-16-00	--	--	--	--	--	--	--	--	--	--	--
05-18-00	--	--	--	--	--	--	--	--	--	--	--
07-12-00	--	--	--	--	--	--	--	--	--	--	--
09-12-00	--	--	--	--	--	--	--	--	--	--	--
11-10-99	--	--	--	--	--	--	--	--	--	--	--
01-25-00	--	--	--	--	--	--	--	--	--	--	--
03-16-00	--	--	--	--	--	--	--	--	--	--	--
05-18-00	--	--	--	--	--	--	--	--	--	--	--
07-12-00	--	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

PAPIO-MISSOURI STUDY--Continued
WATER QUALITY FROM WELL NESTS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	PROMETON, WATER, DISS, REC (UG/L) (04037)	PROMETRYN, WATER, DISS, REC (UG/L) (04036)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	PROPAZINE WATER DISS REC (UG/L) (38535)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	SIMATRYN, WATER, DISS, REC (UG/L) (04030)	TERBACIL, WATER, DISS, REC (UG/L) (04032)	TRIFLURALIN, WATER, DISS, REC (UG/L) (04023)	VERNOLATE, WATER, DISS, REC (UG/L) (04034)
SARPY COUNTY											
11-09-99	--	--	--	--	--	--	--	--	--	--	--
01-26-00	--	--	--	--	--	--	--	--	--	--	--
03-13-00	--	--	--	--	--	--	--	--	--	--	--
05-16-00	--	--	--	--	--	--	--	--	--	--	--
07-11-00	<.050	<.050	<.050	<.05	<.050	<.05	<.050	<.05	<.05	<.05	<.05
09-11-00	--	--	--	--	--	--	--	--	--	--	--
THURSTON COUNTY											
11-08-99	--	--	--	--	--	--	--	--	--	--	--
01-27-00	--	--	--	--	--	--	--	--	--	--	--
03-14-00	--	--	--	--	--	--	--	--	--	--	--
05-17-00	--	--	--	--	--	--	--	--	--	--	--
07-10-00	--	--	--	--	--	--	--	--	--	--	--
09-12-00	--	--	--	--	--	--	--	--	--	--	--
11-08-99	--	--	--	--	--	--	--	--	--	--	--
01-27-00	--	--	--	--	--	--	--	--	--	--	--
03-14-00	--	--	--	--	--	--	--	--	--	--	--
05-17-00	--	--	--	--	--	--	--	--	--	--	--
07-10-00	--	--	--	--	--	--	--	--	--	--	--
09-12-00	--	--	--	--	--	--	--	--	--	--	--
11-08-99	--	--	--	--	--	--	--	--	--	--	--
01-27-00	--	--	--	--	--	--	--	--	--	--	--
03-14-00	--	--	--	--	--	--	--	--	--	--	--
05-17-00	--	--	--	--	--	--	--	--	--	--	--
07-10-00	<.050	<.050	<.050	<.05	<.050	<.05	<.050	<.05	<.05	<.05	<.05
09-12-00	--	--	--	--	--	--	--	--	--	--	--
WASHINGTON COUNTY											
11-10-99	--	--	--	--	--	--	--	--	--	--	--
03-16-00	--	--	--	--	--	--	--	--	--	--	--
05-18-00	--	--	--	--	--	--	--	--	--	--	--
07-12-00	--	--	--	--	--	--	--	--	--	--	--
09-13-00	--	--	--	--	--	--	--	--	--	--	--
11-10-99	--	--	--	--	--	--	--	--	--	--	--
01-25-00	--	--	--	--	--	--	--	--	--	--	--
11-10-99	--	--	--	--	--	--	--	--	--	--	--
01-25-00	--	--	--	--	--	--	--	--	--	--	--
03-16-00	--	--	--	--	--	--	--	--	--	--	--
05-18-00	--	--	--	--	--	--	--	--	--	--	--
07-12-00	--	--	--	--	--	--	--	--	--	--	--
11-10-99	--	--	--	--	--	--	--	--	--	--	--
01-25-00	--	--	--	--	--	--	--	--	--	--	--
03-16-00	--	--	--	--	--	--	--	--	--	--	--
05-18-00	--	--	--	--	--	--	--	--	--	--	--
07-12-00	--	--	--	--	--	--	--	--	--	--	--
09-12-00	--	--	--	--	--	--	--	--	--	--	--
11-10-99	--	--	--	--	--	--	--	--	--	--	--
01-25-00	--	--	--	--	--	--	--	--	--	--	--
03-16-00	--	--	--	--	--	--	--	--	--	--	--
05-18-00	--	--	--	--	--	--	--	--	--	--	--
07-12-00	--	--	--	--	--	--	--	--	--	--	--

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	GEOLOGIC UNIT	HYDROLOGIC UNIT CODE	DATE
WASHINGTON COUNTY						
412637095565902	17N 13E16DBAA2	41 26 37 N	095 56 59 W	112SDGV	10230006	09-12-00
412637095565903	17N 13E16DBAA3			112SDGV	10230006	11-10-99
				112SDGV	10230006	01-25-00
				112SDGV	10230006	03-16-00
				112SDGV	10230006	05-18-00
				112SDGV	10230006	07-12-00
				112SDGV	10230006	09-12-00

CHEMICAL ANALYSES OF GROUND WATER

PAPIO-MISSOURI STUDY--Continued
WATER QUALITY FROM WELL NESTS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
					WASHINGTON COUNTY					
09-12-00	1730	60.00	995	728	.1	0	7.2	1140	12.5	<.050
11-10-99	0910	25.00	995	732	.3	3	7.3	848	14.0	<.050
01-25-00	1015	25.00	995	730	.9	9	7.0	732	13.5	<.050
03-16-00	1100	25.00	995	743	.9	9	7.2	915	13.0	<.050
05-18-00	1030	25.00	995	728	1.0	9	6.9	932	12.0	<.050
07-12-00	1030	25.00	995	728	.7	7	7.0	914	12.5	<.050
09-12-00	1745	25.00	995	728	1.2	12	7.1	880	13.5	<.050

CHEMICAL ANALYSES OF GROUND WATER

TRI-COUNTY GROUND-WATER MOUND
GROUND-WATER QUALITY

(Local identifier: indicates location by township, range, and section. Geologic unit: 110SDGV, Quaternary sand and gravel deposits, undifferentiated; 112SDGV, Pleistocene sand and gravel deposits; 121OGLL, Miocene Ogallala Formation.)

COUNTIES.--Gosper, Kearney, and Phelps

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	GEOLOGIC UNIT	DATE	TIME
		GOSPER COUNTY				
402610099450101	5N 21W 6BD 1	40 26 10 N	099 45 01 W	121OGLL	01-11-00	1130
403010099451901	6N 21W 7CB 1	40 30 10 N	099 45 19 W	110SDGV	01-11-00	0915
402838099481401	6N 22W22BD 1	40 28 38 N	099 48 14 W	121OGLL	01-11-00	1015
403422099441801	7N 21W18DA 3	40 34 22 N	099 44 18 W	110SDGV	01-11-00	1315
403500099520201	7N 22W 7CC 1	40 35 00 N	099 52 02 W	110SDGV	01-12-00	1000
403224099544101	7N 23W34AA 1	40 32 24 N	099 54 41 W	121OGLL	01-19-00	1130
403828099383601	8N 21W24DD 1	40 38 28 N	099 38 36 W	110SDGV	01-14-00	0930
404032099495801	8N 22W 8DB 2	40 40 32 N	099 49 58 W	110SDGV	01-11-00	1430
403959099575301	8N 23W18AD 1	40 39 59 N	099 57 53 W	110SDGV	01-11-00	1700
		KEARNEY COUNTY				
402614098535501	5N 14W 4AA 1	40 26 14 N	098 53 55 W	121OGLL	01-10-00	1300
402211099101701	5N 16W30CD 3	40 22 11 N	099 10 17 W	121OGLL	01-18-00	1200
403047098565101	6N 14W 6CC 1	40 30 47 N	098 56 51 W	121OGLL	01-10-00	1445
402847099074801	6N 16W21AB 1	40 28 47 N	099 07 48 W	112SDGV	01-13-00	0900
403255099003301	7N 15W28AD 1	40 32 55 N	099 00 33 W	110SDGV	01-10-00	1600
403417099061601	7N 16W15DD 1	40 34 17 N	099 06 16 W	110SDGV	01-18-00	1630
		PHELPS COUNTY				
402610099222401	5N 18W 4BA 1	40 26 10 N	099 22 24 W	112SDGV	01-12-00	1500
402320099343501	5N 20W22AC 1	40 23 20 N	099 34 35 W	110SDGV	01-18-00	1330
403104099130201	6N 17W 2CB 1	40 31 04 N	099 13 02 W	110SDGV	01-19-00	1400
402851099130101	6N 17W23BB 1	40 28 51 N	099 13 01 W	110SDGV	01-19-00	0930
403014099213801	6N 18W10BC 1	40 30 14 N	099 21 38 W	110SDGV	01-18-00	1500
402835099301401	6N 19W20BD 1	40 28 35 N	099 30 14 W	112SDGV	01-12-00	1130
403040099340501	6N 20W 3DD 1	40 30 40 N	099 34 05 W	110SDGV	01-12-00	1345
403314099225001	7N 18W21CC 1	40 33 14 N	099 22 50 W	110SDGV	01-13-00	1430

CHEMICAL ANALYSES OF GROUND WATER

TRI-COUNTY GROUND-WATER MOUND--Continued
GROUND-WATER QUALITY

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)
					GOSPER COUNTY					
01-11-00	197.00	--	.4	7.4	594	12.5	2.76	<1	<1	3.1
01-11-00	201.00	--	.2	7.4	698	13.2	3.68	<1	<1	4.5
01-11-00	235.00	--	.3	7.4	562	13.2	2.34	<1	<1	3.9
01-11-00	330.00	--	.8	7.2	860	15.0	11.0	<1	<1	4.5
01-12-00	357.00	--	.3	7.2	820	14.7	1.72	2	<1	6.6
01-19-00	223.00	--	6.3	7.3	538	14.8	2.38	<1	<1	5.0
01-14-00	140.00	--	5.1	7.2	498	14.4	6.43	1	<1	4.5
01-11-00	245.00	--	.2	7.5	1020	10.5	.077	<1	<1	3.6
01-11-00	231.00	--	.6	7.4	778	13.1	2.66	<1	<1	5.1
					KEARNEY COUNTY					
01-10-00	253.00	--	.2	6.9	612	13.5	<.050	<1	<1	8.3
01-18-00	270.00	--	.2	7.1	582	13.8	<.050	<1	<1	4.8
01-10-00	172.00	--	.2	7.1	924	12.5	.056	<1	<1	4.2
01-13-00	165.00	--	4.0	6.9	1280	13.5	9.27	5	<1	2.7
01-10-00	75.00	--	--	7.1	1660	12.5	19.1	11	<1	29.3
01-18-00	150.00	--	1.9	7.0	1010	12.2	1.61	<1	<1	10.9
					PHELPS COUNTY					
01-12-00	295.00	--	6.7	7.2	808	13.8	9.20	8	<1	4.2
01-18-00	246.00	--	8.1	7.2	540	13.2	3.89	--	--	--
01-19-00	64.00	2242	.4	6.9	1270	14.5	15.6	1	<1	7.9
01-19-00	70.00	--	2.1	7.8	980	15.5	2.01	8	<1	45.3
01-18-00	99.00	--	2.9	7.3	918	18.9	.107	5	<1	6.7
01-12-00	243.00	--	.4	6.9	673	14.2	9.03	3	<1	3.4
01-12-00	230.00	--	.8	7.0	1020	13.8	14.1	7	<1	3.3
01-13-00	80.00	--	.4	7.5	1030	18.2	.745	34	<1	11.3

CHEMICAL ANALYSES OF GROUND WATER

TRI-COUNTY GROUND-WATER MOUND--Continued
GROUND-WATER QUALITY

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
					GOSPER COUNTY					
01-11-00	238	<1	50	<1.0	E.8	<1	8	<1	22.6	10
01-11-00	171	<1	54	<1.0	2.7	<1	3	<1	26.9	3
01-11-00	152	<1	56	<1.0	2.0	<1	5	<1	26.0	1
01-11-00	164	<1	62	<1.0	2.9	<1	4	<1	24.2	<1
01-12-00	85	<1	88	<1.0	1.1	<1	7	<1	28.8	<1
01-19-00	121	<1	62	<1.0	2.1	<1	2	2	27.6	<1
01-14-00	207	<1	47	<1.0	E.7	<1	7	<1	22.6	3
01-11-00	81	<1	129	<1.0	<.8	<1	2	<1	24.3	22
01-11-00	57	<1	82	<1.0	1.5	<1	3	<1	26.9	<1
					KEARNEY COUNTY					
01-10-00	130	<1	52	<1.0	<.8	<1	3	<1	17.6	974
01-18-00	59	<1	66	<1.0	<.8	<1	3	3	23.5	7
01-10-00	195	<1	48	<1.0	<.8	<1	2	<1	22.7	332
01-13-00	96	<1	94	<1.0	E.7	<1	13	<1	40.6	2
01-10-00	134	<1	129	<1.0	<.8	1	9	<1	42.0	74
01-18-00	167	<1	94	<1.0	<.8	<1	7	<1	30.8	<1
					PHELPS COUNTY					
01-12-00	224	<1	51	<1.0	2.3	<1	15	<1	22.6	<1
01-18-00	--	--	--	--	--	--	--	--	--	--
01-19-00	203	<1	82	<1.0	<.8	3	1	<1	29.6	1730
01-19-00	185	<1	156	<1.0	<.8	<1	5	2	70.3	14
01-18-00	61	<1	179	<1.0	<.8	<1	5	<1	31.2	45
01-12-00	263	<1	49	<1.0	4.5	<1	5	<1	16.8	<1
01-12-00	308	<1	47	<1.0	1.8	<1	15	<1	22.3	<1
01-13-00	70	<1	148	<1.0	<.8	3	5	<1	29.8	332

CHEMICAL ANALYSES OF GROUND WATER

TRI-COUNTY GROUND-WATER MOUND--Continued
GROUND-WATER QUALITY

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	THAL-LIUM, DIS-SOLVED (UG/L AS TL) (01057)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
				GOSPER COUNTY					
01-11-00	3	7	2.6	<1	495	<.9	9	910	5
01-11-00	3	6	3.4	<1	710	<.9	12	89	7
01-11-00	2	6	2.7	<1	604	<.9	11	1600	6
01-11-00	2	8	6.5	<1	674	<.9	12	22	10
01-12-00	3	2	2.2	<1	620	<.9	14	9	6
01-19-00	2	1	2.8	<1	711	<.9	14	525	9
01-14-00	2	4	3.6	<1	201	<.9	13	90	<1
01-11-00	4	9	<.7	<1	394	<.9	12	142	6
01-11-00	3	2	3.0	<1	702	<.9	13	106	6
				KEARNEY COUNTY					
01-10-00	6	6	E.6	<1	429	<.9	<1	10	<1
01-18-00	2	2	10.2	<1	943	<.9	13	129	9
01-10-00	12	9	1.5	<1	585	<.9	<1	6	<1
01-13-00	19	4	27.9	<1	806	<.9	13	38	31
01-10-00	59	13	13.1	<1	596	<.9	27	15	177
01-18-00	18	4	9.6	<1	496	<.9	16	68	96
				PHELPS COUNTY					
01-12-00	4	2	26.1	<1	587	<.9	9	13	7
01-18-00	--	--	--	--	--	--	--	--	--
01-19-00	55	4	9.9	<1	478	<.9	<1	7	19
01-19-00	12	3	E.4	<1	364	<.9	40	175	13
01-18-00	6	3	2.3	<1	664	<.9	18	88	14
01-12-00	2	2	6.3	<1	428	<.9	11	7	4
01-12-00	2	3	11.0	<1	620	<.9	9	10	6
01-13-00	7	5	1.3	<1	776	<.9	16	32	17

STATION NUMBER	LOCAL IDENT-I-FIER	LAT-I-TUDE	LONG-I-TUDE	GEO-LOGIC UNIT	DATE	TIME
		PHELPS COUNTY				
403454099304801	7N 19W18AA 1	40 34 59 N	099 30 44 W	110SDGV	01-14-00	1300
403309099250701	7N 19W25AA 1	40 33 15 N	099 25 11 W	110SDGV	01-14-00	1430
403550099315001	7N 20W12AA 1	40 35 50 N	099 31 50 W	110SDGV	01-12-00	1245
403145099381002	7N 20W31CA 2	40 31 45 N	099 38 10 W	112SDGV	01-12-00	0900
403647099144001	8N 17W33DC 1	40 36 47 N	099 14 40 W	110SDGV	01-19-00	1500
403832099293501	8N 19W21CC 2	40 38 32 N	099 29 35 W	110SDGV	01-14-00	1100

CHEMICAL ANALYSES OF GROUND WATER

TRI-COUNTY GROUND-WATER MOUND--Continued
GROUND-WATER QUALITY

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)
					PHELPS COUNTY					
01-14-00	152.00	2383	1.8	9.8	152	11.8	<.050	--	--	--
01-14-00	112.00	2320	2.1	10.3	402	11.8	<.050	28	<1	E.5
01-12-00	158.00	--	.8	7.0	1260	13.8	20.4	6	<1	3.1
01-12-00	260.00	--	.3	7.0	940	15.2	8.06	<1	<1	2.7
01-19-00	73.00	--	4.2	7.3	761	12.9	13.4	<1	<1	4.1
01-14-00	55.00	--	2.2	6.9	1270.	12.7	5.26	2	<1	13.1

DATE	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
					PHELPS COUNTY					
01-14-00	--	--	--	--	--	--	--	--	--	--
01-14-00	11	<1	61	<1.0	<.8	<1	3	43	10.8	<1
01-12-00	91	<1	107	<1.0	3.3	<1	15	<1	32.2	<1
01-12-00	74	<1	85	<1.0	1.2	<1	15	<1	21.0	1
01-19-00	495	<1	56	<1.0	E.6	<1	2	<1	15.8	<1
01-14-00	39	<1	133	<1.0	<.8	<1	4	<1	41.4	8

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	THAL-LIUM, DIS-SOLVED (UG/L AS TL) (01057)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
					PHELPS COUNTY				
01-14-00	--	--	--	--	--	--	--	--	--
01-14-00	9	<1	<.7	<1	36.3	<.9	<1	118	<1
01-12-00	7	2	31.4	<1	610	<.9	7	13	13
01-12-00	2	2	5.5	<1	549	<.9	10	14	6
01-19-00	1	2	12.5	<1	406	<.9	7	33	17
01-14-00	20	11	8.9	<1	473	<.9	10	99	52

CHEMICAL ANALYSES OF GROUND WATER

ASHLAND WELL FIELD STUDY
GROUND-WATER QUALITY

(Local identifier: indicates location by township, range, and section. Geologic unit: 110QRTR, Quaternary system deposits, undifferentiated; 112SDGV, Pleistocene sand and gravel deposits.)

COUNTIES.--Sarpy and Saunders

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
SARPY COUNTY									
410233096181801	12N 10E 4BADB1	--	09-07-00	1100	--	1052	.51	377	730
410312096183901	13N 10E32ADDD1	112SDGV	09-07-00	1145	46.00	1056	.39	288	730
410324096191801	13N 10E32BADC1	112SDGV	09-07-00	0945	--	1060	.54	396	730
SAUNDERS COUNTY									
410707096220601	13N 9E 2DDDD1	110QRNR	09-06-00	1100	130.00	1077	--	--	734
410612096220601	13N 9E14AAAA1	110QRNR	09-06-00	1015	98.00	1071	--	--	734
410703096205301	13N 10E 7BBBB1	110QRNR	09-06-00	1200	96.00	1075	--	--	734
410427096202501	13N 10E19CDDD1	112SDGV	09-07-00	1400	56.00	1065	.48	350	730
410303096192901	13N 10E32CABC1	112SDGV	09-07-00	1300	86.00	1056	.45	332	730

DATE	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
SARPY COUNTY												
09-07-00	.4	4	7.3	602	12.5	240	68.5	15.7	8.1	.9	31.0	22
09-07-00	M	0	7.6	480	9.5	180	44.9	15.4	7.6	1	31.1	27
09-07-00	.1	1	7.5	621	15.0	220	66.7	13.4	8.0	1	37.4	26
SAUNDERS COUNTY												
09-06-00	M	0	7.1	791	12.5	--	--	--	--	--	--	--
09-06-00	M	0	7.2	820	12.0	--	--	--	--	--	--	--
09-06-00	M	0	7.2	433	12.5	--	--	--	--	--	--	--
09-07-00	M	0	7.7	568	9.5	160	43.8	12.8	7.3	2	47.4	38
09-07-00	M	0	7.8	520	14.5	160	41.5	12.5	7.2	2	43.2	36

DATE	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)
SARPY COUNTY												
09-07-00	202	13.8	.3	27.8	88.7	21	6.9	212	<2	86	<8.0	<14.0
09-07-00	165	14.6	.3	11.5	61.4	7.8	2.7	197	<2	66	<8.0	<14.0
09-07-00	189	16.7	.3	33.6	106	12	5.7	181	<2	79	<8.0	<14.0
SAUNDERS COUNTY												
09-06-00	--	--	--	--	--	--	--	--	--	--	--	--
09-06-00	--	--	--	--	--	--	--	--	--	--	--	--
09-06-00	--	--	--	--	--	--	--	--	--	--	--	--
09-07-00	138	18.8	.5	25.0	111	5.1	8.4	73	<2	132	<8.0	<14.0
09-07-00	144	16.0	.5	31.0	92.9	4.6	9.6	60	<2	115	<8.0	<14.0

CHEMICAL ANALYSES OF GROUND WATER

ASHLAND WELL FIELD STUDY--Continued
GROUND-WATER QUALITY

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)
SARPY COUNTY												
09-07-00	<13	<10	250	<100	20.4	1160	<.2	<34	E23	3.9	<7	423
09-07-00	<13	<10	500	<100	13.1	672	<.2	<34	<40	<2.4	<7	334
09-07-00	<13	<10	E10	<100	17.5	76	<.2	<34	<40	<2.4	<7	392
SAUNDERS COUNTY												
09-06-00	--	--	--	--	--	--	--	--	--	--	--	--
09-06-00	--	--	--	--	--	--	--	--	--	--	--	--
09-06-00	--	--	--	--	--	--	--	--	--	--	--	--
09-07-00	<13	<10	20	<100	18.6	34	<.2	<34	<40	<2.4	<7	346
09-07-00	<13	<10	E10	<100	23.0	43	<.2	<34	<40	<2.4	<7	322

DATE	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	AMETRYN WATER, DISS, REC, (UG/L) (38401)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	BUTA-CHLOR, WATER, DISS, REC (UG/L) (04026)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BOXIN, WATER, DISS, REC (UG/L) (04027)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)
SARPY COUNTY											
09-07-00	<10	E15	<.050	<.050	M	.803	<.20	<.05	<.050	<.05	<.200
09-07-00	<10	<20	<.050	<.050	<.05	.365	<.20	<.05	<.050	<.05	E.044
09-07-00	<10	E14	<.050	<.050	M	.344	<.20	<.05	<.050	<.05	<.050
SAUNDERS COUNTY											
09-06-00	--	--	--	--	--	--	--	--	--	--	--
09-06-00	--	--	--	--	--	--	--	--	--	--	--
09-06-00	--	--	--	--	--	--	--	--	--	--	--
09-07-00	E6	<20	<.050	<.050	E.01	.794	<.20	<.05	<.050	<.05	<.050
09-07-00	E9	<20	<.050	<.050	E.01	.428	<.20	<.05	<.050	<.05	<.050

DATE	SI-CLOATE, WATER, DISS, REC (UG/L) (04031)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DEISO-PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)	DIPHEN-AMID, WATER, DISS, REC (UG/L) (04033)	HEXA-ZINONE, WATER, DISS, REC (UG/L) (04025)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRO-METRYN, WATER, DISS, REC (UG/L) (04036)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PROP-AZINE WATER DISS REC (UG/L) (38535)
SARPY COUNTY											
09-07-00	<.05	.12	.06	<.05	<.05	.120	<.050	E.010	<.05	<.050	E.01
09-07-00	<.05	.085	E.03	<.05	<.05	E.048	<.050	<.050	<.05	<.050	E.01
09-07-00	<.05	.090	E.03	<.05	<.05	E.046	<.050	E.009	<.05	<.050	M
SAUNDERS COUNTY											
09-06-00	--	--	--	--	--	--	--	--	--	--	--
09-06-00	--	--	--	--	--	--	--	--	--	--	--
09-06-00	--	--	--	--	--	--	--	--	--	--	--
09-07-00	<.05	.17	.06	<.05	<.05	.201	<.050	E.008	<.05	<.050	E.01
09-07-00	<.05	.16	.07	<.05	<.05	.108	<.050	E.011	<.05	<.050	E.01

CHEMICAL ANALYSES OF GROUND WATER

ASHLAND WELL FIELD STUDY--Continued
GROUND-WATER QUALITY

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	SIMA-TRYN, WATER, DISS, REC (UG/L) (04030)	TER-BACIL, WATER, DISS, REC (UG/L) (04032)	TRI-FLUR-ALIN, WATER, DISS, REC (UG/L) (04023)	VERNO-LATE, WATER, DISS, REC (UG/L) (04034)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,1-DI CHLORO-PRO-PENE, WAT, WH TOTAL (UG/L) (77168)
					SARPY COUNTY						
09-07-00	E.009	<.05	<.05	<.05	<.05	--	--	--	--	--	--
09-07-00	E.007	<.05	<.05	<.05	<.05	--	--	--	--	--	--
09-07-00	E 011	<.05	<.05	<.05	<.05	--	--	--	--	--	--
					SAUNDERS COUNTY						
09-06-00		--	--	--	--	<3.0	<3.00	<3.00	<3.00	<3.00	<3.00
09-06-00		--	--	--	--	<3.0	<3.00	<3.00	<3.00	<3.00	<3.00
09-06-00		--	--	--	--	<3.0	<3.00	<3.00	<3.00	<3.00	<3.00
09-07-00	E.014	<.05	<.05	<.05	<.05	--	--	--	--	--	--
09-07-00	E.018	<.05	<.05	<.05	<.05	--	--	--	--	--	--

DATE	123-TRI CHLORO-PROPANE WATER WHOLE TOTAL (UG/L) (77443)	1,2-DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	2,2-DI CHLORO-PRO-PANE WAT, WH TOTAL (UG/L) (77170)	ACRYLO-NITRILE TOTAL (UG/L) (34215)	1,2,3-TRI-CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)
					SARPY COUNTY						
09-07-00	--	--	--	--	--	--	--	--	--	--	--
09-07-00	--	--	--	--	--	--	--	--	--	--	--
09-07-00	--	--	--	--	--	--	--	--	--	--	--
					SAUNDERS COUNTY						
09-06-00	<3.0	<3.00	<3.0	<3.00	<3.00	<3.00	<2	<3.0	<3.0	<3.00	<3.00
09-06-00	<3.0	<3.00	<3.0	<3.00	<3.00	<3.00	<2	<3.0	<3.0	<3.00	<3.00
09-06-00	<3.0	<3.00	<3.0	<3.00	<3.00	<3.00	<2	<3.0	<3.0	<3.00	<3.00
09-07-00	--	--	--	--	--	--	--	--	--	--	--
09-07-00	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE SEC BUTYL-WATER UNFLTRD REC (UG/L) (77350)	BENZENE TERT-BUTYL-WATER UNFLTRD REC (UG/L) (77353)	BENZENE TOTAL (UG/L) (34030)	BROMO-BENZENE WATER, WHOLE, TOTAL (UG/L) (81555)	BROMO-FORM TOTAL (UG/L) (32104)
					SARPY COUNTY						
09-07-00	--	--	--	--	--	--	--	--	--	--	--
09-07-00	--	--	--	--	--	--	--	--	--	--	--
09-07-00	--	--	--	--	--	--	--	--	--	--	--
					SAUNDERS COUNTY						
09-06-00	<3.00	<3.00	<3.00	<3.0	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
09-06-00	<3.00	<3.00	<3.00	<3.0	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
09-06-00	<3.00	<3.00	<3.00	<3.0	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
09-07-00	--	--	--	--	--	--	--	--	--	--	--
09-07-00	--	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

ASHLAND WELL FIELD STUDY--Continued
GROUND-WATER QUALITY

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	CIS 1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34704)	DIBROMO CHLORO-PROPANE WATER WHOLE TOT.REC (UG/L) (82625)	DI-BROMO-METHANE WATER WHOLE RECOVER (UG/L) (30217)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)
					SARPY COUNTY						
09-07-00	--	--	--	--	--	--	--	--	--	--	--
09-07-00	--	--	--	--	--	--	--	--	--	--	--
09-07-00	--	--	--	--	--	--	--	--	--	--	--
					SAUNDERS COUNTY						
09-06-00	<3.00	<3.00	<3.0	<3.0	<3.00	<3.00	<3.00	<3.0	<3.00	<3.00	<3.0
09-06-00	<3.00	<3.00	<3.0	<3.0	<3.00	<3.00	<3.00	<3.0	<3.00	<3.00	<3.0
09-06-00	<3.00	<3.00	<3.0	<3.0	<3.00	<3.00	<3.00	<3.0	<3.00	<3.00	<3.0
09-07-00	--	--	--	--	--	--	--	--	--	--	--
09-07-00	--	--	--	--	--	--	--	--	--	--	--

DATE	ETHANE, 1112-TETRA-CHLORO-WAT UNF REC (UG/L) (77562)	ETHANE, 1,1,2,2 TETRA-CHLORO-WAT UNF REC (UG/L) (34516)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	METHANE BROMO CHLORO-WAT UNFLTRD REC (UG/L) (77297)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL-BROMIDE TOTAL (UG/L) (34413)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	NAPHTH-ALENE TOTAL (UG/L) (34696)
					SARPY COUNTY						
09-07-00	--	--	--	--	--	--	--	--	--	--	--
09-07-00	--	--	--	--	--	--	--	--	--	--	--
09-07-00	--	--	--	--	--	--	--	--	--	--	--
					SAUNDERS COUNTY						
09-06-00	<3.00	<3.00	<3.00	<3.00	<3.0	<3.00	<3.0	<3.0	<3.0	<3.0	<3.0
09-06-00	<3.00	<3.00	<3.00	<3.00	<3.0	<3.00	<3.0	<3.0	<3.0	<3.0	<3.0
09-06-00	<3.00	<3.00	<3.00	<3.00	<3.0	<3.00	<3.0	<3.0	<3.0	<3.0	<3.0
09-07-00	--	--	--	--	--	--	--	--	--	--	--
09-07-00	--	--	--	--	--	--	--	--	--	--	--

DATE	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)	1,3-DI-CHLORO-PROPANE WAT. WH TOTAL (UG/L) (77173)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)	TOLUENE TOTAL (UG/L) (34010)	TRANS-1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34699)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
					SARPY COUNTY						
09-07-00	--	--	--	--	--	--	--	--	--	--	--
09-07-00	--	--	--	--	--	--	--	--	--	--	--
09-07-00	--	--	--	--	--	--	--	--	--	--	--
					SAUNDERS COUNTY						
09-06-00	<3.00	<3.00	<3.0	<3.00	<3.0	<3.00	<3.00	<3.00	<3.00	<3.00	<1.0
09-06-00	<3.00	<3.00	<3.0	<3.00	<3.0	<3.00	<3.00	<3.00	<3.00	<3.00	<1.0
09-06-00	<3.00	<3.00	<3.0	<3.00	<3.0	<3.00	<3.00	<3.00	<3.00	<3.00	<1.0
09-07-00	--	--	--	--	--	--	--	--	--	--	--
09-07-00	--	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

UPPER REPUBLICAN NATURAL RESOURCES DISTRICT

(Local identifier: indicates location by township, range, and section. Geologic unit: 111ALVM, Holocene alluvium deposits; 121OGLL, Miocene Ogallala Formation.)

COUNTIES.--Chase, Dundy, and Perkins

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	GEOLOGIC UNIT	DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
			CHASE COUNTY					
402505101495501	5N 40W11BDBB1	40 25 05 N	101 49 55 W	121OGLL	08-10-00	0730	230.00	3410
402649101484701	6N 40W36BO 1	40 26 49 N	101 48 47 W	121OGLL	08-09-00	0830	323.00	3397
				121OGLL	08-09-00	0831	323.00	3397
403623101422901	7N 39W 2ACAB1	40 36 23 N	101 42 29 W	121OGLL	08-09-00	0700	240.00	3328
403531101454901	7N 39W 8AACD1	40 38 31 N	101 45 49 W	121OGLL	08-21-00	1200	260.00	3360
403745101314601	8N 37W28CO 1	40 37 45 N	101 31 46 W	121OGLL	08-09-00	1400	290.00	3260
				121OGLL	08-09-00	1401	290.00	3260
403716101302001	8N 37W34BDAB1	40 37 16 N	101 30 20 W	121OGLL	08-09-00	1500	273.00	3232
403850101350901	8N 38W24CABB1	40 38 50 N	101 35 29 W	121OGLL	08-09-00	1330	306.00	3285
403757101534201	8N 40W29CBBB1	40 37 57 N	101 53 42 W	121OGLL	08-09-00	1200	231.00	3471
403757101544701	8N 40W30BCCC1	40 37 57 N	101 54 47 W	121OGLL	08-09-00	1030	225.00	3482
				121OGLL	08-09-00	1031	225.00	3482
403757101552001	8N 41W25BDDD1	40 37 57 N	101 55 20 W	121OGLL	08-09-00	1000	215.00	3486
			DUNDY COUNTY					
400502101253901	1N 36W 6ACDA1	40 05 02 N	101 25 39 W	111ALVM	08-10-00	1300	27.00	2904
				111ALVM	08-10-00	1301	27.00	2904
400521101281601	1N 37W 2BBAC1	40 05 21 N	101 28 16 W	111ALVM	08-10-00	1400	50.00	2950
				111ALVM	08-10-00	1401	50.00	2950
400403101322001	1N 37W 7DBBD1	40 04 03 N	101 32 20 W	121OGLL	08-11-00	0900	80.00	3072
400113101311801	1N 37W29DCBB1	40 01 13 N	101 31 18 W	111ALVM	08-10-00	1300	42.00	2995
400017101321201	1N 37W31DCAC1	40 00 17 N	101 32 12 W	111ALVM	08-09-00	1500	50.00	3000
400018101315601	1N 37W31DDAB1	40 00 18 N	101 31 56 W	111ALVM	08-10-00	1600	47.00	3003
				111ALVM	08-10-00	1601	47.00	3003
400405101352201	1N 38W10DABA1	40 04 05 N	101 35 22 W	121OGLL	08-11-00	0800	102.00	3284
400340101382101	1N 38W17BABB1	40 03 40 N	101 38 21 W	121OGLL	08-11-00	1000	100.00	3177
				121OGLL	08-11-00	1001	100.00	3177
400159101375101	1N 38W20DCDD1	40 01 59 N	101 37 51 W	111ALVM	08-11-00	0800	60.00	3040
400415101411201	1N 39W11ADBC1	40 04 15 N	101 41 12 W	--	08-21-00	1430	--	3245
400228101505001	1N 40W21BCAD1	40 02 28 N	101 50 50 W	111ALVM	08-22-00	0830	95.00	3215
400203101504001	1N 40W21CDAC1	40 02 03 N	101 50 40 W	111ALVM	08-10-00	0900	97.00	3180
				111ALVM	08-10-00	0901	97.00	3180

CHEMICAL ANALYSES OF GROUND WATER

UPPER REPUBLICAN NATURAL RESOURCES DISTRICT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)
					CHASE COUNTY						
08-10-00	--	--	7.4	7.5	402	14.7	--	--	--	--	--
08-09-00	.35	259	8.4	7.7	387	14.3	150	40.2	13.0	10.7	.4
08-09-00	--	--	8.4	7.7	387	14.3	--	--	--	--	--
08-09-00	--	--	9.2	7.5	337	14.8	--	--	--	--	--
08-21-00	--	--	8.9	7.8	323	14.7	--	--	--	--	--
08-09-00	.33	240	7.8	7.7	366	14.4	150	44.0	10.0	10.4	.2
08-09-00	--	--	7.8	7.7	366	14.4	--	--	--	--	--
08-09-00	--	--	7.0	7.7	381	14.5	--	--	--	--	--
08-09-00	--	--	--	8.1	355	14.7	--	--	--	--	--
08-09-00	--	--	9.4	7.8	439	14.1	--	--	--	--	--
08-09-00	.32	237	9.1	7.8	341	14.1	120	37.0	7.86	7.4	.5
08-09-00	--	--	9.1	7.8	341	14.1	--	--	--	--	--
08-09-00	--	--	--	7.9	362	16.8	--	--	--	--	--
					DUNDY COUNTY						
08-10-00	1.79	1320	1.4	7.4	1920	15.0	600	151	53.6	43.5	3
08-10-00	--	--	1.4	7.4	1920	15.0	--	--	--	--	--
08-10-00	1.44	1060	5.2	7.2	1620	17.0	550	145	46.4	22.4	2
08-10-00	--	--	5.2	7.2	1620	17.0	--	--	--	--	--
08-11-00	--	--	7.7	7.3	1300	14.6	--	--	--	--	--
08-10-00	--	--	--	7.9	2580	16.4	--	--	--	--	--
08-09-00	--	--	--	7.5	2360	16.2	--	--	--	--	--
08-10-00	2.87	2110	2.7	7.5	2830	14.0	960	237	88.7	27.1	4
08-10-00	--	--	2.7	7.5	2830	14.0	--	--	--	--	--
08-11-00	--	--	--	7.6	686	15.0	--	--	--	--	--
08-11-00	.45	329	6.3	7.7	476	15.0	170	49.0	11.5	12.2	.8
08-11-00	--	--	6.3	7.7	476	15.0	--	--	--	--	--
08-11-00	--	--	--	7.4	1400	14.2	--	--	--	--	--
08-21-00	--	--	8.8	7.7	771	13.6	--	--	--	--	--
08-22-00	--	--	--	7.3	653	14.3	--	--	--	--	--
08-10-00	.63	460	6.1	7.3	708	14.3	280	77.0	21.5	16.6	.8
08-10-00	--	--	6.1	7.3	708	14.3	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

UPPER REPUBLICAN NATURAL RESOURCES DISTRICT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
						CHASE COUNTY					
08-10-00	--	--	--	--	--	--	--	--	--	4.1	--
08-09-00	11.1	13	166	2.9	.9	65.0	15.9	<.020	--	3.5	<.010
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	4.5	--
08-21-00	--	--	--	--	--	--	--	--	--	2.0	--
08-09-00	7.0	8	160	2.7	.7	62.0	7.3	<.020	--	4.9	<.010
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	5.8	--
08-09-00	--	--	--	--	--	--	--	--	--	4.4	--
08-09-00	--	--	--	--	--	--	--	--	--	7.1	--
08-09-00	13.0	17	125	12.6	.8	55.3	13.5	<.020	3.36	3.2	<.010
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	4.0	--
						DUNDY COUNTY					
08-10-00	154	34	301	106	1.1	50.4	545	<.020	7.71	7.7	<.010
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	114	30	302	134	1.3	53.8	331	<.020	7.14	7.1	<.010
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-11-00	--	--	--	--	--	--	--	--	--	9.8	--
08-10-00	--	--	--	--	--	--	--	--	--	13.1	--
08-09-00	--	--	--	--	--	--	--	--	--	8.0	--
08-10-00	268	37	281	153	1.0	51.9	1070	<.020	9.92	10.2	<.010
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-11-00	--	--	--	--	--	--	--	--	--	11.1	--
08-11-00	22.9	21	199	6.2	1.0	62.8	20.9	<.020	5.15	5.2	<.010
08-11-00	--	--	--	--	--	--	--	--	--	--	--
08-11-00	--	--	--	--	--	--	--	--	--	.4	--
08-21-00	--	--	--	--	--	--	--	--	--	17.7	--
08-22-00	--	--	--	--	--	--	--	--	--	6.9	--
08-10-00	29.6	18	303	7.2	1.3	54.5	48.4	<.020	5.01	5.1	<.010
08-10-00	--	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

UPPER REPUBLICAN NATURAL RESOURCES DISTRICT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	AMETRYN WATER, DISS, REC, (UG/L) (38401)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	BUTA-CHLOR, WATER, DISS, REC (UG/L) (04026)
					CHASE COUNTY						
08-10-00	--	--	--	--	--	.119	.060	<.05	.080	<.20	<.05
08-09-00	--	<.010	6.9	<10	<2	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	.111	E.041	<.05	E.048	<.20	<.05
08-21-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	.031	.010	6.6	<10	<2	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	<.010	3.6	<10	<2	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
					DUNDY COUNTY						
08-10-00	.209	.068	23	<10	49	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	.153	.050	40	<10	<2	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-11-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	.144	.047	17	<30	E4	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-11-00	--	--	--	--	--	<.050	<.050	<.05	.137	<.20	<.05
08-11-00	.058	.019	7.7	<10	E1	--	--	--	--	--	--
08-11-00	--	--	--	--	--	--	--	--	--	--	--
08-11-00	--	--	--	--	--	--	--	--	--	--	--
08-21-00	--	--	--	--	--	--	--	--	--	--	--
08-22-00	--	--	--	--	--	<.050	<.050	<.05	E.015	<.20	<.05
08-10-00	.215	.070	27	<10	<2	E.026	<.050	<.05	.072	<.20	<.05
08-10-00	--	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

UPPER REPUBLICAN NATURAL RESOURCES DISTRICT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BOXIN, WATER, DISS, REC (UG/L) (04027)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	SI-CLOATE, WATER, DISS, REC (UG/L) (04031)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DEISO-PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)	DIPHEN-AMID, WATER, DISS, REC (UG/L) (04033)	HEXA-ZINONE, WATER, DISS, REC (UG/L) (04025)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
					CHASE COUNTY						
08-10-00	<.050	<.05	<.050	<.05	E.048	<.05	<.05	<.05	.178	<.050	<.050
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	<.050	<.05	<.050	<.05	E.032	<.05	<.05	<.05	.153	<.050	<.050
08-21-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
					DUNDY COUNTY						
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-11-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-11-00	<.050	<.05	<.050	<.05	.10	<.05	<.05	<.05	<.050	<.050	<.050
08-11-00	--	--	--	--	--	--	--	--	--	--	--
08-11-00	--	--	--	--	--	--	--	--	--	--	--
08-11-00	--	--	--	--	--	--	--	--	--	--	--
08-21-00	--	--	--	--	--	--	--	--	--	--	--
08-22-00	<.050	<.05	<.050	<.05	.19	<.05	<.05	<.05	<.050	<.050	<.050
08-10-00	<.050	<.05	<.050	<.05	.31	<.05	<.05	<.05	E.020	<.050	<.050
08-10-00	--	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

UPPER REPUBLICAN NATURAL RESOURCES DISTRICT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PRO-METRYN, WATER, DISS, REC (UG/L) (04036)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PROP-AZINE WATER DISS REC (UG/L) (38535)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	SIMA-TRYN, WATER, DISS, REC (UG/L) (04030)	TER-BACIL, WATER, DISS, REC (UG/L) (04032)	TRI-FLUR-ALIN, WATER, DISS, REC (UG/L) (04023)	VERNO-LATE, WATER, DISS, REC (UG/L) (04034)	N15/N14 NO3 FRAC WATER FLTRD 0.45 U PER MIL (82690)	TRITIUM TOTAL (TU) (07017)	TRITIUM TOTAL COUNT ERROR (TU) (07019)
						CHASE COUNTY					
08-10-00	<.05	E.013	<.05	<.050	<.05	<.05	<.05	<.05	--	--	--
08-09-00	--	--	--	--	--	--	--	--	4.30	--	--
08-09-00	--	--	--	--	--	--	--	--	--	<.8	.5
08-09-00	<.05	E.011	<.05	<.050	<.05	<.05	<.05	<.05	--	--	--
08-21-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	3.10	--	--
08-09-00	--	--	--	--	--	--	--	--	--	1.5	.6
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	5.90	--	--
08-09-00	--	--	--	--	--	--	--	--	--	<.8	.5
08-09-00	--	--	--	--	--	--	--	--	--	--	--
						DUNDY COUNTY					
08-10-00	--	--	--	--	--	--	--	--	9.80	--	--
08-10-00	--	--	--	--	--	--	--	--	--	7.5	.6
08-10-00	--	--	--	--	--	--	--	--	9.40	--	--
08-10-00	--	--	--	--	--	--	--	--	--	7.0	.6
08-11-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	8.80	--	--
08-10-00	--	--	--	--	--	--	--	--	--	12	.9
08-11-00	<.05	<.050	<.05	<.050	<.05	<.05	<.05	<.05	--	--	--
08-11-00	--	--	--	--	--	--	--	--	4.60	--	--
08-11-00	--	--	--	--	--	--	--	--	--	3.8	.4
08-11-00	--	--	--	--	--	--	--	--	--	--	--
08-21-00	--	--	--	--	--	--	--	--	--	--	--
08-22-00	<.05	<.050	<.05	<.050	<.05	<.05	<.05	<.05	--	--	--
08-10-00	<.05	<.050	<.05	<.050	<.05	<.05	<.05	<.05	4.20	--	--
08-10-00	--	--	--	--	--	--	--	--	--	3.7	.4

CHEMICAL ANALYSES OF GROUND WATER

UPPER REPUBLICAN NATURAL RESOURCES DISTRICT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	GEOLOGIC UNIT	DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
			DUNDY COUNTY					
400447101555801	1N 41W 3DBDD1	40 04 47 N	101 55 58 W	1210GLL	08-08-00	0900	95.00	3408
400521101565801	1N 41W 4AAAB1	40 05 21 N	101 56 58 W	1210GLL	08-08-00	1000	80.00	3410
400800101305401	2N 37W20AAAB1	40 08 00 N	101 30 54 W	1210GLL	08-09-00	1100	190.00	3205
400723101375801	2N 38W20DBCD1	40 07 23 N	101 37 58 W	1210GLL	08-07-00	1400	180.00	3300
400725101340101	2N 38W24CCBB1	40 07 25 N	101 34 01 W	1210GLL	08-09-00	1200	135.00	3182
				1210GLL	08-09-00	1201	135.00	3182
400657101365801	2N 38W28BADD1	40 06 57 N	101 36 58 W	1210GLL	08-09-00	1400	160.00	3250
400536101371901	2N 38W33CO 1	40 05 36 N	101 37 19 W	--	08-09-00	1300	--	3253
400528101353301	2N 38W34DCDD1	40 05 28 N	101 35 33 W	1210GLL	08-09-00	1400	80.00	3185
				1210GLL	08-09-00	1401	80.00	3185
400748101443801	2N 39W20AO 1	40 07 48 N	101 44 38 W	1210GLL	08-10-00	1100	170.00	3350
				1210GLL	08-10-00	1101	170.00	3350
400655101440401	2N 39W28BO 1	40 06 55 N	101 44 04 W	1210GLL	08-10-00	1200	137.00	3298
400629101440201	2N 39W28CO 1	40 06 29 N	101 44 02 W	1210GLL	08-10-00	1000	115.00	3282
				1210GLL	08-10-00	1001	115.00	3282
400605101402201	2N 39W36ABCC1	40 06 05 N	101 40 22 W	1210GLL	08-10-00	0900	102.00	3252
400533101504501	2N 40W33CDBB1	40 05 33 N	101 50 45 W	1210GLL	08-22-00	0730	120.00	3370
400815101585401	2N 41W17CO 1	40 08 15 N	101 58 54 W	1210GLL	08-08-00	1200	120.00	3480
400746101572701	2N 41W21ACBB1	40 07 46 N	101 57 27 W	1210GLL	08-08-00	1200	120.00	3445
400639101563801	2N 41W27BCDD1	40 06 39 N	101 56 38 W	1210GLL	08-22-00	0930	100.00	3422
400704101574701	2N 41W28BBAD1	40 07 04 N	101 57 47 W	1210GLL	08-08-00	1100	120.00	3480
				1210GLL	08-08-00	1101	120.00	3480
401001102010601	2N 42W 1CBDC1	40 10 01 N	102 01 06 W	1210GLL	08-08-00	1300	211.00	3552
401006102025701	2N 42W 3DBBC1	40 10 06 N	102 02 57 W	1210GLL	08-22-00	1100	216.00	3570
				1210GLL	08-22-00	1101	216.00	3570
400855102004601	2N 42W12CDDC1	40 08 55 N	102 00 46 W	1210GLL	08-08-00	1400	168.00	3517
400646102015001	2N 42W26BDDD1	40 06 46 N	102 01 50 W	1210GLL	08-21-00	1500	132.00	3536
400634102023801	2N 42W27DCAA1	40 06 34 N	102 02 38 W	1210GLL	08-21-00	1600	115.00	3540
401509101414801	3N 39W 2CCAC1	40 15 09 N	101 41 48 W	1210GLL	08-11-00	0900	310.00	3355
401327101400601	3N 39W 3DO 1	40 13 27 N	101 40 06 W	1210GLL	08-07-00	1300	235.00	3317

CHEMICAL ANALYSES OF GROUND WATER

UPPER REPUBLICAN NATURAL RESOURCES DISTRICT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)
					DUNDY COUNTY						
08-08-00	--	--	6.8	7.4	396	16.1	--	--	--	--	--
08-08-00	--	--	9.0	7.4	378	17.2	--	--	--	--	--
08-09-00	--	--	9.7	7.5	456	17.2	--	--	--	--	--
08-07-00	--	--	--	7.3	388	15.2	--	--	--	--	--
08-09-00	.44	326	5.7	7.4	512	16.2	190	54.2	14.4	10.8	.6
08-09-00	--	--	5.7	7.4	512	16.2	--	--	--	--	--
08-09-00	--	--	--	7.8	395	16.2	--	--	--	--	--
08-09-00	--	--	--	7.5	528	16.4	--	--	--	--	--
08-09-00	.56	408	8.0	7.4	673	14.5	250	70.9	17.7	2.5	.8
08-09-00	--	--	8.0	7.4	673	14.5	--	--	--	--	--
08-10-00	.37	270	7.0	7.5	388	16.2	150	41.7	10.5	9.0	.5
08-10-00	--	--	7.0	7.5	388	16.2	--	--	--	--	--
08-10-00	--	--	11.3	7.4	404	16.0	--	--	--	--	--
08-10-00	.42	306	7.8	7.5	444	15.0	170	48.0	11.8	10.8	.5
08-10-00	--	--	7.8	7.5	444	15.0	--	--	--	--	--
08-10-00	--	--	--	8.0	438	15.6	--	--	--	--	--
08-22-00	--	--	6.8	7.8	457	16.2	--	--	--	--	--
08-08-00	--	--	7.4	7.3	424	18.4	--	--	--	--	--
08-08-00	--	--	4.4	7.4	422	20.9	--	--	--	--	--
08-22-00	--	--	9.2	7.4	357	14.3	--	--	--	--	--
08-08-00	.35	256	7.6	7.3	361	16.4	140	42.0	9.62	8.3	.4
08-08-00	--	--	7.6	7.3	361	16.4	--	--	--	--	--
08-08-00	--	--	7.2	7.6	436	17.9	--	--	--	--	--
08-22-00	.41	301	--	7.7	424	16.0	170	48.0	11.2	8.7	.4
08-22-00	--	--	--	7.7	424	16.0	--	--	--	--	--
08-08-00	--	--	6.2	7.5	440	19.1	--	--	--	--	--
08-21-00	--	--	10.1	7.5	439	15.0	--	--	--	--	--
08-21-00	--	--	--	7.7	463	15.2	--	--	--	--	--
08-11-00	--	--	--	7.8	362	17.5	--	--	--	--	--
08-07-00	--	--	--	7.6	416	18.0	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

UPPER REPUBLICAN NATURAL RESOURCES DISTRICT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
						DUNDY COUNTY					
08-08-00	--	--	--	--	--	--	--	--	--	3.7	--
08-08-00	--	--	--	--	--	--	--	--	--	4.5	--
08-09-00	--	--	--	--	--	--	--	--	--	3.1	--
08-07-00	--	--	--	--	--	--	--	--	--	2.4	--
08-09-00	19.2	17	166	25.8	1.1	63.1	37.3	<.020	--	3.4	<.010
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	3.9	--
08-09-00	--	--	--	--	--	--	--	--	--	4.4	--
08-09-00	28.7	20	199	29.6	.8	65.5	73.6	<.020	--	7.4	<.010
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	13.1	15	156	8.0	1.0	63.7	14.1	<.020	3.50	3.6	<.010
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	5.2	--
08-10-00	15.6	16	165	7.6	1.0	62.7	20.1	<.020	6.53	7.0	<.010
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	5.5	--
08-22-00	--	--	--	--	--	--	--	--	--	1.3	--
08-08-00	--	--	--	--	--	--	--	--	--	6.9	--
08-08-00	--	--	--	--	--	--	--	--	--	5.4	--
08-22-00	--	--	--	--	--	--	--	--	--	3.5	--
08-08-00	11.0	13	160	2.8	.8	61.9	7.8	<.020	3.68	3.6	<.010
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	10.4	--
08-22-00	12.7	13	156	4.6	.7	58.8	10.1	<.020	11.8	12.4	<.010
08-22-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	8.6	--
08-21-00	--	--	--	--	--	--	--	--	--	12.3	--
08-21-00	--	--	--	--	--	--	--	--	--	15.9	--
08-11-00	--	--	--	--	--	--	--	--	--	1.7	--
08-07-00	--	--	--	--	--	--	--	--	--	4.5	--

CHEMICAL ANALYSES OF GROUND WATER

UPPER REPUBLICAN NATURAL RESOURCES DISTRICT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	AMETRYN WATER, DISS, REC, (UG/L) (38401)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	BUTA-CHLOR, WATER, DISS, REC (UG/L) (04026)
					DUNDY COUNTY						
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-07-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	<.010	13	<10	<2	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	.037	.012	15	<10	<2	<.050	<.050	<.05	.127	<.20	<.05
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	<.010	8.9	<10	<2	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	<.010	10	<10	<2	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-22-00	--	--	--	--	--	.071	E.028	<.05	.079	<.20	<.05
08-08-00	--	--	--	--	--	<.050	<.050	<.05	E.049	<.20	<.05
08-08-00	--	--	--	--	--	<.050	<.050	<.05	E.040	<.20	<.05
08-22-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	<.010	14	<10	E1	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	<.050	<.050	<.05	.126	<.20	<.05
08-22-00	--	<.010	5.8	<10	<2	<.050	<.050	<.05	.173	<.20	<.05
08-22-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-21-00	--	--	--	--	--	<.050	<.050	<.05	E.021	<.20	<.05
08-21-00	--	--	--	--	--	<.050	<.050	<.05	.079	<.20	<.05
08-11-00	--	--	--	--	--	--	--	--	--	--	--
08-07-00	--	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

UPPER REPUBLICAN NATURAL RESOURCES DISTRICT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BOXIN, WATER, DISS, REC (UG/L) (04027)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	SI-CLOATE, WATER, DISS, REC (UG/L) (04031)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DEISO-PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)	DIPHEN-AMID, WATER, DISS, REC (UG/L) (04033)	HEXA-ZINONE, WATER, DISS, REC (UG/L) (04025)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
					DUNDY COUNTY						
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-07-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	<.050	<.05	<.050	<.05	.26	<.05	<.05	<.05	<.050	<.050	<.050
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-22-00	<.050	<.05	<.050	<.05	<.050	<.05	<.05	<.05	.091	<.050	<.050
08-08-00	<.050	<.05	<.050	<.05	.57	<.05	<.05	<.05	E.009	<.050	<.050
08-08-00	<.050	<.05	<.050	<.05	.29	<.05	<.05	<.05	<.050	<.050	<.050
08-22-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	<.050	<.05	<.050	<.05	1.2	<.05	<.05	<.05	<.050	<.050	<.050
08-22-00	<.050	<.05	<.050	<.05	1.5	<.05	<.05	<.05	E.010	<.050	<.050
08-22-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-21-00	<.050	<.05	<.050	<.05	.13	<.05	<.05	<.05	<.050	<.050	<.050
08-21-00	<.050	<.05	<.050	<.05	.94	<.05	<.05	<.05	<.050	<.050	<.050
08-11-00	--	--	--	--	--	--	--	--	--	--	--
08-07-00	--	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

UPPER REPUBLICAN NATURAL RESOURCES DISTRICT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PRO-METRYN, WATER, DISS, REC (UG/L) (04036)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PROP-AZINE WATER DISS REC (UG/L) (38535)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	SIMA-TRYN, WATER, DISS, REC (UG/L) (04030)	TER-BACIL, WATER, DISS, REC (UG/L) (04032)	TRI-FLUR-ALIN, WATER, DISS, REC (UG/L) (04023)	VERNO-LATE, WATER, DISS, REC (UG/L) (04034)	N15/N14 NO3 FRAC WATER FLTRD 0.45 U PER MIL (82690)	TRITIUM TOTAL (TU) (07017)	TRITIUM TOTAL COUNT ERROR (TU) (07019)
						DUNDY COUNTY					
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-07-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	4.10	--	--
08-09-00	--	--	--	--	--	--	--	--	--	<.8	.3
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	<.05	<.050	E.01	<.050	<.05	<.05	<.05	<.05	3.20	--	--
08-09-00	--	--	--	--	--	--	--	--	--	5.3	.5
08-10-00	--	--	--	--	--	--	--	--	4.50	--	--
08-10-00	--	--	--	--	--	--	--	--	--	.9	.3
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	4.40	--	--
08-10-00	--	--	--	--	--	--	--	--	--	3.7	.4
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-22-00	<.05	E.014	<.05	<.050	<.05	<.05	<.05	<.05	--	--	--
08-08-00	<.05	<.050	<.05	<.050	<.05	<.05	<.05	<.05	--	--	--
08-08-00	<.05	<.050	<.05	<.050	<.05	<.05	<.05	<.05	--	--	--
08-22-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	3.80	--	--
08-08-00	--	--	--	--	--	--	--	--	--	.9	.3
08-08-00	<.05	E.003	M	<.050	<.05	<.05	<.05	<.05	--	--	--
08-22-00	<.05	<.050	E.01	<.050	<.05	<.05	<.05	<.05	2.10	--	--
08-22-00	--	--	--	--	--	--	--	--	--	3.3	.4
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-21-00	<.05	<.050	M	<.050	<.05	<.05	<.05	<.05	--	--	--
08-21-00	<.05	<.050	E.01	<.050	<.05	<.05	<.05	<.05	--	--	--
08-11-00	--	--	--	--	--	--	--	--	--	--	--
08-07-00	--	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

UPPER REPUBLICAN NATURAL RESOURCES DISTRICT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	GEOLOGIC UNIT	DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
			DUNDY COUNTY					
401442101444001	3N 39W 8A0 1	40 14 42 N	101 44 40 W	121OGLL	08-11-00	0830	310.00	3400
401418101422301	3N 39W10D0 1	40 14 18 N	101 42 23 W	121OGLL	08-21-00	1330	310.00	3355
401415101401101	3N 39W12DCAA1	40 14 15 N	101 40 11 W	121OGLL	08-07-00	1200	238.00	3326
401328101411401	3N 39W14DO 1	40 13 28 N	101 41 14 W	121OGLL	08-10-00	0900	310.00	3360
				121OGLL	08-10-00	0901	310.00	3360
401506101531401	3N 40W 6CCAB1	40 15 06 N	101 53 14 W	121OGLL	08-08-00	1500	290.00	3465
				121OGLL	08-08-00	1501	290.00	3465
401440101531401	3N 40W 7BCAA1	40 14 40 N	101 53 14 W	121OGLL	08-10-00	1230	299.00	3490
401348101523601	3N 40W18ACAA1	40 13 48 N	101 52 36 W	--	08-10-00	1100	264.00	3465
401257101512801	3N 40W20ACAA1	40 12 57 N	101 51 28 W	--	08-10-00	1000	277.00	3450
401233101521401	3N 40W20CBDC1	40 12 33 N	101 52 14 W	121OGLL	08-22-00	1030	280.00	3440
				121OGLL	08-22-00	1031	280.00	3440
401052101592901	3N 41W31CBDA1	40 10 52 N	101 59 29 W	121OGLL	08-08-00	1500	235.00	3520
401511102013901	3N 42W 2DCAA1	40 15 11 N	102 01 39 W	121OGLL	08-10-00	1400	354.00	3560
401441102013601	3N 42W11ACAD1	40 14 41 N	102 01 36 W	121OGLL	08-10-00	1430	310.00	3580
401419102013101	3N 42W11DDBC1	40 14 19 N	102 01 31 W	121OGLL	08-10-00	1500	345.00	3560
				121OGLL	08-10-00	1501	345.00	3560
401232102021701	3N 42W23CDBB1	40 12 32 N	102 02 17 W	121OGLL	08-08-00	1100	--	3550
				121OGLL	08-08-00	1101	--	3550
401139102013401	3N 42W26DCAD1	40 11 39 N	102 01 34 W	121OGLL	08-22-00	1000	236.00	3550
401721101571401	4N 41W28ACAA1	40 17 21 N	101 57 14 W	121OGLL	08-22-00	0800	320.00	3512
401654101571301	4N 41W28DCAA1	40 16 54 N	101 57 13 W	121OGLL	08-22-00	0900	335.00	3538
401601101564001	4N 41W34CO 1	40 16 01 N	101 56 40 W	121OGLL	08-09-00	1000	320.00	3505
				121OGLL	08-09-00	1001	320.00	3505
400646102014101	2N 42W 26ACCC1	40 06 46 N	102 01 41 W	121OGLL	08-21-00	1400	115.00	3532
				121OGLL	08-21-00	1401	115.00	3532
			PERKINS COUNTY					
404653101284201	9N 37W 1AO 1	40 46 53 N	101 28 42 W	121OGLL	08-08-00	1500	400.00	--
404627101295401	9N 37W 2DO 1	40 46 27 N	101 29 54 W	121OGLL	08-08-00	1400	434.00	3280
				121OGLL	08-08-00	1401	434.00	3280
404631101310301	9N 37W 3DO 1	40 46 31 N	101 31 03 W	121OGLL	08-08-00	1330	440.00	3312

CHEMICAL ANALYSES OF GROUND WATER

UPPER REPUBLICAN NATURAL RESOURCES DISTRICT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)
					DUNDY COUNTY						
08-11-00	--	--	5.6	7.6	380	15.2	--	--	--	--	--
08-21-00	--	--	6.3	7.8	374	15.4	--	--	--	--	--
08-07-00	--	--	--	7.6	410	20.5	--	--	--	--	--
08-10-00	.36	261	5.8	7.8	358	14.0	140	36.0	11.5	10.8	.5
08-10-00	--	--	5.8	7.8	358	14.0	--	--	--	--	--
08-08-00	.33	244	5.0	7.9	335	15.0	130	33.5	10.8	10.6	.5
08-08-00	--	--	5.0	7.9	335	15.0	--	--	--	--	--
08-10-00	--	--	3.3	7.8	399	14.2	--	--	--	--	--
08-10-00	--	--	--	8.1	378	16.2	--	--	--	--	--
08-10-00	--	--	6.0	7.8	383	14.7	--	--	--	--	--
08-22-00	.33	242	6.0	7.6	329	14.9	130	34.0	10.3	9.1	.4
08-22-00	--	--	6.0	7.6	329	14.9	--	--	--	--	--
08-08-00	--	--	8.5	7.7	315	16.2	--	--	--	--	--
08-10-00	--	--	3.9	7.9	368	14.7	--	--	--	--	--
08-10-00	--	--	3.5	7.8	376	15.2	--	--	--	--	--
08-10-00	.38	280	3.9	7.8	387	14.4	140	38.3	11.8	10.1	.5
08-10-00	--	--	3.9	7.8	387	14.4	--	--	--	--	--
08-08-00	.31	229	5.2	7.9	300	15.0	120	30.4	9.80	8.6	.4
08-08-00	--	--	5.2	7.9	300	15.0	--	--	--	--	--
08-22-00	--	--	3.6	7.7	316	15.6	--	--	--	--	--
08-22-00	--	--	5.9	7.7	339	14.8	--	--	--	--	--
08-22-00	--	--	3.6	7.6	384	14.8	--	--	--	--	--
08-09-00	.31	228	3.8	7.7	327	16.0	130	35.0	10.1	9.0	.4
08-09-00	--	--	3.8	7.7	327	16.0	--	--	--	--	--
08-21-00	.38	276	16.5	7.4	390	14.9	160	46.8	9.83	8.4	.4
08-21-00	--	--	16.5	7.4	390	14.9	--	--	--	--	--
					PERKINS COUNTY						
08-08-00	--	--	7.0	7.6	363	16.3	--	--	--	--	--
08-08-00	.32	236	7.8	7.7	341	15.1	140	36.8	10.6	9.0	.4
08-08-00	--	--	7.8	7.7	341	15.1	--	--	--	--	--
08-08-00	--	--	8.2	7.6	352	14.8	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

UPPER REPUBLICAN NATURAL RESOURCES DISTRICT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
					DUNDY COUNTY						
08-11-00	--	--	--	--	--	--	--	--	--	2.7	--
08-21-00	--	--	--	--	--	--	--	--	--	2.0	--
08-07-00	--	--	--	--	--	--	--	--	--	3.9	--
08-10-00	13.8	17	166	1.9	1.0	66.2	11.4	<.020	2.01	2.1	<.010
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	14.0	18	150	1.8	1.1	69.1	13.3	<.020	--	2.8	<.010
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	9.9	--
08-10-00	--	--	--	--	--	--	--	--	--	3.3	--
08-10-00	--	--	--	--	--	--	--	--	--	6.3	--
08-22-00	11.6	15	147	1.4	1.0	62.4	10.2	<.020	3.19	3.3	<.010
08-22-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	1.9	--
08-10-00	--	--	--	--	--	--	--	--	--	6.4	--
08-10-00	--	--	--	--	--	--	--	--	--	5.1	--
08-10-00	12.8	15	138	4.3	1.0	65.6	15.8	<.020	8.60	9.1	<.010
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	9.8	14	131	1.8	1.2	65.0	11.8	<.020	2.69	2.7	<.010
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-22-00	--	--	--	--	--	--	--	--	--	4.4	--
08-22-00	--	--	--	--	--	--	--	--	--	4.1	--
08-22-00	--	--	--	--	--	--	--	--	--	5.2	--
08-09-00	9.8	13	143	2.2	.9	65.3	9.6	<.020	--	3.9	<.010
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-21-00	10.8	12	163	4.0	.7	58.2	8.0	<.020	7.06	7.1	<.010
08-21-00	--	--	--	--	--	--	--	--	--	--	--
					PERKINS COUNTY						
08-08-00	--	--	--	--	--	--	--	--	--	2.2	--
08-08-00	11.1	14	153	4.3	.7	52.3	11.4	<.020	1.93	2.0	<.010
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	2.3	--

CHEMICAL ANALYSES OF GROUND WATER

UPPER REPUBLICAN NATURAL RESOURCES DISTRICT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	AMETRYN WATER, DISS, REC, (UG/L) (38401)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	BUTA-CHLOR, WATER, DISS, REC (UG/L) (04026)
					DUNDY COUNTY						
08-11-00	--	--	--	--	--	.097	.059	<.05	.082	<.20	<.05
08-21-00	--	--	--	--	--	--	--	--	--	--	--
08-07-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	<.010	5.1	<10	<2	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	<.010	3.7	<10	<2	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	--	--	--	--	<.050	E.009	<.05	.134	<.20	<.05
08-10-00	--	--	--	--	--	<.050	<.050	<.05	E.040	<.20	<.05
08-10-00	--	--	--	--	--	<.050	<.050	<.05	.064	<.20	<.05
08-22-00	--	<.010	7.6	<10	<2	--	--	--	--	--	--
08-22-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	--	--	--	--	<.050	<.050	<.05	E.022	<.20	<.05
08-10-00	--	--	--	--	--	<.050	<.050	<.05	E.031	<.20	<.05
08-10-00	--	<.010	3.9	<10	<2	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	<.010	3.1	<10	<2	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-22-00	--	--	--	--	--	--	--	--	--	--	--
08-22-00	--	--	--	--	--	--	--	--	--	--	--
08-22-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	<.010	5.5	<10	<2	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-21-00	.037	.012	12	<10	<2	--	--	--	--	--	--
08-21-00	--	--	--	--	--	--	--	--	--	--	--
					PERKINS COUNTY						
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	<.010	6.0	<10	<2	<.050	<.050	<.05	.079	<.20	<.05
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

UPPER REPUBLICAN NATURAL RESOURCES DISTRICT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBOXIN, WATER, DISS, REC (UG/L) (04027)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	SICLOATE, WATER, DISS, REC (UG/L) (04031)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DEISOPROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)	DIPHENAMID, WATER, DISS, REC (UG/L) (04033)	HEXAZINONE, WATER, DISS, REC (UG/L) (04025)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	PROMETON, WATER, DISS, REC (UG/L) (04037)
					DUNDY COUNTY						
08-11-00	<.050	<.05	<.050	<.05	<.050	<.05	<.05	<.05	.228	<.050	<.050
08-21-00	--	--	--	--	--	--	--	--	--	--	--
08-07-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	<.050	<.05	<.050	<.05	.75	<.05	<.05	<.05	E.038	<.050	E.007
08-10-00	<.050	<.05	<.050	<.05	.11	<.05	<.05	<.05	E.033	<.050	<.050
08-10-00	<.050	<.05	<.050	<.05	.30	<.05	<.05	<.05	E.025	<.050	<.050
08-22-00	--	--	--	--	--	--	--	--	--	--	--
08-22-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	<.050	<.05	<.050	<.05	.18	<.05	<.05	<.05	E.008	<.050	<.050
08-10-00	<.050	<.05	<.050	<.05	E.036	<.05	<.05	<.05	E.039	<.050	<.050
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-22-00	--	--	--	--	--	--	--	--	--	--	--
08-22-00	--	--	--	--	--	--	--	--	--	--	--
08-22-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	--	--	--
08-21-00	--	--	--	--	--	--	--	--	--	--	--
08-21-00	--	--	--	--	--	--	--	--	--	--	--
					PERKINS COUNTY						
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	<.050	<.05	<.050	<.05	<.050	<.05	<.05	<.05	.150	<.050	<.050
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

UPPER REPUBLICAN NATURAL RESOURCES DISTRICT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PRO-METRYN, WATER, DISS, REC (UG/L) (04036)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PROP-AZINE WATER DISS REC (UG/L) (38535)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	SIMA-TRYN, WATER, DISS, REC (UG/L) (04030)	TER-BACIL, WATER, DISS, REC (UG/L) (04032)	TRI-FLUR-ALIN, WATER, DISS, REC (UG/L) (04023)	VERNO-LATE, WATER, DISS, REC (UG/L) (04034)	N15/N14 NO3 FRAC WATER FLTRD 0.45 U PER MIL (82690)	TRITIUM TOTAL (TU) (07017)	TRITIUM TOTAL COUNT ERROR (TU) (07019)
					DUNDY COUNTY						
08-11-00	<.05	E.020	<.05	<.050	<.05	<.05	<.05	<.05	--	--	--
08-21-00	--	--	--	--	--	--	--	--	--	--	--
08-07-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	--	--	--	--	--	--	--	--	4.60	--	--
08-10-00	--	--	--	--	--	--	--	--	--	<.8	.2
08-08-00	--	--	--	--	--	--	--	--	3.60	--	--
08-08-00	--	--	--	--	--	--	--	--	--	<.8	.3
08-10-00	<.05	E.006	E.01	<.050	<.05	<.05	<.05	<.05	--	--	--
08-10-00	<.05	<.050	<.05	<.050	<.05	<.05	<.05	<.05	--	--	--
08-10-00	<.05	<.050	<.05	<.050	<.05	<.05	<.05	<.05	--	--	--
08-22-00	--	--	--	--	--	--	--	--	1.90	--	--
08-22-00	--	--	--	--	--	--	--	--	--	<.8	.2
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-10-00	<.05	<.050	<.05	<.050	<.05	<.05	<.05	<.05	--	--	--
08-10-00	<.05	<.050	<.05	<.050	<.05	<.05	<.05	<.05	--	--	--
08-10-00	--	--	--	--	--	--	--	--	.40	--	--
08-10-00	--	--	--	--	--	--	--	--	--	4.5	.7
08-08-00	--	--	--	--	--	--	--	--	3.80	--	--
08-08-00	--	--	--	--	--	--	--	--	--	<.8	.5
08-22-00	--	--	--	--	--	--	--	--	--	--	--
08-22-00	--	--	--	--	--	--	--	--	--	--	--
08-22-00	--	--	--	--	--	--	--	--	--	--	--
08-09-00	--	--	--	--	--	--	--	--	2.90	--	--
08-09-00	--	--	--	--	--	--	--	--	--	1.5	.6
08-21-00	--	--	--	--	--	--	--	--	1.90	--	--
08-21-00	--	--	--	--	--	--	--	--	--	1.4	.3
					PERKINS COUNTY						
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	<.05	E.018	<.05	<.050	<.05	<.05	<.05	<.05	4.90	--	--
08-08-00	--	--	--	--	--	--	--	--	--	<.8	.2
08-08-00	--	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

UPPER REPUBLICAN NATURAL RESOURCES DISTRICT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	GEOLOGIC UNIT	DATE	TIME	DEPTH OF WELL, TOTAL (FEET) (72008)
		PERKINS COUNTY					
404621101411501	9N 38W 7AAAA1	40 46 21 N	101 41 15 W	121OGLL	08-07-00	1200	270.00
404537101415701	9N 38W 7CDBC1	40 45 37 N	101 41 57 W	121OGLL	08-07-00	1330	320.00
404357101412501	9N 38W19DDBB1	40 43 57 N	101 41 25 W	121OGLL	08-08-00	1230	350.00
404325101420401	9N 38W30BDBB1	40 43 25 N	101 42 04 W	121OGLL	08-08-00	1130	240.00
404537101430801	9N 39W12CADA1	40 45 37 N	101 43 08 W	121OGLL	08-07-00	1600	350.00
404506101480701	9N 39W18ADDA1	40 45 06 N	101 48 07 W	121OGLL	08-08-00	0830	340.00
				121OGLL	08-08-00	0831	340.00
404359101444801	9N 39W22DACB1	40 43 59 N	101 44 48 W	121OGLL	08-08-00	0930	180.00
				121OGLL	08-08-00	0931	180.00
404413101432401	9N 39W24BCCB1	40 44 13 N	101 43 24 W	121OGLL	08-21-00	1100	217.00
				121OGLL	08-21-00	1101	217.00
404302101423401	9N 39W25DO 1	40 43 02 N	101 42 34 W	121OGLL	08-08-00	1100	270.00
404305101452601	9N 39W27CCAA1	40 43 05 N	101 45 26 W	121OGLL	08-08-00	1000	350.00
404301101475101	9N 39W29CCAA1	40 43 01 N	101 47 51 W	121OGLL	08-07-00	1500	332.00

DATE	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
					PERKINS COUNTY						
08-07-00	3370	--	--	10.7	7.6	366	14.9	--	--	--	--
08-07-00	3385	--	--	--	7.8	326	18.7	--	--	--	--
08-08-00	--	--	--	9.3	7.4	383	14.3	--	--	--	--
08-08-00	3365	--	--	--	7.4	412	16.4	--	--	--	--
08-07-00	3398	--	--	8.8	7.7	317	16.0	--	--	--	--
08-08-00	3449	.34	248	10.3	7.8	361	14.6	140	39.8	9.32	8.4
08-08-00	3449	--	--	10.3	7.8	361	14.6	--	--	--	--
08-08-00	3405	.36	263	9.0	7.6	374	14.7	150	45.1	9.53	8.1
08-08-00	3405	--	--	9.0	7.6	374	14.7	--	--	--	--
08-21-00	--	.37	275	9.2	7.7	398	14.1	160	45.8	10.1	9.2
08-21-00	--	--	--	9.2	7.7	398	14.1	--	--	--	--
08-08-00	3370	--	--	8.4	7.4	374	14.2	--	--	--	--
08-08-00	3420	--	--	7.1	7.6	391	15.3	--	--	--	--
08-07-00	3430	--	--	10.1	7.7	354	15.0	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

UPPER REPUBLICAN NATURAL RESOURCES DISTRICT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
					PERKINS COUNTY						
08-07-00	--	--	--	--	--	--	--	--	--	--	4.0
08-07-00	--	--	--	--	--	--	--	--	--	--	2.5
08-08-00	--	--	--	--	--	--	--	--	--	--	6.2
08-08-00	--	--	--	--	--	--	--	--	--	--	8.9
08-07-00	--	--	--	--	--	--	--	--	--	--	2.8
08-08-00	.4	11.4	14	142	8.4	.7	57.5	10.7	<.020	3.75	4.8
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	.3	9.4	11	150	5.5	.7	57.2	9.2	<.020	6.35	6.4
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-21-00	.4	10.2	12	154	5.2	.6	55.0	9.6	<.020	8.26	8.2
08-21-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	4.9
08-08-00	--	--	--	--	--	--	--	--	--	--	3.3
08-07-00	--	--	--	--	--	--	--	--	--	--	4.6

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	AMETRYN WATER, DISS, REC, (UG/L) (38401)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	BUTA-CHLOR, WATER, DISS, REC (UG/L) (04026)
					PERKINS COUNTY						
08-07-00	--	--	--	--	--	--	--	--	--	--	--
08-07-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-07-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	<.010	<.010	4.7	<10	<2	.123	.100	<.05	.191	<.20	<.05
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	<.010	<.010	7.4	<10	<2	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-21-00	<.010	<.010	5.9	<10	<2	<.050	<.050	<.05	E.021	<.20	<.05
08-21-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	.073	.055	<.05	.148	<.20	<.05
08-07-00	--	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

UPPER REPUBLICAN NATURAL RESOURCES DISTRICT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBOXIN, WATER, DISS, REC (UG/L) (04027)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	SICLOATE, WATER, DISS, REC (UG/L) (04031)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DEISOPROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)	DIPHENAMID, WATER, DISS, REC (UG/L) (04033)	HEXAZINONE, WATER, DISS, REC (UG/L) (04025)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	PROMETON, WATER, DISS, REC (UG/L) (04037)
					PERKINS COUNTY						
08-07-00	--	--	--	--	--	--	--	--	--	--	--
08-07-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-07-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	<.050	<.05	<.050	<.05	.051	<.05	<.05	<.05	.378	<.050	E.038
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-21-00	<.050	<.05	<.050	<.05	.068	<.05	<.05	<.05	E.029	<.050	<.050
08-21-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	<.050	<.05	<.050	<.05	<.050	<.05	<.05	<.05	.252	<.050	E.021
08-07-00	--	--	--	--	--	--	--	--	--	--	--

DATE	PROMETRYN, WATER, DISS, REC (UG/L) (04036)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	PROPAZINE WATER DISS REC (UG/L) (38535)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	SIMATRYN, WATER, DISS, REC (UG/L) (04030)	TERBACIL, WATER, DISS, REC (UG/L) (04032)	TRIFLURALIN, WATER, DISS, REC (UG/L) (04023)	VERNOLATE, WATER, DISS, REC (UG/L) (04034)	N15/N14 NO3 FRAC WATER FLTRD 0.45 U PER MIL (82690)	TRITIUM TOTAL (TU) (07017)	TRITIUM TOTAL COUNT ERROR (TU) (07019)
					PERKINS COUNTY						
08-07-00	--	--	--	--	--	--	--	--	--	--	--
08-07-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-07-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	<.05	E.039	<.05	<.050	<.05	<.05	<.05	<.05	4.30	--	--
08-08-00	--	--	--	--	--	--	--	--	--	1.9	.6
08-08-00	--	--	--	--	--	--	--	--	2.70	--	--
08-08-00	--	--	--	--	--	--	--	--	--	2.3	.5
08-21-00	<.05	<.050	<.05	<.050	<.05	<.05	<.05	<.05	3.20	--	--
08-21-00	--	--	--	--	--	--	--	--	--	2.8	.6
08-08-00	--	--	--	--	--	--	--	--	--	--	--
08-08-00	<.05	E.027	<.05	<.050	<.05	<.05	<.05	<.05	--	--	--
08-07-00	--	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES OF GROUND WATER

GROUND-WATER PROTECTION AREA
MIDDLE REPUBLICAN RIVER

(Local identifier: indicates location by township, range, and section. Geologic unit: 112SDGV, Pleistocene sand and gravel deposits; 121OGLL, Miocene Ogallala Formation.)

COUNTIES.--Hitchcock and Red Willow

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	GEOLOGIC UNIT	HYDROLOGIC UNIT CODE	DATE	TIME
		HITCHCOCK COUNTY					
400818101124001	2N 35W13AAAD1	40 08 18 N	101 12 40 W	112SDGV	10250004	08-16-00	1500
400818101124002	2N 35W13AAAD2			112SDGV	10250004	08-16-00	1530
401655100583201	4N 32W30DCBB1	40 16 55 N	100 58 32 W	112SDGV	10250005	08-16-00	1700
401655100583202	4N 32W30DCBB2			112SDGV	10250005	08-16-00	1730
		RED WILLOW COUNTY					
400357100135201	1N 26W11CBBB1	40 03 57 N	100 13 52 W	112SDGV	10250014	08-17-00	1100
400357100135202	1N 26W11CBBB2			112SDGV	10250014	08-17-00	1130
401016100391801	2N 30W 1ACDD1	40 10 16 N	100 39 18 W	112SDGV	10250004	08-16-00	1200
401016100391802	2N 30W 1ACDD2			112SDGV	10250004	08-16-00	1230
401454100215401	3N 27W 9AAAA1	40 14 54 N	100 21 54 W	112SDGV	10250004	08-17-00	0900
401454100215402	3N 27W 9AAAA2			112SDGV	10250004	08-17-00	0930
401412100364201	3N 29W 8DDBA1	40 14 12 N	100 36 42 W	121OGLL	10250004	08-17-00	1430
401412100364202	3N 29W 8DDBA2			121OGLL	10250004	08-17-00	1500
401412100364203	3N 29W 8DDBA3			112SDGV	10250004	08-17-00	1530

DATE	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
				HITCHCOCK COUNTY						
08-16-00	19.83	46.00	2788	690	.2	2	7.4	1390	14.5	12.8
08-16-00	20.02	30.00	2788	690	1.0	11	7.4	1570	15.5	16.7
08-16-00	20.76	61.00	2867	690	3.8	41	7.4	1200	14.0	11.4
08-16-00	20.75	45.00	2867	690	3.7	40	7.4	1270	14.0	11.5
				RED WILLOW COUNTY						
08-17-00	22.25	64.00	2366	--	.3	--	7.2	667	17.5	.1
08-17-00	21.85	36.00	2366	--	.7	--	7.3	1020	16.5	1.5
08-16-00	31.04	72.00	2493	--	.1	--	7.3	1200	16.0	25.5
08-16-00	30.87	55.00	2493	--	.2	--	7.3	1260	16.0	22.6
08-17-00	25.49	40.00	2368	705	6.0	67	7.4	584	17.0	1.2
08-17-00	25.50	32.00	2368	705	7.8	86	7.4	588	16.0	1.8
08-17-00	121.33	174.00	2605	700	--	--	7.5	521	16.5	4.7
08-17-00	121.17	159.00	2605	700	4.9	55	7.4	736	16.5	16.5
08-17-00	120.87	135.00	2605	700	5.0	56	7.4	1030	16.5	28.5

Numerics

7-day 10-year low flow 32

A

Algae 27
Annual 7-day minimum 29
Aquifer 27
Arikaree River at Haigler 238
Arrangement of Records (SW Quality) 19
Artificial substrate 33
Ash mass 28
Ashland, Platte River near 174
Ashland, Wahoo Creek at 208
Auburn, Little Nemaha River at 228

B

Bacteria 27
Barneston, Big Blue River at 288
Beaver Creek at Genoa 142
Bed load 32
Bed load discharge 32
Bed material 28
Benkelman, South Fork Republican River near 246
Big Blue River at Barneston 288
Big Blue River near Crete 286
Big Nemaha River at Falls City 234
Biochemical oxygen demand 28
Biomass 28
Blue-green algae 31
Bottom material 28
Buffalo Creek near Haigler 242
Buffalo Creek near Overton 92

C

Cambridge, Republican River at 262
Central City, Warm Slough near 108
Ceresco, Rock Creek near 202
Chemical oxygen demand 28
Chlorophyll 28
Classification of records (SW Quality) 19
Clear Creek 1.75 mi W of Polk County line 146
Colorado-Nebraska state line, North Fork Republican River at 240
Columbus, Shell Creek near 148
Contents 28
Control 28
Courtland Canal at Nebraska-Kansas State line 276
Crete, Big Blue River near 286
Cubic foot per second 28
Cubic-foot-per-second day 28
Culbertson, Frenchman Creek at 254

D

Data Collection and Computation (GW Levels) 22
Data Collection and Computation (GW quality) 25
Data Collection and Computation (Stage and Water Discharge) 14
Data Presentation (GW Levels) 24
Data Presentation (GW Quality) 25
Data Presentation (SW Quality) 21
Decatur, Missouri River at 70
Deweese, Little Blue River near 290
Diatoms 31
Discharge 29
Dismal River near Thedford 120
Dissolved 29
Dissolved-solids concentration 29
Doniphan, Platte River near 104
Dorchester, West Fork Big Blue River near 284
Downstream Order System 13
Drainage area 29
Drainage basin 29
Driftwood Creek near McCook 256
Dry mass 28
Duncan, Platte River near 114
Dunning, Middle Loup River at 118

E

Elkhorn River at Ewing 156
Elkhorn River at Norfolk 158
Elkhorn River at Waterloo 172
Elkhorn River at West Point 162
Elm Creek near Elm Creek 94
Elm Creek, Elm Creek near 94
Enders Reservoir near Enders 250
Enders, Enders Reservoir near 250
Ewing, Elkhorn River at 156
Explanation of the records 12

F

Fairbury, Little Blue River near 292
Falls City, Big Nemaha River at 234
Fecal coliform bacteria 27
Fecal streptococcal bacteria 27
Fort Kearney Slough near Newark, NE 100
Frenchman Creek at Culbertson 254
Frenchman Creek at Palisade 252

G

Gage height 29
Gaging station 29
Genoa, Beaver Creek at 142
Genoa, Loup River near 140
Genoa, Loup River Power Canal near 138
Grand Island, Platte River near 106
Green algae 31
Greenwood, Salt Creek at 204
Ground-water records, by county
- Adams 304
- Blaine 304
- Boone 304
- Box Butte 305
- Buffalo 305
- Butler 306
- Chase 306
- Cherry 307
- Colfax 307
- Dawes 307
- Dawson 308
- Dundy 308
- Fillmore 309
- Garfield 309
- Gosper 310
- Hall 310
- Hamilton 311
- Harlan 311
- Holt 312
- Hooker 313
- Kearney 313
- Kimball 313
- Lancaster 314
- McPherson 315
- Nuckolls 315
- Phelps 315
- Platte 316
- Saline 316
- Sarpy 316
- Saunders 317, 318, 319
- Scotts Bluff 319
- Seward 320
- Valley 320
- Webster 321
- York 321

Guide Rock, Republican River at 278

H

Haigler, Arikaree River at 238
Haigler, Buffalo Creek near 242
Haines Branch at SW 56th St. at Lincoln 184
Hallam, Olive Branch near 176
Hardness of water 29
Harlan County Dam, Republican River below 274
Hollenberg, KS, Little Blue River at 294
Homer, Omaha Creek at 68
Hydrologic Bench-Mark Network 12, 29
Hydrologic unit 29

I

Instantaneous discharge 29
Ithaca, Wahoo Creek at 206

J

Johnson Creek near Memphis 210
Julesburg, CO, South Platte River at 80

K

Kearney, North Dry Creek 2 mi SW of Platte River Bridge S of 96
Kearney, Platte River near 98
Keya Paha River at Wewela 56–57

L

Laboratory Measurements (SW Quality) 21
Lakes and reservoirs
Lewis and Clark Lake near Yankton 64
Land-surface datum 29
Latitude-Longitude System 13
Leshara, Platte River near 152
Lincoln, Haines Branch at SW 56th St. at 184
Lincoln, Little Salt Creek near 192
Lincoln, Middle Creek at SW 40th St. at 186
Lincoln, Oak Creek at Air Park Road at 188
Lincoln, Salt Creek at 190
Lincoln, Salt Creek at 70th St. at 194
Lincoln, Salt Creek at Pioneers Boulevard at 182
Lincoln, Stevens Creek near 196
Little Blue River at Hollenberg, KS 294
Little Blue River near Deweese 290
Little Blue River near Fairbury 292
Little Nemaha River at Auburn 228
Little Salt Creek near Lincoln 192
Logan Creek near Uehling 164
Long Pine Creek near Riverview 52
Louisville, Platte River at 212
Loup River near Genoa 140
Loup River Power Canal near Genoa 138

M

Maple Creek near Nickerson 166
McCook, Driftwood Creek near 256
McCook, Republican River at 258
Mean concentration 32
Mean discharge 29
Measuring point 30
Memphis, Johnson Creek near 210
Methylene blue active substances 30
Micrograms per gram 30
Micrograms per liter 30
Middle Creek at SW 40th St. at Lincoln 186
Middle Loup River at Dunning 118
Middle Loup River at St. Paul 126
Milligrams per liter 30
Missouri River
at Decatur 70
at Nebraska City 226
at Omaha 72
at Rulo 230
at Sioux City 66

N

National Geodetic Vertical Datum of 1929 30
National Stream Quality Accounting Network 30
National Stream-Quality Accounting Network 12
National Water-Quality Assessment 30
National Water-Quality Assessment Program 12
Natural substrate 33
Nebraska City, Missouri River at 226
Nebraska-Kansas State line, Courtland Canal at 276
Newark, NE, Fort Kearney Slough near 100
Newark, Platte River near 102
Nickerson, Maple Creek near 166
Niobrara River Basin near Sparks 50
Niobrara River near Spencer 58
Niobrara River near Verdel 60
Norfolk, Elkhorn River at 158
North Bend, Platte River at 150
North Dry Creek 2 mi SW of Platte River Bridge south of Kearney 96

North Fork Elkhorn River near Pierce 160
North Fork Republican River at Colorado-Nebraska state line 240
North Loup River at Taylor 130
North Loup River near St. Paul 134
North Platte River at Wyoming-Nebraska State line 76

O

Oak Creek at Air Park Road at Lincoln 188
Olive Branch near Hallam 176
Omaha Creek at Homer 68
Omaha, Missouri River at 72
On-site Measurements and Sample Collection (SW Quality) 19
Organic mass 28
Organism 30
Organism count/area 30
Organism count/volume 30
Orleans, Republican River near 264
Overton, Buffalo Creek near 92
Overton, Platte River near 86
Overton, Spring Creek near 90

P

Palisade, Frenchman Creek at 252
Parameter Code 30
Parks, Rock Creek at 244
Partial-record station 30
Particle size 31
Particle-size classification 31
Percent composition 31
Periphyton 31
Pesticides 31
Phytoplankton 31
Picocurie 31
Pierce, North Fork Elkhorn River near 160
Plankton 31
Platte River at Louisville 212
Platte River at North Bend 150
Platte River near Ashland 174
Platte River near Doniphan 104
Platte River near Duncan 114
Platte River near Grand Island 106
Platte River near Kearney 98
Platte River near Leshara 152
Platte River near Newark 102
Platte River near Overton 86
Platte River near Prosser 103
Plum Creek near Smithfield 84
Polk County line, Clear Creek 1.75 mi W of 146
Ponca Creek at Verdel 44
Prairie Creek near Silver Creek 112
Prosser, Platte River near 103

R

Radiochemical Program 12
Radiochemical program 32
Records of Ground-Water Levels 22
Records of Ground-Water Quality 24
Records of Stage and Water Discharge 13
Records of Surface-Water Quality 19
Recoverable from bottom material 32
Red Willow Creek near Red Willow 260
Red Willow, Red Willow Creek near 260
Republican River at Cambridge 262
Republican River at Guide Rock 278
Republican River at McCook 258
Republican River at Stratton 248
Republican River below Harlan County Dam 274
Republican River near Orleans 264
Return period 32
Riverview, Long Pine Creek near 52
Roca, Salt Creek at 180
Rock Creek at Parks 244
Rock Creek near Ceresco 202
Roscoe, South Platte River at 82
Rulo, Missouri River at 230
Runoff in inches 32

S

Salt Creek at 70th St. at Lincoln 194
Salt Creek at Greenwood 204
Salt Creek at Lincoln 190
Salt Creek at Pioneers Boulevard at Lincoln 182
Salt Creek at Roca 180
Salt Creek below Stevens Creek, near Waverly 198
Sappa Creek near Stamford 270
Sea level 32
Sediment 32
Sediment (SW Quality) 21
Shell Creek near Columbus 148
Silver Creek at Mile 4, near Silver Creek 110
Silver Creek, Prairie Creek near 112
Silver Creek, Silver Creek at Mile 4, near 110
Sioux City, Missouri River at 66
Smithfield, Plum Creek near 84
Sodium-adsorption-ratio 33
Solute 33
South Fork Republican River near Benkelman 246
South Loup River at St. Michael 122
South Platte River at Julesburg, CO 80
South Platte River at Roscoe 82
Sparks, Niobrara River Basin near 50
Specific conductance 33
Spencer, Niobrara River near 58
Spring Creek near Overton 90
St. Michael, South Loup River at 122
St. Paul, Middle Loup River at 126
St. Paul, North Loup River near 134
Stage-discharge relation 33
Stamford, Sappa Creek near 270
Station 16
Station Identification Numbers 13
Stevens Creek near Lincoln 196
Stratton, Republican River at 248
Streamflow 33
Substrate 33
Surface area 33
Surficial bed material 33
Suspended 33
Suspended sediment 32
Suspended, recoverable 33
Suspended, total 33
Suspended-sediment concentration 32
Suspended-sediment discharge 32
Suspended-sediment load 32

T

Taxonomy 33
Taylor, North Loup River at 130
Thedford, Dismal River near 120
Thermograph 34
Time-weighted average 34
Tons per acre-foot 34
Tons per day 34
Total 34
Total coliform bacteria 27
Total discharge 34
Total organism count 30
Total sediment discharge 32
Total, recoverable 34
Total-sediment load 32

U

Uehling, Logan Creek near 164
Union, Weeping Water Creek at 224

V

Verdel, Niobrara River near 60
Verdel, Ponca Creek at 44

W

Wahoo Creek at Ashland 208
Wahoo Creek at Ithaca 206
Warm Slough near Central City 108
Water temperature (SW Quality) 21
Water year 34
Waterloo, Elkhorn River at 172
Waverly, Salt Creek below Stevens Creek, near 198

WDR 34
Weeping Water Creek at Union 224
Weighted average 34
West Fork Big Blue River near Dorchester 284
West Point, Elkhorn River at 162
Wet mass 28
Wewela, Keya Paha River at 56–57
WSP 34

Z

Zooplankton 31

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^{0}	kilometer
	Area	
acre	4.047×10^{3}	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi^2)	2.590×10^{0}	square kilometer
	Volume	
gallon (gal)	3.785×10^{0}	liter
	3.785×10^{0}	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^{3}	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft^3)	2.832×10^{1}	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft^3/s) d]	2.447×10^{3}	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^{3}	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
	Flow	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter per second
	2.832×10^{1}	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^{1}	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
	Mass	
ton (short)	9.072×10^{-1}	megagram or metric ton

Sea level: In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment for the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

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